

Product Documentation

User Manual

Deyel 8.4

CONTENTS

1.	We	lcome	to Deyel
2.	Abo	out Dey	yel5
3.	Use	er Mani	ual9
	3.1.	Archi	itecture
	3.2.	Gene	eral Concepts
	3.3.	Deye	l Applications
	3.4.	Exam	ples of Use
	3.5.	Users	s Portal
	3.5	.1.	Portal Access
	3.5	.2.	Menu
	3.5	.3.	Top Toolbar
	3.5	.4.	Breadcrumb
	3.5	.5.	Dashboard
	3.5	.6.	Forms and Tasks 46
	3.5	.7.	Tasks
	3.5	.8.	Cases
	3.5	.9.	Graphic Calendars
	3.5	.10.	Results and Search Grid 82
	3.5	.11.	Form Instances
	3.5	.12.	Forms Elements
	3.5	.13.	Reports
	3.6.	Agile	Forms
	3.6	.1.	About Agile Forms
	3.6	.2.	Agile Modeler
	3.7.	Mode	eler
	3.7	.1.	Characteristics
	3.7	.2.	Object States



	3.7.3.	Applications Modeling	. 152
	3.7.4.	Processes Modeling	. 182
	3.7.5.	Forms Modeling	. 314
	3.7.6.	Rules Modeling	. 372
	3.7.7.	Pages Modeling	. 500
	3.7.8.	Dashboards Modeling	. 676
	3.7.9.	Widgets Modeling	. 685
	3.7.10.	Value Lists Modeling	. 724
	3.7.11.	Reports Modeling	. 737
	3.7.12.	Export and Import	750
3.	8. Integi	ration	756
	3.8.1.	Deyel Rest API	758
3.	9. Busin	ess Social Network - Tedis	777
	3.9.1.	Chats	778
	3.9.2.	Comments Associated with Objects	791
	3.9.3.	Bots and Comands	796
3.	10. BA	M and Process Analysis	797
	3.10.1.	Process Analysis - Process Behavior	798
	3.10.2.	Process Analysis - Monthly Duration	798
	3.10.3.	Process Analysis - Process Activity	799
	3.10.4.	Process Analysis - Activation Ranking	800
	3.10.5.	Process Analysis - Case Details	800
	3.10.6.	Activity Analysis - Activity Behavior	801
	3.10.7.	Process BAM - Load Analysis	801
	3.10.8.	Process BAM - Work in Progress	802
	3.10.9.	Activity BAM - Load Analysis	803
	3.10.10.	Activity BAM - Work in progress	804
3.	11. Coi	nfiguration	804
	3.11.1.	Organization	
	3.11.2.	Security	
	3.11.3.	Environment	



3.1	1.4.	Value Lists
3.12.		Requirements
3.13.		Cloud Service Operation
3.1	.3.1.	Backups
3.1	.3.2.	Disaster Recovery Plan (DRP)94
3.1	.3.3.	Types of Deployments
3.14.		On-Premise Installation
3.1	.4.1.	Directories Structure
3.1	.4.2.	Installation in Apache Tomcat95
3.1	.4.3.	Version Update
3.1	.4.4.	High Availability
3.1	.4.5.	Amazon S3 Adapter
3.15.		Phased Learning



1. Welcome to Deyel





2. About Deyel

Phase 1: Introduction to Deyel > Low-Code vs No-Code

Deyel is a platform for creating applications. It natively gathers the required components and functionalities required to automate integral processes that impact on the entire company, adapting perfectly to the business journey, reducing the return on investment time and allowing a greater commitment and better experiences.

Do you have a good idea? Dare to make it come true



Start creating freely from the form modeler. Model all the forms you use only by selecting, dragging, drop and display. It's really very simple. A good user experience starts with receptive interfaces that can be used in all type of devices.



Secure the integrity and reliability of your information



We can all write rules and define the behavior of our forms. With the rules wizard of **Deyel**, you can create simple rules for your forms field, validations, obligatory, editability and visibility, even when you don't have coding skills. If more complexity is needed you count with tools to define advanced rules.

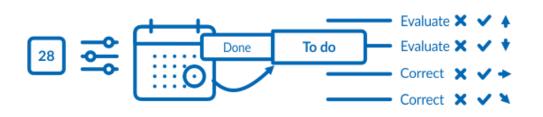
Draw your processes instead of coding them



You bring the experience... the process modeler the tools. No one knows the commercial processes better than who use them and be able to design them freely, automate to the maximum, and integrate them to the rest of the business as well as its protagonists, is the key to digital innovation and for the success of the business itself.

Process modeler is an agile tool for everyone who uses it, not just for IT connoisseurs. Generating an environment of collaborative work among business users, process experts and computer technicians.

The key... teamwork



Take advantage of new technology, simplify your tasks and keep up to day by gaining productivity. Our activities are simplified from **Deyel** portal, where everybody receives their tasks sorted by various criteria and can be seen in list form, calendar or both, facilitating its fulfillment and return.



The calendar view grants the user the simplicity and tranquility to see the whole picture and not just the short term. This is accomplished by the strong integration among business processes, their activities and the interactions between their participants with the personal calendar.

From where you are and with your favorite device



Take decisions faster and in the right time. All the applications developed in **Deyel** can be available on smartphones, tablets, notebooks and other devices as one more app. Downloads from the app store for free and you can use them where you need them with the device you have at the time.

We love to integrate with your applications ... don't worry about this



Devel makes it easy for you for your application to play in the big leagues. Integration rules, together with the adapters already defined or the ones you can create, make the applications developed in Devel able to interact directly with your corporate systems, web services, robots, artificial intelligence, the internet of things and your favorite apps.

For authentication, **Deyel** has an embedded security system that can be integrated with LDAP, allowing users to be managed in an integrated way.

Visualize and control each detail of your business





Deyel dashboards are the best way to show what is important in one single place. **Deyel** portal provides you with all the information and tools necessary to define dashboards containing business indicators based on multiple types of graphs, without the need for coding. Forget about business intelligence tools.

Improve communication and share information with your whole team



Collaboration is key to improve productivity. **Deyel** has collaboration tools where users interact through messages, share information, state, comments and documentation related to your business applications and each case in particular.

Deyel's corporate social messaging, carried out through private or group chats, allows, unlike others, that all communication between sender and receiver is associated with the case as part of its execution and resolution, becoming such a fundamental piece as the process information itself.

The management indicators, based on the analysis of the execution of the applications, are defined in a very easy way through the **Deyel** widget modeler and with them, you can design your dashboards in the dashboards modeler, with high visual impact, favoring the interpretation of the evolution of your business.

Define who you interact with



Who, when and how they access your application data. Participants in a process are much more than a simple user; they are the ones who give life to the business, and its success depends in part on their performance.

Deyel participants don't necessarily have to be human. Many tasks are automated through IoT technology and others are executed transparently and efficiently by bots, driving new digital experiences in a wide range of use cases.



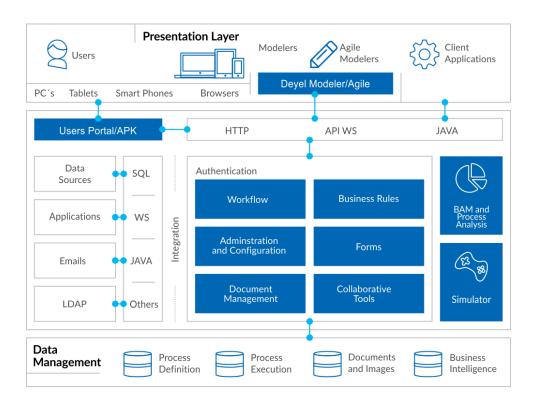
Deyel allows you to observe, through each participant, what tasks are being carried out, which ones have to be carried out and also how they are carried out, including their characteristics, behavior, performance and level of participation in company tasks.

3. User Manual

3.1. Architecture

Deyel is a product based on Java technology, developed with modern object-oriented patterns. It supports several industry standards such as HTML5, CSS3, RWD, web services, multiple database and application servers.

The following chart describes the main components of its architecture.



Graphic Modeler

Using the <u>graphic modeler</u>, business users can graphically design their processes using **BPMN 2.0** (Business Process Model and Notation) symbols in an intuitive and easy-to-use environment. Each process with its activities, interconnections, events, times, alerts, etc. can be defined and also documented. In this same workspace, aspects of processes implementation can be included, such as user



interfaces of the activities, integration with other applications, variables and business rules, among others.

User Portal

Through the <u>portal</u> of **Deyel**, users can interact with their list of activities and execute their tasks, start cases of their processes, consult them, access collaborative tools, monitoring reports, etc. The administration and configuration functionality can also be used through the portal. The portal is based on standards such as RWD, HTML5 and CSS3. They can be used on mobile devices or desktop PCs through web browsers. Its appearance is configurable according to the characteristics of each organization.

Workflow Engine

The workflow engine of **Deyel** interprets and executes the definition of business processes that are modeled in the graphic modeler. The modeler stores the graphically modeled processes within the process repository, so that the workflow engine can interpret these definitions and execute them. The execution state remains in the case execution repository.

Forms Administrator

Through this **Deyel** tool, forms that represent the user interface of human activities are generated in the modeled processes. Forms contain the process variables that are used by business rules and other related objects.

Forms have an interface rich in components (jQuery and Bootstrap), support RWD (Responsive Web Design) concept and are based on standards such as HTML5 and CSS3.

Business Rules

The behavior of processes is defined by <u>business rules</u>. Rules can be used in validations, specific business logic, process flow control, integration with other applications, etc.

Deyel offers wizards the business user that allow them to intuitively define the behavior of the rule. These wizards present the user with control structures, access to available parameters and variables, previously defined business rules, executing components, logical operators, etc. Rules persist in the object catalog of **Deyel**.

Collaborative Tools

With the <u>messenger service</u> of **Deyel**, users can communicate easily. Messages can be used among users in private, or they can be public when they are associated with cases or processes definitions. Associating them with cases provides a collaborative tool among the participants of the case, making



these messages part of the case. On the other hand, messages related to the definition of processes enable a direct communication channel to improve processes among the participants of the case and process owners. Also, subscriptions enable an option to choose to receive messages about cases or processes of interest.

Integration

Deyel provides <u>tools and services</u> that allow any application to interact in a bi-directional way with the defined processes. Making use of adapters based on Web Services, Java, JDBC and others, allows to integrate existing applications or data sources.

Deyel also has Java APIs and web services that allow any application to interact with processes through them.

BAM and Process Analysis

Deyel offers powerful capabilities for <u>analysis and browsing of multidimensional structures</u> that allow to analyze the operation of processes and their tasks, both historically (Process Analysis) and in real time (BAM - Business Activity Monitoring).

Through predefined reports, it is possible to observe and understand the operation of processes and detect possible improvements. They analyze in brief the behavior of processes and their tasks, being able to identify what was done on time, with delay, deviations against maximum and expected durations, trends, participant performance, bottlenecks, etc.

The behavioral information is displayed as a grid and through charts, always having the reference of the expected trend curves to contrast against reality. In this way, behavior can be graphically monitored. In all cases, it is possible to drill down into the information, reaching the process level, task, executor, date range, case, etc. Multiple views of the information can be generated by navigating it through multiple dimensions, such as time, priorities, participants, initiators, states of cases and tasks, among others.

Administration and Configuration

The <u>administration and configuration</u> of **Deyel** allows to define the security and authentication of process participants with their different profiles and roles, their relation with LDAP repositories, workgroups, their districts, calendars, time zones, user portal appearance and also technical aspects of the solution.

3.2. General Concepts

To develop an application with **Deyel**, a set of concepts is used to allow easy and intuitive modeling of each of its objects.



Application

A **Deyel** application is a set of processes, business entities based on forms, value lists, advanced rules, adapters, roles, permissions, dashboards, widgets and reports, related to each other with the objective of solving a specific request. These objects can be defined within the same application or shared from other applications.

From an application, platform entities such as users, the organizational structure, cases and processes, among others, may also be used.

Applications can be web applications, mobile applications or both at the same time.

Web applications can be based on the configurable design provided with **Deyel** or they can be developed with a totally free design using pages that can be modeled.

Solutions developed with **Deyel**, are applications that require use licenses issued by the solution manufacturer.

Entity

An entity is an object composed of attributes that represent business and environment data. Entities can be related to other entities, processes, rules, widgets, reports and applications.

Scope

Entities can be used in the application in which they were defined or in other applications as well.

Types

Platform

Composed of attributes where environment and execution information persists. They are predefined in **Deyel** and some of them may be extended by the modeler user. Examples: User, Organizational Unit, Case.

Parameterization

Composed of attributes with persistence of values that after being loaded may be selected through drop-down lists. They are implemented through the value list object. Examples: City, Gender, Type of Client.

Business

Composed of attributes where business information persists. They are graphically modeled using the form modeler.

Examples: Employee, Contract, Invoice.

Attribute

An attribute is the information unit within an entity.



Process

A process is a sequence of human or automatic tasks (services), the performance of which allows meeting a business objective. The sequence has a start, an end, and may contain connectors. It is represented as a process diagram based on the standard of **BPMN 2.0** (Business Process Model and Notation).

Scope

Processes can be used in the application in which they were defined or in other applications as well.

Form

A form is the user interface of business entities. It can be used in user activities of processes or in the data administration of the entity itself.

Business entities of applications can be modeled graphically by citizen developers without the need for technical knowledge. Through the form modeler, business entities of applications can be modeled as they are perceived in the real world, by dragging and dropping controls that define their appearance. Controls have properties set to default values so that citizen developers do not need to set technical properties but allows IT developers to adjust their behavior in detail. Relations among different entities can be established, whether they are business entities of the application, parameterization entities such as value lists or with other objects through integration rules.

The forms modeler together with the engine of **Deyel**, are in charge of solving the data model persistence generated by business entities of applications.

Scope

Forms can be used in the application in which they were defined or in other applications as well.

Examples

- The "Vacation Request" form is used in the "Vacation" process.
- The "Employee" form is used to update data stored in its fields during its life cycle. In addition, such form fields can be used from different processes related to it that contain user activities.

Control

A control allows to define the appearance of a form field in the user interface. In addition, controlling may add default behavior and persistence characteristics to the form field, which can be modeled later.

Through a set of controls, a pattern-based interface design guide can be defined in order to solve common situations and achieve a homogeneous interface.

Forms are created from a gallery of controls, each of them allows defining:



- The appearance of a form field in the user interface.
- The layout of fields and graphic elements within the form.
- Actions to do from the user interface.

Examples

- Text Box
- Number
- Container

Page

Pages define the UI of **Deyel** applications. Through page modeling, **Deyel** applications achieve a perfect UX.

Pages show, create, and edit application entity information and also allow users to invoke automations through business processes and rules.

Pages are made up of one or more graphic elements.

Scope

Pages can be used in the application in which they were defined or in other applications as well.

Types

• Modeled Pages

Through the page modeler, pixel-perfect user interfaces can be obtained by defining the behavior of each element at any of the proposed breakpoints.

• Built-in Pages

Built-in pages in the platform are pages that are commonly used in all applications and that are already available to be used by any application without coding.

Examples

- Login pages, registration pages
- Forgot my password
- CRUD and forms grid
- Dashboards
- Chats
- To do list
- My cases
- Calendars
- User profile

Graphic Element



Graphic elements are the graphic interface components of **Deyel** pages. There are Structure elements (section, container and layout), Essential elements (text, button, image, line) and Advanced elements (carousel, catalog, search, logged-in user, etc.).

Rule

Business rules allow to define the behavior of application objects. Rules can be used in validations, specific business logic, process flow control, integration with other applications, field display control in forms, scheduled tasks, calendars, widgets and agents, among other functionalities.

There are rules that can be modeled without programming and others are based on Java code.

Types

• Embedded Rules

Embedded rules are used to define the behavior, validations, and calculations of form fields, as well as form validations. Embedded rules allow to define logical conditions and arithmetic expressions, which are evaluated using forms and their related processes. A wizard integrated in the corresponding modelers is used for definition. This wizard is found in the property definition panels of the fields and containers of forms and of flows themselves.

Scope

Embedded rules belong only to the object that contains them.

Examples

- Define conditions in flows within a process.
- Execute automatic actions in activities of a process.
- Define requirement, visibility, edition, calculations and validations in form fields.

Advanced Rules

Advanced rules are based on Java and are used to include complex logic or integrations with other applications. They are developed using the SDK for Java of **Deyel**, both from the advanced rules modeler included in **Deyel** as in any Java IDE to be used.

Scope

Advanced rules are global for all applications.

Examples

- Execute automatic actions in activities of a process.
- Execute scheduled tasks.
- Execute business logic within the source of a widget.

Function



Software unit that performs a specific task that is executed when invoked from a programming code or from the modeling wizards. It can receive input parameters and return a result.

Value List

A value list is a set of predetermined data used to report and unify criteria when using a field. There are options that the user can drop down and select when completing the form.

Scope

Value lists can be used by the application forms in which they were defined or in other forms as well.

Examples

- Client Type
- Industry
- State

Widget

Widgets allow to know the business evolution through the use of a graphic representation, based on the execution analysis of applications. The information represented in the form of charts is obtained from application forms or by using advanced rules.

Widgets can be represented, for example, as metrics, as pie charts, column charts, horizontal bar charts, area charts or line charts, among others.

Scope

Widgets can be used in the application in which they were defined or in other applications as well.

Dashboard

A dashboard is a collection of widgets that present relevant information for the business user, with high visual impact.

Scope

Dashboards can be used in the application in which they were defined or in other applications as well.

Types

Application



They are modeled through the dashboard modeler by IT modeler users and are defined in the applications.

User

They are modeled by business users and can only be used by those who defined them since they are not part of the applications.

Adapter

An adapter allows integration with different applications and platforms by using advanced business rules. Its purpose is to exchange data and share behaviors.

An adapter encapsulates the complexity of communicating with an external component. It allows different advanced rules to use it to invoke the operations that such component exposes.

Scope

Adapters are global for all applications.

Types

•Built-in

They are adapters defined in **Deyel**, available in all environments from the modeler's grid. There can only be one of each type in each environment.

Examples

- Twitter
- Mercado Libre
- Deyel SDK
- Docusign
- GoogleDrive
- Standard

These adapters allow access to web services from external providers, in their different communication architectures, such as Rest API and SOAP.

Database

Adapters that allow to define access to relational databases through the Java JDBC protocol. **Deyel** provides custom adapters for the most popular database engines on the market, facilitating configuration and optimizing interaction with such engines.

Report

A report contains entity information that is presented with a certain layout. The report can be modeled very simple way by selecting its information and quickly designing its presentation. When modeling it, choose the fields of the entities that are part of the report and of those related entities. The order of



these fields can be modeled and by using filters, the information contained in the report can be selected.

Scope

Reports can be used in the application in which they were defined or in other applications as well.

Types

• Application

They are modeled through the report modeler by IT modeler users and are defined in the applications.

• User

They are modeled by business users and can only be used by those who defined them since they are not part of the applications.

Use of Concepts

Some considerations regarding the use of concepts described in this topic are described below.

Property

They describe in general terms applications, entities, processes, forms, attributes, rules, and functions, among other objects.

Control

The term control is used only in the modeling of the graphic interface of forms.

Field

Forms store their data in a set of fields. In the forms modeler, a form field can be defined from an attribute of another entity, in this case it is called a related attribute and it can have persistence.

Attribute

It is the smallest unit of information of an entity, it corresponds to the data model.

Variable

A variable corresponds to the attribute of a system or business entity and is used by business processes to define its state and behavior. It can contain data of the temporary conditions of the instances of the processes (cases), of the business objects or references to the latter.

Scope



- Local: It can only be accessed and modified during the execution of the process case that uses it. Variables of completed cases can be accessed but not modified.
- Global: It can be accessed and modified by the operations of the corresponding form, by the processes that use it or by business rules.

3.3. Deyel Applications

An application from **Deyel** is made up of a set of objects related to each other, with the objective of solving a determined request.

The applications can be web, mobile or both at the time.

The web applications can be based on the configurable design provided with **Deyel** or they can be developed with a totally free design using modelable pages.

Web Applications

Once the web application is published, it can be accessed from a web browser with the URL defined in the property Path from the application.

Deyel has the global application by default and the access to the <u>portal</u> from such application is done without specifying the access route.

If the global application is customized, the changes are reflected when it is published. If such publication is deleted the application is displayed again by default.

Deyel allows to model the application with the predetermined values, as well as customize the following elements:

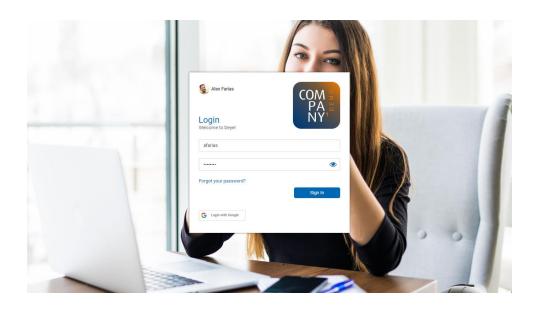
- Access page
- Layout of the application framework
- Configuration of the menu
- Selection of the Home page according to the user permissions

Access Page

In this example, the "Demo Company" application whose route access was defined as "miambiente.deyel.com/empresademo" has been modeled.

The background image and the company logo of the access page were customized.





Layout, Menu, Home Page

The layout theme and the icons displayed on the top toolbar have been customized, the context menu has been removed, and the company logo on the drop-down menu has been modified. An item has been added to the menu and others have been deleted. A page modeled in **Deyel** has been selected as the home page.



Mobile Applications

This type of applications can be accessed from mobile devices or tablets once installed by scanning their QR code.

The mobile application can be modeled with default values in its properties or they can be customized. Also, just like a web application, it can use pages modeled in **Deyel**.



For each mobile application their elements can be designed:

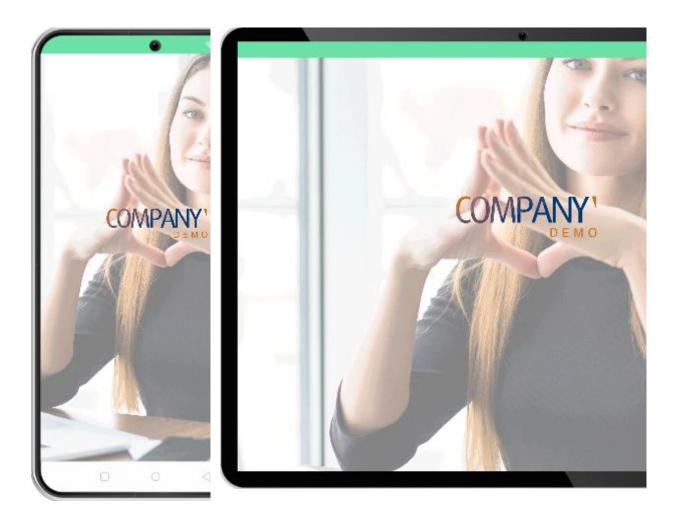
- Splash
- Login
- Home Tabs

Mobile Device and Tablet

The pages design is the same for both types of devices.

Splash

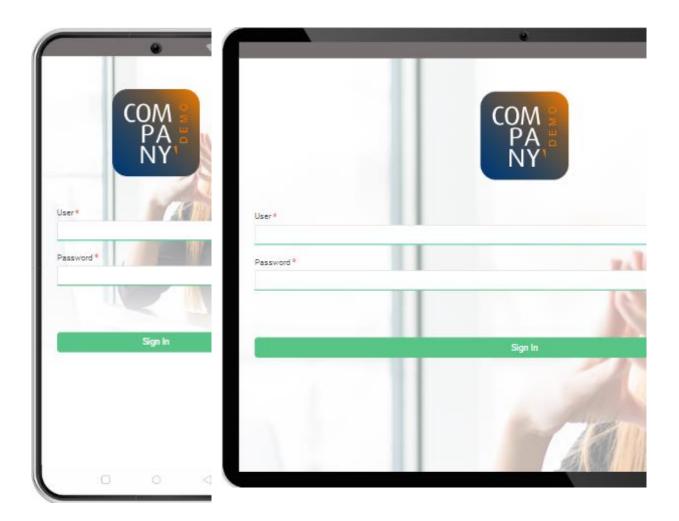
In this example the image and background color have been customized on the splash page.



Login

The text of the username and password fields, the label and the color of the button, the company logo and the background where an image was uploaded have been customized on the login page.





Home

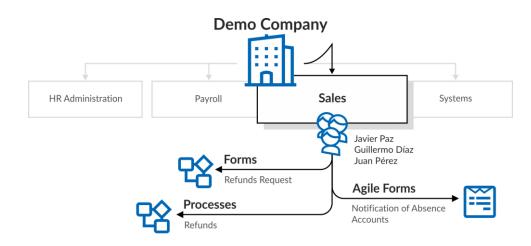
The visibility of the "Home", "Chats", "Tasks" and "Forms and Tasks" tabs have been defined on the home page. The name and icon of each tab have been customized and the background color of the context menu has been changed.



iearch	Q	6		Customer 10 Business Name~ Descripti	ion~ Employees~ Industry~ Op	Opening Date~		
ısiness Na nployees∨			cription ✓ ✓ Opening Da	Business Name	Description	Employees		
B. D	E.	L.	Opening Date	Peace		150		
Pe	15	Re	05/02/2021	Red Apple		80		
Re Ap	80	Se	07/09/2020	United Service		100		
Ur Se	10	Se	07/09/2020	American Bank		700		
Ar Ba	70	Ba	05/05/2020	Six		60		
Sit	60	Re	05/02/2021	The Stones		90		
τ.			0	Globex		60		

3.4. Examples of Use

In **Deyel**, examples are included to quickly become familiar with the tool, in order to experience how applications can be quickly and easily modeled to promote productivity in the company. For this, a demonstration company is defined with examples of agile forms, organizational units and users.





The demonstration company can be deleted, along with all related information that may have been generated during testing. These samples can also be re-imported at any time.

Agile Forms

A set of agile forms modeled after existing templates, are included in the tool. Each of the forms contains a group of suggested fields, which can be extended with new fields defined by the business user according to the needs of their company.

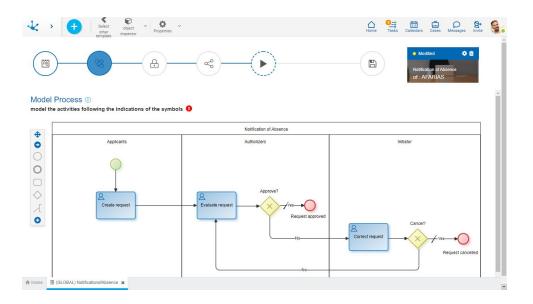
The processes associated with these forms correspond to standard <u>models</u> for common use in all organizations.

Notification of Absence

Agile form with an associated process to report absences, through which company employees can report absences from work, along with the reasons for them and request authorization from a superior. The applicant should connect to the portal and start a process to communicate to their colleagues at the same organizational unit, that they will be absent. To do this, they must complete a form to record the absence period with relevant justification and send the request to the corresponding authorizer with supporting documentation. When the absence is duly justified, with medical certification or other type of documentation, the head of the sector authorizes and ends the communication. If it is not approved, it is sent for revision to the applicant, who can resend the order or cancel it.

* > +		Home	<mark>9_:</mark> Tasks	Calendars	Cases	O Messages	8+ Invite	9
Create request								2
Absence								
ame *	Sumame *	Organizational U	nit *					
lex	Farías	System Departr	nents					
art Date * Number of days *								
eason *								
							11	
Additional Information								
pucher								





Customers

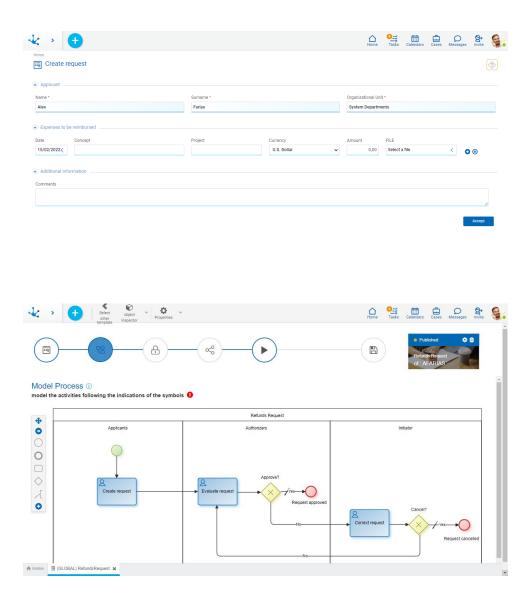
Agile form without an associated process, on which business users can perform create, show, update and delete operations, according to the permissions they have defined.

Account										?
Account										
go	Business Name *		Entrepreneur	Group			Identification		Condition	
									Active	~
	Owner *		Industry *		Origin		Opening Date		Annual Earnir	igs
			Banks	~	Campaign	~		<		
	Type *		Business Partner				Employees		Valorization	
	Prospect	~								
G	Description									
	Owner Status	Id Account								
	Activa	~								
Emails		 Sites and Soc 	ial Networks			 Phones 				
fail	Туре	Website		Net	~	NUMBER		T)	rpe	~
	Type Personal V			Facebook	~ 8				Personal	~ 8

Refunds Request

Agile form with an associated process to request expense refunds, through which company employees can complete a request form itemizing expenses with their corresponding amounts and attach their receipts. The request is sent to the corresponding authorizer to approve it or return it to the applicant for revision, who can resend the order or cancel it.

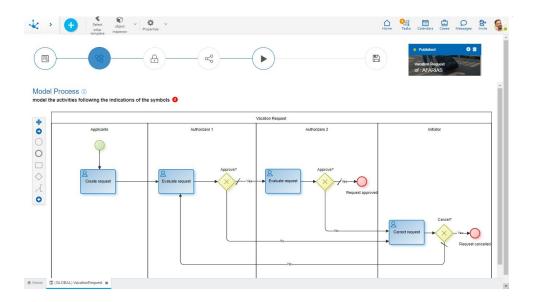




Vacation Request

Agile form with an associated process, through which company employees can manage their vacations. To do this, they have to complete a form with the start date and the end date and send it to the authorizer. Next, the personnel administration and payroll sector performs the corresponding controls and procedures. As sectors authorize requests, they progress to their full approval. If any request is not approved, it is sent to the applicant for revision, to be corrected and resent for authorization or to be canceled.

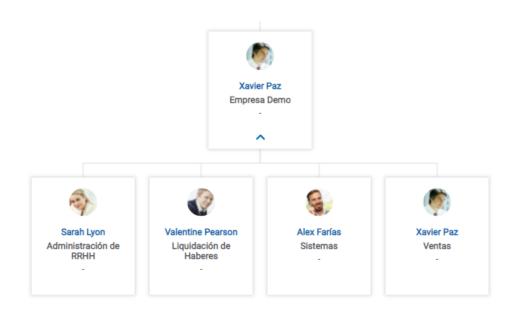




Organizational Structure

The demonstration company defined with data and form examples with their associated processes is called "Demo Company". In the organizational structure there are <u>organizational units</u> defined that correspond to company offices, which group business users.





The Demo Company can be deleted by a user with administrator permissions. Confirming this operation deletes the following data:

- The Demo Company organizational unit and all its subordinate units.

- Users Javier Paz, Juan Perez, Sandra Lopez, Valentin Pereira, Guillermo Diaz and Alejando Farias, who belong to the organizational unit.

- Vacation Request, Refund Request and Notification of Absence agile forms.

Users

The <u>users</u> defined in the demonstration company belong to different organizational units and are assigned permissions according to their position. All users use "deyel123" password to log in.

User	Organizational Unit	Permission
SLOPEZ - Sandra López	HR Administration	DEYEL- End User
VPEREIRA - Valentin Pereira	Payroll	DEYEL- End User
AFARIAS - Alejandro Farías	Systems	DEYEL - Administrator DEYEL - Security Administrator DEYEL - Deyel Modeler
GDIAZ - Guillermo Diaz	Sales	CRM - Salesperson
JPAZ - Javier Paz	Sales	DEYEL - Agile Modeler CRM - Sales Manager
JPEREZ - Juan Perez	Sales	DEYEL- End User CRM - Salesperson



3.5. Users Portal

Phase 3: Portal

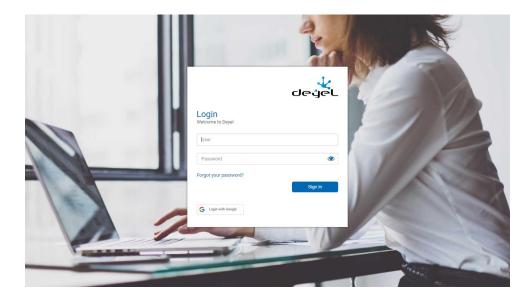
Using the portal of **Deyel**, the users can show their activities list and execute their tasks, initiate cases of their processes and show them, access collaborative tools, use their forms and set the environment, among other functionalities.

The user interface is based on the concept "model once, execute everywhere" allowing the applications implemented in **Deyel** can be executed indistinctly from any type of device, including PC workstations, notebooks, tablets and smartphones. Is has been designed based on "responsive web design", dynamically adapting to the device used to access the portal. Being able to use forms and execute business processes using mobile technologies, enables a new generation of applications, where users can connect at any time and from anywhere, executing and consulting their tasks, with the same familiarity available in the tools of habitual use.

Using standards such as HTML5 and style sheets, a modern interface is obtained and rich in functionality, which adapts and greatly increases the function of use in the different types of devices, taking advantage of the advantages of each one, such as cameras, gps, etc.

3.5.1. Portal Access

In order to access the portal, you must enter the username and password, you can use both the username and the email address, if the email address is defined as an alias.



It can be accessed from mobile devices, desktop PCs or notebooks, adapting the login window to each of them.



Deyel ensures the correct identification of the user and controls that they have authorization to use the selected product.

In case of not remembering the password, the user can select the option Forgot your Password? to establish a new one.

Through the icon to the right of the password field, it can be displayed.

- Allows to display the password.
- Allows to hide the password.

When a user is correctly authenticated and enters the portal from a certain device, their profile image is remembered in the access window. In this way, the next time the user enters the portal from the same device, their image will be visible and by selecting it, the user is completed, only having to enter the password.

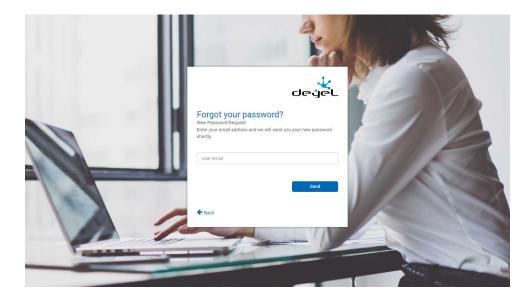
If the user comes from **Deyel** without closing session, it is protected. Therefore, the next time you enter the portal, you will do so directly with the same user without the need to re-authenticate.

Session Closed Due to Inactivity

If a period of inactivity is exceeded during the work session, such session closes automatically. If an operation is attempted on a session that was closed, the user is sent to the login.

Forgot your Password?

When selecting the "Forgot your Password?" option in the portal access, a user can request a new key and is asked to enter the email address registered in their profile. Once the user is identified, a new password is sent by email to the informed account.



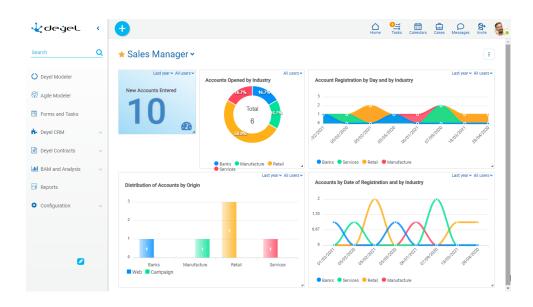


It is only available when using the <u>native authentication</u>, where **Deyel** manages access passwords.

3.5.2. Menu

Phase 3: Portal > Menus

The menu can be displayed from the top left corner and is represented by the icon , when selecting it, the options that the user has enabled are displayed.



The theme used by the user portal can be defined in the <u>environment configuration</u>.

Principal Characteristics

Deyel Modeler

Allows to model the applications and objects that make it up.

Agile Modeler

Allows to model applications based on <u>agile forms</u> immediately.

Forms and Tasks

Allows to display the gallery of forms and tasks from where operations can be made for each element.



Searcher

Allows to search among all the options available in the menu, forms and functionalities enabled for the user. When entering a search criteria, such as a word or part of it, a filter is applied with the search pattern used. Once the search results have been obtained, the desired option can be selected. The search criteria can be deleted by pressing the "X" that is to the left of it and it returns to the complete menu.

Solutions

The menu includes options for those solutions that the user has access to.

BAM (Business Activity Monitoring) and Analysis

This menu option allows access to the set of reports of <u>BAM and Analysis</u> to analyze the functioning of the processes and their tasks.

- In real time (BAM)
- Historical (Analysis)

Configuration

Under this menu option the user can select the <u>configuration</u> of users permissions, organizational units and of the environment, among other functionalities.



Allows to personalize the solution incorporing an image. For a better display, it is recommended an image 200 pixels wide at most. To add or to delete it, the user must click on the pencil icon and a menu with the available options is displayed.

Entry

- Selecting the "Upload" option opens a window with the user's local files.
- The file that contains the desired image to incorporate into the bar must be selected.

Deletion

The "Delete" option must be selected.

3.5.3. Top Toolbar

Phase 3: Portal > Top bar

Contains the icons corresponding to the principal functionalities of **Deyel**. Allows quick access to them by clicking on the icons.



tasks ~	10 🗮 🗑 🖸				Search	Q T
Case	Process	Description	Activity	Home	Responsible User	Expiration Da Priority
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0 50	Consolidated Weekly Reimbursements	(MyApp) Consolidated Weekly Reimbursements v1 - Check Consolidated	Check Consolidated	26/10/2021 16:06) Alex Farias	4
9 49	Consolidated Weekly Reimbursements	(MyApp) Consolidated Weekly Reimbursements v1 - Check Consolidated	Check Consolidated	19/10/2021 16:06	🌒 Alex Farías	4
0 36	Refund with possible payment suspension	(MyApp) Refund with possible payment suspension v1 - Evaluate request	Evaluate request	18/10/2021 14:49	🌒 Alex Farías	1
_ 0 39	Refund of reported pending expenses	(MyApp) Refund of reported pending expenses v1 - Correct request	Correct request	18/10/2021 14:49	🌒 Alex Farías	1
0 25	Refunds with Budget Control	(Global) Refunds with Budget Control v1 - Evaluate application	Evaluate application	18/10/2021 14:49	🌒 Alex Farías	1
D 18	Refund of reported pending expenses	(MyApp) Refund of reported pending expenses v1 - Check availability	Check availability	18/10/2021 14:49	🌒 Alex Farías	1
0 26	Refunds with Budget Control	(Global) Refunds with Budget Control v1 - Evaluate application	Evaluate application	18/10/2021 14:49	🌒 Alex Farias	1
0 35	Refund with possible payment suspension	(MyApp) Refund with possible payment suspension v1 - Correct request	Correct request	18/10/2021 14:48	🌒 Alex Farías	1
0 37	Refund with possible payment suspension	(MyApp) Refund with possible payment suspension v1 - Correct request	Correct request	18/10/2021 14:48	Alex Farías	1

Bar Elements



It allows to create a new instance of the forms or starting a new case of the processes, to which the user has access. By clicking on the icon or hovering over it, a <u>context menu</u> is displayed.



Deyel allows to personalize the solution incorporating the company logo. For a better display, it is recommended an image up to 40 pixels high. To add or to delete the logo, the user must click on the pencil icon and a menu with the available options is displayed.

Entry

- Selecting the "Upload" option opens a window with the user's local files.
- The file that contains the desired image to incorporate into the bar must be selected.

Deletion

The "Delete" option must be selected.

🛆 Home

Positions the user in the initial panel of the solution in which he was authenticated, closing the menu option currently open.





Show the total number of tasks that the user has pending execution. Clicking on this icon the list of the last three tasks assigned to the user and the corresponding action buttons available are displayed. At the end of the list it is displayed a link of <u>all my tasks</u> to access the tasks grid of the user.

ⁱ Calendars

It is used to show and manage the <u>Calendars</u> available for the user.



It is used to access the cases initiated by the user themselves. If the user is a coordinator, they also display the cases initiated by the members of their team.

Messages

It is used to exchange messages and participate in conversations related to tasks, accessing the resources and benefits provided by the <u>Tedis business social networking</u>.

😫 Invite

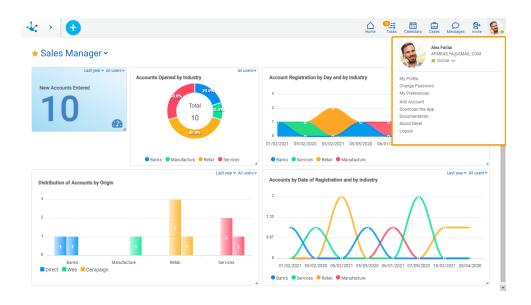
Allows to make invitations to external users so that they can join in using the environment.



It is used to quickly display a summary of the user data:

- Name
- Email
- State for the messenger service





The following options are also enabled:

My Profile

This option allows to manage the user profile data.

Change Password

Allows the user to <u>change their password</u>. This option is only available when the authentication method of the users include the <u>Native Authentication</u>, where the key words are verified by **Deyel**.

My Preferences

Allows the user to easily define the values of a set of properties. Each of these properties can also be modified in the <u>environment configuration</u>.

Add Account

Allows to open portal sessions in new tabs of the browser with the same or different users. This option is enabled by modeling the configurable property <u>Allow multiple user sessions with the same browser</u>.

Start Tour

Allows to use a <u>quide for first steps</u> in **Deyel**, being able to select different options:

- To watch an introductory video
- To model a form
- To ask doubts through the Deyel Bot
- To access the training phases online

This option is enabled by modeling the configurable property Show tour modal, within the user preferences.

Download App

Allows to download the Deyel App in iOS and Android devices. This download can be made manually or by scanning a QR code.

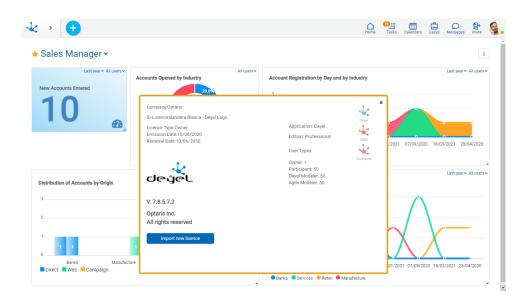
Documentation

It has the reference to the user manual of **Deyel**.

About Deyel



Information related to the environment and the licensing of the solutions in use is displayed.



Logout

Logs the user out and returns to the login window of <u>portal access</u>, for a new login. If a user is logged in with <u>IDM federated authentication</u> and the property <u>Logout URL</u> of the adapter is defined, the user is redirected to the indicated URL to close that session.

3.5.3.1. Context Menu

The context menu is a dynamic menu, where the options depend on the functionality in use and the permissions of the logged in user. It allows to rapidly open available menu options, in pop-up form or with icons.

Icons Menu

This menu is enabled when hovering over the icon $\stackrel{\bullet}{\underbrace{}}$ and the icons that represent forms and processes corresponding to the functionality in use are enabled over the toolbar.

Pressing on any of the displayed icons you access the option to add a corresponding form instance or initiate a process case.

Example

On the next example the forms and processes available are displayed to the user, of the solution **Deyel CRM**. From the show of a selected instance of the Account form, the context menu of the icons allows to initiate the different forms and processes associated to the Account: Contact, Opportunity, Budget and Action.



k > 🕂 🛈 🤇							Home	Tasks Calen	dars C	ases Messages	8+
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Account											
Logo	Business Name *			Entrepreneur Gro	qu			Identification		Status	
	ACME Corp			ACME				30-0000000-1		Activa	~
	Owner *			Industry •		Origin		Fecha Apertura		Annual Earnings	
DOME	Guillermo Díaz		<	Seguros	~	Campaña	~	29/10/2018	<	5.000.	00,00
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CORPORATION	Prospect	~	Type you	r search			<		150		70
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info@acmecorp.com	Type*	web site			Net	- 8	Number			Туре	8
Addresses		City					State				
Country		Туре									
				× 08							

Expanded Menu

This menu is enabled by pressing the icon , expanding a panel with the sections:

- Forms and processes related to the functionality in use, in light blue color.
- Forms and processes more used by the user, in grey color.

In both cases, pressing an option, it enables the functionality to add information to the form or the process selected.

The icon \mathbf{Q} allows to make the search action on the available options.

Example

On the next example the forms and processes available are displayed to the user, of the solution **Deyel CRM**. From the show of a selected instance of the Account form, the context menu expanded allows to initiate the different forms and processes associated to the Account: Contact, Opportunity, Budget and Action, or any of the objects that has been used more often.



√ → ⊕		Q					Home	Tasks Cale	ndars C	ases Message	es Invite
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ACCOUNT ACME Corp	Contact								l	12	?
 Account 	Opportunity										
Logo	Budget			Entrepreneur Group	_			Identification		Status	
Logo	Nota de Venta			ACME	,			30-00000000-1		Activa	~
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Address		City					State				
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3.5.3.2. Change Password

By selecting the option to change the password from the user profile icon, a panel is enabled to enter the new password with the characteristics and conditions requested.

Forms and Tasks Actual Password Type your current password Type your new	√ ∠ → (+)			Home	O Tasks	Calendars C	ases Messag	ges Invite	.
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		Type your current password	۲	×					
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Contain one or more upper case Contain one or more lower case Contain one or more digits, non-consecutives Confirm your new password Retype your new password Cancel Accorpt	Purchase Request	Contain one or more special character (@,#,\$,%,^&,+,=)			uest				
Contain one or more digits, non-consecutives Confirm your new password Retype your new password Cancel Accept		Contain one or more uppercase							
Confirm your new password Retype your new password Cancel Accept									
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Cancel Accept		Confirm your new password							
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i Vacation Request v.1 i Vacation Requests									
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As the characteristics and conditions of the new password are fulfilled, the icon \checkmark is displayed on each line.



Forms and Tasks			×		Ł
	Actual Password				9
		٢	-		
	New Password			1. Sec.	
		۲	-	CD	
APRIL C	Your new password must have the following characteristics:			SR	
	Have between 8 and 20 characters				
	And meet at least 3 of the following conditions:				
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Purchase Request	 Contain one or more uppercase 			luest	
	Contain one or more lower case				
	 Contain one or more digits, non-consecutives 				
	Confirm your new password				
		۲	1		
	Car	ncel Acc	cept		
31					

3.5.3.3. Invitation to Users

Allows external users to join in using the environment.

The invitation can be made depending on the security permissions defined for the logged-in user.

It is available for **Deyel** environments that use native, LDPA, federated or mixed <u>authentication</u> methods. When custom authentication is the only method used, inviting users is not available.

√ ∠ → (+)		Home Oracity	Calendars Cases Messages Invite
🕇 Sales Manager 🖌	New User Invitation	×	:
Last year - All users	From *	Invitation Guide Enter the email addresses of all coworkers you want to	Last year 🗸 All users 🗸
10	Subject * Alex Farias invites you to Deyel.	invite to Deyel. It is also possible to paste a list of email addresses. The guests will have your same access.	
	Hello! I invite you to share this experience.	same access. If you prefer, you can customize Licenses, OU, Permissions and Roles 🌣	07/09/2020 18/03/2021 28/04/2020
Distribution of Accounts by Origin	To accept this invitation, you just have to follow these directions. After accepting you will have access to participate in Deyel. Thanks!		u Last year ∽ All users ∽
3			\wedge
2	Send		
0 Banks Man	Harma, uatani Sakuras		
Direct Web Campaign	ectore netali Services 01/02/2021 05/02/2	2020 05/02/2021 05/05/2020 06/01/2021 Retail Manufacture	07/09/2020 18/03/2021 28/04/2020

Steps to Make Invitations

In the right part of the window, a panel is displayed with a step guide so that the user can make the invitations.

Step 1: Indicate email addresses



Email addresses of user guests must be entered, they must be valid, belong to authorized domains and not correspond to existing users in the environment.

If the LDAP authentication method is used, verify if there is a user in that directory whose email address is the one reported. If so, the invitation is accepted.

The subject and the body of the message contain default texts and the user can customize them.

Sales Manager •	New User Invitation		×
Lastyeer A Pusers	From * guest@gmail.com Subject * Alex Farias invites you to Deyel.	Invitation Guide Enter the email addresses of all covorkers you want to minit to Deyel. It is also possible to paste a list of email addresses. The guests will have your same access. If you prefer, you can permissions and Robes 0	Last year + Al users +
Distribution of Accounts by Origin	To accept this invitation, you just have to follow these directions. After accepting you will have access to participate in Deyel.	Permissions and Holes ¥	27709/2020 18/03/2021 28/04/2020
2 1 1 1 1 1 1 1 1 1 Banks Manu Banks Manu		send	2021 07/09/2020 18/03/2021 28/04/2020

An asterisk "*" on the label indicates that the field is required.

Step 2: Customize licenses, organizational units, permissions, and roles

By default, the guest user is set to have the same product licenses, organizational units, permissions, and roles as the inviting user. However, when making the invitation, these definitions can be changed by pressing the option indicated in the side panel.

• Organizational Unit

Allows to select the organizational unit of their own or any unit dependent on it.

• Product Licenses

Allows to use the same user <u>license</u> that the inviting user has or change it for another type of license of lower hierarchy. For example, if the inviting user is a Deyel modeler, new modeling users or participating users can be invited whereas, if the inviting user is a participant, only new participating users can be added.

Access Permissions

Allows to select access <u>permissions</u> for a guest user. They can be all or some of the permissions of the user that is making the invitation.

• Roles

Allows to select <u>roles</u> for the guest user which can be all or some of those integrated by the inviting user.



• • •			Home Tasks	Calendars Ca	sses Messag	es Invite
Sales Manager •	New User Invitation Licenses, UO, Permissions and Roles		×		Last us	:
	Organizational Unit ★		Customization		Cast yet	
New Accounts Entered	System Departments	×	All your guests will be part of your Organizational Unit, they			
10	Product Licenses 🖈		will have the same Product Licenses and will have the same Permissions.			
IU a	Deyel - Owner X Contracts - Administrator X	×	If you prefer, you can change the Organizational Unit, remove or reduce any of the			
	Permissions 🖈		Licenses, as well as assign it fewer Permissions than you	0	<u> </u>	-
	Deyel - Administrador × Deyel - Administrador de Seguridad ×		have. In addition, you can add	07/09/2020	18/03/2021	28/04/2020
	Deyel - Modelador Deyel × MyApp - Acceso Total ×	×	them to some of the Roles of which you are part.			
Distribution of Accounts by Origin	Roles		Work done you can go back to the start and send the invitation		Last yea	ir ♥ All users ♥
3	Global - Purchase Request - Total access ×	×	Invitation			
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Pressing the "Back" button returns to the initial panel of the invitation.

Step 3: Send invitations

Once the invitation has been made, when the "Send" button is clicked, a notification email with the following information reaches the user guest:

- Text customized by the user that sent the invitation.
- Indications and link to accept the invitation.
- Message footer, with the signature of the inviting user.

When the guest user receives this email, they have to follow the instructions to access the acceptance panel, where they should complete their personal data and access key. This activates their account and the guest user can access the portal.

The user that sent the invitation receives a notification through <u>Tedis</u> business social network once the guest user has accepted or rejected it.

List of Invitations

A user can see from his <u>profile</u> the invitations they have sent and also delete them if they have not yet been accepted.



Alex Farias USETS Alex Farias		Home	Taska Calendars Cases Messages In	8+ nvite
itations 3 2			T	¥
Guest email	Subject	Date and Time	State	
tm@gmail.com	Alex Farias te invita a Deyel.	19/04/2022 11:57	Pending	
avs@gmail.com	Alex Farias te invita a Deyel.	19/04/2022 11:57	Pending	
:md@gmail.com	Alex Farias te invita a Deyel.	19/04/2022 11:57	Pending	

The following fields are displayed as grid columns:

- Guest user email
- Sent email subject
- Invitation date and time
- Invitation State

3.5.4. Breadcrumb

This facility improves the user experience by indicating in summary form the steps previously executed, granting at the same time speed and intuition in the use of **Deyel**. It is immediately located below the top toolbar and indicates the route of the navigation made, allowing you to go back to any of the functionalities executed.

↓ → +			Home	O Tasks	Calendars	Cases	Q Messages	8+ Invite	۹.
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Select a file <									
					I	Approve	:	Correct	

The image shows that you can navigate from "Forms and Tasks", until you reach the case of the "Absence Communication" process for the selected user and date.



3.5.5. Dashboard



Phase 3: Portal > Dashboards and Widgets

A dashboard is a collection of graphically ordered widgets that present relevant information for the user, with high visual impact.

Widgets are also known as KPIs, that correspond to the initials of Key Performance Indicator. They allow to know the evolution of the business, based on the analysis of the execution of the applications.

Dashboards can be:

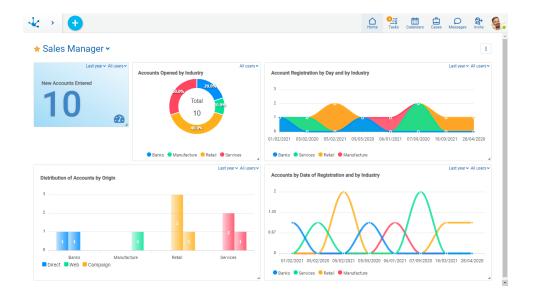
• Of Applications

They are modeled through the dashboard modeler, by IT modeler users.

• Of users

All users can model their own dashboards.

When logging in or selecting the home icon in the top toolbar, the user views the dashboard indicated as a favorite. Each user can select their favorite dashboard among those applications and **Deyel** solutions, on which you have permissions.



If the user does not have permissions to use any dashboards, the starting point is the gallery of <u>forms and tasks</u>.

The user can create their dashboards from the <u>context menu</u> ¹, positioned on the home panel.

- From the icon 🙂 displayed when hovering over the context menu.
- From the drop down menu, using "Dashboard" option.



The user can perform operations on the dashboards that are available to them through different \underline{use} facilities.

3.5.5.1. Use Facilities

A user dashboard presents visual and chart resources that facilitate its maintenance.

New Accounts Entered	Has unsaved changed
Accounts Opened by Industry A New Accounts Entered	
30.0%	3
	Banks Services Retail Manufacture
Last year v All users v Distribution of Accounts by Origin A	Last year All users Accounts by Date of Registration and by Industry
3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 5 6 6 6 6 6 6 6 6 6 6 6 6 6	

Sections

Favorite Widget

Indicates the dashboard has been selected as favorite for the user.
Pressing the icon I to the left of the dashboard name, the user can indicate that the dashboard is their favorite.

Dashboard Menu

To the right of the current dashboard name, a list can be displayed with all the boards that the user has available, they can be <u>application dashboards or defined by the user</u>.

Information Area

Has unsaved changes 🔒

When the dashboard has a modification pending to save, this button is enabled to save the changes.

Operations Submenu

Allows to make different operations



•Add Widget

Allows to add new widgets to the dashboard, from a palette with the widgets that the user has available. To add a widget, you must drag the widget you want to add until it is in the desired position.

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•Save as

Save dashboard with other name. This new dashboard is user type.

• Delete Dashboard

This operation is only allowed for a user dashboard.

Dashboard Body

In this section the previously published widgets that the dashboard contains are located. On these widgets, the user can make different operations.

• Modify size

It is made by positioning the cursor on the lower right corner of the widget and dragging it to expand or decrease the area of the widget, up to the minimum allowed.

Modify location

Through the facility "Drag and Drop" the widget is located in a new position within the dashboard panel.

• Modify user and date filters

If the user is assigned the modification permission for the dashboard, they can modify the filters that were defined as editable and visible when modeling. Changes must be saved to retain the modification.

• Delete

A widget can be deleted by pressing the icon \times displayed in the top right corner, when you slide the cursor over the widget.

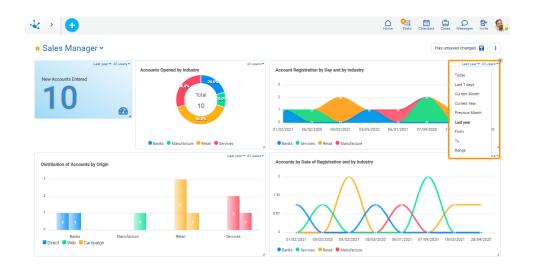


After making the modifications, when saving the dashboard the result may be different depending on the type of dashboard being modified.

- If it is a user, the changes made to the dashboard are saved.
- If it is application, the user cannot save the changes made to the dashboard and a panel opens for the user to report the name of a new dashboard. This dashboard is saved as user type.

Widget Filters

On each widget is dynamically applied the <u>date filters and user filters</u> that it has modeled.



Drill Down

By clicking on each value in the charts you can show the <u>grid</u> of the form that the widget represents, filtered by such value.

3.5.6. Forms and Tasks

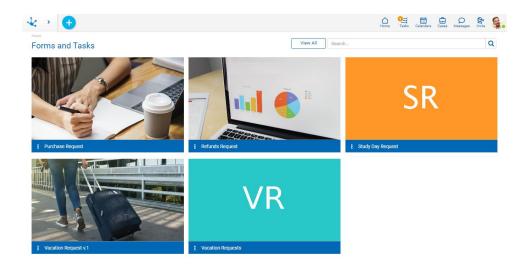
It the user does not have a predetermined <u>dashboard</u> defined, when logging in the user displays the gallery of forms and tasks. Each element represents a form or an agile form and allows to make operations through buttons.

- On the form instances, with a quick overview of their latest updates.
- On the processes case related to a form, with a quick overview of their last tasks.

By default, a maximum of 9 elements are displayed, which are called "Recent", since they are the last ones used by the user.

Pressing the "View All" button displays all the forms and tasks.





Elements Content

Each element of the gallery is identified with the name of the form or agile form previously modeled. The content of each element and the actions that can be made depend on whether the form or agile form has a related process.

Last Updates

It has the last three instances created or modified of the form. By hovering the cursor over each one of them, the buttons corresponding to the show, modify and delete operations are enabled, provided that the user has the corresponding permissions.

At the bottom of the list, the "All Forms" option allows to open the results and search grid of the form.

It is displayed to:

- A form without a related process, or with one or more related processes and none of them is a main form. For the latter, you should not have modeled the property <u>Main</u> in the form for any of the processes related.
- An agile form without a process related.

Each update line contains:

- The text defined in the property <u>Description</u> of the form.
- The creation date and the date of the last instance modification.

Last Tasks



It contains the last tasks that the logged in user has pending to execute, in any of the processes in which the form is related and is defined as the main form. By hovering the cursor over each one of them, the execution buttons and the access icon to the chat of the case are enabled.

At the end of the list, the "All my tasks" option allows direct access to the "My Tasks" option from the actions menu of the same item.

It is displayed to:

- A form with one or more processes related, if it is the main form in any of them, that is, if it has the property <u>Main</u> modeled in the form.
- An agile form with a process related.

Each task row contains:

- The name of the task, preceded by the name and version of the process in which it is found.
- Date of admission and due date of the task.

Actions Menu

It is enabled when hovering over the icon and depending on the permissions the user has, they have the following options enabled:

New

If the element contains the latest updates, it allows creating a form instance, whereas if the element contains the latest tasks, it allows starting a new case. If the form is related to more than one process as the main form, the list of processes is expanded so that the user can select the one to start.

My Tasks

Opens the tasks that are under the responsibility of the logged in user and that correspond to the process or processes in which the related form is defined as the main one.

Search

Opens the results and search grid of the form.

Form Icon

The icon modeled in the <u>lcon</u> property is visualized.

Search Filters

The number of items in the gallery can be reduced by using a search filter applied to the name of the form. As the user enters characters in the search field, the number of items in the grid is reduced to those forms whose names contain the entered characters.

The search is made on every existing element even if only the recent ones are being displayed.

3.5.7. Tasks



It allows to visualize in grid form all the tasks that are pending execution and are assigned to the user or their team. The latter, if the user is responsible for an organizational unit or role.

By pressing the icon corresponding to tasks in the <u>top toolbar</u> a panel opens where the last three tasks pending execution are displayed and the link "All my tasks" can be selected. This way they are visualized in grid form all the tasks that are pending execution and are assigned to the user or their team.

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Sections

- <u>Top Bar</u>
- Grid



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3.5.7.1. Top Bar

From the top bar different options related to the content and presentation of the task grid can be selected.

My Tasks ~ My Tasks or my Team Tasks

Allows to select the tasks according to its execution responsibility.

- My Tasks: To-do list for user execution.
- My Team Tasks: This option can be used by those responsible for organizational units or roles to display the tasks that the users under their charge have pending execution. If the organizational unit had other units as dependents, the team tasks only reach those of the users who report directly to the responsible user.

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⁶ Number of Tasks

Indicates the number of tasks pending execution by the user or their team, either total or from applying a <u>search filter</u>.

Totals by Responsibility or Totals by Processes

If the "My Tasks" option was previously selected, by pressing this icon the user can access the control panel of <u>totals by responsibility</u> or of <u>totals by process</u>, according to the option selected in the first line of the totals panel.

If instead the option "My Team Tasks" was selected only the panel of totals by responsibility will be accessed.

If this icon is pressed with the totals panel open, it closes and the task grid is reloaded.

The totals panel can be expanded or hidden using the corresponding icons \checkmark or \uparrow .



Grid Version

Allows to change the previous version or go back to the new one.

🔁 Update Grid

Allows to reload the updated grid, keeping the selected filters.



Allows to filter tasks by the "Case" and "Description" columns based on the characters entered in the search field.

Advanced Search

Advanced search enables a line where the search filters can be selected.



📥 Download Data

It allows downloading to an Excel file the tasks that are displayed in the results grid, either in their entirety or those that result from applying a filter.

Columns Display

It displays a panel with the names of the grid columns. By means of a check mark, the user can activate or deactivate the display of each column. The set of selected columns is valid until the same user modifies it again.

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Case	Process	Description	Activity	Start Date	Responsible User E	Case
07	Refunds Request	(Global) Refunds Request v1 - Evaluate request	Evaluate request	07/03/2022 13:30	🌒 Alex Farías	 Description Activity
© 16	Refunds Request	(Global) Refunds Request v1 - Evaluate request	Evaluate request	04/03/2022 17:04	😜 Alex Farías	Start Date Responsible User
O 13	Refunds Request	(Global) Refunds Request v1 - Evaluate request	Evaluate request	04/03/2022 17:03	🌒 Alex Farías	Expiration DatePriority
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○ 49	Consolidated Weekly Reimbursements	(MyApp) Consolidated Weekly Reimbursements v1 - Check Consolidated	Check Consolidated	19/10/2021 16:06	😜 Alex Farías	1
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© 25	Refunds with Budget Control	(Global) Refunds with Budget Control v1 - Evaluate application	Evaluate application	18/10/2021 14:49	🌒 Alex Farías	4
© 18	Refund of reported pending expenses	(MyApp) Refund of reported pending expenses v1 - Check availability	Check availability	18/10/2021 14:49	🌒 Alex Farías	4
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3.5.7.1.1. Totals

The totals section of the tasks can be expanded on the tasks grid.

Totals by Responsibility

Shows the totals of the tasks pending execution for the user or the members of their team, depending on whether the user is responsible for an organizational unit or a role. Tasks are displayed grouped by responsibility and by the priority of each of them.

Pressing on the number of tasks indicated for each responsibility and priority, the tasks grid filtered by these criteria can be displayed.



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Alex Farias		0	0	0	12	12
David Cano		0	0	0	1	1
Xavier Paz		0	0	0	2	2
Jack Perry		0	0	0	2	2
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Case	Process	Description	Activity	Start Date	Responsible User	Expiration Da Priority
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07	Refunds Request	(Global) Refunds Request v1 - Evaluate request	Evaluate request	07/03/2022 13:30	🌒 Alex Farias	4
0 16	Refunds Request	(Global) Refunds Request v1 - Evaluate request	Evaluate request	04/03/2022 17:04	🌒 Alex Farías	4
				04/03/2022	• • • •	

Totals by Process

Shows the totals of the tasks pending execution for the user, grouped by process and priority of cases.

Pressing on the number of tasks indicated for each process and priority, the tasks grid filtered by these criteria can be displayed.

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otals		0	0	0	2		
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Case	Process	Description	Activity	Start Date	Responsible User	Expiration Da Prio	rity
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28	Request for Contracting Services	(MyApp) Request for Contracting Services v1 - Establish schedule	Establish schedule	07/03/2022 13:31	्रि Xavier Paz	ı	

3.5.7.1.2. Search Filters

By selecting the advanced search icon, a line is enabled where different criteria to filter the tasks can be selected. The search criteria can be combined.



Tasks ~					Search	۹ 🕇 🛓
Process∨ De	scription♥ Activity♥ Start D	ate Responsible User Expiration Date Priority: Low X	Alert~			
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For each search criteria a value can be entered or selected from a list, to use it as a filter.

All the filters that are necessary can be added, each time one is added a new search is automatically executed that updates the task grid.

The filters applied in the search are highlighted where they were entered, each followed by an \times icon. By pressing such icon the corresponding filter is deleted and a new search that updated the task grid is automatically executed.

To remove all search filters, the icon \bigotimes must be pressed, which is located on the right of the last filter. This way the complete list of tasks is loaded again in the grid.

Filters

Case

The value entered should be numeric. Search criteria: "Greater than", "Less Equal to".

Process, Description, Activity and Responsible User

A text by which the user wants to search can be entered. Search criteria: "Contains".

Start Date, Expiration Date

Activities that started their execution, or that expired in a certain period of time can be searched. Options:

- Today
- Last 7 days
- Current Month
- Current Year
- Last Month
- Last Year
- From (Requires selection of a start date)
- To (Requires selection of an end date)



- Range (Requires the selection of a start date and an end date)
- Equal (Requires selection of a date)

Priority

Allows to filter selecting the icons corresponding to the priority type, allowing to choose multiple options.

Search criteria: "Included".

Options:

- Urgent
- High
- Medium
- Low

Alert

Allows to filter selecting the icons corresponding to the alert type, allowing to choose multiple options. The alert type depends on what has been modeled on the property <u>Activity Duration</u> for each task. The color of this icon matches with the color of the value in the column Expiration Date of this grid. Search criteria: "Included".

Options:

- Expired
- To expire in the short term
- To expire in the long term
- Not defined

3.5.7.2. Grid

The tasks grid allows to display the totality of the tasks pending execution or those that are the result of having applied <u>search filters</u>. It is made up of columns and lines.

Columns

The tasks grid allows to display different columns and hovering over the name of each of them their <u>behavior</u> can be indicated.

The columns seen in the grid and the number of lines are configured through <u>environment parameters</u>.

The screen resolution determines the display of the columns. At lower resolutions some columns are hidden in order to maintain an easy-to-read and easy-to-use task grid.



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Case	Process	Description	Activity	Start Date	Responsible User	Expiration D Priority
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O 18	Refund of reported pending expenses	(MyApp) Refund of reported pending expenses v1 - Check availability	Check availability	18/10/2021 14:49	😫 Alex Farías	

Chat

An icon is displayed depending on whether or not the case has an associated chat. Clicking on the icon opens the conversation associated to the case.

0

The case does not have a chat associated.

The case has at least one chat associated.

Case

The number of the case that the task belongs to.

Process

Name of the process the task belongs to.

Description

Brief description of the case, modeled in the property <u>Case Description</u> of the process. If such description is not modeled, the process code, its version and the name of the current activity are displayed.

Activity

It is the name of the modeled activity in the process.

Start Date

It indicates the date and time the activity started.

Responsible User

The responsibility of a task may be assigned to a user, a role or an organizational unit.

- When the task is the direct responsibility of the user, the image of the user and his full name are displayed.
- When the task is the responsibility of the organizational unit to which the user belongs, the icon of the organizational unit and its name are displayed.
- When the task is the responsibility of a role assigned to the user, the icon of the role and its description are displayed.
- When the task is the responsibility of another user but it has been delegated to the person who is consulting, the image of the user and full name of the delegating user are displayed. This allows to easily recognize who has delegated the task.

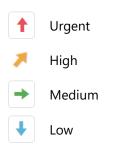


Expiration Date

It indicates the date and time the task expires. Through the property <u>Activity Duration</u> the due date is modeled, defining the duration of the task or by a variable in the form associated with the process. The values of this column are shown in different colors, managing to identify overdue tasks, those that expire in the short term or those that expire in a longer term. This column may not have information since the definition of the duration is optional in the processes modeling.

Priority

It visually indicates the task priority.



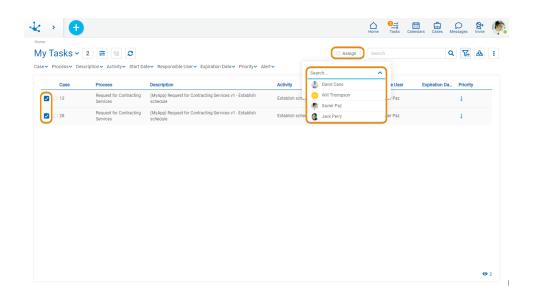
Set Tasks

To the left of the grid, a column of checks is displayed to select tasks by using check marks. As long as there is a task selected and the user has security permissions to do it, the "Assign" button is enabled.

If this button is pressed, a list of users is expanded, with the following characteristics:

- Be users of the same organizational unit.
- Be users of the roles where they are Coordinator.
- Be users of the organizational units where they are an Administrator.

Pressing the "Accept" button assigns the task to the selected user and a message is displayed indicating that the assignment was successful.





Rows

Each task of the grid can be shown by clicking on the corresponding line. The operations available for each task are displayed through buttons, by hovering on the line.

Process Description Activity Case Process Description 0 7 Refunds Request (Global) Refunds Request v1 - Evaluate request 0 16 Refunds Request (Global) Refunds Request v1 - Evaluate request 0 13 Refunds Request (Global) Refunds Request v1 - Evaluate request	uest 04/03/2022 € Alex Farias
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	quest 17:03 Alex Farías
C 12 Refunds Request (Global) Refunds Request v1 - Evaluate request Evaluate request	quest 04/03/2022 S Alex Farías ↓
50 Consolidated Weekly Reimbursements (MyApp) Consolidated Weekly Reimbursements v1 - Check Consolidated Check Consolidated	wolldated 26/10/2021 🔮 Alex Farias
0 49 Consolidated Weekly Reimbursements (MyApp) Consolidated Weekly Reimbursements v1 - Check Consolidated Check Consolidated	wolidated 19/10/2021 🔮 Alex Farias
36 Refund with possible payment suspension (MyApp) Refund with possible payment suspension v1 - Evaluate request Evaluate request	quest 18/10/2021 🔮 Alex Farías 👃
Control 25 Control 24 Control v1 - Evaluate application Evaluate application	plication 18/10/2021 🔮 Alex Farías 👃
O 18 Refund of reported pending expenses (MyApp) Refund of reported pending expenses v1 - Check availability Check availability	ability 18/10/2021 🚭 Alex Farías 🖡

Buttons Over Rows Display

The user can decide if they wish to see the buttons with the operations of the task on the line.

- Display the buttons available for each task.
- Hide the buttons available for each task.

Scroll Bar

The lines in the grid are completed when advancing vertically, allowing scrolling up or down through the use of a scroll bar.

In the lower right corner the total number of tasks loaded in the grid can be seen.

3.5.7.2.1. Columns Behavior

If hovering over each column a set of icons that represent their behavior is displayed.

Behavior Icons

When selecting one of these icons, it displays the one chosen to the right of the column title on which the behavior has been defined. To undo the select you must click on this icon.

The ordering of the lines can be made only by a column, so if more than one ordering criterion is selected, only the last one is taken, deleting the previous one.



Anchorage

It allows leaving the column fixed when the grid is scrolled through the horizontal scroll bar. It is available for the first column of the grid.

Ascending Ordering

It allows to make the ordering of the column in an ascending way. Icon present in all columns.

Descending Ordering

It allows to make the ordering of the column in a descending way. Icon present in all columns.

× Delete the Column

It allows to hide the column.

3.5.7.3. Tasks Execution

This functionality aims to execute the current activity and then evaluate the conditions to finish it. If they meet such conditions, it allows the move on to the next activity, as modeled in the process.

A task can be executed.

- From the "Tasks" icon on the portal top toolbar.
- From the tasks grid.
- From the case show.
- From the "Cases" icon on the portal top toolbar, with the "New Case" option, it is possible to request the execution of the first activity of a process.

On the next example, it executes the "Create request" activity, that creates a refund request according to the process modeled from a <u>one-level approval template</u>. When executing the activity it displays a form related to the first activity case.



come +					Home	₽ <u></u> ¥ Tasks	Calendara	Cases	D Messages		-
Create request											3
Applicant											
Name *	Sumame *			Organizational Un	it *						
Alex	Farías			System Departm	nents						
20/01/2022	Project	Currency U.S. Dollar	~	Amount 0,00	FILE Selec	t a file			< 0	8	
20/01/2022 () The Concept Is required		U.S. Dollar		0,00		t a file			< 0	8	
Additional											
Comments											
										Accept	

When the first activity in a case is executed, as in this example, the name of that activity is displayed in the execution header.

The fields indicated with an asterisk in red are required to be able to carry out the activity, as the behavior was defined when modeling the form and the process. If a value is not entered in a required field, the user receives a message indicating that the field must be informed.

Once the requested data has been entered, by pressing the "Accept" button, the next activity will be carried out depending on how the process has been modeled.

In the following process activities, the icons that allow access to the specific information of the case are also displayed.

k >	Ð				,	Home Tasks Calend	ars Cases Me	essages Invite
Evalu (Global)	uate request Refunds Request v1 - Evaluate request					ổ Case 🖂 Email	s 🗩 📀	iQt
 Applicant - Name * 		Surname *			Organizational Un	it *		
Alex		Farías			System Departm	nents		
Expenses to Date	D be reimbursed	Project	Currency		Amount	FILE		
20/01/2022	Various expenses	Great clients	U.S. Dollar	~	300,00	Select a file	<	00
 Additional I Comments 								
Expenses incurr	red due to problems in regular transportation.							h
							Correct	Approve

Case Information



۶

Comments Associated to the Case

Allows to open the <u>conversation associated to the case</u> that is being executed. The conversation title is the description of the case and the participants are the subscribed users.

Help

Allows to open a window with the description of the activity. The process modeler can include a detailed description of each activity. This information can be shown when executing the activity, so that the user knows how to carry out the task. If the activity does not have a description, the icon is disabled.



Case Information

Allows to display a panel with <u>case information</u>. To close this panel you must press the icon again.

To display the case information in a new window, you must click the icon C on the lower left corner of the panel.



Attached Files

Allows to see the detail of the <u>associated information</u>: file name, user, date it was associated and the origin of the attachment (from the form, chat or case). New attached files can also be added.



Graphic Show

Allows to display the case in <u>graphic way</u>, with animations that show how it went through the different activities that make up the process the belong to and the duration times of each task.

Finish Current Activity

When the user finishes logging in and confirming the data, **Deyel** verifies the current activity meets the conditions to finish it and then it moves on to the next activity. Otherwise, a message indicates the condition that does not allow the activity to be finished.

Move on to the Next Activity

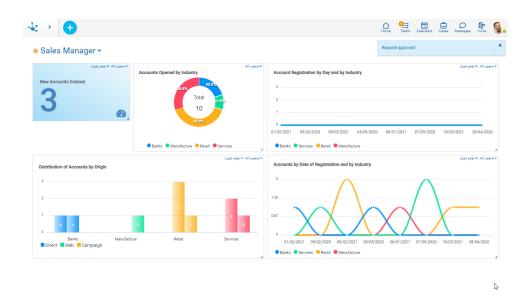
When the conditions for ending the current activity are met, the procedure for proceeding to the next activity starts. This procedure depends on the widget <u>Continuous Execution</u> that is defined when modeling the activity in the process.

If this widget is activated and the pass to the next activity has been successful, **Deyel** analyzes its definition and if it corresponds to the user to execute it, then such execution starts automatically This mechanism allows the user to continuously execute the case activities for which they have responsibility. In this way, when it finishes executing an activity, it goes to the next activity, without having to return to the to-do list.



In the case that the continuous execution widget is deactivated or that the next activity does not correspond to be executed by the same user, then only the activity execution message is displayed.

The following image shows as an example a message of the execution of an activity, which was modeled in the process.



3.5.8. Cases

A case is a specific execution of a process. For example, for a process of refund request, a case corresponds to a request in specific, for example from the sales area.

A user can show their cases or <u>initiate new ones</u> from the "Cases" option from the <u>top toolbar</u>, or entering the "Cases" text in the menu searcher and accessing such option.

ϟ degel	¢	Ð									Tasks Calendars	Cases Messa	ges Invite
Search	٩	Home	s			Search					- Q	New Case	Situation
O Deyel Modeler		≑ Case	 Starting Date 	Process	Status	Description	Chat	Priority	Activity	Activity Start	Responsible User	Completion	Expiration Date
\iint Agile Modeler			9 26/01/2022	Notification of Absence	•	(Global) Notification of Absence v1 - Evaluate request	ρ	÷	Evaluate request	26/01/2022	🔮 Alex Farías	-	-
Forms and Tasks			8 26/01/2022	Vacation Request v1	•	(Global) Vacation Request v1 v1	P	÷	Request approved			26/01/2022	
🔥 Deyel CRM	~		6 20/01/2022	Refunds Request	•	(Global) Refunds Request v1	P	ŧ	Request approved			21/01/2022	
Deyel Contracts	~		5 20/01/2022	Refunds Request	•	(Global) Refunds Request v1	P	ŧ	Request approved			20/01/2022	
HI BAM and Analysis	~		2 06/01/2022	Refunds Request	•	(Global) Refunds Request v1		ŧ	Request approved			06/01/2022	
 Reports Configuration 	~	3	9 18/05/2021	Refund of reported pending expenses	•	(MyApp) Refund of reported pending expenses v1	ρ	÷				12:18	
		3	8 18/05/2021	Refund of reported pending expenses	•	(MyApp) Refund of reported pending expenses v1		÷				31/08/2021	
		3	7 18/05/2021	Refund with possible payment suspension	•	(MyApp) Refund with possible payment suspension v1 - Correct request	Q	÷	Correct request	18/10/2021	🔮 Alex Farías		
		3	6 18/05/2021	Refund with possible	•	(MyApp) Refund with possible payment		÷	Evaluate	18/10/2021	Se Alex		-

3.5.8.1. Initiate Cases



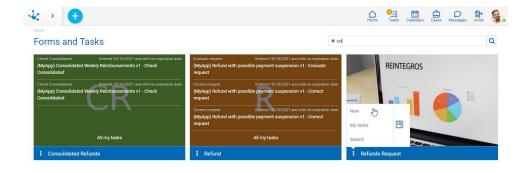
Initiating a case allows the user to make the first task of it.

A new case can be created from the:

• The icon \bigcirc corresponding to the <u>context menu</u>, selecting the process from the displayed menu.

							Hor	me Tasks C	alendars Cases	Messages Invite
	Refunds Request	Ð								
	Refund of reported pending	g expenses	Se	arch				- C	New C	ase Situation
Starting	Refunds with Budget Contr	rol		Chat	Priority	Activity	Activity Start	Responsible	Completion	Expiration
te	Refunds with Calendar									Date
/01/2022	Refunds with Possibility of		ce v1 -	\mathcal{O}	+	Evaluate request	26/01/2022	Sarías Farías	-	-
/01/2022	Refunds with Quote Update	e	v1	ρ	+	Request approved			26/01/2022	
/01/2022	Refund with possible paym	nent suspension			+	Request approved			21/01/2022	
//01/2022				P	+	Request approved			20/01/2022	
/01/2022		(÷	Request approved			06/01/2022	
/05/2021	Refund of reported pending expenses	(MyApp) Refund of reported pending expenses v1		\mathcal{O}	+				12:18	
1/05/2021	Refund of reported pending expenses	(MyApp) Refund of reported pending expenses v1		\mathcal{O}	+				31/08/2021	
/05/2021	Refund with possible payment • suspension			ρ	+	Correct request	18/10/2021) Alex Farías	-	
/05/2021	Refund with possible payment • suspension			ρ	÷	Evaluate request	18/10/2021	lex Alex Farias	-	
/05/2021	Refund with possible payment • suspension			Ø	+	Correct request	18/10/2021	🔮 Alex Farías	-	-
	e 01/2022 01/2022 01/2022 01/2022 01/2022 005/2021 05/2021	Refunds with Calendar Refunds with Calendar Refunds with Calendar Refunds with Possibility of 1/2022 Refunds with Possibility of 1/2022 Refund with possible payment os/2021 Refund of reported pending expenses Possible payment os/2021 Refund with ossible payment espension	Befunds with Calendar 01/2022 Refunds with Calendar Refunds with Calendar Refunds with Possibility of Cancellation 01/2022 Refunds with Quote Update 01/2022 Refund with possible payment suspension 01/2022 Refund of reported pending expenses 01/2022 Refund of reported pending expenses 05/2021 Refund of reported pending expenses 05/2021 Refund with possible payment @ payment suspension v1 - Cor request 05/2021 Refund with possible payment @ (MyApp) Refund with possible payment @ payment suspension v1 - Cor request 05/2021 Refund with possible payment @ (MyApp) Refund with possible payment @ payment suspension v1 - Cor request 05/2021 Refund with @ (MyApp) Refund with possible payment @ payment suspension v1 - Cor request 05/2021 Refund with @ (MyApp) Refund with possible payment @ payment suspension v1 - Via suspension v1 - Cor request	Befunds with Calendar ce v1 - 01/2022 Refunds with Calendar v1 Refunds with Calendar v1 Refunds with Quote Update v1 Refunds with Quote Update v1 Refunds with Quote Update v1 Refund with possible payment suspension v1 01/2022 Refund of reported pending expenses v1 v1 05/2021 Refund of reported pending expenses v1 (MyApp) Refund of reported pending expenses v1 05/2021 Refund of reported pending expenses v1 (MyApp) Refund of reported pending expenses v1 05/2021 Refund of reported pending expenses v1 (MyApp) Refund with possible payment suspension v1 - Correct request 05/2021 Refund with possible payment pending expenses v1 (MyApp) Refund with possible payment suspension v1 - Evaluate request 05/2021 Refund with possible payment pending expenses v1 (MyApp) Refund with possible payment suspension v1 - Correct request 05/2021 Refund with possible payment pending expenses v1 (MyApp) Refund with possible payment suspension v1 - Correct request	Befunds with Calendar Chut 01/2022 Refunds with Calendar ev1 - 01/2022 Refunds with Calendar v1 - 01/2022 Refund with possible payment suspension - 01/2022 Pending expenses - 01/2022 Pending expenses - 05/2021 Refund of reported pending expenses v1 - 05/2021 Pending expenses - 05/2021 Refund with possible payment supension v1 - Correct possible payment - 05/2021 Refund with possible payment - 05/2021 Refund with possible payment - 05/2022 Refund with possible payment - 05/2021 Refund with possible payment<	Analysis Citat Piconty Refunds with Calendar ce v1 - Affunds with Calendar Citat Piconty Refunds with Possibility of Cancellation 1 Image: Citat Refunds with Quote Update Image: Citat Image: Citat<td>Market Chat PRiords with Calendar 01/2022 Refunds with Calendar ce v1 - i Evaluate request 01/2022 Refunds with Quate Update v1 i i Request approved 01/2022 Refunds with Quate Update v1 i i Request approved 01/2022 Refund with possible payment suspension i i Request approved 01/2022 Refund of reported pending expenses v1 i i Request approved 05/2021 Refund of reported pending expenses v1 i i correct request 05/2021 Refund of reported pending expenses v1 i i correct request 05/2021 Refund of reported pending expenses v1 i i correct request 05/2021 Refund of reported pending expenses v1 i i correct request 05/2021 Refund with possible payment (MyApp) Refund with possible request i correct request 05/2022 Refund with possible payment (MyApp) Refund with possible request i correct request</td><td>Annual Chat Pitonty Activity Activity Start Perfunds with Calendar Perfunds with Possibility of Cancellation Perfunds with Possibility of Cancellation Perfunds with Possibility of Cancellation Perfunds with Calendar Perfunds with Possibility of Cancellation Perfunds with Possibility of Perfund with Possibility of Perfund with Possibility perfunds with possibili</td><td>And With D1/2022 Refunds with Calendar Chat C Pointy Activity Actity Activity<td>And With D1/2022 Refunds with Calendar Chat Priority Activity Activity Mature Water Completion User Completion 01/2022 Refunds with Calendar ce v1 </td></td>	Market Chat PRiords with Calendar 01/2022 Refunds with Calendar ce v1 - i Evaluate request 01/2022 Refunds with Quate Update v1 i i Request approved 01/2022 Refunds with Quate Update v1 i i Request approved 01/2022 Refund with possible payment suspension i i Request approved 01/2022 Refund of reported pending expenses v1 i i Request approved 05/2021 Refund of reported pending expenses v1 i i correct request 05/2021 Refund of reported pending expenses v1 i i correct request 05/2021 Refund of reported pending expenses v1 i i correct request 05/2021 Refund of reported pending expenses v1 i i correct request 05/2021 Refund with possible payment (MyApp) Refund with possible request i correct request 05/2022 Refund with possible payment (MyApp) Refund with possible request i correct request	Annual Chat Pitonty Activity Activity Start Perfunds with Calendar Perfunds with Possibility of Cancellation Perfunds with Possibility of Cancellation Perfunds with Possibility of Cancellation Perfunds with Calendar Perfunds with Possibility of Cancellation Perfunds with Possibility of Perfund with Possibility of Perfund with Possibility perfunds with possibili	And With D1/2022 Refunds with Calendar Chat C Pointy Activity Actity Activity <td>And With D1/2022 Refunds with Calendar Chat Priority Activity Activity Mature Water Completion User Completion 01/2022 Refunds with Calendar ce v1 </td>	And With D1/2022 Refunds with Calendar Chat Priority Activity Activity Mature Water Completion User Completion 01/2022 Refunds with Calendar ce v1

• The gallery of <u>Forms and Tasks</u>, selecting the "New" operation in the form associated to the process.



• The grid of <u>Cases</u>, selecting the "Start Case" tab and the process name.



√ ∠ → +		Home	O Tasks	Calendars	Cases	O Messages	8+ Invite	9
Home > Cases	Search			Q	New C	ase S	ituation)
< Name			De	scription			:	
Vacation Request v1								
Vacation request								
Simultaneous 2 Levels Approval Example								
Sequential Data Collection, 2 Levels Example								
Request for Contracting Services								
Reimbursement of Expenses with Waiting Period								
Refunds with Quote Update								
Refunds with Possibility of Cancellation								
Refunds with Calendar								
Refunds with Budget Control								
Refunds Request						Sta	art 🞝	
Refund with possible payment suspension								
Refund of reported pending expenses								
		F	Page 1 / 2	≪ G	o to	30 >	»	

Quick search allows to filter all processes whose names contain one or more words entered in the search section. To return to the original list, click on the icon \bowtie of the search bar.

3.5.8.2. Situation

In the "Situation" tab the grid of cases initiated by the user or his team is displayed. This last, if the user is responsible for an organizational unit or role. If the case has more than one activity in progress a row is displayed for each running task.

R* Invite		Calendars Cases	ne Tasks	Hor							H	\$ ^
Situation	New Case Si	New	•				Search	5			;	Cases
ion i	on Expiration Date	Completion	Responsible User	Activity Start	Activity	Priority	Chat	Description	Status	Process	Starting Date	🗘 Case
-			🜒 Alex Farías	26/01/2022	Evaluate request	t	^{1.} 9	(Global) Notification of Absence v1 Evaluate request	•	Notification of Absence	26/01/2022	9
Case	2 Consult Ca	26/0 1/2			Request approved	+	Q	(Global) Vacation Request v1 v1	•	Vacation Request v1	26/01/2022	8
	2022	21/01/2023			Request approved	÷		(Global) Refunds Request v1	•	Refunds Request	20/01/2022	6
	2022	20/01/2023			Request approved	+	Q	(Global) Refunds Request v1	•	Refunds Request	20/01/2022	5
	2022	06/01/2022			Request approved	+		(Global) Refunds Request v1	•	Refunds Request	06/01/2022	2
	12:18	12:18				+	9	(MyApp) Refund of reported pending expenses v1	•	Refund of reported pending expenses	18/05/2021	39
	2021	31/08/202				+	\mathcal{O}	(MyApp) Refund of reported pending expenses v1	•	Refund of reported pending expenses	18/05/2021	38
-	-) Alex Farías	18/10/2021	Correct request	+	P	(MyApp) Refund with possible payment suspension v1 - Correct request	•	Refund with possible payment suspension	18/05/2021	37
	-) Alex Farías	18/10/2021	Evaluate request	+	P	(MyApp) Refund with possible payment suspension v1 - Evaluate request	•	Refund with possible payment suspension	18/05/2021	36
			🌒 Alex Farías	18/10/2021	Correct request	+	ρ	(MyApp) Refund with possible payment suspension v1 - Correct request	•	Refund with possible payment suspension	18/05/2021	35
				18/10/2021		+	9	payment suspension v1 - Correct	•	possible payment	18/05/2021	35

Columns

Case Number that identifies the case.

Start Date



Case start date. If the case has a start date on the same day, then only the start time (includes hours and minutes) is displayed. Otherwise the start date and time is displayed.

Process

Name of the process the case belongs to.

State

State of the case and color that identifies its state.

- Active
- Ended
- Cancelled
- Suspended

Description

Case description. It can be modified from the process modeler. By default, the description consists of the process code, its version and the name of the activity to be executed.

Chat

Allows to display or add comments in the conversation associated to the case. If the icon is highlighted, there are comments for such case. If the icon is not highlighted, no comment has been added yet.

Activity

Name of the activity or activities in progress of the case.

Activity Start

For each case activity in progress its start date is displayed. If the activity has a start date on the same day, then only the start time (includes hours and minutes) is displayed. Otherwise, the start date is displayed and clicking on it displays a visual aid, also indicating the time.

Responsible User

For each activity in progress of the case, the participant responsible for the execution is displayed. It is not reported responsible if the case is finalized. It can be a user, a role or an organizational unit and it is represented in different ways.

- The task is the direct responsibility of the user, the image of the user and his full name are displayed.
- The task is the responsibility of the organizational unit to which the user belongs, the icon of the organizational unit and its name are displayed.
- The task is the responsibility of a role assigned to the user, the icon of the role and its description are displayed on the list.
- The task is the responsibility of another user but it has been delegated to the person who is consulting, the image and the full name of the user who is consulting is displayed.

End Date

End date of the last case activity, its behavior is like that of the property Start Activity .

Expiration Date

For each case activity in progress its expiration date is displayed. The dates are visible with a traffic light, indicating the expired, at risk or on time. If the activity modeling does not indicate that it has a duration or expiration date, the activity does not show such date.

Calculation of the Expiration Date and Traffic Light



By clicking on a date you can check how long the task has been overdue. Such time is displayed using different criteria.

- More than 30 days expired: When the period is greater than 30 days.
- DD HH: Days and hours when the period is greater than a day.
- HH MM: Hours and minutes when the period is less than a day and greater than or equal to an hour.
- MM SS: Minutes and seconds when the period is less than an hour and greater than or equal to a minute.
- SS: Only seconds when the period is less than one minute.

Priority

Indicates the priority the task has using icons of different colors.



Operations

When hovering over the case lines the "Show Case" button is enabled, which allows you to go to <u>the</u> <u>case panel</u>. If the user can execute the current activity, the "Show Task" button is also enabled which allows to <u>execute the task</u>.

3.5.8.2.1. Case Search

Two search types can be made.

- Fast
- Advanced

Fast Search

Allows to recover all the cases which have descriptions with one or more chosen words.

You must locate the cursor in the search section, enter the text to search and press the "Enter" key or click on the magnifying glass. In this way, all cases in whose description the entered text exists are filtered.

To delete the filter, click on any of the "X" icons, to the left of the text entered or to the right of the search field.



ome							Home	Tasks Calenc	Jars Cases Me	Ssages Invite
Cases				× absence				~ X	New 0	ase Situa
Case Case Date	Process	≑ Status	Description	Chat	Priority	Activity	Activity Start	Responsible User	Completion	Expiration Date
9 26/01/20	Notification of Absence	•	(Global) Notification of Absence v1 - Evaluate request	Q	÷	Evaluate request	26/01/2022	🔮 Alex Farías	-	

Advanced Search

To access the advanced search you must click on the icon 🔹 on the right of the search field. A window is opened which allows to indicate the different criteria.

<	•						Ho	ne Tasks C	Calendars Cases Messa	ges Invite
Cases	3			Search				- C	New Case	Situation
Case	Process	≑ State	Description	O My Case	85 O	Of my Team O All Case	25		End Date Expl	iration
9	Notification of Absence	•	(Global) Notification of Absence v1 - E request	Case	>					-
8	Vacation Request v1	•	(Global) Vacation Request v1 v1	Home					26/01/2022	
6	Refunds Request	•	(Global) Refunds Request v1	Process					21/01/2022	
5	Refunds Request	•	(Global) Refunds Request v1	Description End Date					20/01/2022	
2	Refunds Request	•	(Global) Refunds Request v1	Alerts	0	00			06/01/2022	
39	Refund of reported pending expenses	•	(MyApp) Refund of reported pending	Priority					27/01/2022	
38	Refund of reported pending expenses	•	(MyApp) Refund of reported pending	State		• •			31/08/2021	
37	Refund with possible payment suspension	•	(MyApp) Refund with possible payme v1 - Correct request					Search		-
36	Refund with possible payment suspension	•	(MyApp) Refund with possible paymer v1 - Evaluate request	nt suspension	Q	Evaluate request	18/10/2021	🔮 Alex Farías	-	-
35	Refund with possible payment suspension	•	(MyApp) Refund with possible paymer v1 - Correct request	nt suspension	Q	Correct request	18/10/2021	🔮 Alex Farias		
31	Provision for Withdrawals	•	(MyApp) Provision for Withdrawals v1		\mathcal{O}	Budget			06/05/2021	

Filters by Responsible

My Cases

The grid contains the cases initiated by the connected user.

Of my Team

The grid contains the cases initiated by the user himself or by the users who are members of a role or organizational unit where the user is the participant responsible.

All Cases



The grid contains all the existing cases. This option is visible if the user has the corresponding security function among their permissions.

Filters by Properties

Case You can search by greater or less than a certain number.

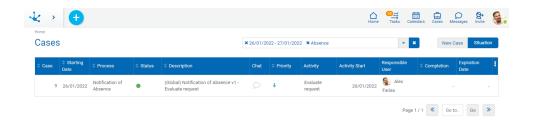
Process and Description You can search for the text you want.

Start Date and End Date You can search by a range of dates in which the case started or ended.

Alerts, Priority and State

Allows to filter selecting the corresponding icons.

The filters applied in the search are visible in the search section, each one preceded by the icon X. By pressing such icon the corresponding filter is deleted and a new search is automatically executed that updates the grid of cases displayed.



3.5.8.2.2. Sorting and Visibility

The tasks grid allows to display different columns and a sorting can be indicated for each of them, though the icon . Pressing this icon changes the sense of the sorting.

The sorting of the lines can be made only by a column, so if more than one criterion is selected, only the last one is taken, deleting the previous one.

The icon \mathbf{X} to the right of each column title allows to hide the column.



User Preference

The columns seen in the grid and the number of lines are configured through <u>environment parame-</u> ters.

Pressing the icon it displays a panel with the names of the columns of the grid. By means of a check mark, the user can activate or deactivate the display of each column. The set of selected columns is valid until the same user modifies it again.

Case 🔺				arch		- Q	New Case Status
	Process	≑ State	Description	Chat	Activity	Responsible User	End Date Expiration Date
9 N	Notification of Absence	•	(Global) Notification of Absence v1	9	Request approved		✓ Case
7 P	Provision for Withdrawals	•	(MyApp) Provision for Withdrawals v1		Budget Consumed		Start Date
4 F	Provision for Withdrawals	•	(MyApp) Provision for Withdrawals v1	9	Budget Consumed		✓ State
1 P	Provision for Withdrawals	•	(MyApp) Provision for Withdrawals v1	9	Budget Consumed		Description Chat
2 F	Provision for Withdrawals	•	(MyApp) Provision for Withdrawals v1 over planning	- Adjust expenses	Adjust expenses over planning	David Cano	Priority Activity
31 P	Provision for Withdrawals	•	(MyApp) Provision for Withdrawals v1	9	Budget Consumed		Activity Start Responsible User
29 P	Provision for Withdrawals	•	(MyApp) Provision for Withdrawals v1	9	Budget Consumed		End Date Expiration Date
	Refund of reported pending expenses	•	(MyApp) Refund of reported pending e	expenses v1 💭			
	Refund of reported pending expenses	•	(MyApp) Refund of reported pending e	expenses v1 💭			27/01/2022
	Refund of reported pending expenses	•	(MyApp) Refund of reported pending e	expenses v1 💭			31/08/2021
	Refund of reported pending expenses	•	(MyApp) Refund of reported pending e availability	expenses v1 - Check 🔊 💭	Check availability	🔮 Alex Farias	

Paging

If the number of lines exceeds the maximum number to display on a page, the buttons at the bottom right of the grid can be used to move to the previous and next page, or select a specific page.

3.5.8.3. Cases Show

In the panel of the show case, the icon of the process and the description of the case are displayed in the top left part, while in the top right part the icons corresponding to its chat, its attachments and its chart show are displayed.



↓ → +	Ho	}	ndars Cases Messages Invite
Home > Cases > New Case > Cases			community becaute
(Global) Refunds Request v1			۲ 🔊 ۱
Applicant		Case 5 •	
Name *		Process	Refunds Request
Alex		Home	17:05
Sumame *		Duration	1m 59s
Farias		Initiator	🔮 Alex Farias
Crganizational Unit *		Priority	÷
System Departments		last Activity	Request approved
	>	Completion Forms	17:07
 Expenses to be reimbursed 	- 1.		retunds Request
Date *		C	
20/01/2022	<		
Concept*			
Various expenses			
Project			
Great clients			
Currency *			
U.S. Dollar			
Amount *			
300	,00		

Case Information

Comments Associated to the Case

Allows to show the <u>conversation associated to the case</u>. The conversation title is the description of the case and the participants are the subscribed users.



Attached Files

Allows to display the detail of the information that has been <u>attached to the case</u>, that is, the name of the file, the user, the date, the time and the origin of the attachment.



Graphic Show

Allows to display the case in <u>graphic way</u>, with animations that show how it went through the different activities that make up the process and the duration times of each task.

Left Panel

The left panel displays the show for the main form of the case.

Right Panel

In the right panel the information of the case is displayed, indicating the number that identifies it and its properties.

State

State of the case identified by a color.

- Active
- Ended
- Cancelled





Process

Name of the process the case belongs to.

Start Date

Case start date. If the case has a start date on the same day, then only the start time (includes hours and minutes) is displayed. Otherwise the start date and time is displayed.

Duration

It is informed in days, hours, minutes and seconds.

Initiator

User that initiated the case.

Priority

Indicates the priority the task has using icons of different colors.



Forms

Forms created during the execution of the case.

Activities in Progress

They are the case activities that are in execution at the time of the show. They are only visible if the case is unfinished.

Start Date

Start date of the activity. If the activity has a start date on the same day, then only the start time is displayed. Otherwise, the start date and time.

Responsible User

Responsible for the execution of the activity. It is not informed responsible if the case is finalized. It can be a user, a role or an organizational unit and it is represented in different ways.

- The task is the direct responsibility of the user, the image of the user and his full name are displayed.
- The task is the responsibility of the organizational unit to which the user belongs, the icon of the organizational unit and its name are displayed.
- The task is the responsibility of a role assigned to the user, the icon of the role and its description are displayed.
- The task is the responsibility of another user but it has been delegated to the person who is consulting, the image and the full name of the user who is consulting is displayed.

Expiration Date



It indicates the expiration date of the task in progress, or the due time when it expires on the current day.

Through the property <u>Activity Duration</u> the origin of the expiration date is modeled. It is calculated according to the duration of the task, or it is taken from a field belonging to a form associated with the process.

The date is shown in different colors for those due, those that expire in the short term or those that expire in a longer term. The date may not be reported as it is optional in processes modeling

"Show" button

It is visible when the activity can be executed by the user who wants to show. Allows to access to the task execution.

"Cancel" button

It is visible only if the case is unfinished and allows to cancel it. It is verified a user can cancel:

- Their own cases.
- The cases of their team if they are coordinators of it.
- The cases of the participants of a role, if they are coordinator of it.

Ended Cases

If the case is finalized only some properties are shown.

Last Activity

Activity which the case finalized with.

End Date

End date of the last case activity. It is displayed in the same way as the start date of the activity.

Closing of the Right Panel

It closes the right panel of the case information.

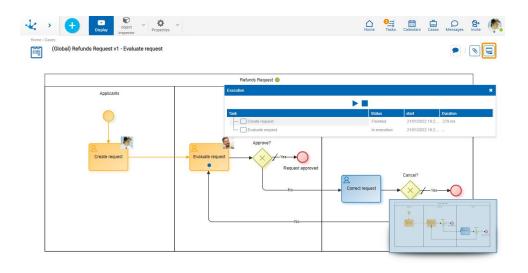
New Window

To display the case information in a new browser window, you must click the icon C found in the lower right corner of the side panel.

3.5.8.4. Graphic Show

The process viewer allows to show the process diagram and the execution made so far. It also provides a set of tools to make the show. To return to the show of the case, you must press the icon \square .

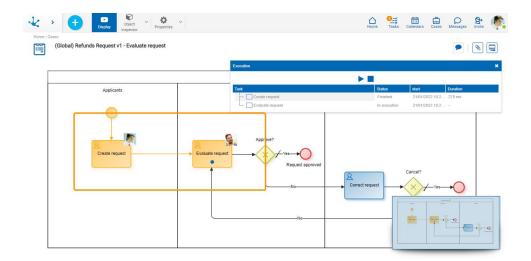




Activities Execution

The activities already executed in the case are identified highlighted in orange and in the top right part of each activity you can see the image of the person responsible for the execution.

The currently executed activity has a blue dot on it shape.

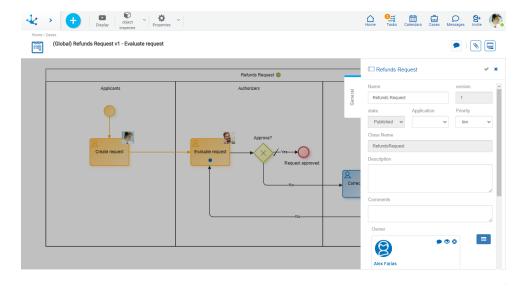


When hovering over an executed activity, a panel opens with information on the execution of the activity, on the automatic activities and on the events. The next activity or event to be executed is also displayed.



Image: Solution of Calculation Image: Solution of Calculation of C	Home 🤐 🖾 Calendaria Cases Anter 🥠
	Execution X
Applicants	Task Status start Duration
Execution	Create request Finished 21/01/2022 10:2 279 ms
star: 2/01/2023 10:24:72.43 2/02/2018 2/02/2018 Duration: 2/07/2018 10:24:72.43 Duration: 2/07/2018 2/07/2	L Evaluate request Approve? H Request approved Request approve

The properties of all elements of the process diagram can be shown, but cannot be modified.



Display

If the "Display" option is selected in the top toolbar, the execution panel opens with the detail of the executed activities and their summarized information.



×	>	~				Home	<mark>2.≓</mark> Tasks C	alendars	Cases Messages	8+ Invite	
Home > 0	(Global) Refunds Request v1 - Evaluate request								•	8	
r			Execution								×
	Applicants		Task			Status	6	start	Duration		
	Create request	Evaluate reques	Appi	rove?	O tapproved	t request		ancel?		-	

This panel allows to simulate the execution of the case:

Start the execution simulation. While the simulation is running, the icon corresponding to the pause is displayed.

Pause the simulation. Once it has stopped, the icon corresponding to the execution is displayed.

End the execution simulation.

When selecting an activity from the list in the display, a window opens with its detailed information.

(Global) Refunds Re	equest v1 - Evaluate request					1	• 🔊
			Execution				
	Show an Eexecutio	٦			×	Dura	
	Show Activity					.022 10:2	
2	Execution Information						
Cr			Name	User			
	2		Create request	Xavier Paz			
	Status		Update Condition				
	Ended Activity						
						∕Yes →(C
		Date	Time	User code			
	Start of Activity	21/01/2022	10:24	JPAZ			
	End of Activity	21/01/2022	10:24	JPAZ			

3.5.8.5. Attach Information

Information stored locally or on Google Drive can be attached to a case. Such information can be updated in different ways.

• From an activity that has a related form, where <u>fields of file type or image type</u> were modeled. Only the users that can execute the activity can attach information.



- From the chat associated to the case. All users involved in the case can attach information at any time. This information is available for show even when the case has been closed.
- From the case show. The responsible user for executing the activity in which the case is found can attach information.

To return to the window of the case, you must press the icon \square .

√ ∠ → ⊕		Home Tasks Cal	andars Cases Messages Invite
Home - Cases (Global) Refunds Request v1 - Evaluate request			
	,	Attachs	
		Drag upload files f	files here or from your computer
			Cancel

From the attachments panel, all the information that was attached to the case is displayed, indicating the way it was attached. In this way the user can show the attached items easily and quickly.

T

Ľ

Indicates that the file was attached from the form.

Indicates that the file was attached from the case chat.

Indicates that the file was attached from the case show.

The name of the user who attached the information, the date, the time, and the name of the file or link are also displayed.

Hovering the cursor over each attachment enables the possibility of downloading the file to the user's local computer.

The information attached can only be deleted by the user that attached it.

3.5.8.6. Cases Related to a Form

The cases related to a form are those where the form is or has been used. If the form has modeled the property <u>Show Related Cases</u>, the option to show their related cases and their number are displayed in each instance.



ome > Refunds Rec				Home	Tasks Ca	lendars Cases	MESSAGES I	8+ wite
Refunds Reg				🗒 Refunds I	Request 🖂 E	Emails 🦪 Case (?
Applicant								
lame *		Sumame *		Organizational Uni	*			
Xavier		Paz		Sales Departmen	t			
)ate *	Concept *	Project Creat eliante	Currency *	Amount *	FILE		1	
21/01/2022	Concept * Various expenses	Project Great clients	Currency * U.S. Dollar	Amount * 300,00	FILE No file		<	
Additional Info	ormation							
Comments								
Comments								

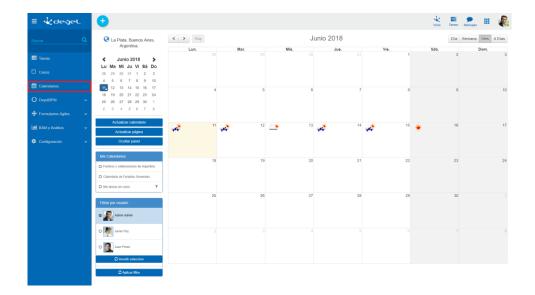
By clicking on the icon corresponding to the case or cases related you access the window of <u>case show</u> when there is a case related, or to the <u>case grid</u> related, when there is more than one.

3.5.9. Graphic Calendars

Phase 3: Portal > Calendar and collaborative tool

Para utilizar la funcionalidad de calendarios gráficos existen distintas alternativas.

- Hacer clic sobre la opción " Calendarios" del menú principal.
- En la búsqueda rápida del menú ingresar " Calendarios" y hacer clic en la opción listada.



En la porción superior central de la ventana se indica la fecha o periodo que se está considerando para la visualización de eventos dentro del **panel de eventos**.



Este panel de eventos se encuentra debajo y es donde se visualizan los indicadores del clima y los eventos de los calendarios.

< > Hoy

Junio 2018

Día Semana Mes 4 Días

Hacia la derecha se presentan una serie de botones que permiten controlar la forma de visualización de los eventos:

"Día" - Visualiza los eventos organizándolos por día. Se visualizan dentro de una agenda diaria. **"Semana" -** Visualiza los eventos de la semana.

"Mes" - Es la visualización por defecto. Presenta los eventos del mes.

"4 Días" - Permite ver al calendario como una agenda con los eventos de los próximos 4 días.

Hacia la izquierda se presentan botones que permiten establecer la fecha o periodo que se considera para la visualización de eventos.

Permite navegar la vista hacia atrás.

Ejemplo: Si la vista activa es por mes, retrocede un mes. Si la vista activa es por día, retrocede un día.

Permite navegar la vista hacia adelante.

Ejemplo: Si la vista activa es por mes, avanza un mes. Si la vista activa es por día, avanza un día.

Hoy

Acceso rápido al día de hoy.

Ejemplo: Si la vista activa es por mes, visualiza el mes en curso. Si la vista activa es por día, muestra la fecha actual.

Además de estos mecanismos de navegación descritos, se puede usar el selector de fechas o **"Date picker"**, que permite establecer una fecha específica.

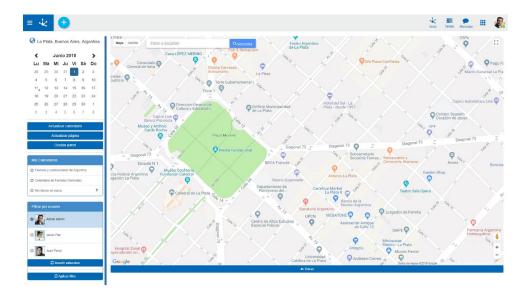
<		Juni	io 2	018		>
Lu	Ма	Mi	Ju	Vi	Sá	Do
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Ubicación Geográfica

En la porción superior izquierda de la pantalla se indica el lugar que **Deyel** está considerando para recuperar información del clima.

Esta ubicación puede ser cambiada abriendo el panel de configuración de ubicación:



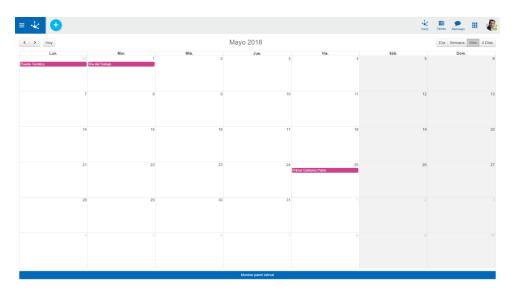


La búsqueda de la ubicación debe hacerse mediante el cuadro de texto superior. Una vez modificada la ubicación actual, los iconos del clima se actualizarán. El botón "Volver" permite retornar a visualizar el calendario.

"Actualizar Calendario" - Actualiza el contenido del panel de eventos. Evita tener que recargar la página para obtener los últimos cambios.

"Actualizar página" - Actualiza la página completa. Esto implica que se inicializan los filtros, debiendo establecerlos nuevamente.

"Ocultar panel" - Oculta el panel lateral, para que el calendario ocupe el ancho total de la pantalla. Con el botón **'Mostrar panel lateral'** se volverá a visualizar el panel ocultado.



Mis Calendarios.

Este panel contiene la lista de los calendarios gráficos que el usuario puede visualizar.



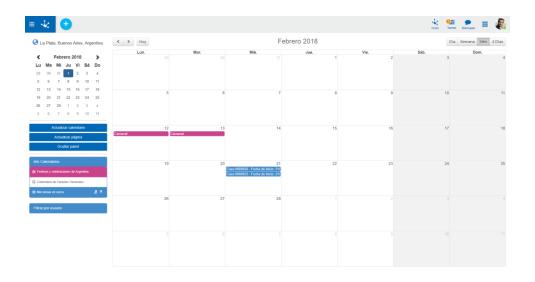
Deyel ofrece algunos calendarios predefinidos, que pueden ser de utilidad al usuario.

- Calendario de Feriados en el país de origen de la instalación.
- Calendario de Feriados Generales. Muestra los días Feriados y Fechas Particulares definidos en la organización.
- Calendario de Mis Tareas

Estos calendarios gráficos se definen y configuran en la tabla auxiliar "Configuración de calendarios gráficos – T246", referirse a la definición de la tabla y al tópico "Configuración" para más información.

Al hacer clic sobre un calendario gráfico, los eventos que corresponden a este calendario son visualizados en el panel de eventos.

Pueden seleccionarse varios calendarios simultáneamente y cada uno presenta sus eventos con un color específico.



Cada calendario ofrece la posibilidad de filtrar los eventos. Al presionar este control se despliega el panel de filtrado, que presenta una serie de campos por los cuales filtrar los eventos a visualizar.

Permite integrar el calendario con otras aplicaciones, como por ejemplo Google Calendar. Esta funcionalidad se encuentra detallada en el tópico "Integración con otras aplicaciones."

Panel de Selección de Usuarios

Si el usuario es responsable de una unidad organizacional , aparecerá el listado de usuarios registrados en dicha unidad. Este mecanismo permite que un coordinador visualice no sólo sus propios eventos sino también los de sus colaboradores. Una vez seleccionados los usuarios deseados, presione el bo-tón **'Aplicar filtro'** para actualizar el contenido del panel de eventos.

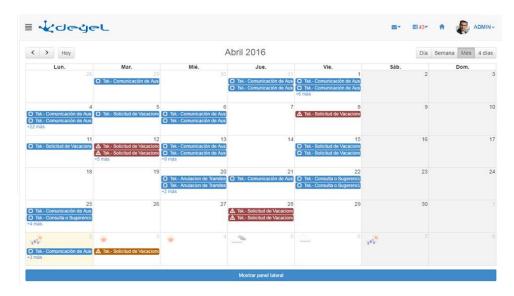


= 🔩 🕒						1vicio Tareas Mensaj	. 🗉 🤹
La Plata, Buenos Aires, Argentina.	< > Hoy		Febrero 2	2018		Dia Seman	a Mes 4 Dias
Febrero 2018 >	Lun. 29	Mar. 1	Alé. 31	Jue.	Vie. 2	Sáb. 3	Dom.
Lu Ma Mi Ju Vi Sá Do					_	-	
29 30 31 1 2 3 4							
5 6 7 8 9 10 11							
12 13 14 15 16 17 18	5	6	7	8	9	10	1
19 20 21 22 23 24 25							
26 27 28 1 2 3 4							
5 6 7 8 9 10 11							
Actualizar calendario	12	13	14	15	16	17	1
Actualizar página	Carnaval						
Ocultar panel							
Mis Calendarios	19	20	21	22	23	24	2
Festivos y celebraciones de Argentina		Caso 0000026 - Caso 0000033 -	Fecha de Inicio: 21/ Fecha de Inicio: 21/				
Calendario de Feriados Generales							
š Mis tareas en curso 🕹 Y							
	26	27	28				
Filtrar por usuario							
8 🔊 Sandra Lopez							
s Mandia Lopez							
C Invertir seleccion							
C Aplicar filtro							
Cripical and							

3.5.9.1. Calendar "My Tasks"

Este es uno de los calendarios predefinidos de **Deyel**.

Cada evento de este calendario representa a una tarea del usuario que está en ejecución, con lo cual este calendario es una manera alternativa de visualización de la lista de tareas del usuario. Los eventos se visualizan con diferentes colores, dependiendo del vencimiento de la tarea que representan. Se utiliza el mismo esquema de semaforización que en la lista de tareas pendientes.



El calendario de "Mis Tareas" ofrece filtrar los eventos por los siguientes criterios:



Filtrar por Proceso	> Hoy		Al	oril 2016		Dia Ser	mana Mes 4 dias
Think port focuso	Lun.	Mar.	Mié.	Jue.	Vie.	Sáb.	Dom.
D Integracion CAD (En desarrolio)	.28	29) Tsk Comunicación d		Tsk - Comunicación d		2	
D Anulacion de Tramites (En Uso)				Tsk Comunicación d	Tsk Comunicación d +6 más.		
(En Uso)	Tsk Comunicación d	5) Tsk Solicitud de Vac	6 Tsk Comunicación d Tsk Comunicación d	7	8 Tsk Solicitud de Vac	9	1
Solicitud de Licencias (En Uso)	más 11	12	13	14	15	16	1
D Solicitud de Vacaciones (En Uso)	4		 Tsk Comunicación d Tsk Comunicación d Hás 		Tsk Solicitud de Vac Tsk Solicitud de Vac Tsk Solicitud de Vac		
Comunicación de Ausencia	18	19	20 D. Tsk - Anulacion de Tri	21 D Tsk - Comunicación d	22 O Tsk - Consulta o Suge	23	2
Filtrar por Estado			 Tsk Anulacion de Tra +2 más 	C ise comprised of a	Tsk - Consulta o Suge		
Sin tiempo estimado o máximo (Azul)	25 Tsk - Comunicación d	26	27	28 A Tsk - Solicitud de Vac	29	30	
	Tsk - Consulta o Suge			A Tsk - Solicitud de Vac			
Próximo a fecha estimada (Amarilio)	2	* 3	* 4	5	6	7	
	Tsk Comunicación d 🚺	Tsk Solicitud de Vac					

Filtrar por Proceso - Permite ver las tareas pertenecientes a los procesos seleccionados. Filtrar por Estado - Permite ver las tareas de acuerdo a los tiempos de ejecución de la tarea. Se considera la definición de tiempos promedios y tiempos máximos de ejecución de la actividad y se clasifica la tarea.

Haciendo clic sobre uno de los eventos se puede acceder a la consulta del caso correspondiente y a la ejecución de la tarea.

3.5.10. Results and Search Grid

The results and search grid of a form allows displaying all its instances, adding the possibility of applying filters.

Each row corresponds to a form instance and each column represents those fields that were modeled using the <u>Grid and Filters</u> design option.

Sections

- <u>Top Bar</u>
- <u>Grid</u>



Applicant	Estimated Delivery	Application Date	Request Id	Organizational Unit	Status			
Farias	17/11/2021	10/11/2021	8	System Departments	A Inactive			
Farias	07/04/2022	05/04/2022	7	System Departments	Active			
Farias	23/03/2022	15/03/2022	6	System Departments	Active			
Farias	04/04/2022	01/04/2022	5	System Departments	Active			
Farias	18/03/2022	16/03/2022	4	System Departments	Active			
Farias	10/03/2022	08/03/2022	3	System Departments	Active			
Farias	16/02/2022	03/02/2022	2	System Departments	A Inactive			
Farias	02/02/2022	07/04/2022	1	System Departments	Active			

3.5.10.1. Top Bar

From the top bar, different options related to the content and presentation of the results and search grid for form instances can be selected.

⁶ Number of Instances

Indicates the number of form instances, either total or that resulting from the application of a <u>search</u> <u>filter</u>.

Grid Version

Allows switching to the previous version of the grid or return to the new one.

Update Grid

Allows reloading the updated grid, keeping the selected filters.

Search Quick Search

It allows to filter instances by the modeled fields for quick search and that contain the entered value. The quick search option only appears if it was modeled in the form.

Clicking the icon 🛈 displays the form fields on which this type of search may be carried out.



	plicant∽ Estimated Total∽ Estin				
Applicant	Estimated Delivery	Application Date		Organizational Unit	Status
Farias	17/11/2021	10/11/2021	8	System Departments	A Inactive
Farias	07/04/2022	05/04/2022	7	System Departments	Active
Farias	23/03/2022	15/03/2022	6	System Departments	Active
Farias	04/04/2022	01/04/2022	5	System Departments	Active
Farias	18/03/2022	16/03/2022	4	System Departments	Active
Farias	10/03/2022	08/03/2022	3	System Departments	Active
Farias	16/02/2022	03/02/2022	2	System Departments	A Inactive
Farias	02/02/2022	07/04/2022	1	System Departments	C Active

Advanced Search

The advanced search enables on the results grid, the set of fields for which search filters can be selected, if they were modeled.

³ Favorite Searches

It allows to save the filters selected by the user and to administer them.

Clicking on the icon expands a panel with the list of saved filters and new filters can be added. Every time a search is selected, it is executed and the grid is updated.

It allows to check one of the searches as favorite, which is indicated by the icon \Rightarrow and can be deleted by pressing this icon.

 \star Indicates that the search was selected as favorite by the user.

Pressing the icon 1 to the left of a search, allows the user to indicate that as their favorite.



	plicant♥ Estimated Total♥ Esti				_	Saved searches		
Applicant	Estimated Delivery	Application Date		Organizational Unit	Status	Active Requests		-
Farias	07/04/2022	05/04/2022	7	System Departments	🔓 Acti			
Farias	23/03/2022	15/03/2022	6	System Departments	🔓 Acti	Save current search		
Farias	04/04/2022	01/04/2022	5	System Departments	🔓 Activ	3		
Farias	18/03/2022	16/03/2022	4	System Departments	🔓 Active	2		
Farias	10/03/2022	08/03/2022	3	System Departments	🔓 Active	2		
Farias	02/02/2022	07/04/2022	1	System Departments	🔓 Active	2		

📥 Data Download

Allows downloading the instances that are displayed in the results grid, either in total or those that result from applying a filter. The download can be made into an Excel or XML file, the latter is compressed with a .ZIP extension.

It is recommended to download more than 10000 instances, use the filters so as to do it in blocks.

i Columns Display

It displays a panel with the names of the grid columns. By means of a check mark, the user can activate or deactivate the display of each column. The set of selected columns is valid until the same user modifies it again.



Applicant	Estimated Delivery	Application Date	Request Id	Organizational Unit	Status Status	
Farias	17/11/2021	10/11/2021	8	System Departments	Inactive Inactive Organizational Organizational	
Farias	07/04/2022	05/04/2022	7	System Departments	Active	Onit
Farias	23/03/2022	15/03/2022	6	System Departments	Active	
Farias	04/04/2022	01/04/2022	5	System Departments	C Active	
Farias	18/03/2022	16/03/2022	4	System Departments	Active	
Farias	10/03/2022	08/03/2022	3	System Departments	Active	
Farias	16/02/2022	03/02/2022	2	System Departments	A Inactive	
Farias	02/02/2022	07/04/2022	1	System Departments	Active	

3.5.10.1.1. Search Filters

Selecting the advanced search icon T enables, on the results grid, the set of fields for which the different criteria can be selected to filter the form instances. Search criteria can be combined.

Applicant	Estimated Delivery	Application Date	Request Id	Organizational	Included 🗸					
Farias	17/11/2021	10/11/2021	8	System Departm	Search		-			
Farias	07/04/2022	05/04/2022	7	System Departm	A Inactive					
Farias	23/03/2022	15/03/2022	6	System Departm		Filter				
Farias	04/04/2022	01/04/2022	5	System Departmen	ts	Active				
Farias	18/03/2022	16/03/2022	4	System Departmen	ts	Active				
Farias	10/03/2022	08/03/2022	3	System Departmen	ts	Active				
Farias	16/02/2022	03/02/2022	2	System Departmen	ts	A Inactive				
Farias	02/02/2022	07/04/2022	1	System Departmen	ts	Active				

For each search criteria a value can be entered or selected from a list, to use it as a filter.

All the filters that are necessary can be added, each time one is added a new search is automatically executed that updates the task grid.

The filters applied in the search are highlighted where they were entered, each followed by an \times icon. By pressing such icon the corresponding filter is deleted and a new search that updated the task grid is automatically executed.

To remove all search filters, the icon \bigotimes must be pressed, which is located on the right of the last filter. This way the complete list of tasks is loaded again in the grid.



Filters

Numeric Fields

The value entered should be numeric.

- Search criteria:
 - Greater than
 - Greater equal to
 - Less than
 - Less equal to
 - Between
 - With Data
 - No Data

Alphanumeric Fields

Enter a text to search for. Search criteria:

- Contains
- Equal to
- Starts with
- Does not start with
- No Data
- With Data

Date Fields

Searches can be made using different search criteria.

- Options:
 - Today
 - Last 7 days
 - Current Month
 - Current Year
 - Last Month
 - Last Year
 - From (Requires selection of a start date)
 - To (Requires selection of an end date)
 - Range (Requires the selection of a start date and an end date)
 - Equal (Requires selection of a date)

DateTime Fields

A calendar opens to select the date and time, it can be filtered using different search criteria.

- From
- Until
- Equal
- Range

Value Lists Fields

The list values and the corresponding icons are displayed, if the <u>lcons</u> property has been modeled.. Search criteria:

- Included
- Not Included
- With Data
- No Data



3.5.10.2. Grild

The results and search grid allows viewing all form instances or those that are the result of having applied <u>search filters</u>. It is made up of columns and rows.

Columns

The results and search grid allows viewing different columns and by hovering over the name of each one it is possible to indicate its <u>behavior</u>, in the same way as in the tasks grid.

The columns displayed in the grid correspond to the form fields that were modeled by checking the <u>Included in Grid</u> property or else by modeling the design option <u>Grid and Filters</u>. If the field is related to a value list, in this design option, the content of the column is also modeled to be displayed with or without icons.

□ Applic ∓↑↓	cant K ×	Estimated Delivery	Application Date	Request Id	Organizational Unit	Status			
Farias	9	17/11/2021	10/11/2021	8	System Departments	A Inactive			
Farias	3	07/04/2022	05/04/2022	7	System Departments	Active			
Farias	5	23/03/2022	15/03/2022	6	System Departments	Active			
Farias	5	04/04/2022	01/04/2022	5	System Departments	Active			
Farias	3	18/03/2022	16/03/2022	4	System Departments	Active			
Farias	3	10/03/2022	08/03/2022	3	System Departments	Active			
Farias	3	16/02/2022	03/02/2022	2	System Departments	A Inactive			
Farias	5	02/02/2022	07/04/2022	1	System Departments	Active			

Send Email

If the <u>Send Emails</u> form property was modeled, a checkbox column to select instances is displayed on the left side of the grid. By checking the mark field in the grid header, all visible instances are selected. If there are more instances, a message is displayed giving the possibility of selecting all of them.



Applicant	Estimated Delivery	Application Date	Request Id	Organizational Unit	Status	
Farias	17/11/2021	10/11/2021	8	System Departments	Inactive	
Farias	07/04/2022	05/04/2022	7	System Departments	Active	
Farias	23/03/2022	15/03/2022	6	System Departments	Active	
 Farias 	04/04/2022	01/04/2022	5	System Departments	Active	
 Farias 	18/03/2022	16/03/2022	4	System Departments	Active	
Farias	10/03/2022	08/03/2022	3	System Departments	Active	
✓ Farias	16/02/2022	03/02/2022	2	System Departments	Inactive	
Farias	02/02/2022	07/04/2022	1	System Departments	Active	

Whenever an instance is selected, the icon is displayed \bowtie in the top bar.

Clicking this icon opens a panel where the following sections of an email can be configured:

- Cc
- Bcc
- Subject
- Message
- Attachments

< → 🛨		Home	O¥ ⊺asks	Calendars	Cases	O Messages	8+ Invite	-
lome					_		_	
Purchase Requ	Send Email			>	<	T. D	8	
Applicant	cc.							
Farias	ссо							
V Farias	Subject				1			
Farias	Julieu							
Farias								
V Farias	The proof of the transfer made is attached.							
Farias								
V Farias								
V Farias								
				Ø				
			_		.			
				Send			0	8

By pressing the icon 🥙 in the lower right corner of the panel, it is possible attach:

- A file-type or image-type form field, in this way the file contained in the field of each instance is sent in the corresponding email.
- A file from the user's device, it is sent in the corresponding emails to all instances.

The email addresses of the recipients are completed with the values entered in the text fields of the form where its <u>Content Type</u> property is email.



The sender email address used is the one entered in the user profile that is showing the form's results grid.

By pressing the "Send" button, emails are sent to all the selected instances of the grid. Each email sent becomes associated with its corresponding instance.

Rows

Each instance of the grid can be shown by clicking on the corresponding row, while hovering the cursor over it enables the icons \checkmark and \blacksquare allows updating or deleting operations respectively.

In the lower right margin there are number of instances loaded in the grid. This number increases as the scroll bar is scrolled vertically.

			Application Date	Request id	Organizational Unit	Status		
🗸 Fa	arias	17/11/2021	10/11/2021	8	System Departments	A Inactive		
🗸 Fa	arias	07/04/2022	05/04/2022	7	System Departments	Active		
🗸 Fa	arias	23/03/2022	15/03/2022	6	System Departments	Active		
🗸 Fa	arias	04/04/2022	01/04/2022	5	System Departments	Active	0-	Ø 🔟 >
🗸 Fa	arias	18/03/2022	16/03/2022	4	System Departments	Active	Ł	
🗸 Fa	arias	10/03/2022	08/03/2022	3	System Departments	Active		
🖌 Fa	arias	16/02/2022	03/02/2022	2	System Departments	A Inactive		
🗸 Fa	arias	02/02/2022	07/04/2022	1	System Departments	Active		

Display of Icons on Rows

The user can decide if they want to see the icons with the operations of the instances on the row.

- Display the available icons for each instance.

Hide the available icons for each instance.

Scroll Bar

By scrolling vertically, rows are incorporated in the grid, allowing scrolling up or down using a scroll bar.

3.5.11. Form Instances



Phase 2: Forms Modeling > Display form data

Form instances can be displayed by default or personalized.

The show of a form instance is made up of different sections.

Form Header

The elements displayed in the form header are modeled as general properties of the same.

- Descriptive Name
- Icon
- Description

↓ → 🛨				Home	O Tasks	Calendars	Cases	O Messages	8+ Invite	9
Home : Refunds Request Refunds Request Refunds Request Applicant				e	Refunds	Request 🤇	🖁 Case (1) 🔎	?	8
Name *	Sumame *			Organizational Uni System Departm						
Expenses to be reimbursed										
Date * Concept * 30/12/2021 Viats	Project	Currency * U\$S	Amount * 700,00	FILE No file				<		
Additional Information										
Comments										

Relations Area

The relations area allows to display the set of <u>entities that refer to</u> the instance being showed.

It allows the user to navigate among related entities. Each relation is represented as a different tab. Selecting a tab opens the related form grid where only the related instances are displayed.



ne > Account						
Account				🛱 Account	🖞 Contacts 🙄 Opport	tunities 👂 ? 🤇
Account			•			
go	Business Name *		Entrepreneur Group		Identification	Condition
	ACME Corp		ACME		30-0000000-1	Activa
	Owner *		Industry *	Origin	Opening Date	Annual Earnings
AX AM I E	Alex Farías		Retail	Web	28/04/2020	5000000
ORPORATION	Туре *	Business	Partner		Employees	Valorization
	Prospect				150	70
•	Description					
• -]	
	Owner Status	Id Account				
	Activa	1				
Emails		Sites and Social Netwo	orks	Phones		
lail	Туре	Website	Net	NUMBER		Туре
nfo@acmecorp.com	Laboral		Facebook			Personal

Fields Area

Containers and fields modeled on the form are displayed in the fields area. Their behavior depends on the <u>modeled properties</u> or on the definition of a <u>process activity execution</u> related to the form.

Home > Refunds Rec									
Refunds Regu	Request				🎮 Ref	unds Request	🖑 Case (1	2	? (
Applicant					Ş				
Name *		Sumame *			Organizational Unit *				
Alex		Farías			System Departments				
Date *	Concept *	Project	Currency *	Amount *	FILE				
30/12/2021	Viats		USS	300,00	No file			1	
 Additional Infe 	ormation								
Comments									

Operation Buttons

This section displays the buttons to perform operations on the form.

For each <u>operation on the form</u> instance, the buttons that are displayed vary according to the <u>security</u> <u>permissions</u> that the user has defined.



↓ → 🔁				Home	O Tasks	Calendars	Cases	O Messages	8+ Invite	۹.
Home > Refunds Request										
Refunds Request				E	Refunds	Request	7 Case (1)	2	?	Ø
Applicant										
Name *	Sumame *			Organizational Uni	t *					
Alex	Farias			System Departm	ents					
Expenses to be reimbursed Date * Concept * 30/12/2021 Viats Additional Information	Project	Currency * U\$S	Amount *	FILE No file				<		
Comments										4
							Dele	te	Update	

3.5.11.1. Personalización

When modeling the <u>properties of the form</u>, of its <u>fields</u> and its <u>containers</u>, it is possible to customize the display of the form instances.

Customization Tips

Different options for customizing forms are detailed below, indicating how to model different display properties for forms, containers and fields, so as to reach the desired result. All proposals are based on the Refund Request form.

Option 1

```
• Form Properties
   General Properties
      Position = Centered, Side Margin = 10.
• Applicant Container, Expenses to Reimburse Container Properties
   Border
      Top = 1, Right = 1, Bottom = 1, Left = 1, Color = #d4d4d4.
   Shadow
      X = 1, Y = 3, Blur = 6, Color = #d4d4d4.
   General Properties
      Background Color = white.
• Additional Information Container Properties
   Border
      Top = 1, Right = 1, Bottom = 1, Left = 1, Color = #d4d4d4.
   Shadow
      X = 1, Y = 3, Blur = 6, Color = #d4d4d4.
   General Properties
      Background Color = #e0f4ff.
```



Name *		Sumame *			Organizational Unit *		
Alejandro		Farias			Systems		
 Expenses to Reimburs 	e						
Date *	Concept *	Project	Currency * An	nount *	File		
17/02/2022 <	Cab	Updates	Dollar	3	Cab Receipt.png	<	08
Date *	Concept *	Project	Currency * An	nount *	File		08
17/02/2022 <	Lunch	Updates	Dollar	7	Lunch Receipt.png	<	•••

Option 2

- Form Properties
 General Properties
 Position = Centered, Side Margin = 10, Background Color = #e4f3e5.
- Container Properties

Border Top = 1, Right = 1, Bottom = 1, Left = 1, Color = #d4d4d4. Shadow X = 1, Y = 3, Blur = 6, Color = #d4d4d4. General Properties Background Color = white.

√ ∠ → ⊕						Home	asks	Calendars	Cases	Q Messages	8+ Invite	(·)) Conection
Home My Refunds 2	2											?
	Applicant		Sumame *			Organizational Ur	iit *					
	Alejandro		Farías			Systems						
	Expenses to Reimburse Date *	Concept *	Project	Currency *	Amount *	File						
	17/02/2022 <	Cab Concept *	Updates	Dollar Currency *	3 Amount *	Cab Receipt.png	I			8		
	17/02/2022 <	Lunch	Updates	Dollar	Amount *	Lunch Receipt.p	ng		<	8		
	Additional Information Comments The receipts have been at	tached.										
							Acces	я	Accept ar	nd Create		

Option 3



• Form Properties General Properties

Position = Centered, Side Margin = 15, Background Color = #f0ebf8.

• Container Properties

Border Top = 1, Right = 1, Bottom = 1, Left = 1, Color = #d4d4d4. Shadow X = 1, Y = 3, Blur = 6, Color = #d4d4d4. General Properties Background Color = white.

- Expenses to Reimburse Container and Additional Information Container Properties Expanded unchecked.
- Field Properties in the Applicant Container Label Position = Left.
- Checkbox Field Properties in the Informed Concepts Container Label Position = Left.

🕹 > 🕒				Long Hor	ne Task	s Calendars	Cases	Q Messages	8+ Invite	(c)) Conection
Home My Refunds 3										?
	Applicant	Alejandro Farías]						
	Organizational Unit *	97918119]						
	Additional Inform Additional Inform Informed Concept Transport		Trainings	Others						
				A	ccept	Accept and C	Create			

Option 4

- Form Properties
 General Properties
 Position = Default. Side Margin = 10, Background Color = rgba(241, 142, 0, 0.255).
- Container Properties
 Border

Top = 1, Right = 1, Bottom = 1, Left = 1, Color = #d4d4d4. Shadow X = 1, Y = 3, Blur = 6, Color = #d4d4d4. General Properties Background Color = white.



• Field Properties in the Applicant Container Label Position = Left.

My Refunds 4								Home	Tasks	Calendars	Cases	O Messages	8+ Invite	((·)) Conection
Applicant														
√ame *	Aleja	andro												
Surname *	Faría	10 C												
	1 di la	10												
Organizational Unit *	Syste	ems												
	urse													
)ate *		Concept *	Proje	ect	Currency *	Amount*		File						
Date * 17/02/2022	<	Concept *		ect lates	Currency * Dollar	Amount *	3	File Cab Rec	eipt.png			<	0	8
				lates		Amount *	3		elpt.png			<		
17/02/2022		Cab	Upo	lates	Dollar		3	Cab Rec	elpt.png			<	0	
17/02/2022	<	Cab Concept *	Upo	lates	Dollar Currency *			Cab Rec					0	
17/02/2022 Date * 17/02/2022	< <	Cab Concept *	Upo	lates	Dollar Currency *			Cab Rec					0	
17/02/2022	< <	Cab Concept *	Upo	lates	Dollar Currency *			Cab Rec					0	
17/02/2022 Date * 17/02/2022 Additional Informati	< <	Cab Concept *	Upo	lates	Dollar Currency *			Cab Rec					0	
17/02/2022 Date * 17/02/2022 Additional Informati	< <	Cab Concept *	Upo	lates	Dollar Currency *			Cab Rec					0	
17/02/2022 Date * 17/02/2022 Additional Informati	< <	Cab Concept *	Upo	lates	Dollar Currency *			Cab Rec					0	

3.5.11.2. Related Entities

When a form is shown, the relations modeled with other entities are displayed in the upper right section, with their names and the number of instances associated with each relation.

If the relation is with a single instance, the modeled <u>singular name</u> is displayed and, pressing this name will show that instance. If the relation is with more than a single instance, the modeled <u>plural noun</u> is displayed and, pressing this name opens the <u>results grid</u> of the related form.

Account				Home	Tasks Calendars Ca	es Messages Invite
Account				Account	🖞 Contacts 🙄 Opportu	nities (1) 🔎 🥐 🤇
Account			•			
ogo	Business Name *		Entrepreneur Group		Identification	Condition
	ACME Corp		ACME		30-0000000-1	Activa
	Owner *		Industry *	Origin	Opening Date	Annual Earnings
AXAME	Alex Farias		Retail	Web	28/04/2020 <	5000000
CORPORATION	Type *	Busir	ness Partner		Employees	Valorization
	Prospect				150	7
•	Description					
	Owner Status	Id Account				
	Activa		1			
Emails		 Sites and Social Net 	etworks	 Phones 		
Mail	Type	Website	Net	NUMBER		Туре
info@acmecorp.com	Laboral		Facebook			Personal

See Relations

This icon is displayed when the number of related entities occupy a space greater than that available in the upper line. When pressed, it shows a panel with the related entities.



Use of Context Menu in Related Entities

The <u>context menu</u> adopts the general characteristics of the portal but adapted to the related entities.

The default values in the new instance take the content modeled in the <u>value match</u> panel.

Icons Menu

On the <u>icons menu</u> there are icons corresponding to the related entities to which the user can create a new instance.

					<u></u>	Account	🖞 Contacts 🖓 Opportur	ities(1) 🔎 💡 🤇
account	Business Name *		Entrepreneur Group				Identification	Status
	ACME Corp		ACME				30-0000000-1	Active 🗸
	Owner*		Industry *	Origin			Opening Date	Annual Earnings
NOME	David Cano	<	τv	✓ Wet		~	29/10/2018 <	5.000.000,00
CORPORATION	Type *	Business	Partner				Employees	Valorization
CORFORATION	Prospect	✓ Туре уоц	ur search			<	150	70
Emails		 Sites and Social Netwo 	rka		P	hone No.		
	Type*							Type
	Laboral 🗸 🕈			~	8			lype
Addresses								
fail info@acmecorp.com	Type *	Web Site	Net		S Num	iber		Type

Expanded Menu

On the <u>expanded menu</u> panel there are options corresponding to the related entities to which the user can create a new instance.



🌜 > 🚯 🤇				Q						Home	Tasks Ci	alendars C	🖨 Cases I	O S Messages In	3+ 🧕
Home > Cuentas	Asociadas a ACME Contact	Corp											•	₽ ?	8
Account	Opportunity														
Logo	Budget					Entrepreneur Grou	p				Identification		Statu	s	
	Nota de Venta					ACME					30-00000000	-1	Act	ive	~
	Account					Industry *		Orig	gin		Fecha Apertura		Annu	al Earnings	
ACHI	Contract				μ.	TV	~	W	/eb	~	29/10/2018	<		5.000.0	00,00
CORPORATIO	Most Used		-		ess F	Partner					Employees		Valor	ization	
	Permissions				your	r search				<		150			70
@ t7 @	StatefulObject	Relation													
 Emails Mail 		Туре *		Sites and Social Ne Web Site	etworl	ks	Net			Phone No. Number				ype	
info@acmecorp.com		Laboral V	8	web site			Net	~	8	Number			- 1	ybe 🖌	8
Addresses Address				City				v		State					
Country				Туре		× 08									

3.5.11.3. Operations

The buttons for form instances operations are enabled by hovering over each line of the <u>results grid</u>, except for the create operation, which starts with the icon **t** corresponding to the <u>context menu</u>.

To perform operations on form instances, the form should not have <u>related processes</u> defined in the modeling or otherwise, the <u>Process Variable</u> property should not be selected.

Create

The user can create a new form instance by entering the values in the fields, pressing any of the available buttons they create an instance and the user receives a message indicating that data was saved. The <u>validations</u> defined for the form and each of its fields are executed.

								Applicant
			Organizational U			Surname *		Name *
		artments	System Departr			Farías		Alex
00	<		FILE Select a file	Amount * 300	Currency * U\$S	Project	Concept * Viats	03/01/2022
							nation	Additional Info
							nation	Additional Info

Buttons



- Accept: confirms the creation of a new form instance.
- Accept and Create: confirms the creation of a form instance and a new panel opens to create another one.

Show

Opens the selected form instance. Fields are displayed as non-editable and depending on the user's security permissions, the buttons available to operate with the instance being shown are enabled.

If the <u>Send Emails</u> form property is modeled, the following is displayed:

- An option to select sent emails, in the relations area.
- An option to send emails, in the context menu.

↓ < → (•				Home	9_:; Tasks	Calendars	Cases	O Messages	8+ Invite	
Home > Refunds Req											
Refunds Refunds Requi	Request								2	? 🔇	
 Applicant 											
Name *		Surname *			Organizational Uni	it *					
Alex		Farias			System Departm	ents					
 Expenses to be 											
Date *	Concept *	Project	Currency *	Amount *	FILE						
03/01/2022<	Viats		U\$S	300,00	No file				<		
 Additional Info 	rmation										
Comments											

Buttons

- <u>Update</u>
- Delete

Send Email

By selecting in the <u>context menu</u> the icon or the option "Email", a panel opens and allows to send an email, which becomes associated with the form instance that is being shown. The email addresses of the recipients are completed with the values entered in the text fields of the form where its <u>Content Type</u> property is email. The sender email address used is the one entered in the <u>profile of the user</u> viewing the form.



	cco	Emails 4	🖑 Caso (1) 🔎	
Applicant Send Email To* Corr	cco			
Alex	cco	-		
	cco	-		
Expenses to be reimbursed Subject				
Date * Concept *				
30/12/2021 Viats Message			<	
Additional Information	•			
Comments				
		-		
		Delete	Update	Print
	Ø			
Send				
	_			

Update

Opens the selected form instance with those fields that can be updated, as editable. To update, press the "Accept" button and the user receives a message indicating that data was saved. The <u>validations</u> defined for the form and each of its fields are executed.

If the <u>Send Emails</u> form property is modeled, then in the <u>relations area</u>, the option to select sent emails is displayed.

				Home Tasks Ca	lendars Cas	es Messag	es Invite	< ()
Applicant								
Name *	Surname *			Organizational Unit *				
Alex	Farías			System Departments				
Expenses to be reimbursed Date * Concept * 03/01/2022 Viats	Project	Currency *	Amount * 300,00	FILE Select a file		<	00	
Additional Information								
Comments								
							Accept	

Delete

Opens the selected form instance and its fields are displayed as non-editable. To delete, press the "Accept" button and the user receives a message indicating that data was deleted.



A form instance cannot be deleted if it is related to a case.

Refunds Refunds Requ	est				
Name *		Surname *		Organizational Unit *	
Alex		Farias		System Departments	
03/01/2022	Viats		U\$S 300,00	No file	< 0 0
	ormation				
 Additional Info Comments 					

3.5.11.4. Printing

To print a form instance, it has to be modeled with the <u>Printable</u> property enabled. This displays the "Print" button when a form instance is shown, along with the buttons for other operations.

< → (Ð				Home	O Tasks	Calendars	Cases	O Messages	8+ Invite	-
Home > Refunds Requ					🔟 Refunds R	equest 🖂] Emails <i>-</i>	🤊 Case (1		?	8
 Applicant Name * 		Surname *			Organizational Un	it *					
Alex		Farías			System Departm	ents					
 Expenses to be Date * 30/12/2021 	reimbursed Concept * Viats	Project	Currency *	Amount * 300,00	FILE No file				<		
Additional Infor	mation										
							Delete	Up	idate	Print	

Pressing the "Print" button gives access to print the form in the browser.



I.

Refunds Reque	Refunds Request						Print		1 page	
	Applicant						Destination	Save as PDF	*	
Applicant	Name *	Sumame *		Organiza	tional Unit *	_		-		
Name *	Alex	Farlas		System	Departments	_	B	All	Ψ.	
Alex	Expenses to be reimbursed						Pages	All	*	
	Date * Concept *	Project	Currency*	Amoun	FLE					
	05/0 Vists		U.S. Dollar	700,0	No file		Layout	Portrait	*	
 Expenses to be reimbut 	Additional Information					_				
Date * Concep	Comments									
06/01/2022 Viats							More settings		~	
00/01/2022										
Additional Information Comments										
Θ										
-										
								Save	Cancel	

It is recommended to select Horizontal Layout and Scale to 80%.

To extend the default behavior of printing, the <u>modifyPrint()</u> function should be defined in the advanced editing of the form.

3.5.11.5. Validations

Field validations allow to control data format, fields behavior, and the business logic when using form instances, so that incorrect or invalid data for the business is not entered.

Data Format Validations

This validation is carried out implicitly for all form fields and controls that the format of the data entered by users is correct for each field.

Example

If a date does not verify the MM/DD/YY format, the user receives an alert message.

Crase ☑ Emails ● ↓ ● ↓ Organizational Unit * System Departments	Sumame *	Home · Refunds Request Colobal) Refunds Request Applicant
		Applicant
System Departments		Name *
	Farias	Alex
Currency Amount FILE U.S. Dollar 1.000,00 Select a file < 💿	Project	Date Concept 02022022 < Viats
U.S. Dollar V 1.000,00 Select a file C S		02022022 < Viats
		The Date must have a valid format.
		Comments
		Sonninenta



Required Validations

This validation verifies that data is entered in the required fields. In other words, a form instance cannot be created if the <u>required</u> input fields were not completed.

A required field is indicated by a red asterisk to the right of the label.

Example

If the Concept field is not completed, the user receives an alert message.

Perfunds Request				Home	Tasks Calenda	ars Cases Mer	Sages Invite
e > Herrunds Hequest Evaluate request (Global) Refunds Request v1 - Evaluate request				<	🕈 Case 🖂 Email:	s 🗩 📀	i 📎
Applicant							
ne *	Sumame *			Organizational Uni	t *		
ex	Farías		System Departme	ents			
e Concept /02/2022	Project	Currency U.S. Dollar	~	Amount 1.000,00	FILE Select a file	<	08
The Concept Is required							
nments							

Logic Validations

Logic validations verify that the entered fields comply with the conditions modeled in the form by means of the <u>field validation</u> or <u>form validation</u> properties.

› 🕂				Home	Tasks	Calendars		O 8+	
ne > Refunds Request									
Global) Refunds Request v1 - Evaluate request				5	🖁 Case 🖂	Emails	P [i 📎	T
(olobal) herands heldebt + - Evaluate request				∆т		cannot be g			
Applicant									
ame *	Sumame *		Organi	izational Uni	it •				
Jex	Farías		Syste	em Departm	ents				
tte Concept 4/02/2022 Viats	Project	Currency U.S. Dollar	Amour	nt 8.000,00	FILE Select a	file	<	• •	
Additional Information									
omments									



3.5.12. Forms Elements

A form is made up of a set of fields, containers and graphic elements, which are defined by <u>modeling</u> <u>the form</u>.

When using the form, the fields and containers are displayed according to the properties modeled for each one.

- Fields
- Containers

3.5.12.1. Fields

When using the form, the user visualizes the form fields, according to the properties modeled for the different types of fields. Each of them has been included in the form from the <u>controls bar</u>.

Types

Rich Text

The <u>rich text type</u> control has an area for entering and modifying the text and different styles can be used. The font size, as well as applying underlining, bold and colors, among other options can be changed.

Rich Text

Font	~	Size 🗸	Ж	₿ <u>₽</u>	ĉ	B	I	U	≣	≣	≣	4 2 2	E	ŧ	•	T	æ		T≣

Date Picker

A date picker becomes visible when using a <u>date type</u> control. It allows to select the day, month and year, easily completing the field.



04/01/	/2022								
<		January 2022							
Мо	Tu	We	Th	Fr	Sa	Su			
27	28	29	30	31	1	2			
3	4	5	6	7	8	9			
10	11	12	13	14	15	16			
17	18	19	20	21	22	23	-		
24	25	26	27	28	29	30			
31	1	2	3	4	5	6	llar		

Date and Time Picker

A date and time picker becomes visible when using a <u>date type</u> control. It allows to select the day, month and year, easily completing the field.

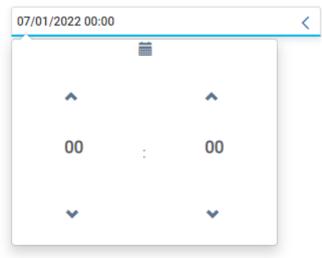
Pressing the icon 🕑 allows to update hours and minutes. To return to date, press the icon 📛.



Date and Time

07/01/	/2022 0	0:00					<
<		Jan	uary 2	022		>	
Мо	Tu	We	Th	Fr	Sa	Su	
27	28	29	30	31	1	2	
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	
31	1	2	3 ©	4	5	6	

Date and Time

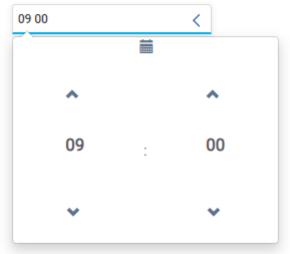


Time Picker

A time picker becomes visible when using a <u>time type</u> control. It allows to select hours and minutes.







Image

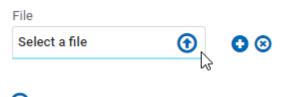
To enter an image into an <u>image type</u> control, use a picker that is in the lower right part of the image field. Pressing this picker opens a panel for selecting a file from the user's computer.





File

A <u>file type</u> control allows a file to be incorporated into the form from the user's computer or stored in Google Drive. If more than one file is to be incorporated, multiple occurrences should be modeled.



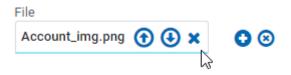
Open the window to select one or more files.

Generate a new occurrence to attach files.

😢 Delete a file occurrence.



Once a file has been entered, operations on it can be performed.



- Replace the file by another one.
- Ownload the file to your local computer.
- × Delete the file from the form instance.

Check

A <u>check</u> control represents logic information, being able to take "YES/NO" values. When the control is selected, the field takes a true value and its content is "YES", otherwise it takes a false value and its content is "NO".



It can be displayed in toggle format if the **Display** field property was modeled.



If the field is included in the results grid, its content is represented with "YES/NO" values in the corresponding column.

, funds Rea	uest 2 🖄 🛛	Search Q T				
Name	Surname	User	Organizational Unit	Search Q T 🛓		
Alex	Farías	Alex Farías	System Departments	2 No		
Alex	Farías	Alex Farías	System Departments	1 No		

If it is used as a search filter, "YES/NO" values can be used.



nt V Date V Conce	ept User Name Surname	 Organizational Unit Reque 		
Name	Surname	User	Organ No t	Request Number Active
Alex	Farias	Alex Farías	System Departments	2 No
Alex	Farías	Alex Farias	System Departments	1 No

Value List

The fields represented by this control propose the value list defined when modeling the field,

Currency *	
U.S. Dollar	~
U.S. Dollar	
European Euro	
Yen	
Pound	
Franc	

3.5.12.1.1. Predetermined Values

When modeling a form, <u>predetermined values</u> can be defined for their fields. When creating a new form instance, these fields are displayed automatically filled in with such value.



k > 🕂				Home	10	Calendars	Cases	р Message	s Invite	9
Home Refunds Request										?
▲ Applicant										
Name *	Sumame *		Organ	izational Un	it *					
Alex	Farias		Syste	em Departm	ents					
Expenses to be reimbursed Date * Concept * 04/01/2022	Project	Currency * U.S. Dollar	Amou	nt * 0,00	FILE	a file		<	08	
Additional information Comments										
						Aco	ept	Accept	and Create	

3.5.12.1.2. Autocomplete Fields

The fields modeled as autocomplete supplies a set of values that coincide with what the user starts to type in the field. In this way, the supplied values vary based on matches with earlier typed values

Example

When entering the letter "p" in the field, only users that contain that letter in some position can be selected.

Users	
p	<
Valentine Pearson	
Jack Perry	
Xavier Paz	
Deyel Optaris	

3.5.12.1.3. Related Fields

When modeling a form, the fields with relations to entities, value lists and rules can be defined.

Single Selection



The values obtained from a modeled relation are displayed as a scrolled list, where the user can select one of them.

Users			
alex			<
Alex Farías			

Multiple Selection

The fields modeled with a relation to a rule can be defined as multiple selection, using the <u>Multiple</u> property. Modeling this property allows to select more than one value from a scrolled list, holding down the 'CTRL' key while the items are being selected.



Filter Selection

A field filtered by a value selected in another form field allows the value list of related fields to become variable, depending on the value initially selected.



											L
Personal Info	ormation		Surname *			FILE					
llex			Farías								
pe	Identification No.		Jobr Identification		Organizational Un	it *		Position			
					System Departm	ents					
cess Card		Fecha de Naciment	0	Sex	Marital status	Level of Education		Nationality			
			<								
Información	Laboral										
intract Type		Incoming Date		Date of Terminat	ion	End Date					
			<		<		<				
Addresses -											
ldress Type		Street			NUMBER	Department		Neighborhood			
											0 8
untry			State			City			Postal Cod	e	
			Kansas								

Relation with Entities

When using the form, in the fields modeled with <u>relation to an entity</u>, an indicator is displayed and when hovering the mouse over the field, this enables a set of icons to perform different actions.

: > (+)		An A	Dessages Invite
me 을 Create request			3
Vacation Request			
ame *	Sumame *	Organizational Unit *	
Alex	Farías	System Departments	
ser Start Date *	End Date *		
Additional Information			
omments			
			li li

× Clear Field

It allows to delete the value entered in the field.

Q Select

It allows to search and select instances of entities to which the field is related. Pressing this icon opens a new window with the results grid of the related entity.

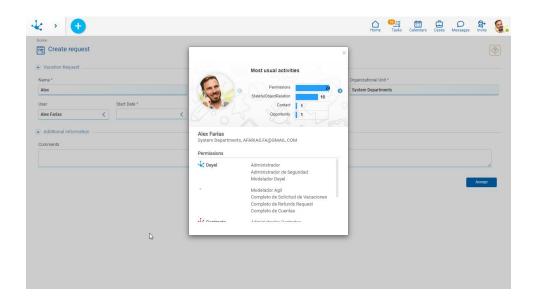
🔍 Show

It allows to see the data of the entity related to the field, opening a new window with the corresponding related entity instance.



Example

If the related entity is the user, a window with the information of the user informed in the field is opened.



Filtered Entities

When filtered entities are modeled in forms, the values displayed from the magnifier in the show depend on the <u>filter</u> that has been modeled.

Example

The values available for the user field are filtered by sales, the previously selected organizational unit

↓ → +		Home	10 Tasks	Calendars	Cases	O Messages	8+ Invite	.
Home Create request								3
Vacation Request Name * Alex	Sumame *	Organizational Un System Departm						
User Start Date * Type your search	End Date *	cycen begann						
Comments							11	
							Accept	

3.5.12.1.4. Attached Files



Files from different sources can be used when using the form. To <u>attach more than one file</u> the field should be modeled within a multi-occurrence container.

Solicitante	Subir Archivos 📮				×		_	
Nombre *								
Apellido *								
Estado								
Abiertas								
		s	selecciona archivos desde tu equipo					
🔺 Gastos a Reintegrar 💷			duit -					
Fecha * Concepto								
06/04/20¢2						< 0 8		
 Información Adicional 								
Observaciones			Can	celar Insert	ar			

Attach Files from User's Computer

It allows to open a window where files can be selected from the user's computer, or by using the "Drag and drop" facility if it is necessary to attach multiple files.

Attach Files from Google Drive

It allows to open a window to select a Google account of the user and then the file or files to attach.

The user should have the access permissions for the information stored in this service. The administration of Google Drive permissions is external to **Deyel**. If the user is not logged in, a window opens to enter the Google Drive username and password.

When the user connects from **Deyel** to Google Drive for the first time, an additional window opens to authorize **Deyel** to securely access their data. The "Advanced configurations" option should be selected to allow access.

Attach Files from One Drive

It allows to open a window to select a Microsoft account of the user and then the file or files to attach.

The user should have the access permissions for the information stored in this service. The administration of Microsoft OneDrive permissions is external to **Deyel**. If the user is not logged in, a window opens to enter the Microsoft username and password.

3.5.12.1.5. Audit Fields



A form may have some or all of its audit fields visible, or not, but they cannot be edited by the user since they are completed automatically.

√ ∠ →				Home	Tasks	Calendars	Cases	O Messages	8+ 🤤
Home > Contact								9	?
Contact Sumame *		Name *							
Logan Position *		Oliver	Status	Instance Owner					
Sale		Contact	Active			<			
Phone No.									
NUMBER	Type Personal								
 Emails 									
Mail		Type Personal							
Last Update User AFARIAS	Creation User	Date Last Modified 15/02/2022 11:11	Creation Date 05/01/2022 17:28]					
				-			Del	ste	Update

Audit fields can be present in the results grid and be part of the search filters regardless of whether they are visible in the form.

 Surname 	e♥ Industry♥ Code♥	Status 🗸 Creation Us	er✔ Creation Date✔ Las	t Update User V Date Last M	odified 🗸			
Name	Sumame	Status	Creation User	Creation Date	Last Update User	Date Last Modified		
	Taylor	Activo	AFARIAS	05/01/2022 18:38	AFARIAS	05/01/2022 18:38		
	Wilson	Activo	AFARIAS	05/01/2022 18:37	AFARIAS	05/01/2022 18:37		
	Logan	Activo	AFARIAS	05/01/2022 17:28	AFARIAS	05/01/2022 18:35		
			L					

3.5.12.1.6. Instance Owner Field

An instance owner field has an implicit <u>relation to the entity</u> "User". It is displayed like any <u>field related</u> to an entity of the form.



k > 🛨					Home	Tasks Cale	ndars Ca	ases Message	s Invite
Home > Contact									
Contact									?
Contact									
Surname *		Name *							
Position *		Туре	State		Instance Owner		٦ C		
		Contact 🗸	Active	~	Alex Farias	⊚ Q ×			
					L	L3			
Account									
Business Name		Annual Earnings	Employees Industr	v					
Type your search	<		Bank		~				
 Additional Information 									
Origin Valor	ization								
Campaign 🗸									
Phone No.									
NUMBER Type									
Lat									
Los		08							
 Emails 									
		_							
Mail		Туре							
		Labor 🗸	• •						

3.5.12.2. Containers

<u>Containers</u> group a set of elements within a form instance. When modeling the form, different types of containers can be defined, each with its display characteristics.

• Single Container

It allows grouping elements and modeling the visibility of form sections, according to business rules.

• Graphic Container

It also allows grouping elements and modeling the visibility of form sections, according to business rules. When executing the form, graphic containers can be seen expanded or collapsed, this behavior can be modeled in the form or in the process activities that use it.

• Multiple Occurrences Container

It allows generating multiple occurrences of the fields that are within it. It can be modeled as visible or not visible according to business rules.



ame *		Sumame *		Organizational Unit		
llex	Farias		System Departments			
6/01/2022			U.S. Dollar 🗸	0,00	Select a file <	• •
ite * Concep	ot*	Project	Currency *	Amount *	FILE	• •
6/01/2022			U.S. Dollar 🗸	0,00	Select a file <	
Additional Information						

3.5.13. Reports

Reports allow users to get detailed information on one or more <u>related entities</u>, with different output presentations.

Their design has a self-explaining wizard for the selection of the main entity and its related entities, its fields, filters, presentation and permissions.

The execution of reports can be done in the foreground or be received by chat or email.

Reports can be:

• Application Reports

They are modeled and published through the <u>reports modeler</u>, by IT modeler users. They can be customized and executed by all users from the <u>portal grid</u>.

An application report can be saved by a user with a different name using the "Save As" operation and it automatically becomes that user's own report.

• User Reports

All users can design and execute their own reports using customized information and output format preferences from the <u>portal grid</u>.

They can use a wizard equivalent to the one used by the <u>reports modeler</u> by modeling a subset of properties and using the facility to save the report instead of publishing it.

A user report can be saved with the same name using the "Save" operation or with a different name using the "Save as" operation.

This type of report is only visible in the grid of the user who created it, that is, it can only be modified and executed by such user.



↓ → 🕂 💾 v Save	Properties Publish		🛆 🚉 🛅 🖨 🔎 😫
Customers with sales	s opportunities •		① Design Guide
Definition Entit	ry Fields Filters	Publish	
1. Complete the report definition	ID DESCRIPTION fame 4 Hold Bace 1st 1st 1st 2st 2st 2st 2st 2st 2st 2st 2st 2st 2		<section-header><section-header><text><text><list-item><list-item><list-item><list-item><section-header><section-header><text></text></section-header></section-header></list-item></list-item></list-item></list-item></text></text></section-header></section-header>
A Home 🗟 (MYAPP) Customerswithsalesopp	ontrolle x		

3.5.13.1. Grid

To create and perform operations on reports, access the grid from the <u>menu</u> of **Deyel**.

- From the "Reports" option.
- From the <u>search</u> facility.

Reports are displayed in the form of a grid, with the standard presentation of the <u>results grid</u>, using the following facilities:

- Search and Filters
- Operations

earch		Home				
earch	<u>Q</u>	Reports 6 2			Search	Q [
Deyel Modeler		Name♥ Description♥ Entity♥ A	Application V Modified V			
bejermödeler		Name	Description	Application	Entity	Modified
🔰 Agile Modeler		Active contacts in clients	Obtain active contacts in clients.	МуАрр	Contact	06/06/2022 15:25
Forms and Tasks		Active customer contacts with number of employees	Active customer contacts with number of employees greater than a value	МуАрр	Contact	06/06/2022 15:34
Deyel CRM	~	Contacts in clients with email address	Retrieve all customer contacts with their email addresses.	МуАрр	Contact	06/06/2022 16:05
Deyel Contracts	~	Customer with Sales Opportunity	Get all active customers with leads in the current year.	МуАрр	Opportunity	03/06/2022 17:20
L BAM and Analysis	~	Customers with sales opportunities	Customers with sales opportunities	МуАрр	Opportunity	06/06/2022 10:45
Reports		Opportunities of a contact	Get all the opportunities of a certain contact.	МуАрр	Opportunity	06/06/2022 15:41
Configuration	~					
oomgaraaon						

The following <u>report properties</u> are displayed as grid columns:

• Name



- Description
- Application
- Entity
- Modified

Filters can be applied by the following properties:

- Name
- Description
- Entity
- Application
- Modified

It is possible to perform <u>operations</u> on each row of the reports grid. Through icons \checkmark , \bigstar and \blacksquare its update, generation or deletion is performed respectively, depending on the <u>type of report</u> and the <u>security permissions</u>.

3.5.13.2. Operations

The user can perform operations on each report depending on the <u>type of report</u> and the <u>security</u> <u>permissions</u> they have defined. Hovering the cursor over each row of the <u>grid</u>, icons corresponding to the available operations are displayed.

With the exception of the operation "To create", which can only be done for user reports. It can be done from the <u>context menu</u> in different ways.

- Hover over the icon 🛨 and select the icon to your right 🕮 corresponding to the option "Report".
- Click on the icon 💆 and select the option "Report" in the expanded vertical panel.

Update

By clicking the icon *in* the line of the selected report, the modeling wizard opens for the user, allowing updates to be made to the values entered for all steps.

If it is an application report, the user has the possibility to save it with another name, while if it is a user report, they can save it with the same name or change it. They can also update it, execute it and not save the changes. Updates to application reports cannot be published by the business user.

Generate

By clicking the icon \leq to generate a report, a panel opens where the modeled filters for data selection are displayed.



ports 6 2		Generate Report		×	ch	Q
e	ation~			Generation Guide		
Name	De	Filters		You are now ready to generate the result of the selected report.	Modified	
Active contacts in clients	Ob	Estimated Closing (MyApp - Opportunity) From 01/01/2022	۲	In the list you can see which are the filters that will be applied for the selection of the data,	06/06/2022 15:25	
Active customer contacts with number of employees greater than	Ac	Status (MyApp - Customer - customerOpportunity) Included Active	۲	where: 1. Filters that are fixed are	06/06/2022 15:34	
Contacts in clients with email address	Re			displayed for your information. 2. Filters that are modifiable are indicated with <i>J</i> . You can edit	06/06/2022 16:05	
Customer with Sales Opportunity	Ge			them by clicking on the filter and entering the values you want. These entered values will	03/06/2022 17:20	
Customers with sales opportunities	Cu			be saved for the next generation. You must select how you want	06/06/2022 10:45	
Opportunities of a contact	Ge			to generate the report. This will run in the background and, when finished, the link to download it will arrive via chat or email.	06/06/2022 15:41	
		Generate and inform by chat Generate and inform by email				

A build guide is displayed on the right side of the panel to assist the user.

Filters that were modeled as editable are indicated by the icon i and they can be updated before generating the report and the new filter criteria entered are defined for the report. On the other hand, filters that were modeled as non-editable can only be informed.

• Generate and inform by chat

If this option is selected, the user receives a notification from Deyel Bot with a compressed file to be downloaded, containing the report in the modeled format.

• Generate and inform by email

If this option is selected, the user receives an email with a compressed file, containing the report in the modeled format.

Clicking the "Generate" button starts the execution of the report in the background and at the end the user is informed according to the selected method.

An icon 🐸 on a report row in the grid indicates that it is executing and if this icon is pressed, the report can be stopped.

The file name that the user receives is made up of the name of the report concatenated with the extension associated with the selected format.

Delete

By clicking the icon **I**, a confirmation window is displayed on the selected report line and upon accepting, the user receives a message indicating that the report has been deleted.

Only user reports can be deleted.

3.6. Agile Forms



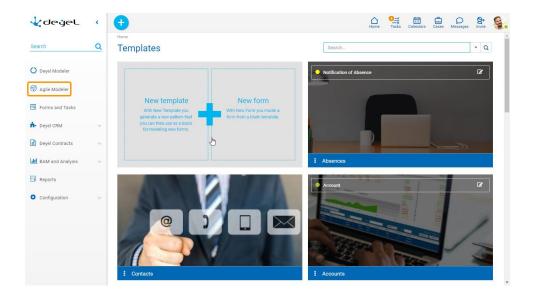
Phase 1: Introduction to Deyel > Agile Modeler - Introduction

Agile Forms is a platform for creating and maintaining forms-based applications and business processes immediately.

Business users of a company can define their web forms from the <u>agile modeler</u>, starting from templates from an existing gallery or making their complete design, adapting them to the needs of the business, adding a process to them, as well as defining access permissions and their visibility, they are finally published for use.

This way, a large number of business processes that are currently based on paper documents and manual tasks can be easily automated and optimized. Examples of this type of applications range from the authorization of invoices and proof of expenses to requests of various types, show forms, surveys and records, among others.

The use of the agile form from the option corresponding to <u>forms and tasks</u> of the menu, allows users who participate in the process to complete information, approve or reject from their to do list or use the business social network to comment on each instance.



3.6.1. About Agile Forms

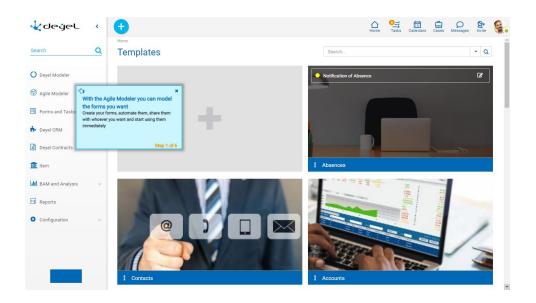


Phase 1: Introduction > Agile Modeler - Part 2

Here are the steps to quickly create agile applications by using a wizard and how to execute them.

A <u>tour</u> guiding the modeling of the first form is available to facilitate the experience with the agile modeler.





Steps for Creating Agile Applications

Step 1: Model Form

Select one of the existing templates in the gallery to create an agile form, which contains a set of predefined fields and sections. The form can be adapted to the user's needs, modifying its chart elements, incorporating relations and business rules.

	-(<u>A</u>)(~~)		Purchase of : AFA	Request
del Form 🛈			Form Preview	Fields Grid/Filters
Purchase Request Request 10% Phone Number	Application Date * Delivery Address	Applicant ※ 년 Estimated Delivery	Organizational Unit ※ 년 Online User	
Justification	*	*	£ © \$	
Items				

Step 2: Model Process

Associate a process to the form, linking it to one of the predefined processes, where participants can be defined and conditions allowing to determine the flow of data and their visibility can be created.



↓ → 🕂				Home	Tasks Calendars Cases Mes	D 8+ 🤹
					Dratt Purchase Request of : AFARIAS	
Model Process () Model the associated proce	ss with the form using '+' or	select one of the templates	as a starting point			
+	└ <u></u>			<u>ٺ</u> صص 		
	One Level Approval	Two Levels Approval	Two Levels Simultaneous Approval	2 Levels Sequential Information Collection	2 Levels Simultaneous Information Collection	
å-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o						
3 Levels Information Collection						

Step 3: Define Permissions

Allow the use of the form to users or groups within the organization for show, update and deletion.

√ ∠ → (+)	Home 🄐 🛅 🖨 🔎 Straight 🎼
	Phätehed Phätehed Constant Constant
Define Permissions ①	
Show Create and Update Delete Search users and offices	
The Farias	
A Home 🗮 (GLOBAL) PurchaseRequest 🗙	

Step 4: Share Form

Share the form by spreading its functionality through email or the business social network.



- √ ∠ → (+)	Home Tasks	Calendars Cases Messages	St State
share Form ① invite the people you want to use the Form			
Search users, offices and roles to notify			
Image: Second			
Message:			
The Purchase Request form is now ready to be used.			
Select broadcast mode Email Tedo			
A Home			

Step 5: Publish Form

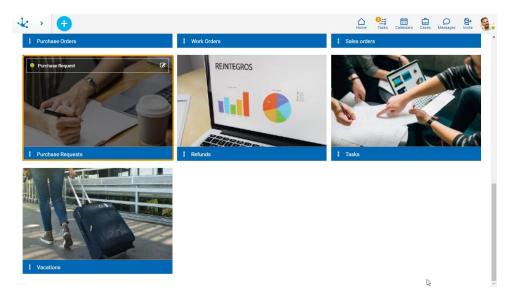
Publishing the agile form implies its release and communication for its use. Once published, the form can be used by the participating users according to the permissions granted both at the level of the form and of the process if it has one associated.



Execution of Agile Applications

Once published, the form can be used by the participating users according to the permissions granted both at the level of the form and of the process, if it has one associated. Its execution is made from the option corresponding to <u>forms and tasks</u> from the **Deyel** menu.

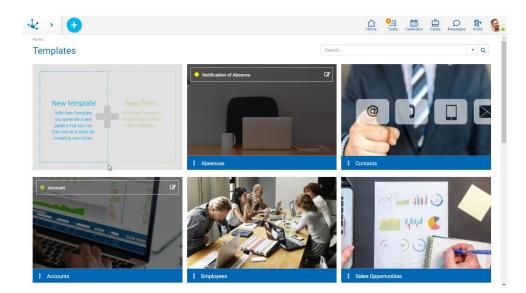




3.6.2. Agile Modeler

The agile modeler is made up of a templates gallery. The first element allows to start new designs of templates and forms, while the following ones correspond to previously defined templates and forms. The elements identified with a blue bar correspond to templates, while those identified with a green bar correspond to forms without a template.

Each element of the gallery allows to perform different actions depending on what it represents, the different possibilities are described below.



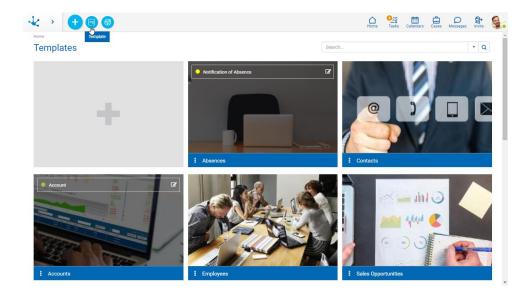
New Template

From the <u>context menu</u> a <u>template can be created</u> from its own design, which can be used to define agile forms based on it.



The creation can be done in different ways.

- Selecting the "New Template" option in the first element of the gallery.
- Hover over the icon 🛨 and select the icon on its right 🦳 corresponding to the "Form" option.
- Click on the icon 🛨 and select the "Form" option, on the vertical panel expanded.



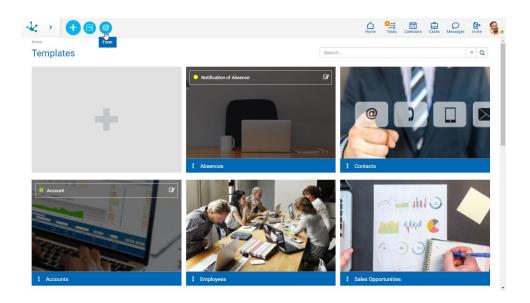
New Form

From the <u>context menu</u> an <u>agile form can be created</u> from your own design, that is, without using a pre-existing template. Such design is done using the facilities of the <u>form modeler</u> from **Deyel**.

The creation can be done in different ways.

- Selecting the "New Form" option in the first element of the gallery.
- Hover over the icon \bigcirc and select the icon on its right 0 corresponding to the "Form" option.
- Click on the icon ڬ and select the "Form" option, on the vertical panel expanded.





Template

From a template of the gallery, identified with a blue bar, <u>an agile form based on it</u> can be created.

Element Sections

Form Rows

If the template has defined agile forms based on it, these are displayed in different rows within each element. Each form is identified with the property Descriptive Name defined in the <u>agile form properties</u>, at the time of its creation.

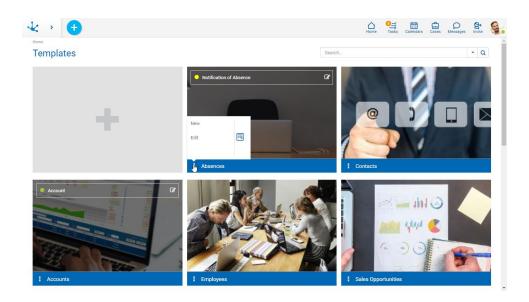
On each line, the following icons can be displayed:

- 🗹 Allows to edit the agile form.
- Description of the form is not published and allows to delete the agile form.
- State Identifier: The <u>form state</u> indicates the stage of development in which it is found and is identified by a color.
- Coll If a template has a number of forms defined greater than the one that can be displayed within an element, the user can move forth and back in the list to the right and left by using this icon.

Menu 🗄

- It allows to display the actions available for the template.
- <u>New</u>: Allows to create a new agile form based on the template.
- Edit: Allows to modify the predefined template.
- Delete: The template can only be deleted if all forms based on it have been deleted, this is done from the <u>identification box</u> of each of them.





Form

From a form gallery, identified with a green bar, this can be edited. Such form has been created from an own design, that is to say that it is not based on a template.

Element Sections

State Identifier

The form state indicates the stage of development in which it is found and is identified by a color.

Menu 🗄

It allows to display the actions available for the form.

- Edit: It allows to modify the existing form.
- Delete: The form can be deleted only if its publication has been deleted, this can be done from the <u>identification box</u>.

√z → (🛨	Home Tasks	Calendars Cases Messages Invite
		Published C C
share Form ③ invite the people you want to use the Form		
Search users, offices and roles to notify		
Image: Second		
Mossage: The Furchase Request form is now ready to be used.		
The Fundade request Joint's Inter Heady to be used.		
A Home ☐ (GLOBAL) PurchaseRequest x		



Search Filters

The number of elements in the gallery can be reduced by using a search filter, applied to the name of the element. As the user enters characters in the search field, the number of elements in the grid is reduced to those forms whose names contain the entered characters.

Filters by element type can also be added, where the user can opt for templates or forms. In the case of the latter, a filter by state can also be added.

3.6.2.1. Create Template

The modeler user can design their own template to be used for the creation of new agile forms. The design starts in a <u>chart modeling area</u> that is empty, containing only a predetermined identifier and a predefined chart container in the modeling area, being able to include new fields, containers and different chart elements.

	Supplies Request
Model Form ()	Preview Fields Grid/Filters
Graphic Container	

Template Identification

The identification of the template and the image that has been defined to represent it are displayed on the design area. The template properties can be modified in the panel that opens by selecting the icon these correspond to the properties defined for the form modeler.

Name

Corresponds to the property Descriptive Name that is indicated when creating the template. It identifies the template in the gallery.

Owner

User responsible for the template, who made the definition of it.

Image

Corresponds to the property Image that is indicated when creating the template.



3.6.2.2. Create From

The creation of an agile form can be done from your own design or from a pre-existing template in the gallery.

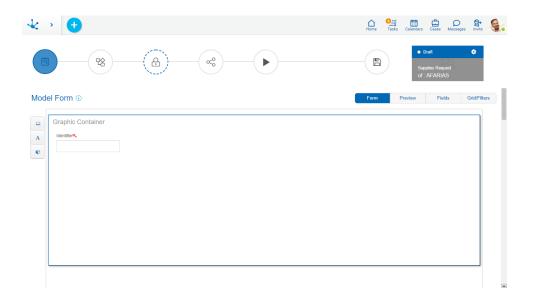
In both cases the <u>Agile Form Wizard</u>, is initiated, where the form name is defined and the steps leading to the publication are completed.

The creation of an agile form includes the creation of the corresponding entity, as well as the generation of permissions for users and organizational units, optionally a process related to it can be modeled. Behavior can also be incorporated through the use of business rules.

Create Agile Form without Template

The modeler user can design his form from the editing area that contains a default identifier and a predefined chart container, without using a template as a base, being able to include fields, containers and different graphic elements.

The creation is initiated from the templates gallery as a <u>new form</u>, which leads to the <u>Agile Form Wiz-</u> <u>ard</u>, where an empty <u>modeling area</u> is presented to start their own design.



Create Agile Form with Template

The modeler user can create his form based on a template from the gallery, which he can customize according to his requests.

The creation is initiated from the menu of a <u>template</u> of the gallery, which leads to the <u>Agile Form Wiz-ard</u>, where a <u>modeling area</u> is presented with the predefined design. The form can be adapted by modifying the proposed graphic elements.

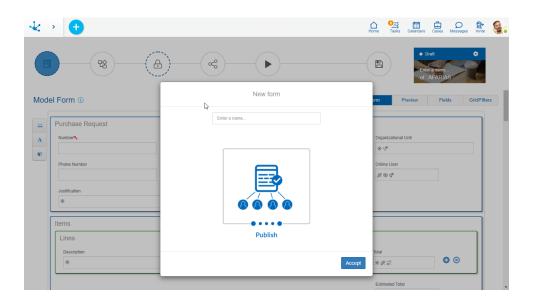


	-(<u>A</u>)		Draft Purchase of : AFA	¢ Requests ARIAS
el Form 🚯			Form Preview	Fields Grid/Filt
Purchase Request Request Id9 Phone Number Justification	Application Date # Delivery Address #	Applicant * t ^p Estimated Delivery *	Organizational Unit 북 각한 Online User 양은 한 약한	
* Items Lines Description		Quantity Unit Price	Total	

3.6.2.2.1. Forms Wizard

The agile modeler uses a wizard that guides the user through the steps required for modeling. First, the name of the agile form must be entered and then the necessary steps must be completed to model the form, optionally model the related process, define the permissions for its use, share it with those who are going to use it and finally publish it.

In each step, useful information for modeling can be shown by means of the icon (i) .



Agile Form Identification

In the upper right part, a box is displayed with the identification of the form and the image that has been defined to represent it. The form properties can be modified in the panel that opens by selecting the icon 😟.



	-(<u>+</u>)(* %)-		Purchase Re of : AFAR	
el Form 🛈			Form Preview Fi	elds Grid/Fil
Purchase Request				
Number %	Date of Request	Applicant	Organizational Unit	
	*	* '8	**?	
Phone Number	Delivery Address	Estimated Delivery	Online User	
	*	*	\$ @ \$	
Justification				
*				
Items				

Identification Area

State

The <u>state</u> of the agile form indicates the stage of development in which it is found and is automatically defined as the user works on the form.

Properties

Pressing this icon opens the agile form properties panel, which is a subset of the panel of <u>properties</u> from the form modeler.

💼 Delete

Pressing this icon opens a <u>panel</u> for the user to select the information to be deleted. This icon can be displayed if the form has been saved or published.

Name

Corresponds to the property Descriptive Name that it is defined in the properties panel, at the time of its creation.

Owner

User responsible for the form, who made the definition and is in charge of publishing the form.

Image

Corresponds to the property Image that it is defined in the properties panel, at the time of its creation.

Steps for Generating an Agile Form

The creation of a form consists of a set of steps represented in the top toolbar of the wizard by means of circles, where the color and type of border define the mandatory nature of each action.

- Solid blue row: required action.
- Broken blue row: conditional required action, that is, it can be required depending on a previous step.
- Solid gray row: optional action.



	Model Form It is used to create and modify the design of the form starting from scratch or from an existing model. This step is required.
28	Model Process A process model is selected from the gallery of predefined models and the process related to the agile form is modeled. This step is optional.
$\left(\begin{array}{c} \bullet \\ \bullet \end{array}\right)$	Define Permissions Defines permissions for users that use the form. This step is required if a process is not modeled in the step 2.
000	Share Form It allows to spread the functionality the new form provides. This step is optional.
	Publish Form Releases the form for use. This step is optional.

There is an additional step that corresponds to the operation "Save".

It saves the configuration and design of the form, without this implying its use.

3.6.2.2.1.1. Model Form

The agile form modeling is done through the use of a subset of the <u>modeling facilities</u> of the forms **Deyel**, being able to include fields, containers and different chart elements in a modeling area, in addition to modeling behavior and the design of the show grid.

During the modeling useful information related to the form modeling can be showed, selecting the icon (i).



\mathbf{A}	› ()			Home 🍱 🛅 🖨 🔎 😫
	8	<u></u>		Useful Information *
Mod A e	Purchase Request Number% Phone Number Phone Number	Date of Request # Delivery Address	Applicant ***	How to Model a Form Add fields Use the toobar on the left to add fields by dragging and dropping.
	Justification * Items	*	*	Rasin Boost Resin Boost Nome Deco Expressio
	Lines Description *		Cuantity Unit Price	Graphic containers Use the graphic containers to distribute the fields by horizontal or vertical and collapsible sections.

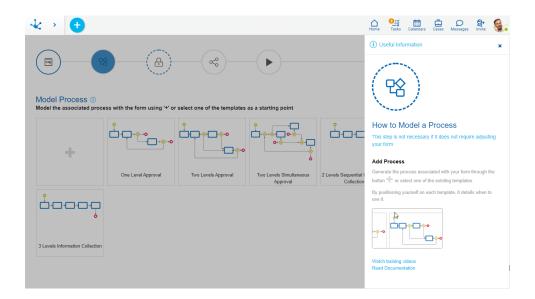
3.6.2.2.1.2. Model Process

A process can be associated to the agile form, by selecting a <u>predefined process template</u> or modeling it from the start.

This step of the forms wizard is optional, as it is a form and it may not be related to a process.

The steps for creating a new process must be followed, in the same way as in the process modeler.

During the modeling useful information related to the activities modeling can be showed, selecting the icon (i).



3.6.2.2.1.3. Define Permissions

For each of the operations than can be done on an agile form, users and organizational units that have authorization to execute them can be selected.



If a process related to the agile form has been modeled, this step is optional and only the show permissions can be defined. Whereas if a related process was not modeled, it is required to complete this step of the form wizard.

Permissions to perform the following operations are defined in each of the tabs:

• Show

With the show permission the user can search and display the form instances previously loaded.

• Create and Update

With the create and update permission, the user can create and modify the form instances, implicitly including the show permission.

• Delete

With the deletion permission the user can delete the form instances, implicitly including the show permission.

During the modeling useful information related to the permission definition can be showed, selecting the icon (i).

<i>√</i> ∠ → (+)	🟠 🚉 🛅 🖨 🔎 😵 餐
	(i) Useful Information
Define Permissions ①	How to Define Permissions
Bearch users and offices	Define the permissions you want to add to other users
Alaandro Farias Uorr	Show: allows you to search and view the form data by u00E91 or other users. Creation and Modification: allows creating and modifying the form data. It implicitly includes the Consult permission. Delete: allows you to delete the data from the forms. It implicitly includes the Show permission.
	pred Defense Annex Linese
	Watch training videos Read Documentation

Properties

Search bar

Users and organizational units can be searched by name, using the search bar with the autocomplete facility.

Wizard 🔲

By using a wizard, users and organizational units can be selected from a hierarchical tree.

User Area and Offices

It represents the set of users and organizational units for the different tabs with permissions.



3.6.2.2.1.4. Share Form

it is possible to define spreading a message so that it is done at the time of publishing the form. The receivers can be users, offices or roles. This step is optional.

During the modeling useful information related to the spreading of the message can be showed, selecting the icon (i).

- ↓ → 🕒	,	forme Tasks Calendars Cases Messages Invite
Share Form 0		() Useful Information x
Invite the people you want to use the Form Search users, offices and roles to notify		How to Share the Form
		Use in the Organization Use the new built-in Form through the Agile Modeler in the Organization. Notification will take effect at the time of Posting.:
Message:		You can invite users or organizational units through Tedis or an email. You can also invite people who are not yet a Deyel user.
Select broadcast mode Email Tedis	Þ	Bacar usarios, deinas y roles a volfile Construinte Char California Char California Char
		Watch training videos Read Documentation
A Home I (GLOBAL) SolicituddeCompras 🗙		

Properties

Search bar

Users, organizational units and roles can be searched by name, using the search bar with the autocomplete facility. When selecting an organizational unit or a role, the message is sent to one of their members.

Wizard 🔲

By using a wizard, users, organizational units, and roles can be selected from a hierarchical tree.

Notification Receivers Area

It indicates the users, units or roles that they will be notified at the time of the agile form publication.

Message

It allows to define the text used in the message to spread the agile form publication.

Broadcast Mode

It indicates the way in which the new agile form publication is notified. It can be done by sending an email or through a <u>Tedis</u> text message.

3.6.2.2.1.5. Publish Form



Publishing an agile form allows users who have been assigned permissions to start using it. If a process associated with the agile form has been defined in the second step of the wizard, the publication implies that it will be available for use by all its participants.

If post publication enhancements are required, the agile form must be republished using this same wizard. The button to publish the form goes from red to green once the first publication has been made.

During the modeling useful information related to the message publication can be showed, selecting the icon (i).

\prec \rightarrow \oplus	Home Tasks Calendars Cases Messages Invite
	(i) Useful Information
Publish Form ①	
Publish Agil Form	How to Publish the Form
Publishing the Form allows participating and invited users to start using it! If you need to make improvements later, use this same wizard and republish it.	Publishing the form is very simple. You only have to press the Publish button.:
Once published, you can use it from Form and Tasks.	Before publishing, keep in mind that if the step is:
Publish	 In full lines, it is correct. With dotted lines, it is incomplete.
Puolisi	- Grayed out, it is not completed yet.
	The Model Process and Share Form steps are not mandatory.
	The Publish button is shown in Rad if the form was never published. Instead, it is displayed in Green when it was ever Posted.
	In any of the steps you can use the button 🖺 to save the modeling to continue later. In this case, the form remains in Draft state.
	Watch training videos Read Documentation

3.6.2.2.1.6. Delete Agile Form

From the <u>identification box</u> of the form the icon corresponding to the deletions can be selected and a panel opens with the different deletion modalities of an agile form.

$4 \rightarrow \oplus$		Home	O Tasks	Calendars	Cases	O Messages	8+ Invite	۹.
		Delete	e Purcha	seReques	t			×
	General			ſ)elete Da	ıta		
Publish Form [®]	Ŭ				lete Data Publicatio			
Publish Agil Form				Delet	e as Agil	e Form		
publishing the Form allows participating and invited users to start using it! If you need to make improvements later, use this same wizard and republish it. once published, you can use it from Form and Tasks.								
Publish								
A Home I (GLOBAL) PurchaseRequest x								



Deletion Modalities

Delete Data

It allows to delete the form instances.

Delete Data and Publication

It allows to delete the form instances and go back to the publication of it, that is, its status changes from "Published" to "Draft".

Once the data of the agile form and its publication have been deleted, in the <u>templates gallery</u> it is enabled the icon in the line corresponding to the agile form from the template selected. Such icon allows to delete the form that has been created from the template. If it were a form that does not have a template associated with it, then it is deleted from the menu $\frac{1}{2}$ of the element.

Delete as Agile Form

It allows to convert the agile form into a form of **Deyel**, meaning it can be used from the <u>form mode-</u> <u>ler</u>. If the agile form includes a modeled process, then the modeled process also becomes an object of **Deyel**, that can be used from the <u>process modeling</u>.

Once the agile form has been deleted, it stops displaying on the <u>templates gallery</u> and is displayed as an object of type "Form" in the <u>grid modeler</u>. If the agile form includes a process, then a "Process" type object is also displayed in such grid.

3.7. Modeler

The menu option "Deyel Modeler" allows to design and build low-code applications. Using a single interface, different **Deyel** objects can be created and maintained. For each of them, specific modeling tools are used in an intuitive and easy-to-use environment.

For each type of object, its modeler allows to use a set of development functions, such as graphic modeling areas, toolbars, properties panels, and design wizards, among others.



ch	Q	📅 Modeler 313	3 2			Search	Q 77 3
Deyel Modeler		Name Application Type Star	te Update Update User	Туре	State	Update 4	Update User
Agile Modeler		Demo Company	New Application	Mobile Application	•	20/10/2022 16:28	
Forms and Tasks		Modeler	Global	A Permission	•	20/10/2022 16:28	8
Deyel CRM	~	Sales Manager	МуАрр	B Dashboard	0	20/10/2022 16:26	6
Deyel Contracts	~	Request	Global	Form	•	20/10/2022 16:26	9
BAM and Analysis	~	Refunds Request v1	Global	면함 Process	•	20/10/2022 16:16	9
Reports		Accounting Tasks	МуАрр	🗒 Form	•	20/10/2022 16:13	
Configuration	~	Refunds Request	Global	🗏 Form	•	20/10/2022 16:12	۹.
5		Media	Global	B Dashboard	•	30/09/2022 16:56	8
		New Application	New Application	Application	•	30/09/2022 16:25	9
		Deyel Page	Global	Page	•	30/09/2022 16:18	ه (۵

Sections

- Portal Top Toolbar
 - Context menu with the modeler's own functionality.
- <u>Breadcrumb</u>
- <u>Top Bar</u>
- Search Filters
- Grid
- Home

	0			Search	२ ४, ७
e♥ Application♥ Type♥ State♥					
Name Demo Company	Application New Application	Type Mobile Application	State	Update ↓ 20/10/2022 16:28	Update User
Nodeler	Global	Permission	•	20/10/2022 16:28	* 8
Sales Manager	МуАрр	Dashboard	0	20/10/2022 16:26	9
Request	Global	Eorm	•	20/10/2022 16:26	9
Refunds Request v1	Global	면송 Process	•	20/10/2022 16:16	9
Accounting Tasks	МуАрр	Form	•	20/10/2022 16:13	9
Refunds Request	Global	問 Form	•	20/10/2022 16:12	9
Media	Global	Dashboard	•	30/09/2022 16:56	9
New Application	New Application	Application		30/09/2022 16:25	6

△ Home

3.7.1. Characteristics



Phase 2: Forms Modeling > Deyel Modeler

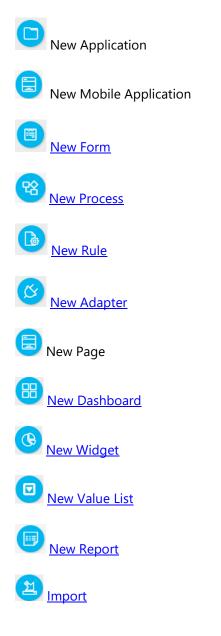


Modeler Context Menu

The <u>context menu</u> adopts the general characteristics of the portal, but adapted to the modeler's own functionalities.

Icons Menu

This menu is enabled by hovering over the icon t and allows to create different types of objects and import them.





Modeler 313				Search	Q 77 3
Name	Application	Туре	State	Update 🗸	Update User
Demo Company	New Application	Mobile Application	٠	20/10/2022 16:28	۹)
Modeler	Global	Permission	•	20/10/2022 16:28	8
Sales Manager	МуАрр	Dashboard	0	20/10/2022 16:26	9
Request	Global	🗐 Form	•	20/10/2022 16:26	9
Refunds Request v1	Global	PS Process	•	20/10/2022 16:16	9
Accounting Tasks	МуАрр	🖽 Form	•	20/10/2022 16:13	9
Refunds Request	Global	Form	•	20/10/2022 16:12	9
Media	Global	Bashboard	•	30/09/2022 16:56	S
New Application	New Application	Application	•	30/09/2022 16:25	9
Deyel Page	Global	Page		30/09/2022 16:18	8

Displayed Menu

This menu is displayed by pressing the icon t, unfolding a vertical panel with the following sections:

- Options associated with the modeler, in light blue.
 - Application
 - Mobile Application
 - Form
 - Process
 - Rule
 - Adapter
 - Page
 - Dashboard
 - Widget
 - Value List
 - Report
 - Import
- Most used, in gray.
 - Forms and processes most used by the user.



Modeler	Application				Search	Q Vr 3
e▼ Application▼ T	Mobile Application					
Name	Form		Туре	State	Update 🗸	Update User
Demo Company	Process		Mobile Application	•	20/10/2022 16:28	٩
Rule			A Permission	•	20/10/2022 16:28	8
	Adapter			•		-
Sales Manager	Page		B Dashboard	0	20/10/2022 16:26	9
Request	Dashboard		Form	•	20/10/2022 16:26	Q
Refunds Request v1	Widget		맛송 Process	•	20/10/2022 16:16	9
Accounting Tasks		МуАрр	🖽 Form	•	20/10/2022 16:13	9
Refunds Request		Global	🖽 Form	•	20/10/2022 16:12	9
Media		Global	Dashboard	•	30/09/2022 16:56	9
New Application		New Application	C Application	•	30/09/2022 16:25	۵.
Deyel Page		Global	Page	•	30/09/2022 16:18	@ 40

Home

The tab with the icon **n** corresponds to the modeler's grid. When opening other objects in different tabs, the home tab always allows to return to the modeler's grid.

3.7.1.1. Top Bar

From the top bar, different options related to the content and presentation of the objects grid can be selected.

938 Number of Objects

Indicates the number of objects, either total or that resulting from the application of a search filter.



Grid Version

Allows switching to the previous version of the grid or return to the new one.

🗧 Update Grid

Allows reloading the updated grid, keeping the selected filters.

Search Quick Search

Allows to filter objects by column Name based on the characters entered in the search field.



Modeler 313 🗑 🛛				Search	① Q	V. 9
Name	Application	Туре	State	The search is performed by the	descriptive name	
Demo Company	New Application	Mobile Application	٠	20/10/2022 16:28	6	
Modeler	Global	- Permission	•	20/10/2022 16:28	8	
Sales Manager	МуАрр	B Dashboard	0	20/10/2022 16:26		
Request	Global	🗐 Form	•	20/10/2022 16:26		
Refunds Request v1	Global	안송 Process	•	20/10/2022 16:16	8	
Accounting Tasks	МуАрр	🗐 Form	•	20/10/2022 16:13	8	
Refunds Request	Global	🖽 Form	•	20/10/2022 16:12	6	
Media	Global	Dashboard	•	30/09/2022 16:56		
New Application	New Application	C Application	•	30/09/2022 16:25		
Devel Page	Global	Page	•	30/09/2022 16:18	8	

Click on the icon () to display the object property on which this type of search can be performed.

Advanced Search

The advanced search enables the set of fields for which search filters can be selected on the results grid .

Favorite Searches

It allows to save the filters selected by the user and to administer them.

Clicking on the icon expands a panel with the list of saved filters and new filters can be added. Every time a search is selected, it is executed and the grid is updated.

It allows to check one of the searches as favorite, which is indicated by the icon 📩 and can be deleted by pressing this icon.

 \star Indicates that the search was selected as favorite by the user.

Pressing the icon 12^{11} to the left of a search, allows the user to indicate that as their favorite.



Modeler 4			Saved searches	Search: adapter		
Name	Application $ ell$	Туре	State	Uj 🛨 Adapter List	ł	×
TwitterAdapter	Global	🖉 Adapter	•	25 Rules List	0	
SAPAdapter	Global	🖄 Adapter	•	05 🗟 Save current sear	ch	
sapAdapter	Global	🖄 Adapter	•	04/11/2021 11:55	۵	
adapterSOAP	Global	🖉 Adapter	•	03/11/2021 10:43	9	

i Columns Display

It displays a panel with the names of the grid columns. By means of a check mark, the user can activate or deactivate the display of each column. The set of selected columns is valid until the same user modifies it again.

Modeler 313 🗑	0			Search	Q 77, 19
Name	Application	Туре	State	Update 🗸	Updat Name (Modeling)
Demo Company	New Application	Mobile Application	•	20/10/2022 16:28	Application
Modeler	Global	Permission	•	20/10/2022 16:28	State Update
Sales Manager	МуАрр	B Dashboard	0	20/10/2022 16:26	Update User Creation
Request	Global	🗐 Form	•	20/10/2022 16:26	Creation User Saved
Refunds Request v1	Global	안송 Process	•	20/10/2022 16:16	Save User Publication
Accounting Tasks	МуАрр	🕮 Form	•	20/10/2022 16:13	Publication User Update by Precedent
Refunds Request	Global	🗐 Form	•	20/10/2022 16:12	Update User by Prece
Media	Global	Dashboard	•	30/09/2022 16:56	Block User
New Application	New Application	Application	•	30/09/2022 16:25	9
Deyel Page	Global	Page	•	30/09/2022 16:18	9

3.7.1.1.1. Search Filters

Selecting the advanced search icon 💌 enables a row to select the different criteria to filter objects.



Modeler 313 🔄				Search	Q 77 3
ev Applicationv Typev Statev	Application	Туре	State	Update ↓	Update User
Demo Company	New Application	Mobile Application	٠	20/10/2022 16:28	9
Modeler	Global	Permission	•	20/10/2022 16:28	9
Sales Manager	MyApp	Dashboard	0	20/10/2022 16:26	9
Request	Global	🗒 Form	•	20/10/2022 16:26	9
Refunds Request v1	Global	22 Process	•	20/10/2022 16:16	9
Accounting Tasks	МуАрр	🗐 Form	•	20/10/2022 16:13	9
Refunds Request	Global	🗐 Form	•	20/10/2022 16:12	G
Media	Global	Dashboard	•	30/09/2022 16:56	9
New Application	New Application	C Application	•	30/09/2022 16:25	9
Deyel Page	Global	E Page	•	30/09/2022 16:18	9

For each search criteria a value can be entered or selected from a list, to use it as a filter.

All the filters that are necessary can be added, each time one is added a new search is automatically executed that updates the task grid.

The filters applied in the search are highlighted where they were entered, each followed by an \times icon. By pressing such icon the corresponding filter is deleted and a new search that updated the task grid is automatically executed.

To remove all search filters, the icon \bigotimes must be pressed, which is located on the right of the last filter. This way the complete list of tasks is loaded again in the grid.

Filters

The following filters are available:

- Name
- Application
- Type
- State
- Update
- Update user

3.7.1.2. Grid

The objects grid allows to display all objects modeled in **Deyel** or those that are the result of having applied <u>search filters</u>. It is made up of columns and rows.

Columns



The objects grid allows to display different columns and by hovering over the name of each one it is possible to indicate its <u>behavior</u>, in the same way as in the tasks grid.

The columns displayed in the grid correspond to the characteristics of the modeled objects in **Deyel**.

Modeler 313 S				Search	Q 77 3
ame {↑↓×	Application	Туре	State	Update 🗸	Update User
emo Company	New Application	Mobile Application	٠	20/10/2022 16:28	\$
lodeler	Global	Permission	•	20/10/2022 16:28	8
ales Manager	МуАрр	Dashboard	0	20/10/2022 16:26	<u>.</u>
equest	Global	🗐 Form	•	20/10/2022 16:26	9
efunds Request v1	Global	맛응 Process	•	20/10/2022 16:16	G
ccounting Tasks	МуАрр	Form	•	20/10/2022 16:13	G
efunds Request	Global	同 Form	•	20/10/2022 16:12	G
ledia	Global	Dashboard	•	30/09/2022 16:56	
ew Application	New Application	Application	•	30/09/2022 16:25	9
evel Page	Global	E Page		30/09/2022 16:18	6

Columns

Name

Name used in the interface to reference the object, corresponds to the Descriptive Name property of each object.

Application

Application the object belongs to, corresponds to the Application property of each object.

Туре

Identifies the type of object defined in **Deyel** session is closed.

State

Indicates the state of the object: draft, modified, published.

Update

Date of last update made to the object.

Update User

Last user that updated the object.

Rows

Each grid object can be opened by double clicking on the corresponding row, and hovering the cursor over the row enables the icons 20, 2, 2, 10 and 2 allows showing precedents, showing dependents, updating, deleting and exporting operations respectively.



The number of objects loaded in the grid is displayed in the lower right margin. This number increases as the scroll bar is scrolled vertically.

Modeler 313 Sales Application Type State				Search	Q 77 3
Name	Application	Туре	State	Update 🗸	Update User
Demo Company	New Application	Mobile Application	٠	20/10/2022 16:28	9
Modeler	Global	Permission	•	20/10/2022 16:28	9
Sales Manager	МуАрр	Dashboard	0	20/10/2022 16:26	9
Request	Global	🗐 Form	•	20/10/2022 16:26	9
Refunds Request v1	Global	인상 Process	•	20/10/2022 16:16	9
Accounting Tasks	МуАрр	Form	•	20/10/2022 16:13	9
Refunds Request	Global	Form	•	20/10/2022 16:12	9
Media	Global	Dashboard	•	30/09/2022 16:56	9
New Application	New Application	Application	•	30/09/2022 16:25	9
Devel Page	Global	Page		30/09/2022 16:18	9

Operations

Operation icons are enabled when hovering over each row of the grid.

• Modify

Opens the modeler for the selected object in a new tab. A double click on the row also gives access to the object modeler.

For Permissions and Roles, it opens for object modification. If the user does not have permission to modify the object, it only shows the object.

• Delete

Deletes the selected object, after confirmation. This operation can be performed if the object is in <u>state</u> "Draft" and does not have other **Deyel** objects associated.

• Export

Opens a panel for the user to select and confirm the object export.

- Precedents Opens the <u>precedents</u> grid of the selected object in a new tab.
- Dependents Opens the <u>dependents</u> grid of the selected object in a new tab.

Display of Icons on Rows

The user can decide if they want to see the icons with the operations of the objects on the row.



Displays the available icons for each object.

Hides the available icons for each object.

Scroll Bar

By scrolling vertically, rows are incorporated in the grid, allowing scrolling up or down using a scroll bar.

The number of tasks loaded in the grid is displayed in the lower right margin.

3.7.1.2.1. Precedentes

The precedents grid allows to determine which are the objects that a specific **Deyel** object needs to execute.

The analysis of precedents is very useful to determine which objects are necessary for the **Deyel** selected object to execute correctly. Also, it allows to determine which objects are required to perform a complete export.

Name	Application	Туре	State	Update 🗸	Update User	
Modeler	Global	Permission	•	07/06/2023 01:25	۹.	
Status	Global	Value List	•	07/04/2022 12:45	9	
Update of Purchase Request	Global	Permission	•	23/02/2022 11:54	9	
Show of Purchase Request	Global	Permission	•	23/02/2022 11:54	9	
Completed of Purchase Request	Global	C Permission	•	23/02/2022 11:54	9	
Delete of Purchase Request	Global	C. Permission	•	23/02/2022 11:54	۹.	
						0

It may happen that one or more precedent objects are not found in the environment. In this case, the row is displayed in red with a warning icon.



Name	Application	Туре	State	Update ↓	Update User
Delete of Purchase Order	Global	Pf Missing Object	D3	22/06/2023 17:36	💱 这 🔇 🖉 🛃 ः
Completed of Purchase Order	Global	Permission	•	16/02/2023 13:04	9
Update of Purchase Order	Global	Permission	٠	16/02/2023 12:58	9
Show of Purchase Order	Global	Permission	•	16/02/2023 12:58	9
Sales Stage	Global	 Value List 	•	16/02/2023 11:32	9
					•

Precedents may belong to the same object application or to other applications. Precedents show returns all precedent objects without applying security. It is possible that a user does not have permissions to see an object, but that does not prevent them from seeing the object as a precedent of another to which they have permission. The precedent objects on which the user does not have permission are displayed in the precedents grid without the possibility of executing any function on them (open, modify, export).

The precedents grid is very similar to the modeler's grid, but it has the following special features:

- The possibility of saving favorite searches is not available, as it is not necessary.
- In the event that a precedent is not found in the environment, it is displayed in red, with a warning icon and with the label "Nonexistent Object". In this way, it is possible to determine which are the missing precedents of an object.
- It has 2 additional filters.

Additional Filters

The additional filters are "Level" and "Definition", they must always have a value and cannot be left blank. For this reason, the individual option to remove the filter is not available. However, you can use the option to remove all filters, which in the case of additional filters returns them to the initial value.

Level

It allows to filter the precedents of:

- 1st Level: this value is taken as the initial value.
- All Levels: it is a recursive precedence.

Definition



It allows to filter the precedents of:

- Development: this value is taken as the initial value.
- Execution

The concept of definition is different from the concept of state.

The concept of state of a **Deyel** object indicates the stage of development it is in and if it is operational. On the other hand, the concept of definition allows objects to be modified without affecting the execution version of the object that is operational.

Internally, **Deyel** objects have 2 definitions: development and execution, which is completely transparent to users.

The development definition is the one used when modeling an object, while the execution definition is the one that is operational.

If an object is in the "Modified" state, it means that the development definition may be different from the execution definition. This means that a **Deyel** object can be modified without affecting the execution definition. As both definitions are different, precedents can also be different.

If an object is in the "Published" state, it means that the development definition and the execution definition match. This means that the object was modeled and is in use. So the precedents of both definitions are the same.

In this way, both definitions coexist, to allow new developments without affecting the published object that is operational. When an object is published and a change is made operational, the execution definition is updated with the changes coming from the development definition, making both definitions identical.

3.7.1.2.2. Dependientes

The dependents grid allows to determine which are the objects from where a specific **Deyel** object is being used.

The analysis of dependents allows to determine in which objects the modification of a certain object impacts.

In the <u>modeler's grid</u>, the dependent icon is not available in the applications, because the applications do not have them. No object has the application as precedent, because objects are contained in an application, but do not use it directly to execute.



Name	Application	Туре	State	Update 🗸	Update User	
Purchase Request v1	Global	안송 Process	•	22/06/2023 17:48	9	

The dependents grid works in a similar way to the precedents grid.

3.7.2. Object States

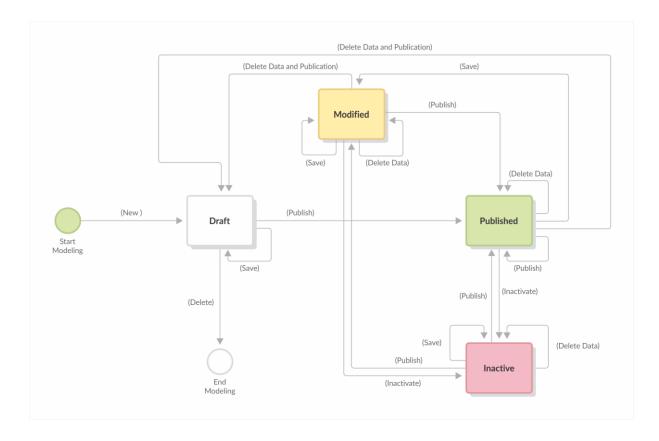
States indicate the stage of development in which **Deyel** objects are and if they are operational.

The following **Deyel** objects defined in applications have states:

- Form
- Agile Form
- Process
- Rule
- Dashboard
- Widget
- Value List
- Adapter
- Report

The possible states and the events that produce transitions among them are described below, ensuring the modelers of predictable behavior for each type of object.





Possible States

Draft

State corresponding to the beginning of the modeling or when it was saved but not published.

Published

State of the object once published, that is, it is available for use.

Modified

If an object is modified when it is in the "Published" state, it becomes "Modified".

Inactive

State corresponding to a published object for which only instances or cases can be shown. As of processes, forms and agile forms, instances or cases of objects that are in this state cannot be created, delete or modified. On the other hand, rules can move to inactive state, if they are not being used in another object, that is, since they are inactive, they cannot be used in the modeling of another object.

Available in future versions.

3.7.3. Applications Modeling

The applications modeler allows for easily and intuitively modeling independent applications It allows to design their browsing by building of a diagram where interaction flows are defined. At the same time, it allows to build applications from predefined templates that make work easier. Templates help



build **Deyel** applications, as well as business web applications. In **Deyel** applications, the login page, the toolbar, the menu and the home page can be customized. In web applications, own customized pages can be used. Such pages are created and modified during modeling, where login pages and home pages can also be defined.

Users access applications from web browsers through a URL defined in the modeler. Each application created with this modeler is accompanied by a mobile version, that is, applications that can be installed and executed on mobile or portable devices are also created.

	date ✓ Update User ✓				Q 77 3
Name	Application	Туре	State	Update 🗸	Update User
Mail Reader	Global	🖉 Adapter	0	08/03/2023 09:07	Ø
ralidate v1	Global	🗟 Rule	•	08/03/2023 09:07	8
Soogle Calendar	Global	🖄 Adapter	0	08/03/2023 09:07	8
ecoverPassword v1	Global	🗟 Rule	•	08/03/2023 09:07	8
Anonymous	Global	Permission	•	08/03/2023 09:07	8
egister v1	Global	🗟 Rule	٠	08/03/2023 09:07	8
ogin v1	Global	👌 Rule	٠	08/03/2023 09:07	9
esendValidationCode v1	Global	🗟 Rule	٠	08/03/2023 09:07	9
endCodeByEmail v1	Global	🗟 Rule	•	08/03/2023 09:07	8
endCodeByEmail v1	Global	🗋 Rule	•	08/03/2023 09:07	8

The general characteristics of the applications modeler and the main elements that compose it are described in the following topics:

- Modeling Facilities
- General Properties

A new application can be created from the icon $\stackrel{\bullet}{\frown}$ corresponding to the <u>context menu</u> in the modeler.

- From the icon 😐.
- From the expanded menu using the "Application" option.

Operations can be performed on existing applications by using buttons available on the <u>objects grid</u> of the modeler.

3.7.3.1. Modeling Facilities

The general characteristics of this modeler are specified below.

New Application



The modeler user defines a new application, which after being <u>published</u> can be accessed from the <u>access path</u> configured in the same modeler.

When building the application, it opens a panel that allows to define some of its <u>general properties</u> and select a built-in template that is displayed in the graphic modeling area when starting the applications modeler. The applications modeler can also be started without selecting a template.

$4 \rightarrow +$	Home	O Tasks	Calendars	Cases	O Messages	8+ Invite	.
○ New Application File × Edit × Show × Tools ×							
New Application			×				
NA Icon Color None	*						
B2B ty Deyel	B2C						
New Application Description							
Cancel		Accept					
C Home New Application 2 🗴							

Workspace Sections

- Expanded Menu
- <u>Top Toolbar</u>
- Side Toolbar
- Graphic Modeling Area



Restaurant	File - Edit - Show - Tools -	
	1 5 순 100% ~ 🖸 🖸 🗍 🛤 🐧 보 Web	Ø - Ø Mobile
	Splash	
	Login +3	
		Home 🟠
		Berwenidos
	Forgot your password Register	
	and the second s	
		Marine Million and Company

3.7.3.1.1. Expanded Menu

It is a set of options that, as they are selected, show submenus that contain different operations on the application or on its modeling. In turn, each option in a submenu may expand a secondary submenu.

Restaurant	File V Edit V Show V Tools	_			
	Splash Splash Ferget your password Ferget your password Substruction Ferget your password Substruction Substruct	 Com in Zoom out S0 % 90 % 90 % 125 % 150 % 200 % 	Ctrl++ Ctrl++ Ctrl+	Home Q	

The expanded menu is made up of:

- File Submenu
- Edit Submenu
- Show Submenu
- Tools Submenu

3.7.3.1.1.1. File Submenu

This submenu opens by clicking on the "File" option and allows to perform operations on the application.



Restaurant	File - Edit - Show - Tools	~							
	🖹 Save	Ctrl+S	🛎 đ 🕹	Web 🕗 🔗 Mob	ile				
	Delete								
3	Z Export	Ctrl+E							
7	L Import	Ctrl+I Login +)							
	√ Validate	1	· · ·	201 C.3					
	Publish	1.000	100	MV/200					
	Delete Publication	1 mart		1914 and					
							Home 🛆		
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				internet (mark) F = 1 =				Bienvenidos	
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	Forgot your password		Regi					Alge part halfs.	
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	Forgot your password							Ale yes tais.	
								Ale yes tais.	
				ster Target				Ale yes tais.	
						5		Ale yes tais.	
				ster Target				Ale yes tais.	
				ster Target				Ale yes tais.	

🖹 Save

This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". If certain conditions are met, the modeler user receives a message indicating that the operation was performed correctly, otherwise they receive an explanatory message.

Condition

• Name should be unique.

🔟 Delete

It allows to delete the object only if it is in "Draft" <u>state</u> and does not have other associated objects of **Deyel** that were previously saved or published. When deleted, the tab it is on closes and the object is removed from the modeler's grid.

🖾 Export

This icon opens a window for the user to select and confirm the export of the object.



	ユ ト ち さ ト 100%	 Export Application: Re 	estaurant	×		
3	Splash	Enter description				
		Exported Objects		^		
		Name	Application	Туре		
		Restaurant	F140FDB5DFD0DDF	Application Cancel Export	Home 🛆	Bierrivenidoe e nousentans program (tra-
	Forgot your password		Kegister		5	- <u> </u>
	100 100 100 100 100 100 100 100	Constant (memo)				

Properties

Description

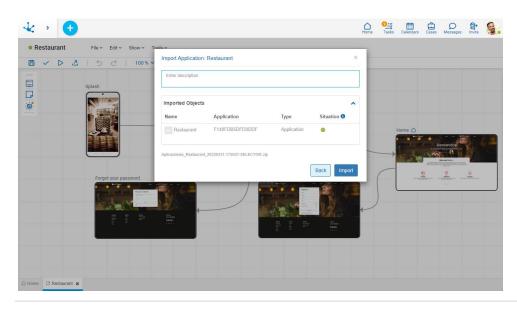
In this property a text explaining the reason for the operation can be entered. This text can be modified upon import and is displayed in the description column of the <u>export record</u>.

Exported Objects

By expanding the container, the object being exported is shown.

Press the "Cancel" button to undo export or press the "Export" button to finish.

It allows to open a window for the user to select and confirm the import of the object.





Performing this operation is equivalent to using the functionality of <u>importing</u> from the modeler's context menu.

🗸 Validate

This icon validates if the object is ready to be published, that is, the validations performed are applied at the moment of <u>publication</u> and the result of the same is reported.

🗅 Publish

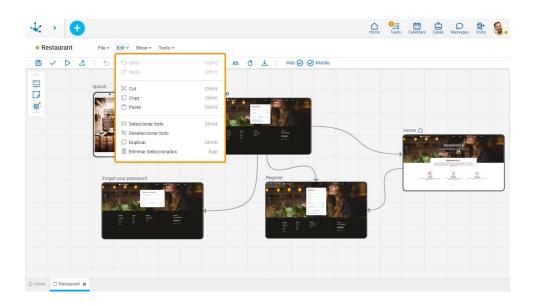
Through this icon the object changes to "Publish" <u>state</u> and the modeler user receives the corresponding message, indicating the result of the operation. The condition to publish is the same as for the operation "Save".

The Delete Publication

Allows to leave the object unavailable for use by returning it to the "Draft" state.

3.7.3.1.1.2. Edit Submenu

This submenu is opened by clicking on the "Edit" option and allows to perform operations within the modeler.



ڬ Undo (Ctrl+Z)



Allows to easily reverse the changes made in the modeler.

→ Redo (Ctrl+Y)

Allows to easily reapply the changes made in the modeler.

X Cut (Ctrl+X)

Allows to send the selected element to the clipboard while deleting it from the graphic modeling area.

Copy (Ctrl+C)

Allows to copy any application element and temporarily place it on the clipboard.

Paste (Ctrl+V)

Allows to take the item from the clipboard and place it elsewhere in the graphic modeling area.

Select All (Ctrl+A)

Allows to select all the elements of the application.

🕅 Deselect All

Allows to deselect all the elements of the application.

Duplicate (Ctrl+D)

Allows to make a copy of any application element within the graphic modeling area.

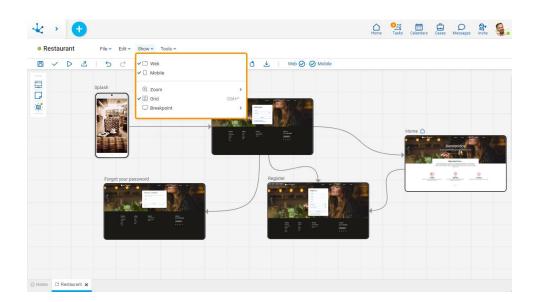
I Delete Selected Elements (Del)

Allows to delete all selected elements from the graphic modeling area.

3.7.3.1.1.3. Show Submenu



This submenu opens by clicking on the "Show" option and allows to select different ways of displaying the application.



🗂 Web

When selecting this option, only web-type pages are displayed.

🛛 Mobile

When selecting this option, only mobile-type pages are displayed.

Both options can be selected at the same time.

🕀 Zoom

By clicking on "Zoom" a secondary submenu expands, where it is possible to select the options :

- Zoom In (Ctrl++): Increases the display size of the diagram.
- Zoom Out (Ctrl+-): Decreases the display size of the diagram.
- 50%
- 75%
- 90%
- 100%
- 125%
- 150%
- 200%



🖽 Grid

This option provides grid lines that allow to perfectly align elements within the graphic modeling area.

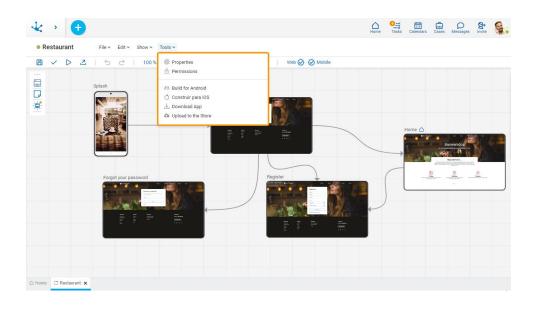
🖵 Breakpoint

By clicking on "Breakpoint" a secondary submenu expands, where it is possible to select the options :

- Desktop
- Tablet
- Mobile

3.7.3.1.1.4. Tools Submenu

This submenu is opened by clicking on the "Tools" option and allows to model the application's properties and permissions, as well as perform operations to make it available to users at different breakpoints.



Properties

Opens the panel of properties of the application.



Restaurant	File 🗸 Edit 🗸 Show 🗸 Tools 🗸			OPProperties	V :
	⊿ 5 ♂ 100% ~		🛃 🛛 Web 🥥 🥥 Mobile	Descriptive Name *	Name *
				Restaurant	Restaurant
	Splash	Login 🔿		E Identifier F140FDB5DFD0DDF	Language
				F140FDB5DFD0DDF	Spanish X
		mile 120		Description	
				pa	
	SABET		National Annual Annua	Advanced	
				Topic	
	Forgot your password		Register		
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	and the second s		- Andrews - WW	Re	Icon Color
					• •
	2 R			•	
				✓ Web Aplication	
				Title	Path
				Restaurant	restaurant

Permissions

Allows to assign the <u>security functions</u> for use and modeling of the object to the existing permissions or to new permissions that the user creates, without having to go to the <u>permission</u> settings option from the menu.

Sections

- Permissions: Permissions to which object functions are assigned.
- Security Functions: Represents the total set of security functions, modeling and use of the object. Those that are marked are the ones included in the selected permission.

By default, all security functions for a new object are assigned to the permission Modeler.

Users who are assigned the permissions have access to the functions included in it.



• Restaurant	Filey Edity Showy Toolsy	но	ime .	Tasks	Calendars	Cases	O Messages	8+ Invite	111
	Application Permissions					×			
	Permissions New+ Search permissions. •	Functions							
¢.	(i) Modeler	- Z Restaurant							
	() Modeler	 Modeling of Restaurant 							
		Visibility of Restaurant					- 188		i,
		Export Restaurant					ides		
		Save Restaurant					ana Saranna ina arta	1.	
		Publish Restaurant						\	
		Delete Restaurant Publication							
		Delete Restaurant Draft Definition							
		- 🗹 Use of Restaurant							
		Aplication Execution							
		Tab Dashboard Visibility							
		Tab Chat Visibility							
		Tab Task Visibility							
Home 🗅 Restaur		Forms and Tasks Tab Visibility							

New Opens a panel to create a new permission and once created, the security functions included in it must be selected .

Search permissions...

Allows to select a permission from a list and enables the input of characters to filter the values in the list.

•••• Opens the wizard to select a permission and once chosen, the necessary object security functions must be checked.

To unrelate a permission from the object, hover the cursor over the permission and press the icon X. If there are functions selected for that permission, they must be unchecked in order to delete it.

Security Functions to Model the Application

- Visibility: Allows to display the object in the Deyel modeler.
- Export: Enables the operation to export the object from the save submenu of the top toolbar.
- Save: Enables the operation of saving modifications made to the object.
- Publish: Enables the operation of publishing the object leaving its state as "Published".
- Delete publication: Enables the operation of deleting the object publication leaving its state as "Draft".
- Delete draft definition: Enables the operation of deleting the object.

Security Functions to Use the Application

- Execute Application.
- Dashboard Tab Visibility: Allows to display the dashboard tab on the mobile device.
- Chat Tab Visibility: Allows to display the chat tab on the mobile device.
- Task Tab Visibility: Allows to display the task tab on the mobile device.
- Forms and Tasks Tab Visibility: Allows to display the forms and tasks tab on the mobile device.



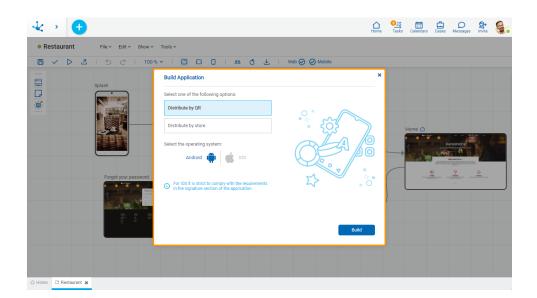
• Download mobile application: Enables to download the mobile application from the <u>user profile</u> of the portal.

🖾 Build for Android

Allows to generate the mobile application to be installed on an Android device.

When generating the application, a panel that allows the entry the distribution type and the operating system opens.

The mobile application must be published in order to be built.



Distribution Options

Different options can be selected to distribute the application

- Distribute by QR: generates a QR in order to install the application on the mobile device.
- Distribute by Store: builds the application so that it can be uploaded to the Play Store.

Once the mobile application is built by QR, Deyel's bot sends a message with the QR and the down-load link to the modeler user.



Case	Process	Description	Activity	Start Date	Responsible User	Expiration Da	Priority
Q 35	Refund with possible payment suspension	(MyApp) Refund with possible payment suspension v1 - Correct request	Correct request	Today 15:29	🌒 Alex Farias		4
O 25	Refunds with Budget Control	(Global) Refunds with Budget Control v1 - Report rejection details	Report rejection details	Today 15:29	🌒 Alex Farias		4
O 37	Refund with possible payment suspension	(MyApp) Refund with possible payment suspension v1 - Evaluate request	Evaluate request	To 🌏 Deye	I Bot 🚦	~ ^ X	1
O 18	Refund of reported pending expenses	(MyApp) Refund of reported pending expenses v1 - Correct request	Correct request	To	Today		1
© 36	Refund with possible payment suspension	(MyApp) Refund with possible payment suspension v1 - Check documentation	Check documentation	To generate	ication has been successfu d with the name 'Restauran' can the QR with your device '	t-	1
○ 26	Refunds with Budget Control	(Global) Refunds with Budget Control v1 - Evaluate application	Evaluate application	14 from this virginia.s	e app or you can download link https://otaris-builds- is-amazonawa.com/english f140fdb5dfd0ddfrestaurant	74-	Ţ

In the event that the mobile application is built via a store, Deyel's bot sends a message with the result of the operation to the modeler user.

Modeler 400 2	teマ Update Userマ			Search	Q 77 3
Name	Application	Туре	State	Update ↓	Update User
Login	Restaurant	Page	•	18/04/2023 15:21	9
Restaurant	Restaurant	Application	•	23/03/2023 11:26	6
Modeler	Global	- Permission	•	Deyel Bot	1 × ^ ×
Administrator	DEYEL (Value not found)	- Permission	•	from this link <u>https://opta</u> virginia.s3.amazonaws.co com.i83.f140fdb5dfd0dd	om/english74-
createSessionTokenForNiubiz v1	Global	🗟 Rule	0	<u>k</u>	
Mail Reader	Global	🖄 Adapter	0		
validate v1	Global	🗟 Rule	•		
Google Calendar	Global	🖄 Adapter	0		1530
recoverPassword v1	Global	🕞 Rule	٠	The application has been generated with the name 1.0.0'. You can continue w	Restaurant-
Δnonvmous	Global	,C. Permission	•	manual upload process to	0 the store. 15:50

🖒 Build for iOS

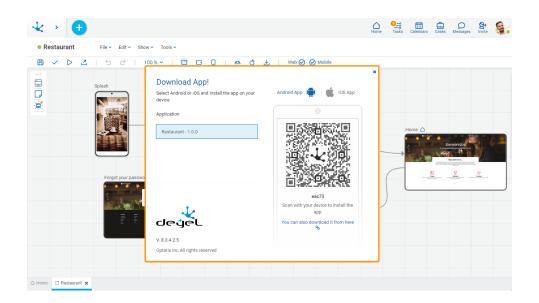
Allows to generate the mobile application to be installed on an iOS device.

This option will be available in future versions.

🗄 Download App

Allows to download the mobile application to be installed by scanning the QR with a device.





Application

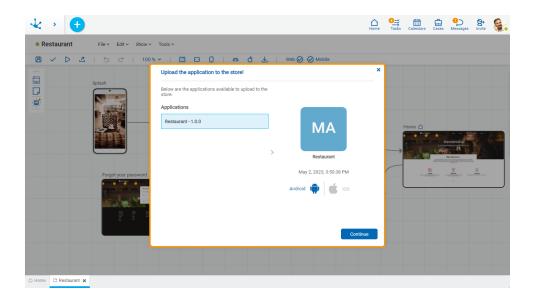
Allows to select the application to be downloaded.

Android App 👖 Allows to generate the QR code to install the application on an Android type device.

^{iOS App} Allows to generate the QR code to install the application on an iOS type device.

Opload to the Store

Allows to publish the application in the official store of the selected operating system.



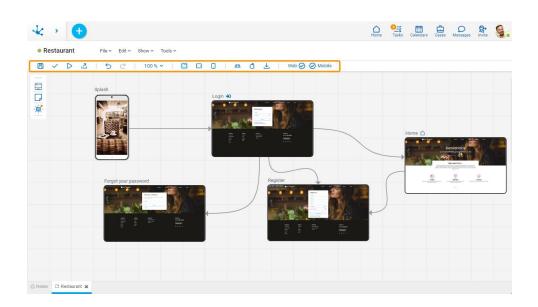


In order to select the application, it must have been previously built using the option <u>distribute via</u> <u>store</u>.

To download the application whether from store or via QR, the environment variables corresponding to the <u>applications modeler must be defined</u>.

3.7.3.1.2. Top Toolbar

Contains icons for quick access to the most used operations of the expanded menu.



<u>File</u>



- Publish
- 🔼 Export

<u>Edit</u>

🔈 Undo

C Redo

<u>Show</u>

100 % ➤ Zoom Percentage

Breakpoints



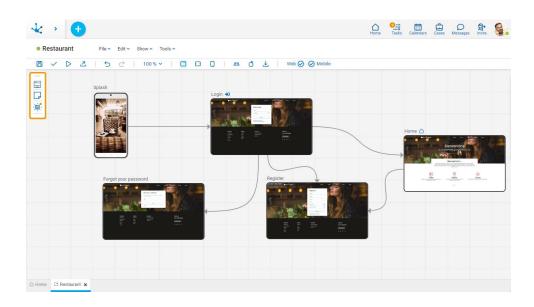


<u>Tools</u>

- 🔼 Build for Android
- 👶 Build for iOS
- 🕹 Download App

3.7.3.1.3. Side Toolbar

This bar contains the different elements that can be modeled in the application. It allows to model all the application pages, using modeled or built-in **Deyel** pages.



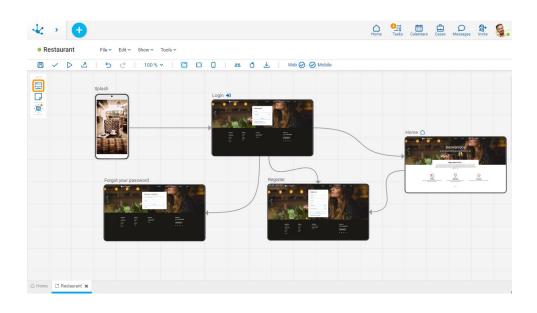
It allows to select different modeling elements:

- <u>Page</u>
- <u>Note</u>

3.7.3.1.3.1. Page

It allows to create a page in the graphic modeling area, by dragging the icon to the desired position. If the icon is clicked, the page is created in a certain position and should be dragged to the chosen location.





Operations

Add Pages

Pages can be added to the graphic modeling area in any location via the "drag and drop" facility. Double-clicking on the created element opens a new tab corresponding to the page modeler.

Modify Position of a Page

Once the page is added, its position can be changed by dragging it within the graphic modeling area. If the position of an element is changed, the change is applied to all breakpoints.

Context Menu

Selecting an element opens a palette of icons which represent the configuration of its properties, the type of web or mobile page, and a menu, whose options correspond to operations that can be performed on the selected page.

The options menu can also be opened by right-clicking mouse on the selected item.



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Configuration Properties

The configuration properties panel opens when selecting the icon

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	Page Template	
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Name

It is used at the modeling level to reference the page.

Type of Application

It allows to define if the application is web-type, mobile-type or both.

Description

Text that defines the page describing its functionality.

Туре



It allows to select the content displayed on the page and depending on the option selected, different properties are enabled.

Image

It allows to define an image that represents the page in the applications modeler, it is valid if the properties for the selected item type are not completed.

Properties According to Selected Type

Different properties are enabled depending on the type of object selected.

Page

Page		Template	
Deyel Page	×	Ingresar - wdsgn	×
Página de Login	Homepag	je	
Permissions			
Modeler			

Page

The pages modeled in the environment are displayed.

Template

It allows to select a template to model the page if the previous property was not completed.

Login Page

Indicates that the unlinked page corresponds to a login page.

Home Page

Indicates that the unlinked page corresponds to a home page.

Permissions

Indicates all the permissions of the selected page. They are not modifiable.

Deyel Page



Page

The pages modeled in the environment are displayed.

Home Page

Indicates that the unlinked page corresponds to a home page.

Permissions

Indicates all the permissions of the selected page. They are not modifiable.

Form

Search	~	Grid	~
Página de Login	Homepa	ge	
Permissions			

Form

The forms modeled in the environment are displayed.

Operation

The operation that is performed when selecting the form is defined.

Possible Values

- New: Indicates that the panel of the form selected in the previous property is opened for the creation of an instance.
- Grid: Indicates that the grid of the form selected in the previous property is opened.

Home Page

Indicates that the unlinked page corresponds to a home page.

Permissions

Indicates all the permissions of the selected page. They are not modifiable.



Process

Search	~	New Case	~
Página de Login	Homepa	ge	
Permissions			

Process

The processes modeled in the environment are displayed.

Operation

The operation that is performed when selecting the process is defined.

Possible Value

• New Case

Home Page

Indicates that the unlinked page corresponds to a home page.

Permissions

Indicates all the permissions of the selected page. They are not modifiable.

Type of Page

The type of page is selected by means of the icon



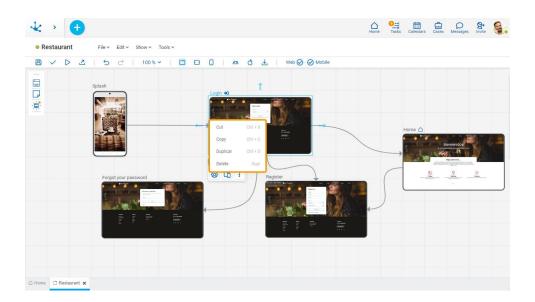
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Possible Values

- 🛄 Web: This type of application can be accessed from the web.
- D Mobile: This type of application can be accessed from mobile devices.
- Web and Mobile: This type of application can be accessed from mobile devices or the web.

More options

The menu to select additional options is expanded with the icon



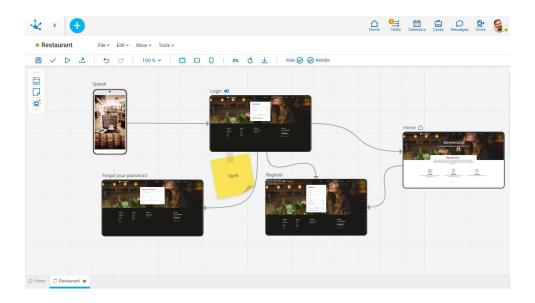
The options correspond to operations that can be performed on the selected element.



- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Duplicate (Ctrl+D)
- Delete (Del)

3.7.3.1.3.2. Note

It allows to create an element in the graphic modeling area to include brief comments about the modeling. This can be done by dragging the icon to the desired position or by clicking on it.



Notes do not affect the execution of the application.

Context Menu

Selecting a note opens a palette of icons in order to choose its color, size, and type of note. In addition, a menu can be opened with options corresponding to operations on the selected element.



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Color

It allows to model a background color for the note, selecting it from a palette.



Size

It allows to define the dimension of the graphic element.



Possible Values

- S (small)
- M (medium)
- L (large)

Type of Note



It allows to define the appearance of the graphic element.



Possible Values

- Note
- Post-it Note

More options

The menu to select additional options is expanded with the icon

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The options correspond to operations that can be performed on the selected element.

- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Duplicate (Ctrl+D)
- Delete (Del)

3.7.3.1.4. Graphic Modeling Area

The graphic modeling area is the location of the different elements of the <u>side toolbar</u>, allowing navigation to be modeled through interaction flows between such elements. It may initially appear blank if none of the built-in templates were selected.



● Restaurant	File × Edit × Show × Tools ×	□ □ ː 쯔 샵 날 · Web⊘-⊘ Mobile	
	Splash		

Its state, its name and the corresponding icon are displayed at the top of each page, if the Login Page or Home Page properties were modeled.



Restaurant	File 🗸 Edit 🖌 Show 🖌 Tools 🗸			
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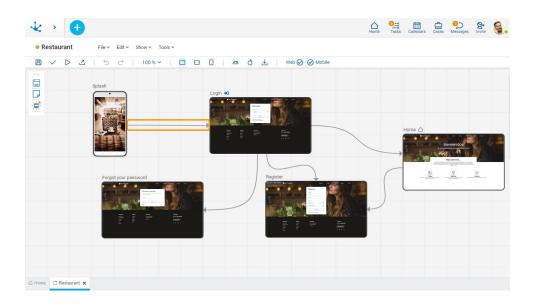
By right-clicking on the modeling area, a menu with the operations corresponding to the elements is displayed.



Image: Splash Splash Splash Image: Splash	Restaurant	File - Edit - Show - Tools -			
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Interaction Flow

Represents the connection between a page and its successor. Interaction flows are used to establish navigation within an application.



→ Modeling Flow

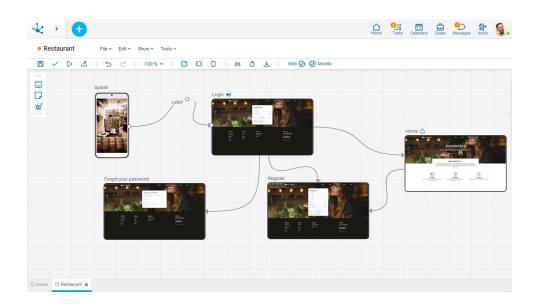
It is the default flow type, which is used in the modeling stage of the application. Indicates that a navigation between pages should be modeled.

Execution Flow

Indicates that there is productive navigation between two pages. That is, when a page that has a hyperlink to another one is published, if the flow is not modeled it is automatically generated in a light blue color. On the other hand, if it already exists, it changes its color from gray to light blue.

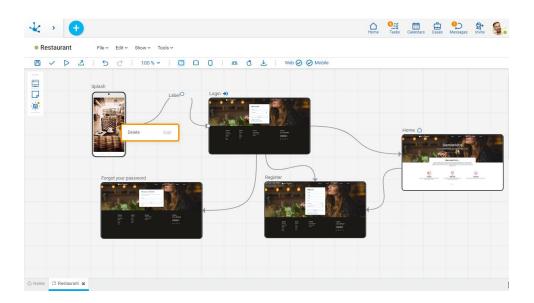


By double clicking on a flow, a text can be entered as a label. By clicking on a flow, a point of curvature is selected and created, which when dragged allows the flow to be given a new shape.



Context Menu

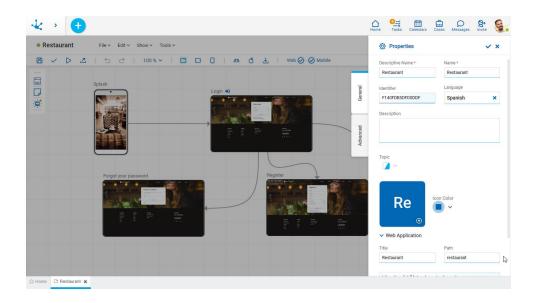
Selecting a flow opens a menu with the option to delete it.



3.7.3.2. General Properties

The properties panel is displayed on the right side of the applications modeler, where the first tab corresponds to general information.





Descriptive Name

Name used by the user to reference the application.

Name

It is used at the modeling level to reference the application.

Identifier

Uniquely identifies the application.

Language

Users may see the application in the language they have selected as <u>preference</u>, but if this preference is not configured, the language applied is the one indicated in this property.

Description

Text that defines the application describing its functionality.

Theme

It allows to select the color scheme in the application through the selected theme.

Image

An image is automatically associated to the application with the initials of its name and optionally a file can be uploaded. This image is displayed in the browser tab when executing the application.

Color

It allows to select a color for the image within the color range of the theme. If a file was uploaded as an image, this property is invalid.

Web Application

Title

Text displayed in the browser tab when executing the application. It allows to identify which application is being used.

Access Path



It allows to enter the name to access the application in order to execute it from the browser. The full login path is displayed below this property, including the name of the environment, concatenated by a "/".

Mobile Application

Version

Version number of the mobile application that keeps the semantic versioning format <main version>.<increased version>.</or>

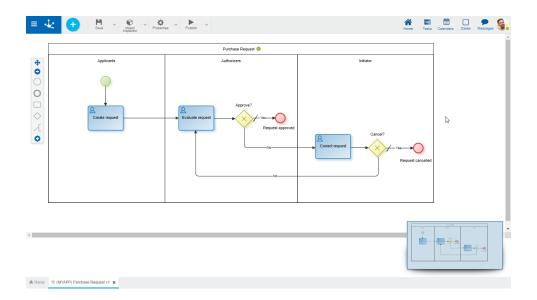
3.7.4. Processes Modeling



The process modeler from **Deyel** is a tool which allows IT modelers to design business processes in a collaborative work environment, using symbols from **BPMN 2.0** (Business Process Model and Notation)

By using this intuitive tool, the different business units can visualize the processes that are carried out within an organization and easily understand them.

When creating a <u>new process</u> or opening one already defined, it is allowed the access to a design space where the business process can be defined. Once it is finished, the process can be published and is available for use within the organization.



The general characteristics of the processes modeling environment and the main elements that compose it, are described in the topics:

- Modeling Facilities
- Graphic Elements



3.7.4.1. Modeling Facilities



Process Modeling> Introduction to process modeler

Process Modeling > Modeling a process from a template

General characteristics of this modeler are specified below.

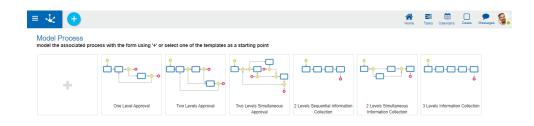
New Process

The modeler user from IT can design new processes which, after being defined and published, can be used in the portal of **Deyel**.

In the same workspace and by using concepts from **BPMN 2.0** (Business Process Model and Notation), it can be simply modeled in an intuitive environment:

- The process diagram with its activities, interconnections, events, time, alerts and actors involved, in a way that allows interaction with the business user and that they easily understand the process scope.
- Business rules which define the behavior of each of the diagram elements, as well as the validations, automatic actions for sending messages and integration with other applications.

Steps for Creating a New Process



Step 1: Open the Assistant with Templates

A new process can be created from the icon $\textcircled{\bullet}$ corresponding to the <u>context menu</u>.

• From the icon 😵



A Home 🗆 New process 2 🗙

• From the drop down menu with option "Process"

In both cases, an assistant is opened which allows to define the new process by selecting one of the predefined templates to base on, or starting from an empty design area.

Step 2: Enter the Templates Properties

The properties are grouped in containers.

Basic Information

Presents information common to all processes.

Name of the Process

The modeler should enter the name of the process they are creating.

Owner

User, organizational unit or role that is modeling the process, it is the responsible user of the process maintenance. The predetermined owner is the logged in user.

Opens the profile show panel.

😢 Deletes the selected participant.

Selects an existing participant. This icon is enabled when deleting a participant.

Initiator

The participant who can initiate the process, it can be a user, an organizational unit, a role or an agent. For a participant to start a process, it must be published. The predetermined initiator is the agent All users.

- Opens a "New Participant" window to define a new role.
- Opens the profile show panel.
- 😢 Deletes the selected participant.

Selects an existing participant. This icon is enabled when deleting a participant.

Participants

This container is only visualized if the new process is defined from a predefined template. The participants in the container depend on the type of template that has been selected. If an authorization template is selected, authorizing users will be displayed, while if a data collection template is selected, participating areas will be displayed. The predetermined value for the participants is the logged in user.

As many participants as there are actors in the selected template are defined. For each of the participants, a specific user can be selected, as well as an organizational unit, a role or an agent.



Opens a window to define a new role.

- Opens the profile show panel.
- 😢 Deletes the selected participant.

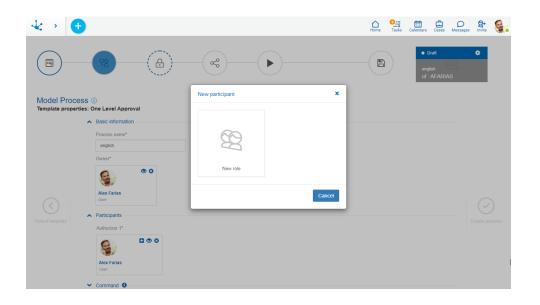
Selects an existing participant. This icon is enabled when deleting a participant.



New Participant

New Role

Allows to enter the name of the new role and the users that make it up.



Commands

A process can be used as a command, in such case the following properties must be completed.

Start from Chat

Indicates if a user can initiate the process from a conversation. If such property is checked the following must be completed:

Command Name

Allows to enter the command name with which the process can be initiated from a conversation.

Define New Assistant

Indicates if a new <u>chatbot</u> is defined or if an existing one is selected. By default the user can visualize the property <u>Select Assistant Bot</u>.

Assistant Bot Name

If the property Define New Assistant is checked, the name of it must be indicated.

Select Assistant Bot

If the property Define New Assistant is not checked, there must be a selection for which chatbot has the command.

Step 3: Close Properties Panel



Select Template

The user can return to the templates assistant to select a new one.

Create Process



The user moves on to the process workspace and depending on the option selected in the assistant, the graphic modeling area is displayed with a different content:

- With the process diagram corresponding to the selected template.
- With the minimal graphic elements so that a process can be saved, if none of the predefined templates have been selected.

Workspace Sections

- <u>Top Toolbar</u>
- Graphic Modeling Area
- <u>Side Toolbar</u>

3.7.4.1.1. Predefined Templates

Deyel provides a collection of standard process templates applicable to any organization. The modeler user of **Deyel** can select the template that best suits their needs to start modeling a new process immediately.

Besides, modifications deemed necessary to the process generated from the selected template can be added, as well as the definition of participants of each activity and the conditions that determine the data flow and its visibility.

According to the characteristics of the process they model, templates can be classified into groups.

Approval Process Templates

They model conditional branching situations, such as requests that are approved or sent for correction by the requestor.

These templates are suitable for defining vacation request processes, expense reimbursement requests or absence from work notice, among others.

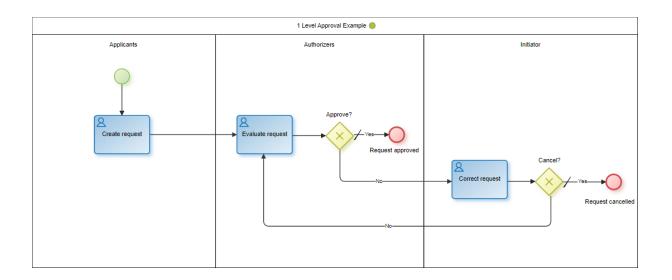
When executing the process, business users display the buttons corresponding to the available actions in each activity, such as "Approve", "Correct", "Deny" or "Cancel".

1 Level Approval

This template is used to implement processes that consider a single approval activity.

It allows users or organization areas, called "Applicants", to enter a request and send it for evaluation to other users or areas called "Authorizers". If the form is approved, the process ends, otherwise the form is sent back to the person who started the process to correct it and send it again for re-evaluation, or to cancel it outright.



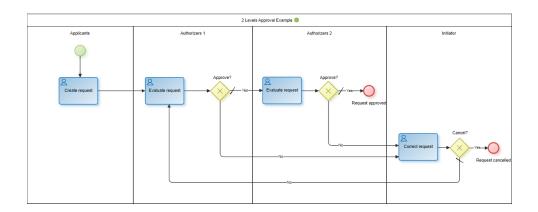


2 Levels Approval

This template is used to define processes with 2 sequential approval activities.

Adds an approval level to the template explained in "1 Level Approval ", that is, after the application is approved by the "Authorizers 1" level, it goes to the "Authorizers 2" level for evaluation. If the form is not approved in any of the authorization levels, it is sent back to the person who started the process to correct it and send it again for re-evaluation, or to cancel it outright.

These templates can be used to define authorization processes in organizations with different responsible persons for each approval level.



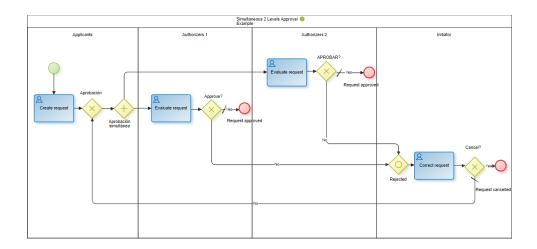
Simultaneous 2 Levels Approval

This template is used to define processes with 2 parallel approval activities.

It has two levels of approval as well as the template explained in "2 Levels Approval". Once the application is created it must be evaluated by the "Authorizers 1" level and the "Authorizers 2" level for approval, regardless of the order in which it is authorized. The case is finished only after having both approvals. If the form is not approved in any of the authorization levels, it is sent back to the person who started the process to correct it and send it again for re-evaluation, or to cancel it outright.



These templates can be used to define authorization processes in organizations with different responsible persons for each approval level and where the approval sequence is not relevant .



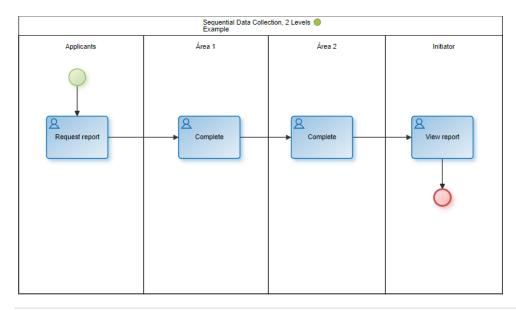
Data Collection Process Templates

They model processes where different business or office users, or the same but at different times, update the information of a case.

These templates can be used to define processes for hiring requirements, password generation, quote requirements, content publication, among others.

Sequential Data Collection, 2 Levels

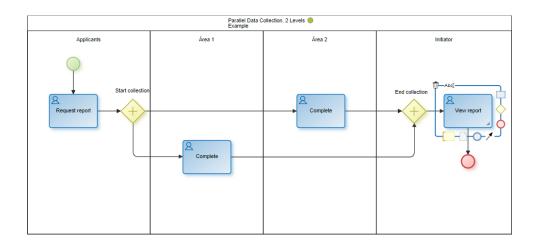
This template is used to define processes that collect data in 2 different stages. It can involve more than one business or office user and the request is ultimately forwarded to whoever started the process.





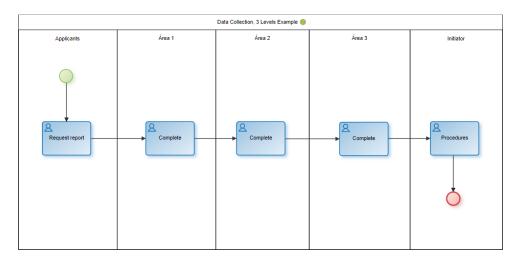
Parallel Data Collection, 2 Levels

This template is used to define processes that collect data in 2 different areas, regardless of the order in which they are performed. It can involve more than one business or office user and the request is ultimately forwarded to whoever started the process.



Data Collection, 3 Levels

This template is used to define processes that collect data in 3 different stages. It can involve more than one business or office user and the request is ultimately forwarded to whoever started the process.

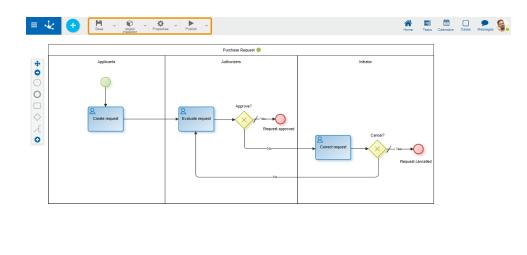


3.7.4.1.2. Top Toolbar

This toolbar contains icons and submenus from which you can perform operations on the object. Depending on its <u>state</u>, some options may be disabled.

The bar is displayed on the toolbar of **Deyel**.





A Home 😵 (MYAPP) Purchase Request v1 🕱



This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". If certain conditions are met, the modeler user receives a message indicating that the operation was performed correctly, otherwise they receive an explanatory message.

Main Conditions

- The object's application must exist.
- The name must be unique in the application.
- The object must not be locked by other user.

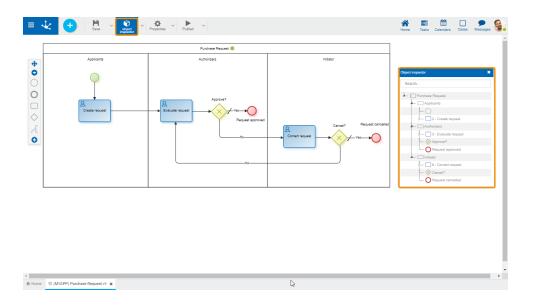
To the right of the icon it is displayed the option of opening the <u>submenu</u>.



When pressing this icon, a panel is displayed in which all the elements of the process with tree structure are shown.

This vision facilitates the analysis and development tasks, especially in complex diagrams.





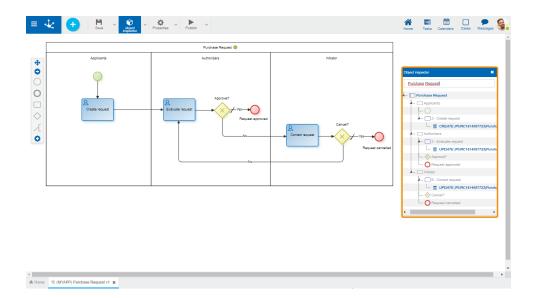
A search field is found on the top of the inspector which allows to search for elements by their names, identification codes, behaviour referred to the execution of an activity, or automatic actions already defined. Once the text has been introduced in the search field, the inspector shows the elements highlighted of the process that coincide with the inserted text.

From the object inspector, the properties panel of each element can be opened by double clicking on the name of said element.

To the right of the icon it is displayed the option of opening the submenu.

Usage Example

Identify in a process all of the activities which have the form named Expenses attached to them. When introducing such text in the search area, the inspector shows the references to the form in all of the activities that use it.







Open panel of process properties.

To the right of the icon it is displayed the option of opening the submenu.



By means of this icon the object goes to "Published" state, after verifying a set of additional conditions to those of the "Save" operation. The modeling user receives the corresponding message, indicating the result of the operation.

Main Conditions

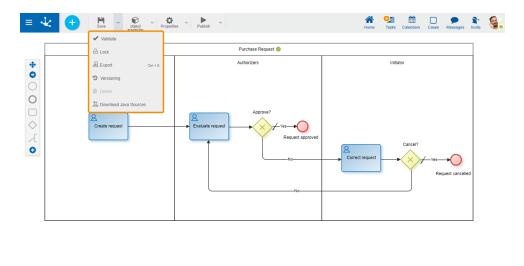
- The process must contain at least one lane with an activity and a participant.
- Send task properties must contain valid values for its type.
- Maximum duration must be modeled to define alerts.
- If there are initiated cases, activities must not be deleted.
- Activities cannot have more than one output.
- Outputs of the inclusive and exclusive gateways must have condition or button.
- In tasks, subprocesses and processes the name is required.
- In tasks as "User" or "Not defined", "Execution" tab must be defined.
- For subprocesses, a subprocess should be selected.
- For processes, the modeling participant is required.
- If an executing agent from a given activity is chosen in the lane, an activity must be defined for the participant.
- If an agent is chosen based on the form field in the lane, a form field must be defined for the participant.

To the right of the icon it is displayed the option of opening the submenu.

3.7.4.1.2.1. Save Submenu

This submenu is opened by pressing the icon immediately to the right of the icon corresponding to "Save".





✿ Home ¹ (MYAPP) Purchase Request v1 ★

✔ Validate

This icon validates if the object is ready to be published, that is, the validations performed are applied at the moment of <u>publication</u> and the result of the same is reported.

🔒 / 🔓 Lock/Unlock

A process diagram can only be modified by users, organizational units or roles defined as owner in the process properties.

- Allows blocking a process diagram to ensure that no one can modify it until the person who is using it unlocks it, that is, releases it.
- Allows to unlock a process so that another user, organizational unit or role, defined as owner can modify it.

🛃 Export

This icon opens a window for the user to select and confirm the export of the object and the related objects included in it.



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†		Select output format		6	2					
O		Definition		^ Չ	8					
\diamond	Create request	Enter description								
.⊼ ⊙		Exported objects		^	Cancel?	-				
		Name Purchase Request	Application MyApp	Type Process	×××	-Yes				
		 Purchase Request 	МуАрр	Form						
		 Currency 	МуАрр	List of Values						
				Cancel Export						
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Export Formats

PNG Image

A file with a png extension is generated, with the image of the process selected area.

Definition

It is the default export format for all objects.

Description

In this property a text explaining the reason for the operation can be entered. This text can be modified upon import and is displayed in the description column of the <u>export record</u>.

Exported Objects

Expanding the container, name, application and type of the objects related to the export process are displayed. Objects not meant to be exported are unchecked.

- Forms related to the process. If there are <u>value lists</u> associated with fields, their definitions are also included.
- Advanced rules used in <u>automatic actions</u>, in fields, from the <u>"Relation"</u> tab of the field properties or included in <u>embedded rules</u>.



Forms representing related entities are not included.

Press the "Cancel" button to undo export or the "Export" button to finish.

Version

Allows the user to version the process, display the previous versions and show them. By hovering over each previous version, an "Open" button is available to open that version.



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	Appleants	Versioning process Are you sure you want to versis Celusing versions Name Purchase Request	version 1	Status	Start case	Cancel?	res (Request c	ancelled				
Home	© (MVAPP) Purchase Request v1 st											

Existing Versions

Name

Name of the process being modeled.

Version

Number of each existing version.

States

State of each existing version.

Starts Case

Indicates the version to start cases. Only cases of a single version of the same process can start; being this the latest version that is in the "Published" or "Modified" state.

Press the "Cancel" button to cancel this versioning or press the "Accept" button to generate a new version from the previous one, that is, to generate a process whose version number immediately follows the current version.

볩 Delete

Allows to delete the object only if it is in "Draft" <u>state</u>, closing the tab in which it is located and deleting it from the modeler's grid.

🕮 Download Java Fonts

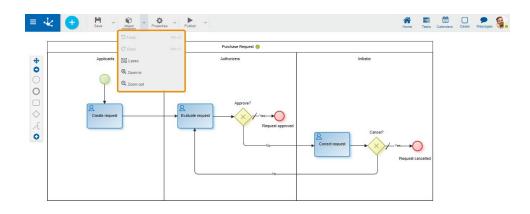
This icon allows to download the Java files that represent the object's model and service, so that it can be used in advanced rules.

Pressing the icon displays a message to confirm file download.



3.7.4.1.2.2. Object Inspector Submenu

This submenu is opened by pressing the icon immediately to the right of the icon corresponding to "Object Inspector".



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🕽 Undo

Returns the last modification made to the diagram. The same behavior is obtained with the keyboard combination ctrl + z.

C Redo

Redoes the action on the diagram that was eliminated with the "Undo" option. The same behavior is obtained with the keyboard combination ctrl + z.

🖾 Link

Allows to select the graphic elements that are linked by pressing the right mouse button on a point in the diagram and dragging to another end without releasing. Linked figures are temporarily marked with a border and can be moved using the cursor or deleted altogether.

🔍 Increase Zoom

Increases the display size of the diagram.

🔍 Decrease Zoom



Decreases the display size of the diagram.

3.7.4.1.2.3. Properties Submenu

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Properties".

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		Preferences								
		✓ [#] Enlarge Page	Purchase Request 😑							
•	Applicants	Shortcuts	Authorizers	Initiator						
0										
0	R Create request	Process messages Permissions Evaluate request	Approve?	Cancel?						
0			No	Correct request	Request canc	celled				

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Preferences

Defines the display preferences for process modeling.

• Show symbol identifiers

Indicates whether the internal identifiers of symbols are shown in the diagram. The default value is "No".

• Grid size

Define the number of pixels used when moving symbols in the diagram, when dragging them with the mouse. The default value is "1", although "10" or "20" can be selected for larger movements of the symbols with the mouse.

• Display Minimap

Indicates whether the thumbnail view is displayed in the lower right corner. This view consists of a small panel where the complete process is displayed.

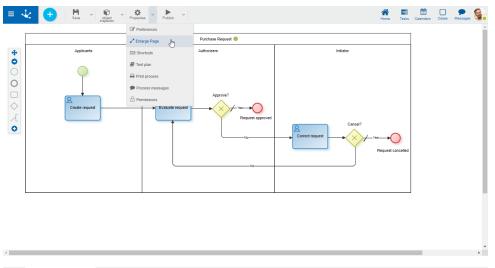
• Display validations on shapes

Indicates whether the exclamation mark is displayed on shapes with validation errors.

ZEnlarge Sheet



Increases the modeling area, which makes scroll bars to be displayed and the area of the diagram that is visible in the window is shaded in the thumbnail view. As scroll bars move, the shaded area scrolls in the thumbnail view.



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📟 Shortcuts

Opens a panel with all available keyboard shortcuts to use in process modeling.

/ Test Plan

In a new tab, it opens a panel with the grid corresponding to the test plans defined for the process. Operation buttons are available for each line of the grid. This option is enabled only when the process was saved.

🔒 Print Processes

Allows to print the process design. Opens a panel with the printing functionality for the process in a new tab. This option is enabled only when the process was saved.

Process Messages

Opens the case modelers chat window.

🔒 Permissions



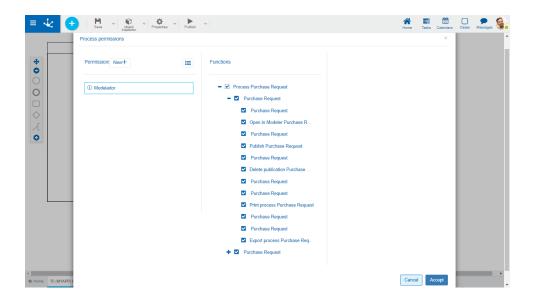
Allows to assign the <u>security functions</u> for use and modeling of the object to the existing permissions or to new permissions that the user creates, without having to go to the <u>permission</u> settings option from the menu.

Sections

- Permissions: Permissions to which object functions are assigned.
- Security Functions: Represents the total set of security functions, modeling and use of the object. Those that are marked are the ones included in the selected permission.

By default, all security functions for a new object are assigned to the permission Modeler.

Users who are assigned the permissions have access to the functions included in it.



New+

Opens a panel to create a new permission and once created, the security functions included in it must be selected .

Search permissions... Allows to select a permission from a list and enables the input of characters to filter the values in the list.

Opens the wizard to select a permission and once chosen, the necessary object security functions must be checked.

To unrelate a permission from the object, hover the cursor over the permission and press the icon X. If there are functions selected for that permission, they must be unchecked in order to delete it.



Modeling Security Functions

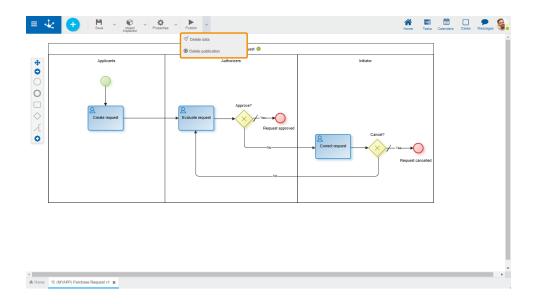
- Visibility: Allows to display the object in the Deyel modeler.
- Open: Allows to show the object from the Deyel modeler.
- Save: Enables the operation of saving modifications made to the object.
- Publish: Enables the operation of publishing the object leaving its state as "Published".
- Delete data: Enables the delete data operation.
- Delete publication: Enables the operation of deleting the object publication leaving its state as "Draft".
- Delete draft definition: Enables the operation of deleting the object.
- Lock/unlock: Enables the lock/unlock operation, only the user who locks it can modify it.
- Print: Enables the process print operation.
- Scenarios: Enables the operation of creating different testing scenarios.
- Test plan: Enables the operation of creating a test plan and adding scenarios to it.
- Export: Enables the operation to export the object from the save submenu of the top toolbar.

Security Functions of Use

• Start by agent: Allows to start a process if "Initiator Restricted by Function" was defined in the first lane as a participant.

3.7.4.1.2.4. Publish Submenu

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Publish".



Delete Data

All cases are deleted from the process. If each case had an associated form instance, it would also be deleted. In addition, the BAM information, cases and activities related to the process-version are deleted.



Delete Publication

Allows to delete the use process, which returns to the "Draft" <u>state</u>, in addition to deleting the process cases and the associated form instances, if any. The BAM information, cases and activities related to the process-version are also deleted.

3.7.4.1.3. Graphic Modeling Area

Processes Modeling > Graphic Modeling Area

Graphic modeling area is where processes are designed by using graphic elements from **BPMN 2.0** (Business Process Model and Notation)

Pie Menu

Circular menu which is displayed by making click on each modeled graphic element in the design area, showing the different symbols with which the selected object can connect to.

	Purchase Request 🔵			
Applicants	Authorizers	Initiator		
Create request	Approve?	Cancel? Correct request Request cancelle	3	
			-	

To incorporate a new connected symbol, pie menu of the graphic element selected must be opened, drag and drop the symbol to be connected on the modeling area.

Common Options

W Allows to delete the symbol AbcI Allows to edit the name of the symbol for its modification

Context Menu

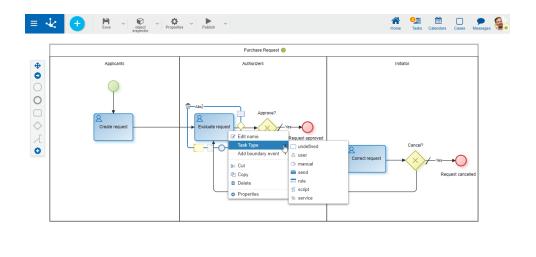


On clicking on the selected graphic element with the right mouse button, it opens a vertical menu with its options grouped as own of the object and common to all objects, besides from an option to open the properties.

Options

- Own of the Object
 - 🧭 Edit name
 - Available types according to the object
 - Other own actions of each object
- Common to All Objects
 - 🏁 Cut
 - 省 Сору
 - 🏛 Delete
- * Properties

Opens the properties panel of the graphic element, it is the same panel that is displayed by double clicking on the symbol.



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Thumbnail View

Complete image of the process which is visualized on the lower right corner of the graphic modeling area, the active work area is reflected in such image. It is visualized whenever you activate the option <u>Thumbnail View</u> of the option Preferences in the top toolbar.

Scrolling in the Modeling Area



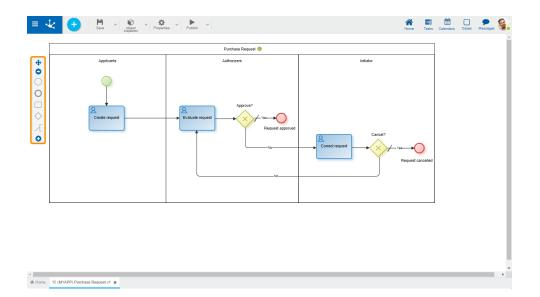
The vertical and horizontal scroll bars are used to slide the graphic modeling area, in order to allow the complete edition of the process. They are automatically activated when the diagram exceeds the size of the work window.

The modeling area can be enlarged by using the option Enlarge Page on the top toolbar.

3.7.4.1.4. Side Toolbar

Process Modeling > Graphic modeling area

It is the toolbar that contains the graphic elements corresponding to the <u>different types of symbols</u> that can be defined in the process diagram, based on **BPMN2.0** (Business Process Model and Notation).



Bar Elements

💠 Scroll Bar

Allows to move the icon bar to any position in the graphic modeling area.

♥ Show/Hide Names

Either displays a panel to the right of the bar with the names of icons, or closes it.

Start Event

A <u>start event</u> Indicates the beginning of a process, so they have no input flow but may have a trigger event.



Types

- Standard
- File
- Command
- Rule
- Email
- Signal
- Timer



An end event Indicates the end of a process, so it has no output flows.

Types

- Standard
- Signal
- Terminal



A task represents a work unit that is carried out as part of a process execution.



An gateway represents a branch point. Gateways can be of different types.

- Exclusive without marker
- Exclusive with marker
- Inclusive
- Parallel

... Annotation

An <u>annotation</u> allows the process modeler to add additional data, intended for the diagram reader.

C / C Show/Hide more Shapes

Allows to display the sidebar in full or reduced form.

] Subprocess

A <u>subprocess</u> is an activity that refers to another independently defined process.

O Intermediate Event



An <u>intermediate event</u> indicates where events may occur between the beginning and the end of a process. They affect the process flow, but they will not start nor end a process directly.

Types

- Capture link
- Catch signal
- Throw link
- Throw signal
- Timer

] Data Object

A data object represents information that flows through the process such as documents or emails.

Group

A group allows to group symbols visually.

3.7.4.2. Graphic Elements

The graphical elements of **Deyel** process modeler are based on **BPMN 2.0** (Business Process Model and Notation).

BPMN 2.0 is a standardized graphical notation that allows to model business processes in a workflow format. It provides an easy and understandable notation for all those involved in the business, whether they are business analysts (who define the processes), technical developers (responsible for implementing them) or business managers (who monitor and manage them).

BPMN 2.0 is intended to be the common language to reduce the communication gap that frequently occurs between the business process design and its implementation.

To model processes, elements must be dragged from the left palette to the selected position in the graphic modeling area and the properties of each element must be entered.

- <u>Pool</u>
- <u>Lane</u>
- <u>Activity</u>
- Flow
- Event
- Gateway
- Artifact

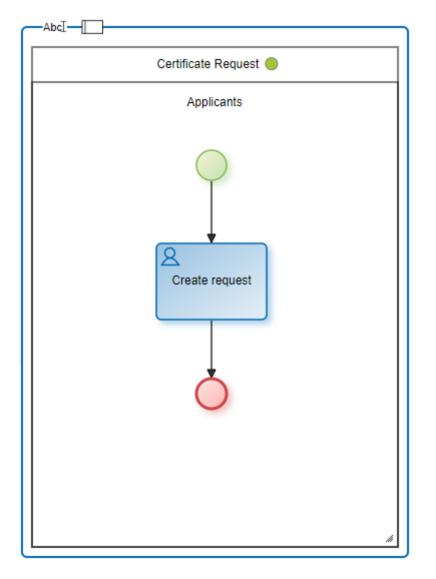


3.7.4.2.1. Pool

The pool is a graphical representation of a business process (Business Process).

"It is a set of one or more activities whose performance allows meeting a business objective, normally within an organizational structure context, which defines functional roles and relationships among them." [Workflow Management Coalition]

Pie Chart Menu



Abc]

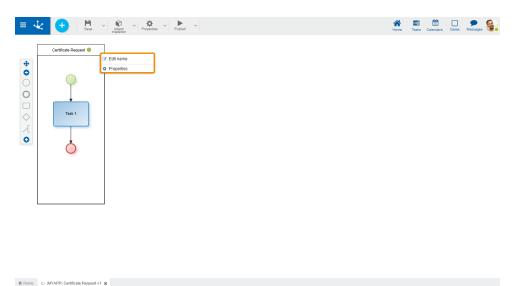
Opens an area for editing the name.

User Manual Version 8.4 Adds a lane.

Clicking on this icon adds a lane to the right inside the pool.

Every pool must have at least one lane. When you create a process without a template, a lane is automatically generated.

Context Menu



- Edit name: Allows to edit the name. Same functionality as the icon Abc
- Properties: Opens the properties panel to show and/or modify.

3.7.4.2.2. Lane

Lanes allow organizing the activities of a process. Each lane represents one participant.

"The lane is a partition that is used to organize and categorize activities within a pool. It is generally used to represent internal roles (for example managers), systems (e.g. business application) or internal departments (e.g. finance)." [Workflow Management Coalition]

Types of Participants

User

The activities included in the lane are executed by a specific <u>user</u> or by their <u>delegated users</u>, if any.

Organizational Unit

The activities included in the lane are executed by every user that belongs to the <u>organizational unit</u> informed.

Role

The activities included in the lane are executed by the actors defined within the role.

Agent

The activities included in the lane are executed by a participant who is dynamically identified when the activity is executed.

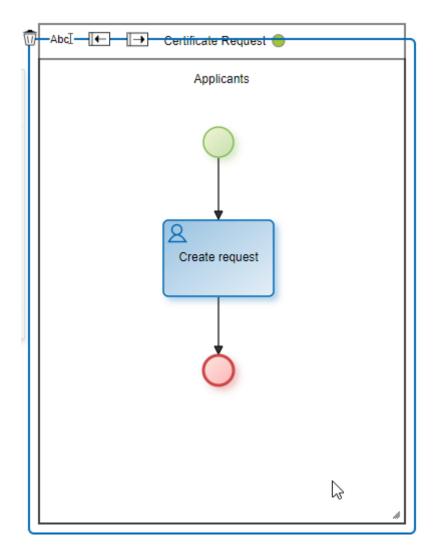


A predefined <u>agent</u> can be assigned as lane manager or else, define a new agent.

Lanes without Participants

If at the time of modeling a process, the persons responsible for each activity are not known, the lane may be left without an assigned participant as long as the process state is "Draft" or "Modified".

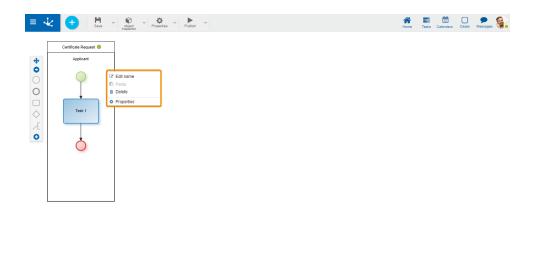
Pie Chart Menu



- AbcI Opens an area for editing the name.
- Deletes the lane.
- Add a lane to the left.
- \square Add a lane to the right.

Context Menu





A Home 🗆 (MYAPP) Certificate Request v1 🗙

- Edit name: Allows to edit the name. Same functionality as the icon AbcI.
- Paste: Allows to paste a previously copied graphic element into the lane.
- Delete: Allows to delete the lane. Same functionality as the icon $\overline{\mathbb{U}}$.
- Properties: Opens the properties panel to show and/or modify.

Lane extension

When more space is required to incorporate elements into the lane, either horizontally or vertically, click on the icon *A* and drag the cursor until the required lane size is achieved.

3.7.4.2.3. Activity

An activity can be understood as the representation of a work unit that is carried out as part of a process execution.

"An activity is the description of a task that is a logical step within a process." [Workflow Management Coalition]



The graphic representation of this element is a rectangular image with rounded corners that contains a label with the name of the task inside it, identifying the types of activities with different icons inside.

Types

- <u>Tasks</u>
- Subprocess

3.7.4.2.3.1.Task



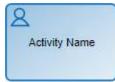
A standard activity or task is an indivisible work unit performed as part of the execution of a process.

Types

The **BPMN 2.0** notation (Business Process Model and Notation) allows to typify standard activities or tasks in such a way that the graphic element used indicates the task type it represents. The task type definition is made in different ways:

- From the task context menu, selecting the option "Task type".
- From the task property panel.





User Task

Task that needs human intervention to be performed. When an activity modeled as a user task must be executed, it is informed to the participants of the process in <u>My Tasks</u>, in the top toolbar It is recommended to use this notation to model all the activities in which the user has to create, modify or show a form.



Manual Task

Represents a task to be performed by the user without any application support. Only moves on to the next activity.

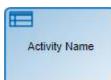
It is recommended to use this notation to model activities such as making a telephone call to the customer, paying a visit or installing audio equipment, among others.



Send Task

It is used to send a message to an external participant regarding the process. When the message has been sent, the task ends.

This task type is used to model automatic mailing tasks. They do not define user participation.



Business Rule Task

Represents a call to an <u>advanced rule</u>, being able to exchange parameters between the task and the rule. They do not define user participation.



Script Task

This task type only performs <u>automatic actions</u>. They do not define user participation.

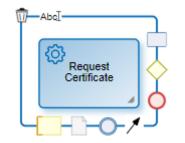




Service Task

Represents the execution of a service, automatically and without user intervention, which is carried out through the <u>adapters</u>. This notation is recommended to model the use of a web service, an automated software component or an integration rule. They do not define user participation.

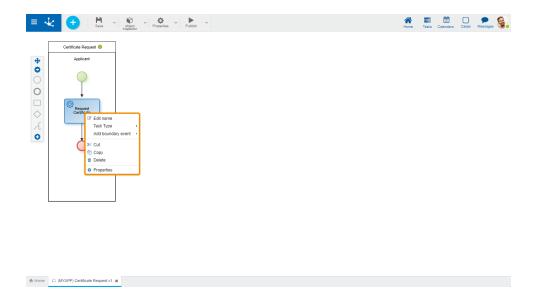
Pie Chart Menu



- Abc I Opens an area to edit the name.
- Deletes the task.
- Adds an activity.
- Adds a gateway.
- Adds an end event.
- Adds a flow.
- Adds an intermediate event.
 - Adds a data object.
 - Adds a comment.

Context Menu





- Edit name: Edits the name inside the rectangle that represents the activity. Same functionality as the icon AbcI.

- Task type: Defines the type of task.
- Add border event: Incorporates an border event to the task.
- Cut: Deletes the selected task. It can be pasted in another process location.
- Copy: Copies the selected task. It can be pasted in another process location.
- Delete: Deletes the selected task.
- Properties: Opens the property panel to show and/or modify.

3.7.4.2.3.2. Subprocess

It is an abstract activity that represents an independently defined process. It is used to hide levels of detail in processes and allows to reuse modeled processes. For example, if different processes have a common part, it can be defined only once and be reused in each process.

Once the execution of the subprocess is complete, control returns to the process that uses it and continues with the next modeled activity.

Pie Chart Menu



Abc I Opens an area for editing the name.

Deletes the subprocess.





Context Menu



A Home 🗆 (MYAPP) Certificate Request v1 💥

- Edit Name: Edits the name inside the rectangle that represents the activity. Same functionality as the icon AbcI.

- Show Subprocess: Opens the subprocess in a new modeler tab.
- Cut: Deletes the selected subprocess. It can be pasted in another location.
- Copy: Copies the selected subprocess. It can be pasted in another location.
- Delete: Deletes the selected subprocess.
- Properties: Opens the properties panel to show and/or to update.

3.7.4.2.4. Flow

A flow represents the connection between an activity and its subsequent activities. Flows are used to establish the sequence in which defined activities are executed.

"Sequence flows are used to show the order in which activities are carried out within a process." [Workflow Management Coalition]

Normal flow

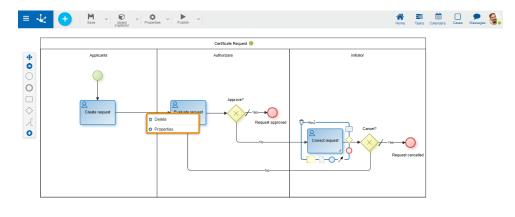
A flow can determine a required path, that is, the process has no option not to execute it nor an optional path, in which case, the subsequent activity may or may not be executed.



Default Flow

The <u>exclusive</u> and <u>inclusive gateways</u> must have a defined predetermined flow so that the process can execute its path in case none of the conditions for the output flows of the aforementioned gateways are met.

Context Menu



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- Delete: Allows to eliminate the flow.

- Properties: Opens the properties panel to show and/or modify.

3.7.4.2.5. Event

An event is an fact or incident that occurs during the execution of a business process. In general, they require an action and allow a reaction.

Represents situations such as start of activities, end of activities, document change of state, message arrivals, among others.

"An event is something that happens during the course of a process. They generally have a cause and an impact." [Workflow Management Coalition]

Start events

They indicate the way in which a process is started. They have no input flow.



Standard

It does not have a trigger event, therefore it indicates that the process does not start automatically.



Command

Indicates that the process starts by executing a command from a chat window of the instant messaging of **Deyel**.

These events are used to model processes that are executed from a chat window, by means



of actionable messages if data entry or decision making is required.



<u>Email</u>

Indicates that the process starts when an email arrives to a certain email account, which may come from another participant, another process or other application. They are detected by scheduled tasks called EMAIL-type Event Generators.



<u>Timer</u>

Indicates that the process starts after a certain time cycle or on a specific date.



<u>File</u>

Indicates that the process starts when a new file is detected in a certain folder.



<u>Rule</u>

Indicates that the process starts from the execution of a certain business rule.



<u>Signal</u>

Indicates that the process starts each time it catches the indicated signal. The current process may not be the only receiver of the transmitted signal.

End events

Indicate the completion of the process. They have no outflow.



<u>Standard</u>

Indicates the completion of the process without adding any behavior.



<u>Signal</u>

Indicates the end of a process and sends a signal to other processes that are waiting to catch it.



Terminal

Indicates that all process activities are immediately finished when the process comes to an end. When any of the paths reaches this event, the entire process is finished.

Intermediate events

Indicate possible event occurrences that take place between the beginning and the end of a process.



Throw Link and Catch Link

These events facilitate the use of diagrams. They represent the connection of two sections of the same process distantly located in the process diagram.





Throw Signal

Used to send a signal that is received by signal catching events, whether they are initial, intermediate or final indistinctly, of the current process or of another process.



Catch Signal

Indicates that the process is waiting for the reception of a signal sent by the same process or another, in order to advance.



<u>Timer</u>

Acts as a mechanism that waits until a certain date or during a specified cycle.

Border event

They are intermediate events that are directly associated with an activity.

These events can be triggered only when the activity to which they are associated is being executed. The output flows of border events are called exception flows, as they are executed only if the border event is activated.

They are used in particular for managing exceptions and waiting periods with certain deadlines.

• Interrupting events

When the border event is activated, the execution of the current activity is interrupted and the process continues through the output flow of the activated border event.

They are represented by a solid line.

• Non-interrupting events

When the border event is activated, the process starts a path to treat the exception, in parallel with the normal process.

They are represented by a dashed line.



<u>Signal</u>

This event is waiting for the reception of a signal that can be emitted by this or another process.

<u>Timer</u>

This event is activated at a specified moment or at certain time intervals.

<u>Rule</u>

These type of events represent the execution of a business rule. They are detected by scheduled tasks called "Component-type Event Generators".

<u>Email</u>

These type of events represent the arrival of an email to a certain email account. They are detected by scheduled tasks called EMAIL-type Event Generators.





<u>File</u>

These type of events represent the appearance of a new file in a certain folder. They are detected by scheduled tasks called "FILE-type Event Generators".

Pie Chart Menu

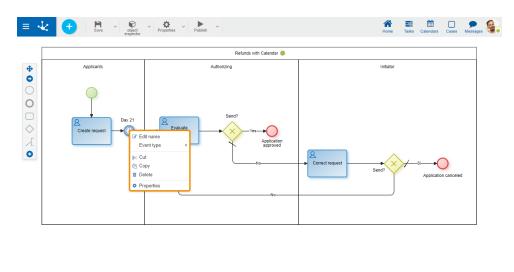
The options presented in the pie chart menu vary depending on whether it is a start, intermediate or end event.



- Abc I Opens an area to edit the name.
- Deletes the event.
- Adds an activity.
- Adds a gateway.
- Adds an end event.
- Adds a flow.
- Adds an intermediate event.
- Adds a comment.

Context Menu





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- Edit name: Allows to edit the event name. Same functionality as the icon AbcI.
- Event type: Allows to define the type of event. Its options vary depending on whether it is a start, intermediate or end event.
- Cut: Deletes the selected event. It can be pasted in another process location.
- Copy: Copies the selected event. It can be pasted in another process location.
- Delete: Deletes the selected event.
- Properties: Opens the properties panel to show and/or modify.

3.7.4.2.6. Gateway

A gateway is incorporated into the model to determine whether the data flow routes within a process branch or merge depending on the definition of conditions.

"Gateways are used to control how sequence flows interact as they converge and diverge within a process." [Workflow Management Coalition]

Types





Exclusive Gateway

An exclusive gateway is where only one of the exit paths continues with the task sequence. Gateways have two representations, although both have the same behavior. By convention, the same representation must be used for the entire definition of a process.

- Exclusive gateway without marker.
- Exclusive gateway with marker.

The possible exit paths of the gateway are set by selecting one of the following options:

• Definition of conditions

It is necessary to define <u>conditions</u> for gateway output flows, which are evaluated sequentially. When a condition is met, the process continues along this path, without evaluating the remaining conditions.



• Button definition

It is necessary to define <u>buttons</u> for gateway output flows. When users press a button, the process continues along that path.

The exclusive gateway must have an output flow defined as default so that the process can continue when no conditions are met.



Parallel Gateway

It is used to create parallel paths and synchronize activities. All exit paths are activated without evaluating the conditions.

Parallel gateways can be defined in pairs, one as a divergence element to activate several parallel paths simultaneously and the other as a convergence element to synchronize previously activated paths. In the latter case, when the gateway is used for synchronization, the output is activated when the input paths are completed, that is, all activities preceding such point have ended.

The output flows of a parallel gateway do not require definition of conditions, since all exit paths must be completed.



Inclusive Gateway

It is used to activate one or more paths and synchronize activities. All output flow conditions are evaluated.

Inclusive gateways can be defined in pairs, one as a divergence element to generate parallel activities and the other as a convergence element to synchronize previously activated paths. For divergence, at least one exit path must be activated, while for convergence, all activated paths must be completed.

• Definition of conditions

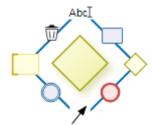
It is necessary to define <u>conditions</u> for inclusive gateway output flows. All conditions are evaluated and the process takes all the paths where conditions are met.

• Button definition

It is necessary to define <u>buttons</u> for gateway output flows. When users press a button, the process continues along that path. The same button can be defined for more than one flow.

An inclusive gateway should have an output flow defined as default, in order to prevent execution errors, when no flow condition is met.

Pie Chart Menu

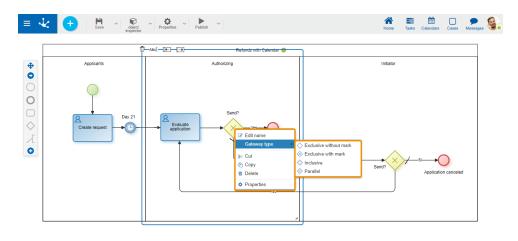


Abc] Opens an area for editing the name.





Context Menu



A Home 8 (MYAPP) Refunds with Calendar v1 🗙

- Edit name: Opens an area for editing the name. Same functionality as the icon AbcI.
- Gateway Type: Defines the type of gateway.
- Cut: Deletes the selected gateway. It can be pasted in another process location.
- Copy: Copies the selected gateway. It can be pasted in another process location.
- Delete: Deletes the selected gateway.
- Properties: Opens the property panel to show and/or modify.

3.7.4.2.7. Artifact

They are shapes that improve the expressiveness of diagrams, representing data related to the process but with no influence on performance.

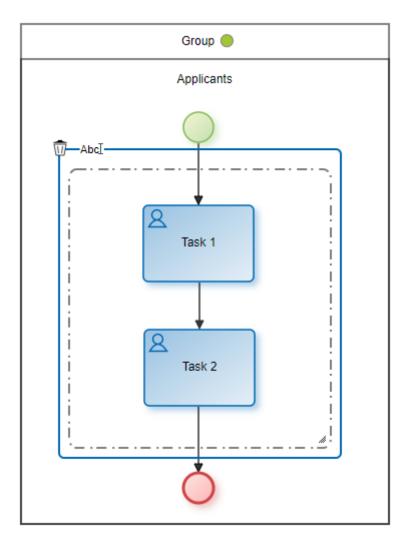
"Artifacts are used to provide additional information about the process." [Workflow Management Coalition]

Group

Visually groups shapes in the diagram.



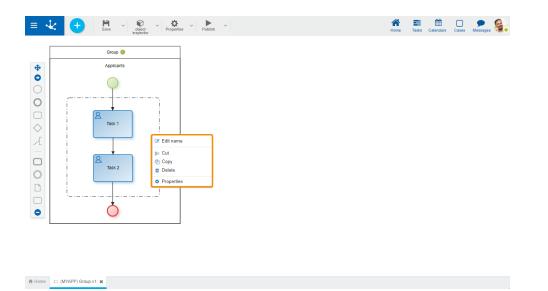
Pie Chart Menu



- Abc] Opens an area for editing the name.
- Deletes the group.

Context Menu





- Edit name: Edits the group name. Same functionality as the icon AbcI.

- Cut: Deletes the selected group keeping the shapes it groups. It can be pasted in another process location.

- Copy: Copies the selected group. It can be pasted in another process location. It does not copy the elements it groups.

- Delete: Deletes the selected group keeping the shapes it groups. Same functionality as the icon $\overline{\mathbb{W}}$.

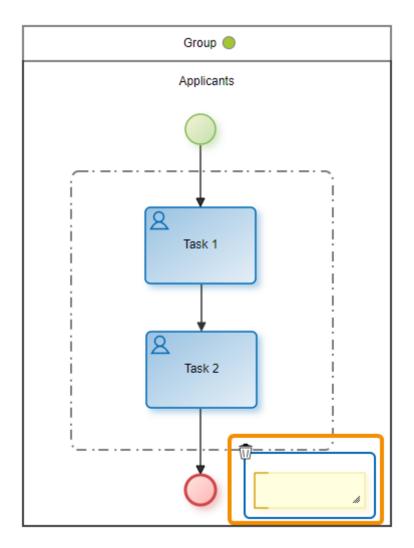
- Properties: Opens the properties panel to show and/or modify.

Annotation

Area where the modeler can write explanatory texts.

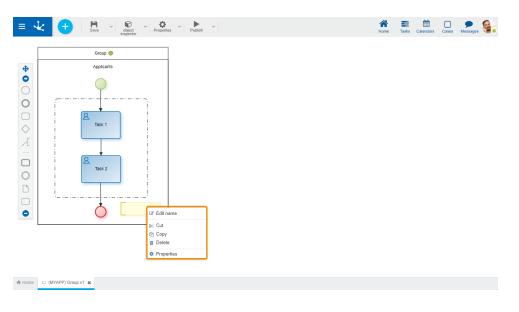
Pie Chart Menu





Deletes the selected annotation.

Context Menu



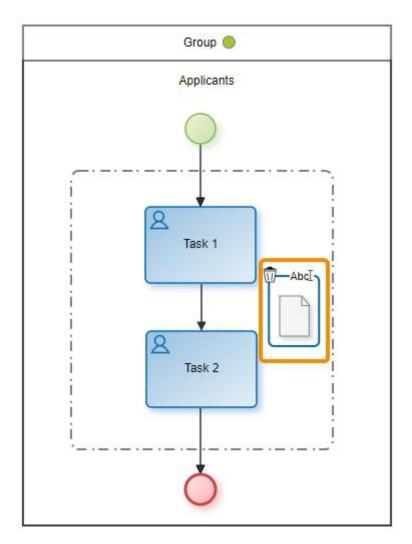


- Edit name: Allows to edit the annotation text.
- Cut: Deletes the selected annotation. It can be pasted in another process location.
- Copy: Copies the selected annotation. It can be pasted in another process location.
- Delete: Deletes the selected annotation. Same functionality as the icon $\overline{\mathbb{U}}$.
- Properties: Opens the properties panel to show and/or modify.

Data Object

Represents the information that accompanies the process circuit or is generated during it, such as documents or notifications.

Pie Chart Menu

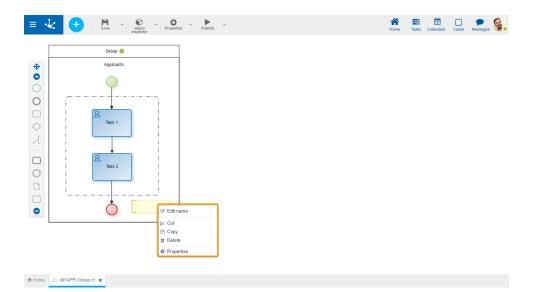


Abc I Opens an area for editing the name.

 \overline{m} Deletes the selected data object.

Context Menu



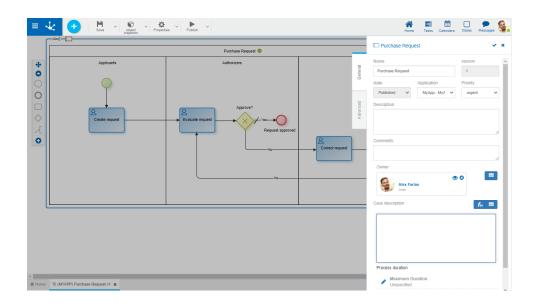


- Edit name: Edits the name of the data object. Same functionality as the icon AbcI.
- Cut: Deletes the selected data object. It can be pasted in another process location.
- Copy: Copies the selected data object. It can be pasted in another process location.
- -Delete: Deletes the selected data object. Same functionality as the icon \overline{U} .
- Properties: Opens the properties panel to show and/or modify.

3.7.4.3. Process Properties

There are different ways to enter a process properties panel:

- Press the icon 🍄 from the <u>top toolbar</u>.
- Double click on the graphic element corresponding to pool.
- Access the context menu of the pool graphic element.



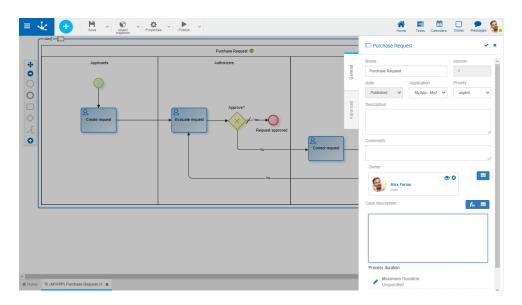


Tabs

- <u>General</u>
- <u>Advanced</u>

3.7.4.3.1. General

The properties panel is displayed on the right side of the process modeler, where the first tab corresponds to general information.



Properties

Name

It is the name used at the modeling level to refer to the process, for example, in the <u>modeler's grid</u> and in the <u>object inspector</u>.

Version

Process version number. Along with the <u>Identifier</u> property, they form the unique identification of the process.

This attribute allows to incorporate modifications in the process design without impacting executions that are still active (unfinished cases).

It is a non-modifiable attribute. The modeler user can version the process from the top toolbar.

State

Indicates the current <u>state</u> of the process. It is automatically updated when start, modify, save, publish and inactivate operations are executed.

The state of the process determines the level of validations that are carried out on it and the possibility of being used.

Application

Allows to define the application to which the object belongs. If no application is reported, the object is assigned to the application "Global".



Priority

Indicates the priority assigned to the process activities, when they do not have an expressly defined priority. Possible values are URGENT, HIGH, MEDIUM, LOW.

Description

Text that defines the process describing its functionality.

Comments

Observations on the process.

Owner

Indicates the person who has control and vision of the process from start to finish. The owner can be a user, an organizational unit, a role, or an agent.

It is, by default, the logged in user.

Opens the profile show property.

😢 Deletes the informed owner

Allows to select an existing owner

You can also use the autocomplete function. As characters are entered into this field, the first five matches dynamically appear to select one of them.

Case Description

It is a description that represents each one of the process executions.

Allows to select functions from a list to incorporate dynamic information into the case description.

Allows incorporating attributes of the entities that are used in the execution of the process to the case description. For example, in the "Refund Request" process, the request date can be incorporated, which is a form variable used in such process.

The description entered is displayed in:

- The <u>last tasks</u>, by pressing the Tasks icon on the top toolbar.
- The <u>task execution</u> panel, below the activity name.
- The Description column in the tasks grid.
- The last tasks, on the element that represents the form in the grid of "Forms and Tasks".

Process Duration

Allows to set the Maximum duration and Average duration to carry out the process.

Allows to edit the maximum and average duration.

• By duration

A deadline in days, hours, minutes and seconds is reported.

• By due date

A date-type variable is selected, from a form associated with the process, using the icon

In the process execution, the value of such variable is used as due date. If the value of the variable used to define the due date is modified, process duration is automatically updated.

Saves changes made to duration.

× Cancels changes made to duration.



	Purchase Request 🥏		Purchase Request	
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\vee			Published V MyApp - MyA V	
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	Request approve			
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			Alex Farias	
			Case description	fie 🗉
			Process duration	

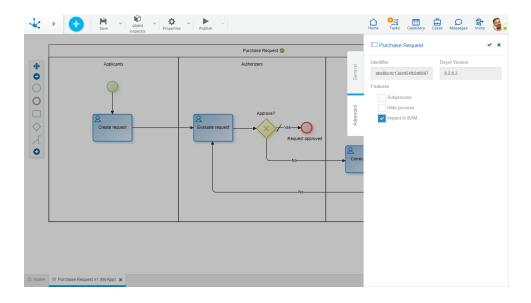
Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🗙 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.4.3.2. Advanced

The second tab of the side panel corresponds to advanced properties of the process.



Properties

Identifier



Alphanumeric code that is automatically assigned to the process. Users cannot modify it. Along with the <u>Version</u> property, they form the unique identification of the process.

Deyel Version

Indicates a version by **Deyel** with which the process was last saved or published.

Features

One of the following options can be indicated:

Subprocess

Indicates that a process is defined to be used exclusively as a subprocess of others. It can only be started when it is invoked from another process in an <u>activity of type subprocess</u>. It cannot be started by a user manually from the functionality "Start Cases".

Hide Process

Indicates if a process remains visible in the <u>Context Menu</u> and from <u>Forms and Tasks</u> so that users can start it.

Impact on BAM

Indicates if process data is taken into account in the BAM reports. By default, the property is not checked and the process is not included in BAM. The property can be checked so that from a certain moment, the **Deyel** information goes to BAM.

The following situations should be taken into account:

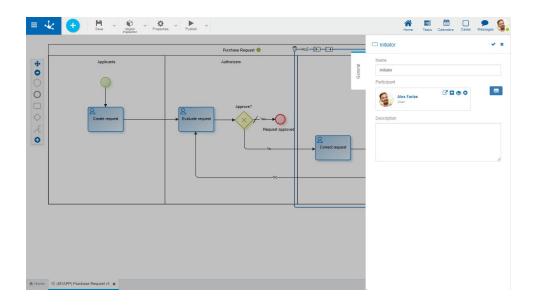
- If the process is published, modified, or has data, the property can be checked, but not unchecked.
- If the property needs to be unmarked, all instances of the process must first be deleted with the "Delete Data" function so that the property is enabled for modification.

3.7.4.4. Lane Properties

There are different ways to enter the properties panel of a lane:

- Double click on the graphic element corresponding to the <u>lane</u>.
- Access the <u>context menu</u> of the lane graphic element.





General Tab

Properties

Name

Lane name. It must clearly represent those who perform the tasks within the lane.

Participant

It is the participant in charge of executing the activities included in the lane.

Allows to select an existing participant, which can be a user, an organizational unit, a role, or an agent. The autocomplete formula can also be used. As characters are entered into this field, the first five matches dynamically appear to select one of them.

Allows to display a window with complete information on the participant, if he is defined as a user, organizational unit or role.

Dpens a window to define a new role.

Opens the profile show panel only if it is a user.

😢 Deletes the informed participant.

Description

Conceptual description of who executes the tasks within the lane.

Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

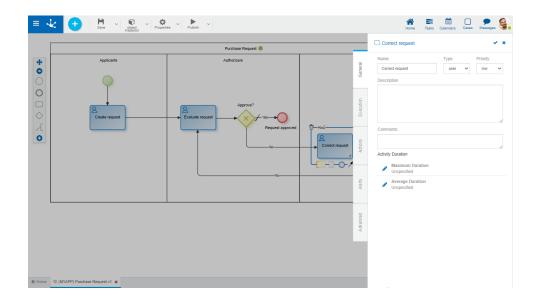
The icon 🗙 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.4.5. Activity Properties



There are different ways to enter the properties panel of an activity:

- Double click on the graphic element corresponding to the <u>standard activity or task</u>.
- Access the <u>context menu</u> of the activity.



Tabs

- <u>General</u>
- Execution
- <u>Actions</u>
- Alerts
- Advanced

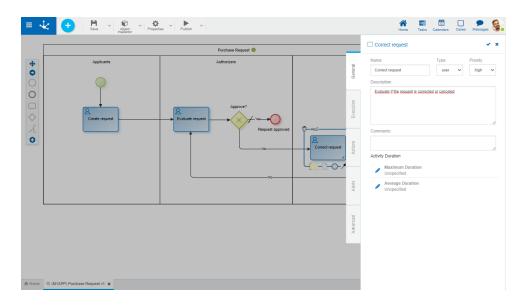
The business modeler user can have access to all tabs except for "Advanced". The IT modeling user can access all of them.

For each of the "General", "Execution", "Actions" and "Alerts" tabs, access permissions are defined from the <u>security module</u>. Users can see only the tabs they are allowed to access.

3.7.4.5.1. General

The properties panel is displayed on the right side of the activities modeler, where the first tab corresponds to general information.





Name

Activity name. It refers to the action performed by the activity.

Туре

Defines the type of activity.

Priority

Indicates the activity priority. Possible values are URGENT, HIGH, MEDIUM, LOW. The user can display this property in the to-do list and use it as a sort criteria, according to their preference.

Description

Description of the activity that can be used as an online manual. The user who executes the activity can see it by clicking on the icon 📀.

Comment

In this field, the designer can document in detail what the task consists of.

Activity Duration

Allows to set the Maximum Duration and the Average Duration of the activity.

When the execution of the activities begins, these durations are transformed into a maximum due date and an expected expiration date, respectively. The <u>activity due date calculation</u> is made in different ways, depending on whether the definition of maximum duration is made according to duration or due date.

In the <u>case show</u> or in the <u>tasks show</u>, the due date and time of the task are displayed and in addition, on these durations, <u>alerts</u> can be set.

Edits the maximum and average duration.

- By duration
 - A deadline in days, hours, minutes and seconds is reported.



• By due date

A date type variable is selected from a form associated with the process, using the wizard icon

In the activity execution, such variable value is used as due date. If this variable value is modified, the due date of the activity is automatically modified.

Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🗙 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.4.5.1.1. Activity Due Date Calculation

The activity due date is calculated in different ways, depending on whether the <u>maximum duration</u> was modeled from a duration or by selecting a form field related to the process.

The calculation detail is made for the due date but it is also valid for the average date, depending on the modeling of the <u>average duration</u> of the activity.

Due Date Based on a Duration

Elements involved in the calculation:

- Activity start date and time.
- Activity maximum duration.
- Calendar of the participant who executes the activity.
- Configuration of holidays and special dates.

Calendar of the Participant Who Executes the Activity

When the participant is a user:

- The calendar established in the user's profile is considered.
- If not indicated, the calendar established in the user's organizational unit is considered.
- If the unit does not indicate a calendar, it moves up in the hierarchy, searching for a higher unit to establish a calendar.
- If no higher unit indicates a calendar, the standard calendar is considered.

When the activity is executed in an organizational unit:

- The calendar established in the organizational unit is considered.
- If the unit does not indicate a calendar, it moves up in the organizational structure, searching for a higher unit to establish a calendar.
- If no higher unit indicates a calendar, the standard calendar is considered.

When the activity is assigned to a generic role:



- The standard calendar is considered.
- When role players assign themselves an activity, the due date is recalculated considering the calendar of the executing participants.

Steps for Activity Due Date Calculation

Step 1: The maximum duration of the activity is calculated, expressed in seconds.

The number of days, hours, minutes and seconds, indicated in the activity definition, is considered.

The number of hours and minutes of a working day is retrieved from the executing participant's calendar.

The maximum duration of the activity is calculated as:

```
Maximum Duration in Seconds =

Activity.Days * (Calendar.Hours * 3600 + Calendars.Minutes * 60) +

Activity.Hours * 3600 +

Activity.Minutes * 60 + Activity.Seconds
```

Step 2: The user's working times are defined, through the executing participant's calendar, together with the definition of general holidays and specific dates.

Each of the work bands is perfectly defined by the calendar, and has a start date and time and an end date and time, therefore, this specification can be converted to a number of work seconds.

The definition of "Holidays" means that certain periods are considered non-working days.

The definition of "Specific Date" allows to establish specific working times for a specific date.

The definition of specific dates that is performed at the calendar level takes precedence over the general specific dates.

Step 3: Express the Start Date and Time of the activity, in the time zone of the executing participant's calendar.

Based on that date, working times are assigned until all the seconds that correspond to the activity duration are assigned.

In this way, the activity due date is calculated, according to the user's working times.

Due Date Based on a Form Field

The due date takes the value of a form field.



If the field data type is Date or Local Date, if the value entered is MM/DD/YYYY, the due date is MM/DD/YYYY at 23:59:59.999

If the field data type is Date and Time, the DD/MM/YYYY HH:MM:SS value is considered as the due date.

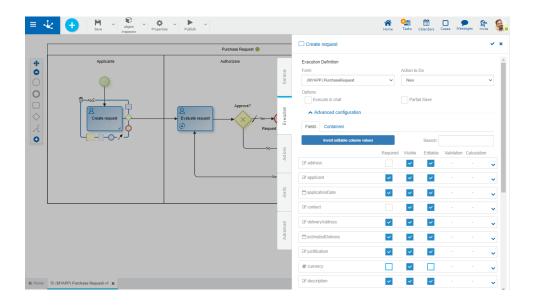
If the field type is Local Date and Time, the DD/MM/YYYY HH:MM:SS value is transformed to the standard calendar time zone and is considered as the due date.

3.7.4.5.2. Execution

Process modeling > Modeling the execution of a process

The second side panel tab of an activity corresponds to execution information and it is displayed only for manual, user or undefined activities.

Allows modeling users to define behaviors of the activity and form fields, according to the action performed. There must be at least one form previously associated with the process.



Execution Definition

In this section, the general properties of the activity execution are defined.

Form

Displays the name of the form related to the process used in the activity.

Action to Do

Action performed on the form in this activity.

• Open

Displays the form instance in show mode. Fields cannot be edited.

• New

Creates a new form instance that is related to the case. When there is an instance already created, it works like a "Modify" action.



• Modify

Displays the existing form instance and allows to modify the fields defined as editable.

Options

Require Confirmation

This option displays a confirmation message to execute a task.

A "Confirmation Message" container displays by checking this mark . When displayed, an editing area opens to enter the text of the message or an embedded rule that returns the confirmation message if applicable. If the rule does not return a text, the activity is executed without requiring confirmation.

Execute on Chat

This option allows the task to be executed not only from the task icon on the top toolbar, but also from the **Deyel** chat.

Selecting this check expands the properties panel to set the actionable message.

• Who will send the message?

Indicates a **Deyel** user that sends the message. Allows to use the <u>autocomplete</u> function to select it.

Message content

The text that makes up the body of the message is reported, this text can contain variables and functions. To select them you can use their wizards, of variables and of f_{max} and of f_{max} .

• What fields can the user complete?

Using the "Drag and Drop" function, fields are moved from the form fields area to the fields to complete area.

The fields to be completed must be entered by the user in the chat.

Save Partially

This option indicates that when executing the activity, the "Save" button is added, which allows to keep the values entered by the user, with no need to execute the activity.

Advanced Settings

To show this section, an action to do must have been previously defined.

Fields

In this tab, a grid with the form fields is displayed. The properties of these fields can be redefined for the execution of each activity.



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			Purchase Request 🧶	Ľ							Ť
	Applicants	, ,	Authorizers	1	Invert editable column values			Search:			
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Invert editable column values

Inverts the values of the Editable property, for all the fields displayed in the grid. If it is narrowed by search filter, the modification affects only the filtered fields.

Search:	
---------	--

As characters are entered to the search field, it dynamically filters the fields whose <u>Label</u> or <u>Name</u> properties, indistinctly, match the text being entered.

Fields Grid

It is made up of form fields according to the filter applied. Each field is identified by its property Name.

The grid columns correspond to the modeled behavior properties, whether they have been defined from the form modeler, or from the activity itself.

Properties are modeled simply by checking or unchecking them and if they have embedded rules defined, they are displayed by icons. Checks and icons are displayed in blue if properties or rules were modeled in the form, while they are in light blue if they were modeled in the activity.

If there are properties or rules modeled from the form and any of them are modified from the activity, these modifications overwrite the definitions of the form only for the task execution.

If any property or rule of the form is overwritten from an activity, subsequent modifications made from the form have no impact on the behavior already defined in the activity.

If a field is added to the form, it is added to the activities that use the form, as non-required and non-editable, regardless of how it has been modeled on the form.



Required

Indicates if the field is required during the activity execution and if any required rule is defined, it displays the icon *.

Visible

Indicates if the field remains visible in the activity and if any visibility rule is defined, it displays the icon <u>ن</u>

Editable

Indicates if the field is editable for the activity and if any editability rule is defined, it displays the icon 1

Validation

Indicates if there is a validation rule for the field with the icon \checkmark .

Calculation

Indicates if there is a calculation rule for the field with the icon $\overline{a^*}$.

Pressing the icon \checkmark expands the area of <u>values and rules modeling</u> of each field.

Containers

In this tab, a grid with the form containers is displayed. The properties of these containers can be redefined for the execution of each activity.

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		Purchase	Request 🔵	Create request				~	×
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A Home	98 (MYAPP) Purchase Request v1 🗶								

The grid columns correspond to the properties of containers.

Visible

This check indicates that the container remains visible when executing the activity. If it has associated visibility rules, it is represented by the icon $^{\textcircled{0}}$.



Expanded

This check indicates that the container is displayed when executing the activity.

Modifies Item

Only for iterative containers. This check indicates if iterative occurrences can be added or deleted. This property is displayed by default as checked, however if an iterative container is added to the form in this tab, this property is unchecked.

Edit in Modeler

Pressing this button the form associated with the activity is opened in another tab of the modeler, where the properties panel of each form element can be opened.

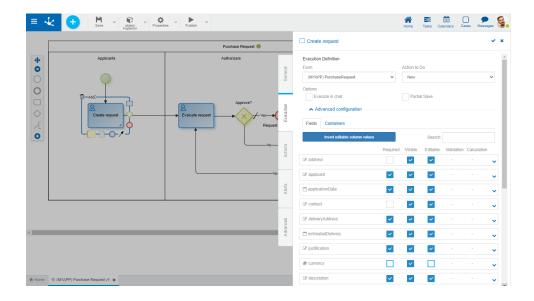
Pressing the icon solution the top toolbar, returns to the activity execution tab.

3.7.4.5.2.1. Values and Rules Modeling Area

From this area, behavior, validation and calculation rules are defined and default values of the fields are established.

Properties and rules that are defined in the activity overwrite those that were defined in the form fields.

Field Properties panel



Properties



Rules

It is possible to define <u>rules</u> of behavior, validation and calculation, associated with a field for the activity. The field behavior rules defined in the activity override those modeled in the form field, while validation rules are added.



0

Required

Indicates whether the field is required during the execution of the activity.

Required ON Not required (default)

Rule + Opens an editing area where a rule to determine the required condition can be defined by using the <u>wizard</u> (ctrl + space). If a rule is defined, the icon is displayed with light blue borders.

Visible

Indicates whether the field is visible. If this property is not selected, the field is not displayed during the execution of the activity.

🚺 Visible (default) 🔍 Not visible

Rule + Opens an editing area where a rule to determine the visibility condition can be defined by using the <u>wizard</u> (ctrl + space). If a rule is defined, the icon is displayed with light blue borders.

Editable

Indicates if the field is editable. If this property is not selected, the user cannot enter or modify values in the field during the execution of the activity.

D Editable (default) Not editable

Rule + Opens an editing area where a rule to determine the editability condition can be defined by using the <u>wizard</u> (ctrl + space). If a rule is defined, the icon is displayed with light blue borders.



-x a=

Validation

Rule + Opens an editing area where the condition that determines if the field value is correct can be defined. It is possible to define more than one rule. If rules are defined, the icon is displayed with light blue borders.

Calculation

Rule + Opens an editing area where the expression to be executed to calculate the field value can be defined. If a rule is defined, the icon is displayed with light blue borders.



Persists

Indicates whether the information entered in the field is kept in an activity. This property is only available to IT modeler users.

Persists (default) Does not persist

The value of this property is presented as Does not persist when the field meets all the conditions mentioned below:

- It is not editable and has no associated editability rule
- It has no default value property defined
- It has no associated calculation rules
- It has no relation defined

If the IT modeler user needs to use scripting to update the field content in the activity, they must indicate this property value as Persists. In this way, the field value updated by scripting is not lost when the case moves on to the next activity.

If form rules or properties are overwritten from an activity, subsequent modifications from the form for the **overwritten properties**, have no impact on the behavior already defined in the activity.

Undo changes

Allows to delete rules or behavior properties modeled from the activity. In this way, behavior properties and rules applicable in the execution of the activity are again those originally defined in the form.

Shows syntax examples to write rules.

Default Value

It is an area to define the field default value.

for Allows to select functions from a list to incorporate dynamic information into the field.

Allows to incorporate information of entities that participate in the process execution to the field content. For example, in the Refund Request process, the request date can be incorporated, this data is available in the date field of the Refund Request form.

Field Properties Panel with Relation



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If the form field has a <u>relation</u> the possible values and the default value of the field in the activity are displayed.

Possible Values

Clicking on the icon enables a panel to filter data from the list in the activity.

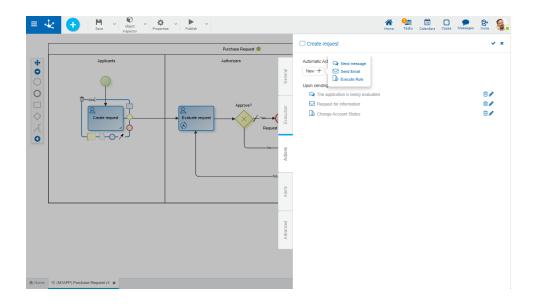
Invert Selection Inverts the selected values.

Select all Selects all values.

Exclude Values: Allows to exclude the selected values from the selection.

3.7.4.5.3. Automatic Actions

In the "Actions" tab, automatic actions executed in the activity are defined.





The icon symbol of an activity indicates that it has an automatic action. Hovering the cursor over the icon enables a panel that shows in detail all the automatic actions modeled for the activity.

New +

Pressing this button you can create new automatic actions of different types.

Types

🝳 Send message

Send Email

Execute rule

For existing actions, the icon \checkmark allows editing a previously defined automatic action and the icon \bowtie deletes it.

Properties

The different types of automatic actions share properties and have other specific ones.

Name

Name that identifies the automatic action in the activity and is used in the description of the activity execution in the <u>graphic show of a case</u>.

Event that triggers the action

Moment when the automatic action is executed, defined by one of the following events:

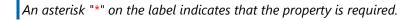
- Send: Indicates that the action is executed when the task execution finishes.
- Receive: Indicates that the action is executed when the task execution starts.
- Disabled: Execution of the action is disabled.

3.7.4.5.3.1. Send Message

Allows to define the sending of a message via the <u>chat</u> of **Deyel**. The message may include processrelated form variables and <u>functions</u> that allow to incorporate links to case shows, to do lists, forms, application access links, among others.



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		Purchase Request 🥥		Evaluate request					~	/ ×
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4 ∰ Home ⊗ (MN	1/3P9) Purchase Request V1 X		Advanced	Message content [®] Vour request has been evaluated Event that triggers action Send ✓				Cancel	■ fw Save	



In addition to the <u>properties shared</u> with email sending and execution of rules, message sending actions have specific properties.

Sender

Indicates a **Deyel** user that sends the message. Allows to use the <u>autocomplete</u> function to select it.

Receivers

Indicates **Deyel** users that will receive the message. It is possible to select users or agents that return users at the time of execution. In both cases the <u>autocomplete</u> facility can be used to select them.

Message content

The text that makes up the body of the message is reported, this text can contain variables and functions. To select them, use their wizards and for variables and for functions.

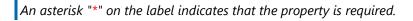
For both senders and receivers, once the user has been selected, the chat facility 🗭 can be used if the user is different from the one that is connected and the facility to display the user's profile 💇.

3.7.4.5.3.2. Send Email

Allows to define email sending. They can include process variables and <u>functions</u> that allow to incorporate links to case shows, to do lists, forms, application access links, among others.



= -{	🛨 📙 🖌 🐑 v 🕸	es V Pubish V			Home	Tasks	Calendars	Cases	Messager		
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∢ ♠ Home	8 (MMPP) Purchase Request V1 X		Advanced	Description A surchase cancellation has been recorded					ພ ຫຼື		



In addition to the <u>properties shared</u> with email sending and execution of rules, message sending actions have specific properties.

In all properties, text can be combined with values obtained through the variables wizard e or the function wizard for **Deyel**.

Sender

Indicates the email address from which the message is sent. If the email server is Google or Microsoft, it is not necessary to complete this property and the account entered in the environment property <u>User or account to establish connection</u> will become the sender.

Receiver

Indicates the email address to whom the message is sent. More than one address can be informed separated by ";".

Subject

Contains the subject of the email that is being sent.

Description

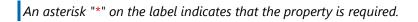
The text that makes up the body of the email is reported. Html tags can be included to format the message.

3.7.4.5.3.3. Execute Rule

Allows to define the execution of an advanced rule of **Deyel**.



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				Add project amount				Ĥ Ø	P



In addition to the <u>properties shared</u> with message sending and email sending, rule execution actions have specific properties.

Rule

Name of the <u>advanced rule</u> assigned to the automatic action. When creating the action, the rule is selected from a grid that contains the previously published rules.

Rule parameters

Depending on the selected advanced rule, a grid with its modeled parameters is enabled. For each parameter, report the properties:

Name

Parameter name as defined when modeling the advanced rule.

Data Type

Indicates the data type with which the parameter was defined. It can be any type of Java object allowed in **Deyel**. The Java object type can be displayed in full form, as a help, by placing the mouse over the data type in each grid element.

I/O

Specifies whether the parameter is input \implies or output \longleftarrow . Value

If the parameter is input, it corresponds to the initial value taken by the parameter, by entering a fixed value or selecting it from the wizard of variables \square or <u>functions</u>. This value must match the one defined for the parameter.

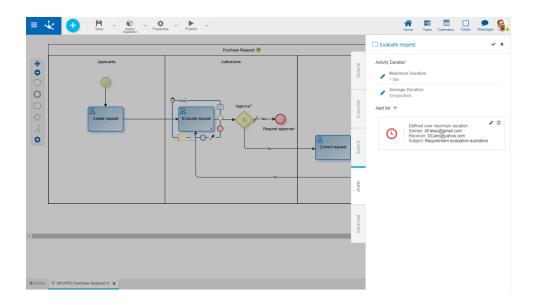
If the parameter is output, it corresponds to the form field that will contain the value returned by the rule and can be selected by using the wizard of variables or <u>functions</u>.

The parameter show is available from the "i" icon.

3.7.4.5.4. Alerts



For each standard activity or task, the IT modeler can define the issuance of electronic notifications by sending emails based on the activity execution times. They are defined in the "Alerts" tab of the activity properties panel.



Properties

Activity Duration

This section displays the Maximum Duration and the Average Duration that have been informed in the "General" tab. Alerts definition is performed considering any of these durations, as indicated in the property Define alert on.

Click on the icon 🖉 to edit the duration and modify it.

Alerts List

Displays the list of alerts set for the activity.



Indicates that the alert is set based on average duration.



Indicates that the alert is set based on maximum duration.

In order to define alerts, it is necessary to have entered the maximum or average duration of the activity.

To incorporate an alert, press the icon +. To modify it, press the icon \checkmark and to delete it, press the icon \square .

Definition of Times



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л О	Execution		Interval Days Hrs Min			
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Alert start

Period of time that determines the start of the alert issuance, depending on the Maximum Duration or Average Duration established for the activity.

The time period can be measured either on a calendar time or working time basis, as specified in the property Consider time.

Days, Hours and Minutes values may:

- Not be informed: The alert is sent when the activity duration is fulfilled.
- Be informed with positive values: The alert is sent after the activity duration fulfillment.
- Be informed with negative values: The alert is sent before the activity duration fulfillment.

Alert duration

Period of time during which the alert is sent. The number of days, hours and minutes informed here allows to calculate the moment in which the alert sending must be finished as from the Alert start. The alert duration must be informed.

The time period can be measured either on a calendar time or working time basis, as specified in the property Consider time.

Alert interval

Time interval or frequency with which the alert is sent. Values are informed in Days, Hours and Minutes. If not informed, the alert will be sent every time the scheduled task is executed Execution of Activity Alerts.

The time period can be measured either on a calendar time or working time basis, as specified in the property Consider time.

Define alert on

The alert may be defined in relation to the Maximum Duration or Average Duration set in the "General" tab or from the same "Alerts" tab.

Consider time

Indicates that the periods set in the Start, Duration and Interval properties should be measured as calendar time or working time, taking into account the definition of environment calendars. If working time is informed, the calendar defined for the participant responsible for executing the activity, if there is one, is considered first, or as a second option, the calendar defined for their organizational unit. When there are no special calendars, the standard environment calendar is considered.



Alert message Sender

Email address from which the email is sent.

A value can be entered as long as the <u>email server</u> is not Google nor Microsoft. Another possibility is to select the emailWorkflow() function, it is suggested when the email server is Google or Microsoft, and in this case it is not necessary to assign it a value in the property <u>Value of the</u> <u>emailWorkflow() function</u> because it will always take the address entered in the property <u>User or ac-</u> <u>count to establish connection</u>.

Receiver Receiver's email address.

Subject

Contains the email subject.

The field can be completed manually by combining it with variables available in **Deyel** using the icon

Description

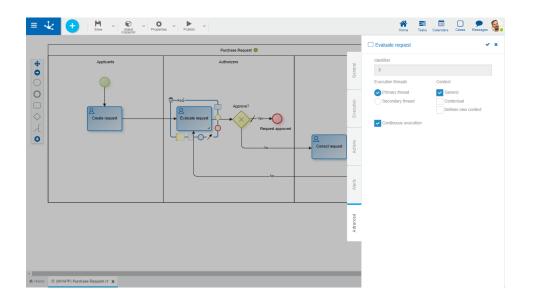
It is the body of the email. The field can be completed manually and also combine it with variables available in **Deyel**, clicking on the icon . Html tags can be used to format the message.

Click on the "Save" button to store the new alert that is incorporated into Alerts List, from where it can be modified or deleted.

Click on the "Cancel" button to close the new alert panel, discarding the changes.

3.7.4.5.5. Advanced

IT modeler users can set advanced level modeling properties in this tab.



Properties



Identifier

Activity code that identifies the activity univocally in the process. This attribute is automatically generated by the modeler and cannot be modified.

Execution Threads

Indicates if the activity is executed on the Main Thread of the case or on the Secondary Thread.

Context

A process execution context determines the universe of users the case can receive to execute its current task.

When those responsible for the activities are expressly indicated users, it is not necessary to select any of the context attributes.

Generic

This attribute can be selected when the lane responsible defined for the activity is a role or an agent.



When the case reaches the activity defined with Generic context, all the role/agent users receive the case in a generic way, without the possibility of execution, so that one of them can assign the case or the coordinator of the role can assign it to a particular user.

The moment the case is assigned to a user, it automatically disappears from the other users' task list. To assign the case, press the "Assign" button.



When the next activity has no Generic attribute defined, the list of role/agent users is submitted from the current activity, to select who the case is given to.

Note: If the current executor is included in the role/agent of the next activity and also the continuous execution, property is selected in the current activity, the next activity execution interface is automatically presented to the current user.

Contextual

When the first case activity is executed, the organizational unit of the user that executes it is established as the "contextual unit" of the case.



It can be selected in cases where the lane responsible in which the activity is located is defined with role per unit.

When the case reaches the activity with the Contextual attribute selected, it can only be executed by those users with role per unit and who also belong to the <u>context unit</u> or to some unit that depends on it. The Generic attribute should not be selected.



Contextual

When the activity has no Contextual attribute selected, it can be executed by the expressly defined responsible users or by the role/agent, without applying any other restriction.

Defines New Context

Defines new context



When the activity execution begins, a new case execution context is established. This means that the <u>context unit</u> becomes the organizational unit to which the user who is executing the activity belongs. This option is used in very specific situations with a high degree of modeling experience.

Defines new context

The case execution context is not modified. It is the most used option.

Continuous Execution

This indicator is used to specify that after executing the activity it should automatically continue with the next one, whenever possible. In this way, the user can execute the case activities continuously, without accessing the to-do list.

Continuous execution is possible when:

- The responsible for the next activity is a user and it is the same user that executes the current activity.
- The responsible for the next activity is an organizational unit and it is the same organizational unit of the user that executes the current activity.
- The person responsible for the next activity is a role / agent and the user executing the current activity belongs to the role/agent.

If in the next activity the Contextual attribute is checked, the organizational unit verifies that the current user is the context unit or a unit that depends on it.

Continuous execution

According to the definition of subsequent activity, if the current user can execute it, then its execution starts automatically.

Continuous execution

In this case, even though the current user can execute the next task, they must take the case from "My Tasks".

3.7.4.6. Subprocess Properties

There are different ways to enter a subprocess properties panel:

- Double click on the graphic element corresponding to the subprocess or abstract activity.
- Access the context menu of the subprocess graphic element.



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General Tab

Properties

Name

Activity name. Describes in a generic way the objective of the process that is being represented.

Subprocess

Process represented by this abstract activity. Presents a list of all processes defined to select one of them.

Description

Conceptual description of the activities performed.

Comments

In this field the designer can document in detail what the subprocess execution consists of.

Do you have execution of activities in parallel?

This property should be checked if the selected subprocess has parallel or inclusive gateways modeled.

Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

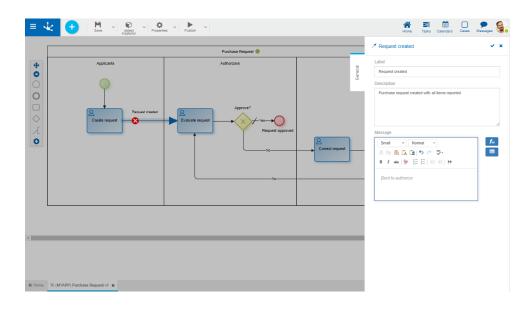
The icon 🗙 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.4.7. Flow Properties

There are different ways to enter a flow properties panel:

- Double click on the graphic element corresponding to the <u>flow</u>.
- Access the <u>context menu</u> of the flow graphic element.





General Tab

Properties

Label

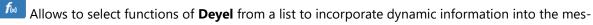
Flow label.

Description

Text field used to document the meaning of the flow.

Message

Text displayed when moving to the destination activity of the flow.



sage.

Allows to incorporate information on entities used in the process execution to the message.

When flow cases are gate outputs, in addition to flow properties, the panel displays the <u>gate proper-</u><u>ties</u>.



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Visual Flow Options

These options are displayed when hovering over the graphic element.

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Create request			Purchase Request 🥌						
Create request	•	Applicants	Authorizers	Initiator					
	• • • • • • • • • • • • • •		Evaluate request	Cancel?	-Ves				

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Deletes the flow.

Indicates there is a vertex. Positioning the cursor over it enables a black cross that, when selected,

will delete such vertex.

Deletes the vertex. Position the cursor over the blue circle to display the icon and then click on it.

To add a new vertex to the flow, keep the mouse button pressed until a blue point (vertex) is displayed. Once generated a new vertex, it can be moved with the Drag&Drop function.

Actions



The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🔀 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.4.8. Gateway Properties

There are different ways to enter the gateway properties panel:

- Double click on the graphic element corresponding to the gateway.
- Access the <u>context menu</u> of the gateway graphic element.

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		Purchase Request 🔵		♦ Approve? ✓ ¥
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<				Label: Yes Towards: Requisit approved Buttons: Approve
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General Tab

Properties

Name

Gateway name that should reflect what is being evaluated.

Type Indicates the <u>gateway type</u>.

Description

Text that describes the gateway purpose.

Output flows

Default Flow

Allows to define a default flow indicating which flow to follow when other flow conditions are not met. This property is required.

Continuous Execution



Allows to define the continuous execution of each output flow of the exclusive gateways.



Allows to assign a button for the user to push at each gateway output flow. If the gateway is inclusive, more than one button can be assigned to each flow, and each button may have more than one flow assigned.

Buttons become visible in the execution activity previous to the gateway. A name and a color are defined for each button .

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Solution Displays a properties panel that allows to establish the button name and color assigned to the flow, and also modifies other flow properties.

Within this panel, if it is an inclusive gateway, the following possibilities are enabled.

New button

Allows to add a new button to the flow.

Select assistant bot

Allows to assign an existing button to the flow.

Crder buttons

This functionality is enabled when you select Define buttons. Clicking on it, displays a panel to order buttons with the Drag&Drop function.



Allows to assign conditions to be met so that the process continues its execution following the flow.



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			Description		
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Displays a properties panel where the flow conditions are modeled by means of the <u>embedded</u> rules wizard that allows to select fields of entities that participate in the process and operations to be applied. Additionally, it is also possible to modify other <u>flow properties</u>.

If the process is related to several forms, the wizard allows to select the form fields indicated as <u>main entity in form properties</u>. If an entity is not defined as the main entity, the first form fields displayed when expanding the list in the <u>Execution Definition</u> property can be selected in the process activities.

3.7.4.9. Event Properties

There are different ways to enter the properties panel an event:

- Double click on the graphic element corresponding to the event.
- Access the context menu of the event graphic element.

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[Purchase Request 🔵		0				×	×
	Appleards	Authorizers	Correct request	Name Name Description Event type	Standard				1) Ø
∢ ♠ Home	(M/APP) Purchase Request v1 x								



Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🔀 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.4.9.1. Starts Events

General Tab

In the "General" tab, common properties for all start events and the special ones for each case are defined, which are enabled when assigning the type of start event.

- <u>Standard</u>
- <u>Command</u>
- <u>Email</u>
- <u>Signal</u>
- <u>Timer</u>
- <u>File</u>
- <u>Rule</u>

3.7.4.9.1.1. Standard

The properties panel of the standard start event is displayed on the right side of the process modeler.

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[Purchase Request 🔵		○ User creates a purchase request ✓ ★
	Applicants Applicants Degrees (get Create recuest Create recuest To To To		Consci request	Name User creates a purchase request Description User instates purchase order from web interface Event type Standard
د Home ک	© (M/APP) Parchase Request v1 🗙			

Properties

Name Text that is displayed in the diagram next to the graphic element of the event.



Description

Field that allows to document the event.

3.7.4.9.1.2. Command

The properties panel of the <u>start event by command</u> is displayed on the right side of the process modeler.

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		Purchase Request 🔵		○ Purchase request ✓ ★
 ◆ ○ ○ ○ ◆ \forall ○ ○ ○ ◆ \forall 	Appleants Papel-Article sound Create request	Authorizers	Correct request	Name Parchaise request Description Event type Vent handle approval process of purchase requisition Event type Vent handle with aveith veith "() Vent chandled with aveithe command?
⊀ ♠ Home	© (MVAPP) Purchase Request v1 x			

Properties

Name

Text that is displayed in the diagram next to the graphic element of the event. It is recommended to provide a text that identifies the command.

Description

Field that allows to document the event.

Command

Text assigned by the user to identify the command that starts the process. MIt must start with a slash "/" and followed by the name the user informed, with no blank spaces.

By default it presents the command established in the process creation. It can be modified.

Chatbot

Indicates the <u>chatbot</u> used to execute the command.

By default, the chatbot informed in the process creation is displayed, and besides, if the <u>Define new</u> <u>assistant</u> process property is checked, a new chatbot is automatically created, configuring itself as <u>wiz-ard</u> of the user that is modeling the process.

To modify the assigned chatbot, click on the delete icon. This property has autocomplete function, therefore as characters are entered, the first five matches are dynamically displayed to select one of them.

Command Description



Explanatory text that is displayed when selecting the command from the chat window.

Example

The command start event is automatically defined when the process property is checked <u>Start from</u> <u>Chat</u>, when modeling a new process, whether from a template or not.

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	Owner*	Initiator*						
	Alex Farias	All users						
	▲ Participants							
	Authorizer 1*							
	Alex Farias							
	∧ Command 8							
	Start from chat	Command name*	Define new assistant	Select Activity*				
	Ves 🗌 No	Requestvacation		PA Vacation manage Chatbot	8 me			
A Home D New process 1	×				₿.			

To modify the type in an already defined start event, access the <u>context menu</u> of the graphic element and select the type of start event from the options that are presented.

The first activity of a process that starts with a command event, must have the <u>Execute on Chat</u> property checked.

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[Create request						~	/ ×
● > ○ ○ ● ♥	Appleants Paced or other and the appleant of	Create request Execution Definition Form (MYAPP) VacationRequest Options Coscula in chat Advanced configuration	Action to Do New Partial Save	Actionable message configuration Who will send the message?		Campos a com Start date Finish date			
	Alerts			Organizational Unit Requesting user Surname					
	Advanced						Cancel	Save	

Properties



Who will send the message?

The user or <u>chatbot</u> that sends the message from the chat is informed. It generally matches the chatbot assigned in the command start event.

Note that if a user is informed, that user does not see their own message.

Message content

Inform the text displayed in the chat at the beginning of the process.

What fields can the user complete?

Move the fields that the user must complete from the chat to the fields box to complete, in the first process activity.

Use of the Process

- To start the process by chat, the user must have permission to start the process.
- If the command is assigned to a chatbot configured as "visible", users can initiate the command directly from the chatbot in a chat.
- If the chatbot with the command is configured as "not visible", then necessarily some user must be using it as <u>wizard</u>. A chat with that user must be opened to access the command.

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93-2	Generación de Campaña	(Global) Generación de Campaña v1 - Ejecutar campaña	Q	Ejecutar campaña	30/08/2019	🦣 Javier Paz	÷	
92-2	Generación de Campaña	(Global) Generación de Campaña v1 - Ejecutar campaña		Ejecutar campaña	30/08/2019	🧑 Javier Paz	- +	
68	Consolidado Semanal de Reintegros	(Global) Consolidado Semanal de Reintegros v1 - Generar consolidado semanal		Generar consolidado semanal	28/08/2019	🍈 Javier Paz	- +	
66	Actualización de Presupuesto	(Global) Actualización de Presupuesto v1 - Crear Solicitud		Crear Solicitud	28/08/2019	🦣 Javier Paz	÷	
60	Consolidado Semanal de Reintegros	(Global) Consolidado Semanal de Reintegros v1 - Generar consolidado semanal		Generar consolidado semanal	27/08/2019	() Javier Paz	÷	
59	Previsión para Reintegros	(Global) Previsión para Reintegros v1 - Ajustar gastos sobre planificación		Ajustar gastos sobre planificación	27/08/2019	🦣 Javier Paz	÷	
57	Actualización de Presupuesto	(Global) Actualización de Presupuesto v1 - Crear Solicitud		Crear Solicitud	27/08/2019	🧑 Javier Paz	- +	
53	Actualización de Presupuesto	(Global) Actualización de Presupuesto v1 - Crear Solicitud		Crear Solicitud	27/08/2019	🧑 Javier Paz	· •	
50	Actualización de Presupuesto	(Global) Actualización de Presupuesto v1 - Crear Solicitud		Crear Solicitud	27/08/2019	() Javier Paz	÷	
48	Previsión para Reintegros	(Global) Prevision para reintegros v1 - Reservar fondos para reintegros		Reservar fondos para reintegros	27/08/2019	🍈 Javier Paz	- +	
	Previsión para	(Global) Prevision para reintegros v1 - Estimar gastos sobre		Aiustar gastos sobre				

In the chat window, the data required in the form must be informed and one of the proposed buttons of the <u>actionable message</u> must be pressed.

3.7.4.9.1.3. Email

The properties panel of the start event by email is displayed on the right side of the process modeler.



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Γ		Register Mail Contact 🔵	() Webinar	invitation accepted		× ×
♦ 0 0 □ ♦	Campaigns Weighaded gallon	Campaigns Supervisor	Priority 0 Description Upon the arr	tation accepted ival of a response email to the im n, the pre-contact is automatically	itation generated by	abled
×.	Create Lead	Ceportunity Cepor	Event type	Mail Conditions + Email text contains agree Actions + New Case Mark event as processed		* *
۲ Home ב	((MYAPP) Register Mail Contact v1 x	Request cancelled				

Name

Text that is displayed in the diagram next to the graphic element of the event. It is recommended to inform a text in reference to the email expected to be received.

Enabled

Indicates that the event is enabled to receive emails and execute if applicable.

Priority

Execution priority assigned to the event. It is reported as an integer, with 0 being the highest priority. If the event performs the action <u>mark event as processed</u>, events with lower priority are not executed.

Description

Text that allows documenting detailed information about the event.

Conditions

They are the conditions that must be met for the event to be executed. If there are defined conditions, a list of them is displayed.

To add a condition, press the icon + and from the panel that opens, select Property and Operator in the corresponding drop-down lists. Report Value and where applicable, indicate in Parameter the field to be evaluated of the form associated with the process.

Property	Example
Email subjectEmail text	Email subject contains "Information request"
Email senderEmail recipient	Email sender Equals <u>AtencionCon-</u> <u>sultas@Deyel.com</u>
	More than one address can be report-



Property	Example		
	ed separated by ; (semicolon) without leaving spaces		
 Name without the attachment extension in n position (starts at 1) Attachment extension in n position (starts at 1) 	Name without the attachment extension in n position starts with "Sheet", indicated in parameter 1 (first position)		
Number of email days elapsed	Number of days elapsed Equals 3		

Actions

They are the actions that are carried out automatically when the event occurs.

• Create Case

For all start events, a case is compulsorily created for the process and a version in which the event is executed.

• Attach file

Allows to attach one or more files to the case.

Parameter	Description
Email attachment	Position number of the email attachment that is attached to the case. (*)
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully.(*)

Note: The parameters selected with (*) are mandatory.

• Attach form

Allows to relate a form to the case.

Parameter	Description
User Code	If it is not reported, the current user is as- signed.
Values map	Report <field1><value1><field2><value2>, where fieldN corresponds to form field names and valueN to the values that are assigned to each field. It has higher priority than</value2></field2></value1></field1>



Parameter	Description
	DS_XML_CONTENT_PATH
XML	File path that contains the XML. It is mandatory if DS_VALUE_MAP is not reported
Annex Туре	Annex type attached (*).
Create version if it exists and if it is unique	If when attaching the form, it already exists and is unique, a historical version of it is pre- viously created.
Reset previous form and it is unique	Indicates that if there is a form associated with the case and it is unique, data is deleted from it.
Depends on the previous execution	The action is executed only if the previously defined actions were executed successful- ly.(*).

Note: The parameters marked with (*) are mandatory.

• Check event as processed

An automatic response is sent to the email received indicating that it has been processed.

Parameter	Description
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully (*).

Note: The parameters marked with (*) are mandatory.

Example of Use

The "Register Email Contact" process starts its execution automatically when an email arrives to the <u>email account</u> established in the environment configuration, under the title "Invitation to **Deyel** Webinar" and the word "Agree" is in the content.



Campaña
Crear precontacto

3.7.4.9.1.4. Signal

The properties panel of the start event by signal is displayed on the right side of the process modeler.

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		Share Audit 🧶			◯ Budget Consumed ✓ ¥
	Area Managers	General Management	Correct report	General	Name Budget Consumed Description The process is activated when receiving the signal from Forecast for withdrawas Event type Signal name Budget Consumed
د ♦ Home	🗮 (GLOBAL) JudiSteport 🗴 👋 (MYAPP) Share Audit v1 🗴				

Properties

Name

Text that is displayed in the diagram next to the graphic element of the event. It is recommended to inform a text in reference to the signal expected to be received.

Description

Text that allows documenting detailed information about the event.

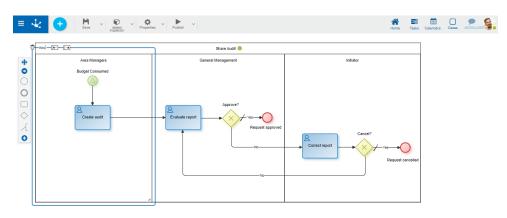
Signal Name

Signal that the event expects to receive to start execution automatically. The signal is sent by a <u>signal</u> <u>end event</u> or a <u>throw signal intermediate event</u>. There may be more than one process waiting for the same signal.

User Manual Version 8.4

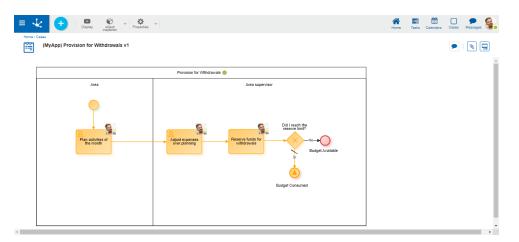
Example of Use

The audit process starts automatically upon receiving the "Budget Consumed" signal sent by the "Provision for Refunds", process in one of its possible endings.



A Home 🛞 (MYAPP) Share Audit v1 🗙

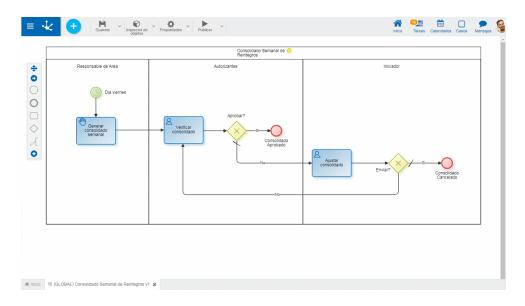
"Provision for Refunds" process in which the "Consumed Budget" signal is generated.



3.7.4.9.1.5. Timer

The properties panel of the <u>timer start event</u> is displayed on the right side of the process modeler.





Name

Text that is displayed in the diagram next to the graphic element of the event. It is recommended to inform a text in reference to the event scheduling.

Enabled

This property is checked to indicate that an event is active and can be automatically executed according to its scheduling.

Description

Text that allows documenting detailed information about the event.

Conditions

They are the conditions that must be met for the event to be executed. If there are defined conditions, a list of them is displayed.

To add a condition, press the icon \uparrow and from the panel that opens, select Property and Operator in the corresponding drop-down lists. Report Value and where applicable, indicate in Parameter the field to be evaluated of the form associated with the process.

For this type of event, apply the following conditions:

- Current time
- Current day
- Current month
- Current year
- Current hour
- Current minute
- Current seconds
- Current milliseconds
- Weekday

How often should it execute?

Type Allows to define the execution schedule for the event



- Regular intervals
- Daily at a specific time

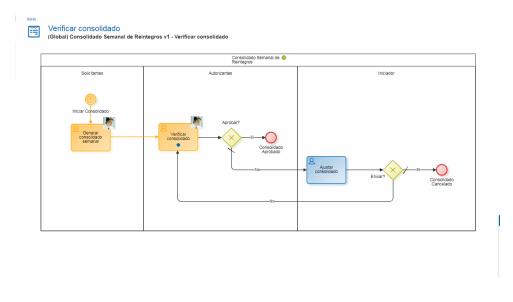
Value

Allows to define the interval value in seconds or at a specific time, according to the previously defined type.

The "Save schedule" button must be pressed to keep the established schedule. It can be seen on the Scheduled Tasks Monitor.

Example of Use

The "Consolidated Weekly Refund" process begins its execution automatically on Fridays at 10:00.



3.7.4.9.1.6. File

This type of event is available only for on-premises installations, as they require access to resources on the client's computer.

The properties panel of the start event per file is displayed on the right side of the process modeler.



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0		Ő	0			Operator		Value			
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1			Event type								
0			B	File Conditions ++ To define conditions that the event must me press the *** buffon. Actions + New Case	ø,						
A Home	$\%$ (MYAPP) Consolidated Weekly Reimbursements v1 $~$ \varkappa										

Name

Text that is displayed in the diagram next to the graphic element of the event. It is recommended to inform a text in reference to the email expected to be received.

Enabled

This property is checked when the event activates, waiting for the file.

Priority

Execution priority assigned to the event. It is reported as an integer, with 0 being the highest priority. If the event performs the action <u>mark event as processed</u>, events with lower priority are not executed.

Description

Text that allows documenting detailed information about the event.

Conditions

They are the conditions that must be met for the event to be executed. If there are defined conditions, a list of them is displayed.

To add a condition, press the icon + and from the panel that opens, select Property and Operator in the corresponding drop-down lists. Report Value and where applicable, indicate in Parameter the field to be evaluated of the form associated with the process.

Property	Example
Name of the event initiator file, without the ex- tension	Name of the event initiator file Contains "Ticket"
Name of the folder that contains the event initia- tor file	Name of the folder that contains the event initia- tor file Equals "Receipt of Tickets"
File extension (without dot)	File extension Equals XML



Property	Example
Event initiator file path	Event initiator file path Equals "C:\Claims\Tickets Attention"
Folder path that contains the event initiator file	Folder path that contains the event initiator file Equals "D:\Claims Attention"
Number of file days elapsed	Number of file days elapsed Greater than or Equal to 9
File type (File or Folder)	

Actions

They are the actions that are carried out automatically when the event occurs.

• Create Case

For all start events, a case is compulsorily created for the process and a version in which the event is executed.

• Attach file

Allows to attach a file to the case.

Parameter	Description
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully.(*)

Note: The parameters selected with (*) are mandatory.

Attach form

Allows to relate a form to the case.

Parameter	Description
User Code	If it is not reported, the current user is as- signed.
Values map	Report <field1><value1><field2><value2>, where fieldN corresponds to form field names and valueN to the values that are assigned to each field. It has higher priority than DS_XML_CONTENT_PATH</value2></field2></value1></field1>



Parameter	Description
XML	File path that contains the XML. It is mandatory if DS_VALUE_MAP is not reported
Annex Type	Annex type attached (*).
Create version if it exists and if it is unique	If when attaching the form, it already exists and is unique, a historical version of it is pre- viously created.
Reset previous form and it is unique	Indicates that if there is a form associated with the case and it is unique, data is deleted from it.
Depends on the previous execution	The action is executed only if the previously defined actions were executed successful- ly.(*).

Note: The parameters marked with (*) are mandatory.

• Check event as processed

An automatic response is sent to the email received indicating that it has been processed.

Parameter	Description
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully (*).

Note: The parameters marked with (*) are mandatory.

3.7.4.9.1.7. Rule

The properties panel of the start event by rule is displayed on the right side of the process modeler.



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A Home	© (GLGBAL) Attenden Hottificaciones Impositivas v1 🗴			N				

Name

Text that is displayed in the diagram next to the graphic element of the event. It is recommended to inform a text in reference to the rule whose execution is expected.

Enabled

This property is checked to indicate that the event activates, waiting for the rule.

Priority

Execution priority assigned to the event. It is reported as an integer, being 0 the top priority.

Description

Text that allows documenting detailed information about the event.

Conditions

They are the conditions that must be met for the event to be executed. If there are defined conditions, a list of them is displayed.

To add a condition, press the icon + and from the panel that opens, select Property and Operator in the corresponding drop-down lists. Report Value and where applicable, indicate in Parameter the field to be evaluated of the form associated with the process.

Actions

They are the actions that are carried out automatically when the event occurs.

Create Case

For all start events, a case is compulsorily created for the process and a version in which the event is executed.

• Attach file

Allows to attach a file to the case.

Parameter

Description



Parameter	Description
File to attach	File attached to the case.
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully.(*)

Note: The parameters selected with (*) are mandatory.

Attach form

Allows to relate a form to the case.

Parameter	Description
User Code	If it is not reported, the current user is as- signed.
Values map	Report <field1><value1><field2><value2>, where fieldN corresponds to form field names and valueN to the values that are assigned to each field. It has higher priority than DS_XML_CONTENT_PATH</value2></field2></value1></field1>
XML	File path that contains the XML. It is mandatory if DS_VALUE_MAP is not reported
Annex Туре	Annex type attached (*).
Create version if it exists and if it is unique	If when attaching the form, it already exists and is unique, a historical version of it is pre- viously created.
Reset previous form and it is unique	Indicates that if there is a form associated with the case and it is unique, data is deleted from it.
Depends on the previous execution	The action is executed only if the previously defined actions were executed successful- ly.(*).

Note: The parameters marked with (*) are mandatory.

Select scheduled rule task



The executed business rule is selected. It must be a previously published advanced rule.

Example of Use

The "Attention to Tax Notifications" process starts automatically when the business rule associated with the rule start event detects a notification in the government portal, following the WS specifications published in it.

3.7.4.9.2. Intermediate Events

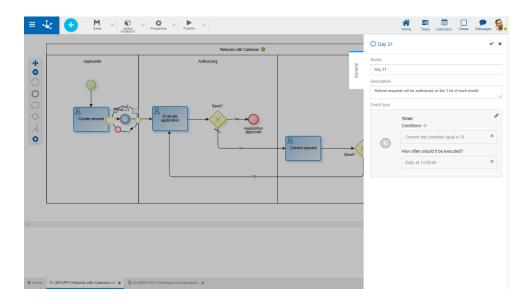
General Tab

In the "General" tab, common properties for all intermediate events and the specific ones for each case are defined, which are enabled when assigning the type of intermediate event.

- <u>Timer</u>
- Throw and Catch a Signal
- Throw and Catch Link

3.7.4.9.2.1. Timer

The properties panel of the <u>timer intermediate event</u> is displayed on the right side of the process modeler.



Properties

Name

Text that is displayed in the diagram next to the graphic element of the event. It is recommended to inform a text in reference to the event scheduling.



Description

Text that allows documenting detailed information about the event.

Conditions

They are the conditions that must be met for the event to be executed. If there are defined conditions, a list of them is displayed.

To add a condition, press the icon + and from the panel that opens, select Property and Operator in the corresponding drop-down lists. Report Value and where applicable, indicate in Parameter the field to be evaluated of the form associated with the process.

Property	Example
 Current time Current day (numeric) Current month (numeric) Current year (numeric) 	Current time Equals 13:30 Current month Less than or equals 6 <i>Time format is HH:MM. Supports one-digit values for the time.</i> <i>When showing the current month, a number between 1 and 12 must be informed in value.</i>
 Current hour (numeric) Current minute (numeric) Current seconds (numeric) Current milliseconds 	Current time (numeric) Equals 1.50 Current milliseconds Greater 48600000
• Day of the week (Sunday= 1)	Day of the week equals 6 (6 = Friday) An integer between 1 and 7 must be informed in value, where 1 corresponds to Sunday.
 DateTime parameter (*) Date parameter (*) Time parameter (*) 	Inform in Parameter a form field that is converted to date/time/date time for its evaluation The date format is DD/MM/YYYY. The datetime format is DD/MM/YYY HH:MM, with a blank space. Time format is HH:MM. Both formats support one-digit values for day and month.
 Working days elapsed since the date (*) Years elapsed since the date (*) Months elapsed since the date (*) Days elapsed since the date (*) 	Inform in Parameter a specific date in DD/MM/YYYY format or a form field that contains a date For these properties an integer value must be informed.



Property	Example
 Hours elapsed since the "time" hour (*) Minutes elapsed since the "time" hour (*) Seconds elapsed since the "time" hour (*) 	Inform in Parameter a specific time in DD/MM/YYYY format or a form field that contains a time For these properties an integer value must be informed.

(*) Properties available only for intermediate and border events

How often should it execute?

Туре

Allows to define the execution schedule for the event

- Regular intervals
- Daily at a specific time

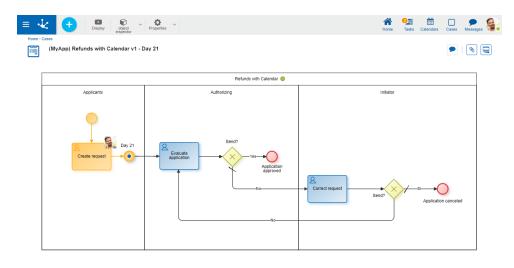
Value

Allows to define the interval value in seconds or at a specific time, according to the previously defined type.

The "Save schedule" button must be pressed to keep the established schedule. It can be seen on the Scheduled Tasks Monitor.

Example of Use

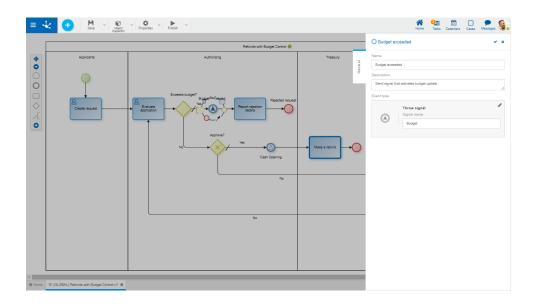
The "Refund Request with Calendar" process begins at the request of users. The authorizer receives requests not until day 21.



3.7.4.9.2.2. Throw and Catch a Signal

The properties panel of the <u>throw</u> and <u>catch signal intermediate events</u>, is displayed on the right side of the process modeler.





Name

Text that is displayed in the diagram next to the graphic element of the event. It is recommended to inform a text in reference to the signal expected to be received or sent.

Description

Text that allows documenting detailed information about the event.

Signal Name

Signal identifier that the event expects to receive or sends in order to continue executing the case automatically, depending on whether it is a <u>catch</u> or a <u>launch</u> event. A character string is specified. There may be more than one process waiting for the same signal.

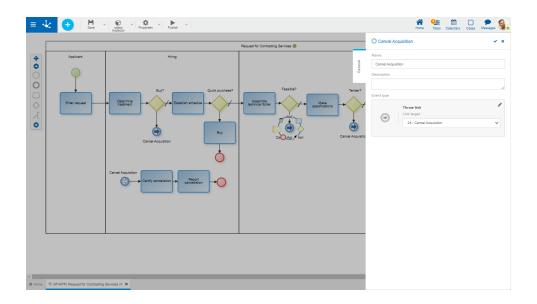
Example of Use

The "Refund with Budget Control" process sends a signal to automatically start the "Review Budgeting" process, when the established budget has been exceeded. Approved refund requests await a treasury signal that enables the cash flow.

3.7.4.9.2.3. Throw and Catch Link

The properties panel of the <u>throw link</u> and <u>capture link intermediate events</u>, is displayed on the right side of the process modeler.





Name

Text that is displayed in the diagram next to the graphic element of the event. If it is a catch link event, it is also the identifier used to reach it, from the throw link event.

Description

Text that allows documenting detailed information about the event.

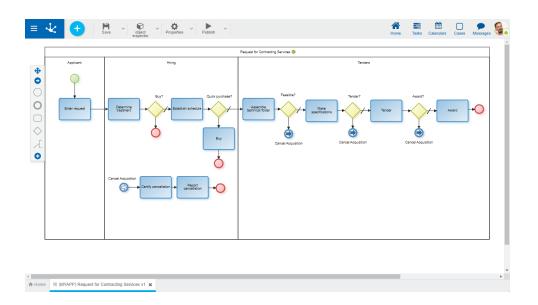
Link Destination

This attribute corresponds to the throw link event. Allows to select the event type catch link to go to.

Example of Use

The "Request for Contracting Services" process, to facilitate its interpretation, presents several links to the "Cancel Acquisition" event. These events are particularly useful in complex diagrams.





3.7.4.9.3. Border Event

General Tab

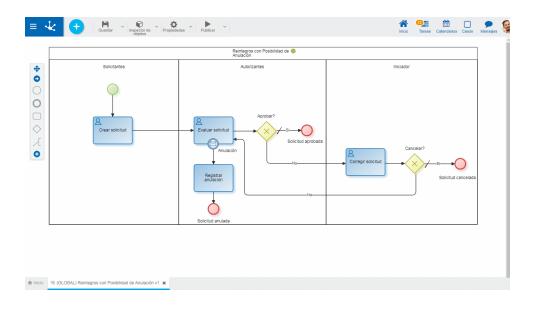
In the "General" tab, common properties for all border events and the specific ones for each case are defined, which are enabled when assigning the type of border event.

- Email
- Throw and Catch a Signal
- <u>Timer</u>
- File
- <u>Rule</u>

3.7.4.9.3.1. Email

The properties panel of the <u>email border event</u> is displayed on the right side of the process modeler.





Name

Event name. It is displayed in the process next to the graphic element that represents the event.

Description

Field that allows documenting the event.

Priority

Execution priority assigned to the event. It is reported as an integer, with 0 being the highest priority. If the event performs the action <u>mark event as processed</u>, events with lower priority are not executed.

Interrupting

The email border event is always interrupting. This means that if the established conditions are met, the event actions are executed and the case follows the event output flow.

Enabled

Indicates that the event is enabled to receive emails and execute if applicable.

Conditions

Allows to define <u>conditions</u> to be met for the email event to be executed.

Actions

They are the actions that are carried out automatically when the event occurs.

• Move Case

The case affected by the event moves on to the next activity.

• Attach file

Allows to attach a file to the case.

Parameter

Description



Parameter	Description
Email attachment	Position number of the email attachment that is attached to the case. (*)
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully.(*)

Note: The parameters selected with (*) are mandatory.

• Attach form

Allows to relate a form to the case.

Parameter	Description
User Code	If it is not reported, the current user is as- signed.
Values map	Report <field1><value1><field2><value2>, where fieldN corresponds to form field names and valueN to the values that are assigned to each field. It has higher priority than DS_XML_CONTENT_PATH</value2></field2></value1></field1>
XML	File path that contains the XML. It is mandatory if DS_VALUE_MAP is not reported
Annex Type	Annex type attached (*).
Create version if it exists and if it is unique	If when attaching the form, it already exists and is unique, a historical version of it is pre- viously created.
Reset previous form and it is unique	Indicates that if there is a form associated with the case and it is unique, data is deleted from it.
Depends on the previous execution	The action is executed only if the previously defined actions were executed successful- ly.(*).

Note: The parameters marked with (*) are mandatory.



• Check event as processed

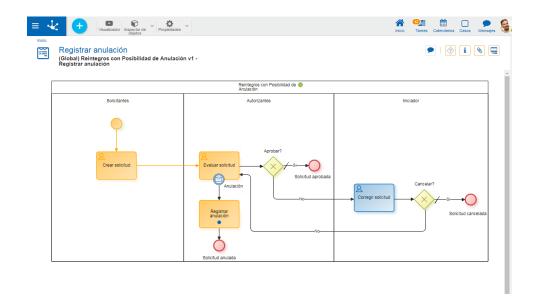
An automatic response is sent to the email received indicating that it has been processed.

Parameter	Description
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully (*).

Note: The parameters marked with (*) are mandatory.

Examples of Use

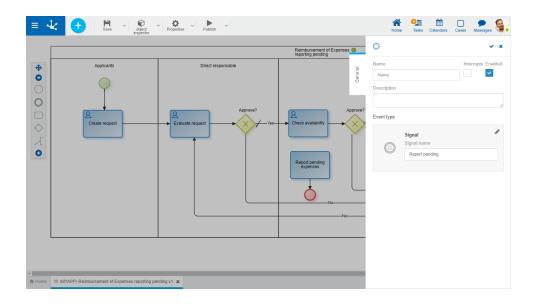
In the "Refunds with Possibility of Cancellation" process, if the applicant notices a mistake in the request sent, they can send an email to cancel it, as long as it has not been approved yet.



3.7.4.9.3.2. Signal

The properties panel of the signal border event is displayed on the right side of the process modeler.





Name

Event name. It is displayed in the process next to the graphic element that represents the event.

Description

Field that allows documenting the event.

Interrupting

Defines if the event is interrupting or non-interrupting. In both cases the signal must be received when the current activity of the case is the one that has the border event.

- Interrupting: When the signal is received, the execution of the current activity is interrupted and the case follows the event output flow.
- Non-interrupting: When the signal is received, the execution of other tasks begins, defined as event output flow. The current activity is not interrupted and the case continues after it finishes.

Enabled

Indicates if the event is activated to wait for the signal and execute.

Signal Code

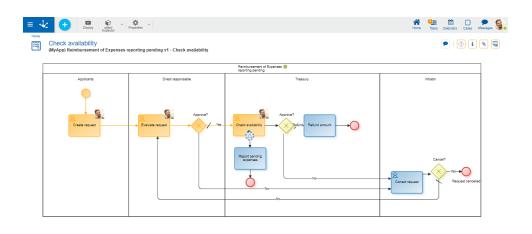
It is the signal identifier. A character string is specified.

Examples of Use

Interrupting Signal Border Event

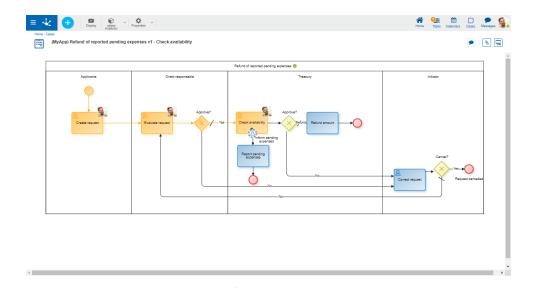
In the "Refund with possible payment suspension" process, if the "Suspension of refunds" signal is received, the cases in the "Check documentation" activity are suspended and the process ends.





Interrupting Signal Border Event

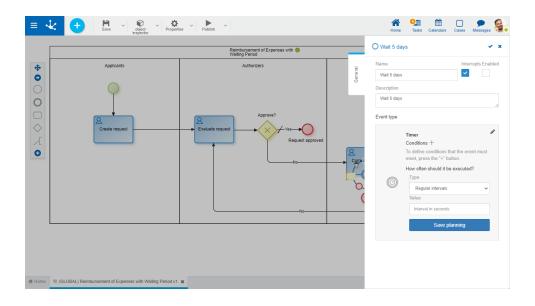
When the "Inform pending expenses" signal is received, in the "Refund of reported pending expenses" process, a report of the cases in the "Check availability" activity is generated. The cases continue through the circuit defined in the process.



3.7.4.9.3.3. Timer

The properties panel of the <u>timer border event</u> is displayed on the right side of the process modeler.





Name

Event name. It is displayed in the process next to the graphic element that represents the event.

Description

Field that allows documenting the event.

Interrupting

Defines if the event is interrupting or non-interrupting.

- Interrupting: When the conditions of the event are met, the execution of the current activity is interrupted and the case follows the event output flow.
- Non-interrupting: When the event conditions are met, the execution of other tasks begins, defined as event output flow. The current activity is not interrupted and the case advances after it finishes.

The event conditions are evaluated when the current activity of the case is the one that has the border event.

Enabled

Indicates if the case is enabled to be executed as scheduled, when the established conditions are met.

Conditions

They are the conditions that must be met for the event to be executed. If there are defined conditions, a list of them is displayed.

To add a condition, press the icon + and from the panel that opens, select Property and Operator in the corresponding drop-down lists. Report Value and where applicable, indicate in Parameter the field to be evaluated of the form associated with the process. For this type of event, apply all the <u>conditions</u>.

How often should it execute?

Туре

Allows to define the execution schedule for the event

• Regular intervals

• Daily at a specific time



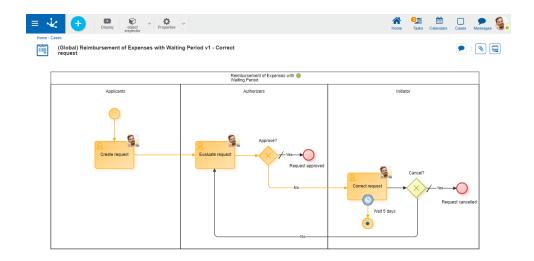
Value

Allows to define the interval value in seconds or at a specific time, according to the previously defined type.

The "Save schedule" button must be pressed to keep the established schedule. It can be seen on the Scheduled Tasks Monitor.

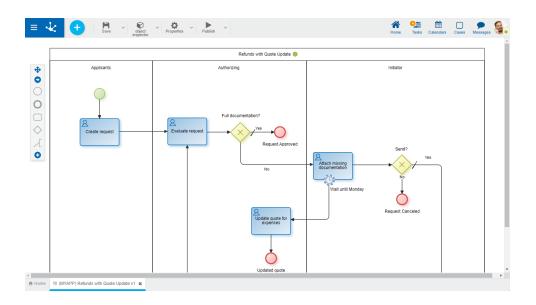
Examples of Use

In the "Expenses Refund with Waiting Period" process, if the applicant receives the request for its modification, they have 5 days to correct it. If the deadline expires and the request was not resubmitted, the process ends automatically and the request expires.



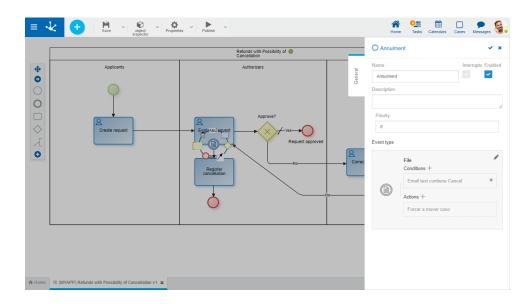
If in the "Refunds with Quote Update" process, while the case is in the "Attach missing documentation" activity, the conditions established in the timer border event are met, the quote is updated. When the applicant attaches the missing documentation, the case returns to the "Evaluate request" activity.





3.7.4.9.3.4. File

The properties panel of the <u>file border event</u> is displayed on the right side of the process modeler.



Properties

Name

Event name. It is displayed in the process next to the graphic element that represents the event.

Description

Field that allows documenting the event.

Priority



Execution priority assigned to the event. It is reported as an integer, with 0 being the highest priority. If the event performs the action <u>mark event as processed</u>, events with lower priority are not executed.

Interrupting

The file border event is always interrupting. This means that if the established conditions are met, the event actions are executed and the case follows the event output flow.

Conditions

Allows to define <u>conditions</u> to be met for the event to be executed.

Actions

They are the actions that are carried out automatically when the event occurs.

• Move Case

The case affected by the event moves on to the next activity.

• Attach file

Allows to attach one or more files to the case.

Parameter	Description
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully (*).

Note: The parameters marked with (*) are mandatory.

• Attach form

Allows to relate a form to the case.

Parameter	Description
User Code	If it is not reported, the current user is as- signed.
Values map	Report <field1><value1><field2><value2>, where fieldN corresponds to form field names and valueN to the values that are assigned to each field. It has higher priority than DS_XML_CONTENT_PATH</value2></field2></value1></field1>
XML	File path that contains the XML. It is mandatory if DS_VALUE_MAP is not reported
Annex Туре	Annex type attached (*).



Parameter	Description
Create version if it exists and if it is unique	If when attaching the form, it already exists and is unique, a historical version of it is pre- viously created.
Reset previous form and it is unique	Indicates that if there is a form associated with the case and it is unique, data is deleted from it.
Depends on the previous execution	The action is executed only if the previously defined actions were executed successful- ly.(*).

Note: The parameters marked with (*) are mandatory.

• Check event as processed

An automatic response is sent to the email received indicating that it has been processed.

Parameter	Description
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully (*).

Note: The parameters marked with (*) are mandatory.

3.7.4.9.3.5. Rule

The properties panel of the <u>rule border event</u> is displayed on the right side of the process modeler.



≡	↓ + !	H v object Properties v	Publish	F	ome Tasks	Calendars	Cases	P Messages	۹.
			Reimbursement of Operating O	O Inacti	ve or non-exi	stent imput	ation	~	* *
+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Applicants	Authorizing	Expenses Treasury Yes Charry superset (Dury superset) (Dury superset)	Name Inactive Description Priority 0 Event type	Rule Condition To define meet, pre Actions -1 Forzar a	s + conditions th ss the "+" but	at the evention.		
<	18 % (MYAPP) Reimburseme	nt of Operating Expenses v1 🗴							

Properties

Name

Event name. It is displayed in the process next to the graphic element that represents the event.

Description

Field that allows documenting the event.

Priority

Determines the priority of the event.

Interrupting

The rule border event is always interrupting. This means that if the established conditions are met, the event actions are executed and the case follows the event output flow.

Enabled

Indicates that the event is enabled to be executed according to the rule.

Conditions

They are the conditions that must be met for the event to be executed. If there are defined conditions, a list of them is displayed.

To add a condition, press the icon + and from the panel that opens, select Property and Operator in the corresponding drop-down lists. Report Value and where applicable, indicate in Parameter the field to be evaluated of the form associated with the process.

Actions

They are the actions that are carried out automatically when the event occurs.

Move Case

The case affected by the event moves on to the next activity.

• Attach file

Allows to attach one or more files to the case.



Parameter	Description
File to attach	File attached to the case. (*)
Depends on the previous execution	Indicates if the action is executed only when the previously defined actions were executed successfully.(*)

Note: The parameters selected with (*) are mandatory.

Attach form

Allows to relate a form to the case.

Parameter	Description
User Code	If it is not reported, the current user is as- signed.
Values map	Report <field1><value1><field2><value2>, where fieldN corresponds to form field names and valueN to the values that are assigned to each field. It has higher priority than DS_XML_CONTENT_PATH</value2></field2></value1></field1>
XML	File path that contains the XML. It is mandatory if DS_VALUE_MAP is not reported
Annex Туре	Annex type attached (*).
Create version if it exists and if it is unique	If when attaching the form, it already exists and is unique, a historical version of it is pre- viously created.
Reset previous form and it is unique	Indicates that if there is a form associated with the case and it is unique, data is deleted from it.
Depends on the previous execution	The action is executed only if the previously defined actions were executed successful- ly.(*).

Note: The parameters marked with (*) are mandatory.

Select scheduled rule task



Allows to select the rule to use, which must be an advanced rule and must be published.

Example of Use

In the "Refund of Operating Expenses" process, if the "Charge expenses" activity is executed and a rule that detects inactive or non-existent expense charges is executed, charges are reassigned so that the case can move to the "Make a refund" activity.

3.7.4.9.4. End Events

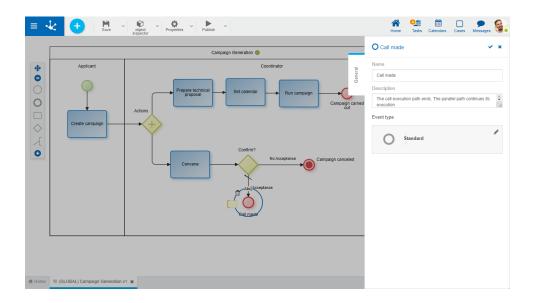
General Tab

In the "General" tab, common properties for all end events and the specific ones for each case are defined, which are enabled when assigning the type of end event.

- <u>Standard</u>
- <u>Signal</u>
- <u>Terminal</u>

3.7.4.9.4.1. Standard

The properties panel of the standard end event is displayed on the right side of the process modeler.



Properties

Name

Text that is displayed in the diagram next to the graphic element of the event.

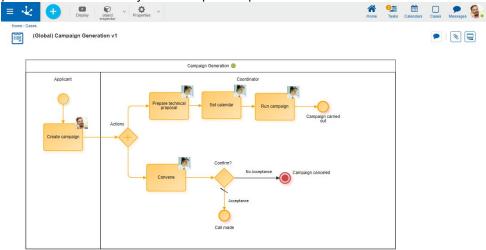
Description

Field that allows documenting the event.



Example of Use

The "Generate Campaign" process has two paths. The standard end event finishes the execution of the path that reaches it only. The fork parallel path is still active.



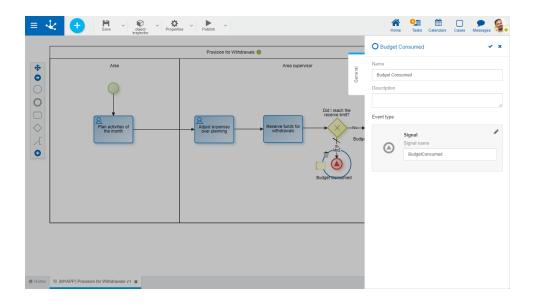
In the case show, the path end in which the standard end event is located can be seen. The parallel path is still active.

Casos			x 133						• X Iniciar Caso Situ			
Caso	¢ Inicio	Proceso	Estado	Descripción	Chat	Actividad	Inicio Actividad	Responsable	÷ Finalización	Vencimiento	Prioridad	
133-2	13:04	Generación de Campaña	•	(Global) Generación de Campaña v1 - Campaña realizada	P	Campaña realizada			13:05			
133-1	13:04	Generación de Campaña	•	(Global) Generación de Campaña v1 - Convocar		Convocar	13:04	🦣 Javier Paz		-	÷	
133	13:04	Generación de Campaña	•	(Global) Generación de Campaña v1		Acciones						
									Página 1 / 1	« Ir a	lr »	

3.7.4.9.4.2. Signal

The properties panel of the signal end event is displayed on the right side of the process modeler.





Properties

Name

Text that is displayed in the diagram next to the graphic element of the event. It is recommended to refer to the waiting signal.

Description

Text that allows documenting detailed information about the event. The processes that send the signal can be informed.

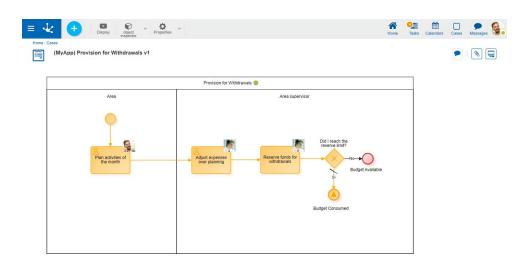
Signal Name

Enter a string of characters representing the signal code to send. The name entered must match the one configured when the signal is received.

Example of Use

If the "Provision for Refunds" process reaches the availability limit, it sends the "Consumed Budget" signal. The "Actions Auditing" and "Budget Update" processes start when the <u>signal start</u> events receive the aforementioned signal.





3.7.4.9.4.3. Terminal

The properties panel of the <u>terminate end event</u> is displayed on the right side of the process modeler.

	k 🕂 🗎	etject rspector Properties Publish	Aome Taska Calendars Cases Messages
		Campaign Generation 🔵	O Campaign canceled 🗸 🗙
•	Applicant	Coordinator	Name
0		Prepare technical Set calendar Run campaign Campaign carried	Campaign canceled Description If the campaign does not have a call, the execution of the activities of all the associated execution paths or child is Event type
♦	Create campaign	Confirm?	Terminate
		Convene Ho Acceptance Call made	
A Home	98 (GLOBAL) Campaign Generation v	1 ж	

Properties

Name

Text that is displayed in the diagram next to the graphic element of the event.

Description

Text that allows documenting detailed information about the event.

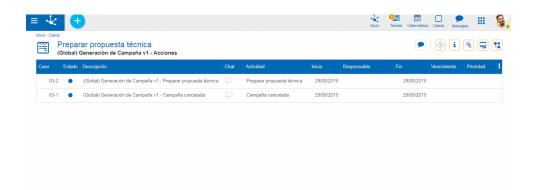
Example of Use

The "Campaign Generation" process, all paths are canceled when the evaluation of the call is not satisfactory.



	Signed Properties Properties	Home	O Tasks	Calendars	Cases Messages
Home - Cases (Global) Campaign Genera	tion v1				• • =
	Campaign Generation 🌑				
Applicant	Coordinator				
Create campaign	Actions + Preserve to christel Actions + Campaign carried Campaign carried Contern? Convene Convene Campaign canceled Campaign canceled Campaign canceled Campaign canceled Campaign canceled Campaign canceled Campaign canceled Campaign canceled Campaign canceled				

In the case show, the termination of all fork paths can be verified.



3.7.4.10. Good Practices

Good practices for processes modeling in **Deyel** consist of a set of recommendations, to be met whenever possible.

They allow to build clearer and more understandable processes models, standardizing the use of the graphic elements that compose them.

- Processes Modeling
- Lanes Modeling
- Activities Modeling
- Events Modeling



- Flows Modeling
- Gateways Modeling

3.7.4.10.1. Processes Modeling

Good Practices

Name

- The name of the processes and sub processes must clearly describe their main purpose.
- Short names or abbreviations must not be used.

Diagrams Size

• Long diagrams do not allow to give a global perspective to the readers, they make reading difficult and don't communicate clearly the purpose of the processes.

Number of Activities

- Although various factors affect the complexity of a process, the number of activities is one of the most relevant factors.
- As a general criterion, diagrams with a maximum of 15 to 20 activities are recommended.

Unification of Activities

• If a set of consecutive tasks can be executed sequentially by the same person, at the same time, then these activities must be integrated into one.

Subprocesses

• The use of subprocesses is recommended to group activities with the same purpose.

Activities Alignment

• It is recommended to keep the activities aligned with each other, horizontally and vertically. This practice allows ordering the diagrams, keeping them neat visually.

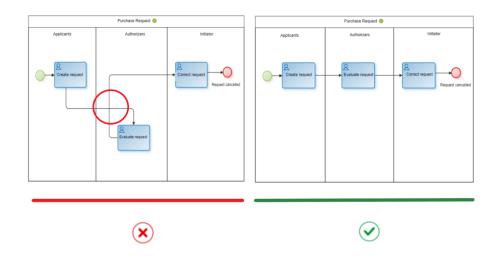
Standard Size of Elements.

- It is recommended not to change the size of diagram elements.
- Keeping the standard sizes avoids discrepancies and keeps the visual elements homogeneous.



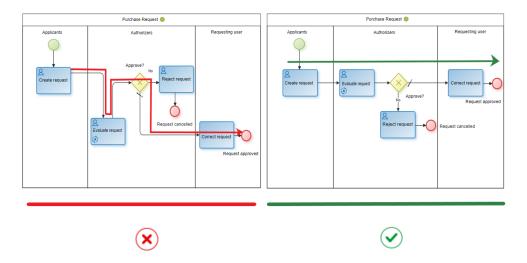
Flow Orientation

- For people who read from left to right, it is intuitive to follow a logical flow from left to right or from top to bottom. It is recommended to diagram the process flows in this direction.
- The crossing of connectors must be avoided, maintaining a chronological sequence and a consistent flow direction.



Primary Scenario Clarity

• The main road should be easily identified when reading the diagram, so it is recommended to diagram the main road first and then add the alternative roads.



Links

• It is recommended to use this type of event to avoid complexity in the flows.





Artifacts

- It is recommended not to overuse the objects that serve to document the process. Notations, associations, groups and data objects are elements that can clarify the diagram, but the excessive use of these types of elements can increase the visual complexity of the model.
- In order not to use a large number of artifacts, it is recommended to document the details within each activity or each element of the model.

3.7.4.10.2. Lanes Modeling

Good Practices

Name

- The lane name must be chosen carefully, so that it accurately represents the participant of the process.
- It is recommended to use the description field to document the responsibility.

Participant Type

- Avoid using responsibles of type user as much as possible.
- It is recommended to use roles or agents, that give greater possibilities to changes.

Need

- A lane must be created only if at least one intermediate task or event is executed on it.
- It is recommended not to create lanes to represent participants who only run automatic activities.

3.7.4.10.3. Activities Modeling

Good Practices

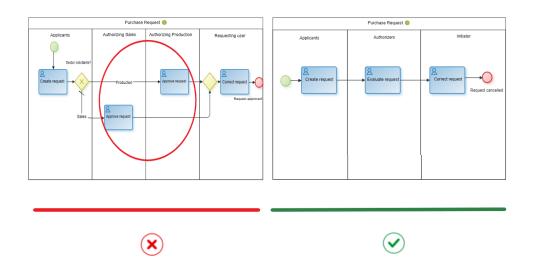
Name



- The activities name is made up of an infinitive verb and an object.
- The name must clearly identify the objective of the activity. For example, "Create request", "Authorize request", "Notify rejection", and so on.
- The first letter must be used in uppercase and the others in lowercase. Short names or abbreviations must not be used.
- It is recommended to avoid long names, they usually denote that certain details of the activity affect their name. The name must represent the objective while details are documented within the activity.
- The use of "and" and "or" in the names of activities must be avoided. These types of compound names can mean that they are actually two different activities. For example, if the activity is called "Review and approve request", you must consider which is the correct option. If the same participant performs both actions at the same time, then the most relevant action must be chosen and used to name the activity, then it can be assumed that the primary objective is approval and the review is a subtask. The correct name is "Approve request". On the other hand, if it is considered that both actions have the same relevance and are made at different times, then it is convenient to separate them as "Review request" and "Approve request".

Repetition

- Multiple instances of the same task should not be diagrammed to represent multiple participants.
- It is recommended to use roles or agents so that the participant assignment is made accordingly, when executing the process.



Typing

- It must be indicated each activity type.
- It is recommended to be careful selecting the appropriate type, which allows a correct interpretation of the diagram.



Automatic Tasks vs Automatic Actions

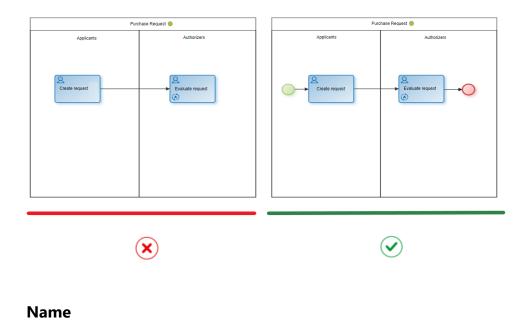
- There are certain actions, such as sending an email, executing a rule, etc. that can be modeled in different ways in **Deyel**:
 - a) Representing them explicitly in the model, through shipping type activities, business rule, services, etc.
 - b) Specifying automatic actions that are executed when starting or ending a user activity or manual activity.
- The recommendation is that the tasks to be viewed individually have to be modeled as different activities and the type of each one is selected.
- Those others that do not need to be visually explicit, should be modeled as automatic actions of user activity. For example, a rule that retrieves the initial value of a field before executing the user activity,
- It is important to maintain a uniform criterion in this regard and also consider that long diagrams are not convenient.

3.7.4.10.4. Events Modeling

Good Practices

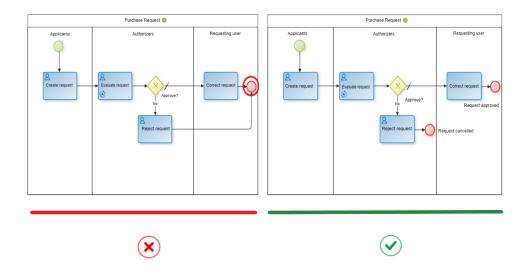
Start and End Events

• It is recommended to always use the start and end events in each process and subprocess to represent its beginning and end.

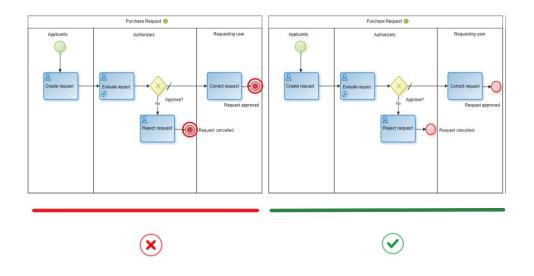




- The start and end events must not be tagged when they are unique. It is very common to name them as "Start of the process" and "End of the process" but this is redundant and unnecessary.
- Events must be identified when multiple start or end events are used.
- The start events must have labels indicating the condition or fact that triggers the start of the process.
- The end events must be named indicating the final state of the process. In general the name must use a noun, which is the business object, along with a verb in the past tense. For example: "Request approved", "Request canceled", etc.
- It is recommended to identify the final successful and unsuccessful states.



• Terminal end events must only be used when strictly necessary. They are used to model situations where multiple alternative paths are enabled and only the completion of one of them is required to complete the entire process.





3.7.4.10.5. Flows Modeling

Good Practices

Use of Legends

- It is recommended to use the legends to represent the condition through which a flow is passing.
- Legends have to be visually associated with the flow and are not confused with other legends.

Avoid Crossings

- As far as possible the crossings of flows should be avoided.
- If necessary, let it be in places where the legends of the flows are not confused.

Avoid Diagonal Flows

- It is always preferable to use "L" shaped flows.
- There can be multiple vertices in the flow and it is recommended to minimize their number.

Anchor Points or Ports

- Central anchor points have to be used in activities.
 - Flows enter from the top side and the left side.
 - Flows come out from the bottom side and the right side.
- In the gateways it is recommended to use the anchor points of the vertices.
 - Flows enter through the top or left vertices, using the same entry point.
 - It is recommended to distribute the outgoing flows neatly.
 - The gateway name must not be below the flows.

3.7.4.10.6. Gateways Modeling

Good Practices

Name

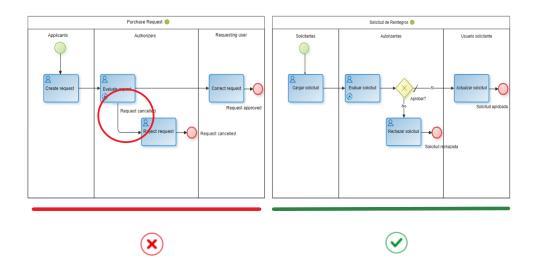
- All divergence gateways must be named.
- A question is generally used that represents the decision or logical condition evaluated. For example: "Authorized Request?".



- All outgoing flows must be named.
- Their name must represent the responses or possible values of the condition evaluated. For example, if a gateway is called "Request Authorized?", Its outgoing flows should be called "Yes", "No".

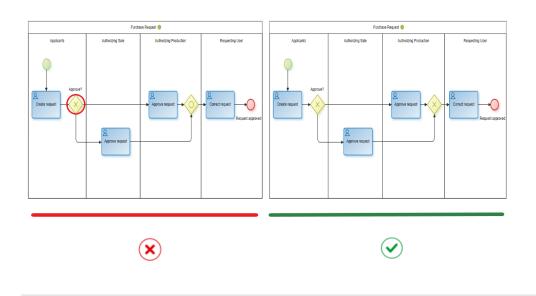
Gateways for Forks

- Flows must not be branched using tasks.
- Gateways should always be used for this purpose.



Gateways for Synchronization

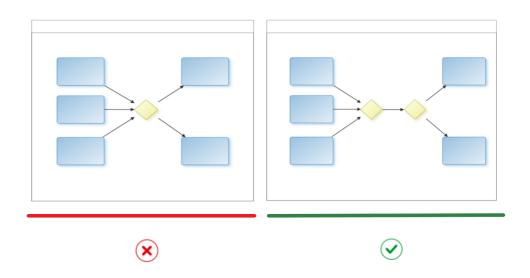
• To synchronize flows, it is recommended to always use the same type of gateway that is used to fork them.





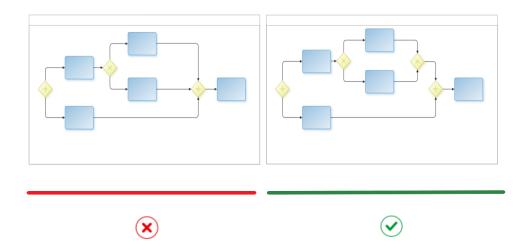
Separate the forks and Synchronizations

• It is recommended not to use gateways to join and separate flows at the same time.



Balancing

- Flow branches must be equivalently synchronized.
- The number of flows leaving a fork must be equal to the number of flows that are received in a synchronization.



Exclusive Gateway

Has two representations. The same representation must be used for the entire definition of a process.





- It can be used as a fork or synchronization element.
- It is used to represent a fork in the flow, where there are several possible alternatives but only one should be considered.

They are mutually exclusive alternatives.

- These gateways require the definition of a default flow.
 This flow represents the path taken when none of the other conditions are met.
 We recommend that the most common path, the most probable, is the one that is modeled as the default flow.
- The exclusive gateway can be defined in pairs, one as a divergent element to activate several mutually exclusive paths and if these paths converge, a gateway of this type must be used as a convergent element, to graphically represent the concurrence of the flows.

Parallel Gateway

Its graphic representation is as follows:



- It can be used as a fork or synchronization element.
- When used as a fork, the output flows do not require conditions as all paths must be followed. Likewise, it is recommended to put a legend in each flow that represents the condition that was met in order to be able to transit such flow.
- When the gateway is used as a convergent element (synchronization), all the predecessor activities are expected to finish their execution.
- The parallel gateway must be defined in pairs, one as a divergent element to activate several parallel paths, and the other as a convergent element, to synchronize the previously activated paths.

Inclusive Gateway

Its graphic representation is as follows:



• It can be used as a fork or synchronization element.



• The inclusive gateway as a fork element is used at a point in the process where one or more alternatives may be viable based on a condition.

For example, after creating a document, it must be approved by the corresponding offices according to the type of document created.

To implement the multi-decision pattern it is necessary to use the inclusive gateway. This gateway allows one or more paths to be enabled according to the evaluation of the conditions of each flow.

• If none of the conditions are met, a default flow can optionally be defined, that takes into account this situation.

If this default flow is not defined, then an error is obtained stating that there are no viable alternatives.

- The inclusive gateway as a convergence element is activated if at least one case reaches the inclusive gateway and if some other case of the processes execution that could reach the gateway (the canceled threads are not considered) arrived previously.
- The inclusive gateways can be defined in pairs. That is, one as a divergent element that generates parallel activities, and then that converge in an inclusive gateway of convergence, which synchronizes the previous paths.

3.7.4.10.6.1. Patterns

Patterns for processes design are examples that show how to connect activities to solve a common problem.

Parallel Paths

A parallel path is a point in the process execution where the execution flow is divided into two or more flows that are executed in parallel.

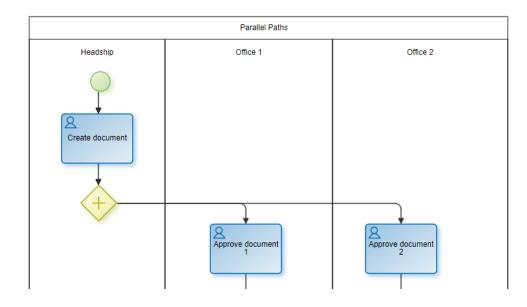
Example

A document is created in one office, which requires the approval of two other offices.

Implementation

To implement parallel paths, it is necessary to use a parallel gateway. This gateway creates all alternative paths without evaluating conditions.





Synchronization

Synchronization is a point in the process where two or more different flows of the process are joined into a single flow. It is called synchronization because it waits for all the flows to be joined to complete before proceeding to the next activity.

Example

The document created by one office must be delivered after it has been approved by two other offices.

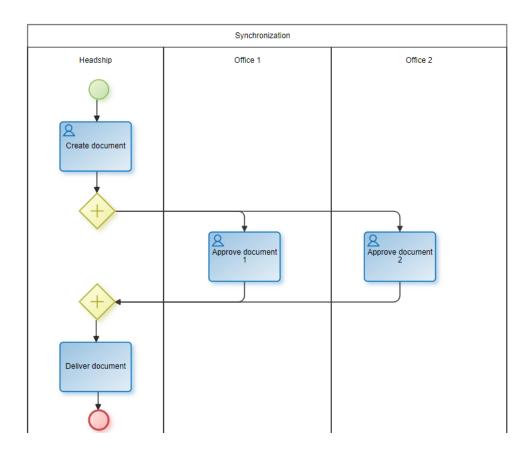
Implementation

In the example we use the parallel gateway as convergence which means that it synchronizes the previously activated paths.

The synchronization pattern can also be modeled with the exclusive and inclusive gateway, according to the needs of the business.



Página | 308



Exclusive Decision

Exclusive decision is a point in the process where a path is chosen from several paths based on a condition or information from the process.

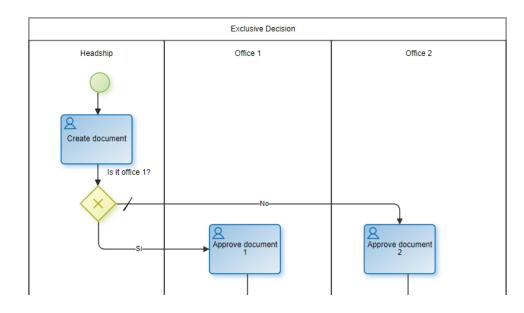
Example

When creating a document, it must be approved by an office that corresponds to the type of document created.

Implementation

The exclusive decision pattern can be modeled with the exclusive gateway. The exclusive decision has multiple output flows, but only one of them can be made based on the conditions of each stream.





Simple Union

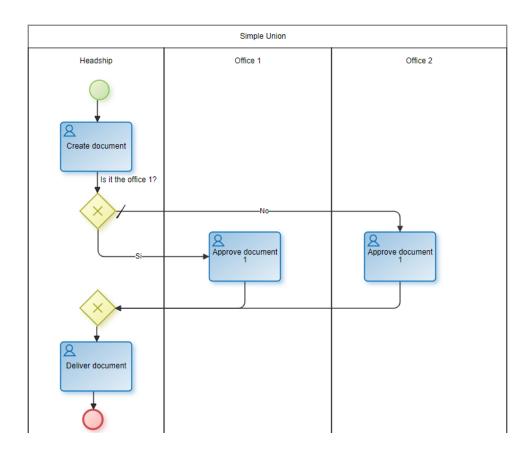
Simple union is a point in the process where two or more alternate paths meet without synchronization. This pattern assumes that of the different paths only one is executed.

Example

After creating a document, it must be approved by the corresponding offices according to the type of document created. Once approved by the corresponding office, it must be delivered by the office that created it.

Implementation





Multi-Decision

The multi-decision pattern is used to model a point in the process where a set of paths are chosen based on a condition.

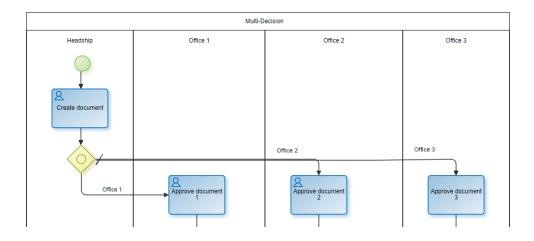
Example

After creating a document, it must be approved by the corresponding office or offices according to the type of document created.

Implementation

To implement the multi-decision pattern it is necessary to use the inclusive gateway. This gateway allows one or more paths to be enabled according to the evaluation of the conditions of each flow.





Synchronized Structured Union

It is a point in the process where multiple paths that were previously activated in the process converge in a single thread of execution.

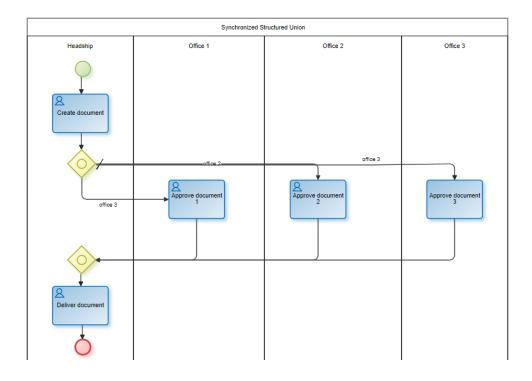
Example

Once the document has been approved by the appropriate office or offices, it must be delivered by the office that created the document.

Implementation

To implement this pattern it is necessary to use two inclusive gateways, one for divergence (activate some paths) and the other for synchronization (synchronize the activated paths).





Multi-Merge

The multi-merge pattern is used to model the convergence of two or more paths in a single path. Each time an input path is activated it activates the next activity in the execution flow.

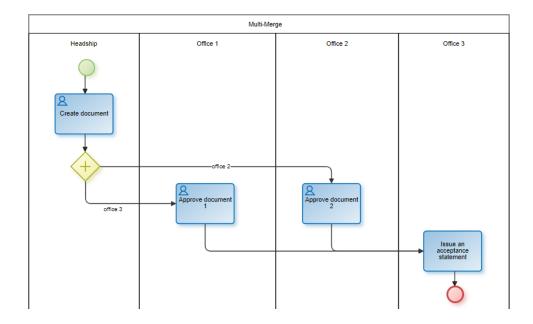
Example

After creating a document, it must be approved by two offices. Each time an office approves it, a third office must send an approval release.

Implementation

The pattern uses a parallel gateway to enable two paths. Each time the activities on one path are executed, the next activity will be as well. In this case, the "Send approval statement" activity is executed twice.





Forms Modeling 3.7.5.

Phase 2: Forms Modeling

The form modeler is a tool that allows to graphically design forms, as well as define the characteristics of their fields and behavior in the associated processes.

Modeler 90 2				Search	Q 77, 3
Name	Application	Туре	State	Update 🗸	Update User
Address Type	Global	Value List	٠	18/11/2022 17:22	9
Account	Global	🛞 Formulario Ágil	•	18/11/2022 17:20	9
State of the Accounts	Global	 ✓ Value List 	•	18/11/2022 17:20	9
Social Network	Global	✓ Value List	•	18/11/2022 17:20	9
Phone Types	Global	✓ Value List	•	18/11/2022 17:20	9
Mail Types	Global	 ✓ Value List 	•	18/11/2022 17:20	9
Origins	Global	 ✓ Value List 	•	18/11/2022 17:20	9
Industries	Global	 ✓ Value List 	•	18/11/2022 17:20	9
Customer	MyApp	Eorm	٠	18/11/2022 17:19	9
Opportunity	МуАрр	Form	•	18/11/2022 17:19	6

Its main characteristic lies in the simplicity to manage the functionality associated with the forms, facilitating their progress through the different states that indicate its modeling situation and productive use.

The general characteristics of the forms modeling environment and the main elements that compose it are described in the topics:



- Modeling Facilities
- Form Properties
- Element Properties

A new form can be created from the icon $\stackrel{\bullet}{\frown}$ corresponding to the <u>context menu</u>.

- From the icon 🔍
- From the menu displayed with the option "Form"

An existing form is modified by selecting it from the grid with the "Open" button.

3.7.5.1. Modeling Facilities

Phase 2: Forms Modeling > Forms modeling

General characteristics of this modeler are specified below.

New Form

The modeler user defines a new form, which after being published is available to be used in the portal.

It can be modeled simultaneously:

• Data model layer

Involves modeling all the fields with associated data types, field identifier, fields used as filters in searches, field data lengths, behavior and other validations related to business rules.

• Form display layer

As its name implies, it is entirely related to the visual aspect of the form. This implies that you have control and decision about the arrangement, order, and width of the different fields and containers, interactive buttons, titles, labels, and informational messages, among other topics. There is also the option of displaying or not, the different sections or fields of a form and of using accordions.

When the form is created, a panel opens, allowing the entry of its name.



My form o	New form	Preview	Fields	Grid/Filters Permissions	Advar
Graphic Container	New Iom	×			
Identifier%	Descriptive Name				
	Enter descriptive name				
		Cancel New			

Workspace Sections

- <u>Top Toolbar</u>
- Form Information
 - Name
 - 💽 <u>State</u>
 - 🕒 Locking
- Graphic Modeling Area
 - Graphic Container
 - 🔦 Identifier

Every new form contains an identifier field defined by default within the area of graphic <u>modeling</u>. It has the following characteristics:

- Its data type is integer with a length of 10.
- It is autonumeric, increasing value, starting from 1.
- It cannot be deleted.
- Only behavior properties can be modeled Visible and Validation.
- It cannot be included within a "Multiple occurrence" type group.
- Properties cannot be modeled Default Value, Type of content and Security.
- Relations cannot be modeled.
- Design Options
- <u>Side Toolbar</u>



E 🕹 (+ 🛱 · Properties · Dublish ·)			ases Messages
My Form	Form Preview Fields	Grid/Filters Permissions	Advanced
Graphic Container			
€ † Hone ■ (MYAPP) MyForm x			

3.7.5.1.1. Top Toolbar

This toolbar contains icons and submenus from which you can perform operations on the object. Depending on its <u>state</u>, some options may be disabled.

Purchase Request				
Request Id ²	Application Date	Applicant	Organizational Unit	
	*	**	* *?	
Phone Number	Delivery Address	Estimated Delivery	Online User	
	*	*	& @ 📌	
Justification				
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Lines				
Description	Quantity Curren	cy Unit Price	Total	
*	Cur	rency 🗸 😽	* & ā:	○ ⊗
			Estimated Total	

The bar is displayed on the toolbar of **Deyel**.



This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". If certain conditions are met, the modeler user receives a message indicating that the operation was performed correctly, otherwise they receive an explanatory message.

Main Conditions

• The application of the object must exist.



- The name must be unique in the application.
- The object must not be locked by another user.
- The object's permissions must exist.
- Modeled fields in process activities should not be eliminated as mandatory, whether they are used as parameters in automatic activities, in flow conditions or messages, in embedded rules of other fields in the form or in process activities, or as related attributes on entities.

To the right of the icon the option to open the <u>submenu</u>.



Open the form properties panel.

To the right of the icon the option to open the <u>submenu</u>.



By means of this icon the object goes to "Published" state, after verifying a set of additional conditions to those of the "Save" operation. The modeling user receives the corresponding message, indicating the result of the operation.

Main Conditions

- The entities and related rules must be published.
- Relations to published processes should not be removed.
- If new instances are created during the modeling of an already published form but without data, the form cannot be published again.
- If instances of a form are created while it is being modeled, it cannot be saved or published without opening it again in the modeler. Another option to save or publish the modeling in progress can be to delete instances.

To the right of the icon the option to open the <u>submenu</u>.

3.7.5.1.1.1. Save Submenu

This submenu is opened by pressing the icon immediately to the right of the icon corresponding to "Save".



	q ✓ Validate		Form	Preview Fields	Grid/Filters Permissions	Advanc
Purchase Re	e 욘 Export					
Request Id4	1 Delete	plication Date	Applicant	Organizati	onal Unit	
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✔ Validate

This icon validates if the object is ready to be published, that is, the validations performed are applied at the moment of <u>publication</u> and the result of the same is reported.

🔒 / 🔓 Lock unlock

- It allows blocking a form to ensure that no one can modify it until the person who is using it unlocks it, that is, releases it.
- 🔓 Allows you to unlock a form so that another user can modify it.

🛃 Export

This icon opens a window for the user to select and confirm the export of the object and the related objects included in it.



	Purchase Request	Export Form: Purchase Request	Form Proview X	Fields Grid/Filters	Permissions Advanced
	Purchase Request	Enter description		Organizational Unit	
		* Exported Objects	^	**	
	Phone Number	Name Purchase Request	Application Type MyApp Form	Online User	
4	Justification	Currency	MyApp Value List		
	Items		Cancel Export		
	Description *	Quantity Currency Currency	Unit Price	Total * & a ^x	0 0
	·			Estimated Total	
	Suggested Provider				
	Provider Address	Contact	Phone Number		

Description

In this property a text explaining the reason for the operation can be entered. This text can be modified upon import and is displayed in the description column of the <u>export record</u>.

Exported Objects

By expanding the container, the objects related to the form being exported are shown. Objects not meant to be exported are unchecked.

The related objects that can be exported along with the form are:

- Value lists associated with fields.
- Advanced rules used in fields, from the "<u>Relation</u>" tab of the field properties or included in <u>embed-ded rules</u>.

You must press the "Cancel" button to leave the export without effect or the "Export" button to finish the operation.

Forms corresponding to related entities are not included in the export.

Delete

Allows to delete the object only if it is in "Draft" <u>state</u>, closing the tab in which it is located and deleting it from the modeler's grid.

2 Download Java Sources

This icon allows to download the Java files that represent the object's model and service, so that it can be used in advanced rules.

Pressing the icon displays a message to confirm file download.

3.7.5.1.1.2. Properties Submenu



This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Properties".

	I Shortcuts	Form F	review Fields Grid/Filters	Permissions Advance
Purchase Request	Application Date	Applicant	Organizational Unit	
	*	* *?	* *?	
Phone Number	Delivery Address	Estimated Delivery	Online User	
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Justification				
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Lines				
Description	Quantity	Currency Unit Price	Total	
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			Estimated Total	
			R	
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Preferences

Defines display preferences for forms modeling.

F	Purchase Request	-		Prefere		rm Preview	×	elds	Grid/Filters	Permissions	Advanced
	Request Id%	Show Grid			*		Accept	Organizat *** Online Us	er		
A P	Justification * Items										
	Lines Description *	Qu	antity	Currency Currency	~	Unit Price		Total ★∦an		• •	
								Estimated	i Total		
	Suggested Provider										

• See grid

Indicates the division into rows of the graphical modeling area. The default value is "No".



Pur	rchase Request			Prefe	rences	Form	Proview	Fields	Grid/Filters	Permissions	Adva
	Purchase Request Request IdRe Phone Number	App Show	Grid	_	*	_	Accept	Organizational ※ 19 Online User	Unit		
	Justification * tems]			
	Lines Description *		Quantity	Currency Currency	¥	Unit Price		Total * & an		• •	
								Estimated Tota	d.		
	Suggested Provider Provider Address		Contact		Phone Number						

Shortcuts

Opens a panel with all available keyboard shortcuts to use in forms modeling.

Description	Quantity Currency	Unit Price	Total	08
*	Keyboard shortcuts		× *& a*	
	Form Properties	CTRL + B	Estimated Total	
	Save Form	CTRL + S	27	
Suggested Provider	Publish Form	CTRL + P		
Provider Address				
Simple Container				
Graphic Container				
Multiple Ocurrence Container				

3.7.5.1.1.3. Publish Submenu

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Publish".



	Purchase Request	Publish V V Delete data © Delete publication	Form Preview	Home Tasks (Calendars Cases Messages
	Purchase Request Request Request Request Request Phone Number Justification	Application Date # Delivery Address #	Appleand ※ 년 Estimated Delivery ※	Ogancational Unit *√* Online Unit Ø ⊕ Φ*]
	Items Lines Description *	Ouanthy Currency Currency	Unit Price	Total *∦∦a [×]	• •
	Suggested Provider Provider Address	Contact	Phone Number	Estimated Total]
A Home	(MYAPP) PurchaseRequest 36				

Delete Data

Instances that would have been generated when using the form are deleted.

If the instances of a form are linked to cases of processes related to the form, first these cases must be deleted from the option <u>Delete Data</u> from the top bar of the process modeler.

Delete publication

This icon allows to leave the form unavailable for use by returning it to the "Draft" <u>state</u>, in addition to deleting the data.

3.7.5.1.2. Graphic Modeling Area

The graphic modeling area is the space where the different elements are dragged from the <u>side toolbar</u>, allowing to model the graphical arrangement of the elements in the form.

The modeling area is divided into rows, and each element on the form occupies at least one cell within the row.



Página 323

Purchase Request					
Request Id4	Application Date		Applicant	Organizational Unit	
	*		**	**	
Phone Number	Delivery Address		Estimated Delivery	Online User	_
	*		*	2 ® \$	
Justification					
*					
Items Lines]
Description **		Quantity Currency Currency	Unit Price	Total *&a ^x	• •
				Estimated Total	
Suggested Provider					

Operations on the Elements

When you drag an element from the left toolbar to the graphic modeling area, it is inserted in the chosen place. Hovering the mouse over the element displays a set of icons that allow to perform different operations. The operations available depend on the type of item you are working with.

- Allows to delete an item. Clicking on this icon displays a confirmation message that, when pressed, deletes the modeled element.
 In case the form is published and it already has data loaded, this icon is disabled.
 - Allows to modify the graphic width of the element. The right icon enlarges the width in a unit and the left icon decreases it by the same amount.

ь

Allows to enter the section of element properties.

- Allows to move the field to any other sector in the modeler area. You can drag the field by keeping the click on this symbol and dropping it on a row, or on the cell separators, so the field moves to the indicated area.
- Every form is created containing an identifier field by default, and is represented by a key to the right of the label.





Behavior Indicators

In each form field, you can visualize the icons corresponding to the <u>modeled behavior rules</u>, the <u>relations to entities</u> and the <u>related attributes</u>.

* Required / Required with Rule ** ٢ Not visible / Visible with Rule ් X Not editable / Editable with Rule Ð \checkmark Validates with Rule a" Calculates with Rule 2 Relation to an Entity •? **Related Attribute**

3.7.5.1.3. Design Options

The mode of creation/editing of a form allows defining the set of fields that compose it, the type of information that is stored in each one, their distribution within the form and with which characteristics they are presented to the user. In this way you can work on the data model and its visualization at the same time.

Purchase Request								
Request Id%	Application D	ate		Applicant **		Organizational Unit		
						*5		-
Phone Number	Delivery Addr	055		Estimated Delivery	(Online User		
	*			*		2000		
Justification								
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Description *		Quantity	Currency	~	Unit Price	Total	0 0	
			Currency	•	4	木ダキ		
						Estimated Total		
						×		
Suggested Provider								

- <u>Form</u>
- <u>Preview</u>
- Fields
- Grid and Filters



- <u>Permissions</u>
- Advanced Edition

3.7.5.1.3.1.Form

The graphical modeling area is presented when the modeler starts, where fields, graphical elements and containers can be defined.

These items are available in the <u>left side toolbar</u>, where its structure and operation are explained in detail.

Purchase Request					
Request Id%	Applicatio	in Date	Applicant	Organizational Unit	
	*		**	**	
Phone Number	Delivery	Address	Estimated Delivery	Online User	
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Items]
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Lines Description *		Cuantity Currency Currency	Vnit Price	Total	08
Description				* 2 a.*	• •
Description				* & a*	• •

3.7.5.1.3.2. Preview

It allows to have a vision of the modeled form, showing how it would look in the user portal. For example, buttons for editing the "Form" tab are hidden and the containers (accordions and tabs) are displayed, the containers that have the hide property active are hidden, etc.

Purchase Request							
Request Id%	Application Dat			Applicant		Organizational Unit	
Phone Number	DD/MM/AAA Delivery Addres			Estimated Deliver	1	Online User	
Justification				DD/MM/AAAA			
▲ Items							
Description		Quantity	Currency	~	Unit Price	Total	• •
						Estimated Total	



3.7.5.1.3.3. Fields

Allows you to see the list of all form fields in a paginated table, with quick search capabilities, filters, order, viewing the properties of each one and allowing operations to be carried out.

Purchase Reques	st •			Form	Preview Fields	Grid/Filters Permissions Advan
					Search	
tabel	Name	Identifier	Included in Grid	Multiple	Туре	Rules Operations
Address	address	address		NO	Alphanumeric	i /
Applicant	applicant	applicant		NO	Alphanumeric	û 🖉
Application Date	applicationDate	applicationDate		NO	Date	0 /
Contact	contact	contact	D	NO	Alphanumeric	0 🖉
Currency	currency	currency		SI	Integer	i /
Delivery Address	deliveryAddress	deliveryAddress		NO	Alphanumeric	• 🖉
Description	description	description		SI	Alphanumeric	i /
Estimated Delivery	estimatedDelivery	estimatedDelivery		NO	Date	• 🖉
Estimated Total	estimatedTotal	totalEstimated	D	NO	Decimal 2 posiciones	• 🖉
Justification	justification	justification		NO	Alphanumeric	i /
						Previous 1 2 1

Columns

Label

Allows to enter the text that is displayed on the field. It works together with the prefix to reference the field in validation messages and supports blank spaces.

Name

Name assigned to reference a field in the modeling, allowing the field to be uniquely identified within the form. Used in rule wizards to refer to field within conditions. It generates automatically from the Label property, it can be modified by the user and does not allow spaces or special characters. It allows its editing and it must be unique in the form.

Identifier

It is the name that is assigned to refer to a field in the programming code, it is used to refer to the field within the Java code in the "Execution Code" tab of the advanced rules and in the JavaScript code in the "Advanced Editing" tab of the form modeler. Allows to uniquely identify the field within the modeled form. It can be modified by the user, as long as no data has been loaded into the form and it does not allow spaces or special characters.

It allows its editing so that the user can modify it only when the form does not contain data.

Included in Grid

Indicates if the field is displayed in the results grid where the form instances are shown.

Multiple

Indicates if the field has multiple occurrences.

Туре



Determines the data format that can be entered in the field. The supported data set varies, depending on the type of field that has been created from the elements of the <u>left side toolbar</u>.

Rules

Ш

In case the field has any associated rule of <u>Required</u>, <u>Visibility</u>, <u>Editability</u> or <u>Validation</u>, an icon is displayed indicating the type of rule.

Operations

Allows to delete the field only in forms without data and requires confirmation by the user. Attributes editing opens a new panel that allows to edit the <u>field properties</u>.

3.7.5.1.3.4. Grid and Filters

Grid

Allows to model the columns displayed in the <u>results and search grids</u>. The default columns of the grid correspond to those fields that have been configured with the <u>Included in Grid</u> property checked.

Pro	ovider 🗙 Reques	at Id × Applicant × Es	timated Total X Estimated D	elivery 🗙 Application Da	te 🗙 Organizational Unit	× 🕀		9 Q T Ł Quick Search	1
	Provider	Applicant	Estimated Delivery	Application Date	Request Id	Organizational Unit	SI	Search Provider Request Id	
								Applicant Estimated Total Organizational Unit	
								Address Instance Owner	÷

New fields can be added by pressing the icon \bigoplus to the right of the last column of the grid and its order can be modeled by dragging the shaded rectangles of the columns to swap their positions.

When hovering over the title of each column, the following icons are displayed:

Allows to model the width of each column by moving the limit bar to the right to enlarge the column, or to the left to shrink it.

× Remove the column from the grid.

 $^{\uparrow}$ $^{\downarrow}$ To establish the column by which the default sorting will be performed, it is ascending or descending depending on the selected icon.



It is displayed when a field has a relation modeled to a value list. Pressing the icon allows to select the content type to display in the column. The default value is "Text", which can be changed to "Icon" or "Icon and Text".

Pi	rovider 🗙 Reques	0 C st Id X Applicant X Es	timated Total 🗙 Estimated De	elivery 🗙 Application Da	te 🗙 Organizational Unit	Search		Ø Q	¥ 🛃 🗄
	Provider	Applicant	Estimated Delivery	Application Date	Request Id	Organizational Unit	Status × ↑ ↓ ¢		
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							Icon Icon and Tex		
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In forms with associated processes, columns related to the case execution can be added when modeling the result grid.

Case Activity

It is the activity of the process in which the case is.

Case Responsible Agent

Refers to the user, role or office that the case has pending on its task list.

Case State

It is represented by a circle of different colors.

- Active: Green
- Finalized: Blue
- Cancelled: Red
- Discontinued: Gray



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	Provider	Applicant	Estimated Delivery	Application Date	Request Id	Organizational Unit	Status	
							case Case Activity	
							Case Responsible Agent	Ð
							Case State Add	
							Auu	

Filters

The definition of filters allows modeling search criteria on form instances. Each filter corresponds to a form field or to a field related to its execution.

Pressing the icon located in the filter line, a panel to select the fields opens.

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	Provider	Applicant	Estimated Delivery	Application Date	Request Id	Search	
						Currency	
						Description Quantity	
						Total	
						Unit Price	
						Observations	•
						Add	

Quick Search

It allows to model the form fields that are included in the quick search. The available fields are of the type:



- Alphanumeric.
- Numeric.
- Object-related such as value lists and forms.
- Instance owner.
- Audit fields (Creation User and Last Update User).

Fields can be added by pressing the icon 🕗. If this search is not modeled, it is not displayed in the form grid. Hovering over the icon 🕕 indicates that at least one field should be selected for the search to be visible.

	0 2					0 L 🛛	Ŧ
Provider 🗙 Reque	est Id × Applicant × Es	timated Total × Estimated D	elivery × Application Dat	te 🗙 Organizational Unit 🕽	• 🕀	Quick Search	
						Provider ×	
Provider	Applicant	Estimated Delivery	Application Date	Request Id	Organizational Unit	Applicant ×	
						Request Id ×	_
						Estimated Total ×	
						 Provider 	
						✓ Request Id	
						 Applicant 	
						 Estimated Total 	(Ŧ)
						Organizational Unit Address	Ĭ
						Address Instance Owner	
						Instance Owner	
_							

When selecting at least one field the icon 0 disappears and the icon is displayed 0 notifying the modeler that the quick search has been modeled.

3.7.5.1.3.5. Permissions

Allows to assign the <u>security functions</u> for use and modeling of the object to the existing permissions or to new permissions that the user creates, without having to go to the <u>permission</u> settings option from the menu.

Sections

- Permissions: Permissions to which object functions are assigned.
- Security Functions: Represents the total set of security functions, modeling and use of the object. Those that are marked are the ones included in the selected permission.

By default, all security functions for a new object are assigned to the permission Modeler.

Users who are assigned the permissions have access to the functions included in it.



= 🛃 🕂 🗎 🛱 🗸 🏘 V				Home	Tasks Ca	lendars C	ases Messages		٩.
Purchase Request		Form	Preview	Fields	Grid/Fi	Iters P	ermissions	Advanced	•
Permissions New+ Search permissions •	Functions								
① Modeler	- 🗹 Purchase	Request							
	🕂 🗹 Mode	ling Purchase	e Request						
	- 🗹 Use d	of Purchase R	equest						
	N	ew Purchase	Request						
	V	pdate Purcha	se Request						
	D	elete Purchas	e Request						
	D	ownload Purc	hase Request						
	Z s	earch Purcha	se Request						
	⊠ s	now Purchase	e Request						
	□ s	now private in	stance of Purch	ase Request					
			stance of Purch						
			nstance of Purc						
		ciete private i	instance of Pulc	nase Reques	rc -				÷

New+ Opens a panel to create a new permission and once created, the security functions included in it must be selected .

Search permissions... Allows to select a permission from a list and enables the input of characters to filter the values in the list.

Opens the wizard to select a permission and once chosen, the necessary object security functions must be checked.

To unrelate a permission from the object, hover the cursor over the permission and press the icon X. If there are functions selected for that permission, they must be unchecked in order to delete it.

Security Functions to Model the Form

- Visibility: Allows to display the object in the Deyel modeler.
- Open: Allows to show the object from the Deyel modeler.
- Copy: Enables the copy operation of the object.
- Save: Enables the operation of saving modifications made to the object.
- Publish: Enables the operation of publishing the object leaving its state as "Published".
- Delete all data: Enables the delete data operation.
- Delete publication: Enables the operation of deleting the object publication leaving its state as "Draft".
- Delete draft definition: Enables the operation of deleting the object.
- Lock/unlock: Enables the lock/unlock operation, only the user who locks it can modify it.
- Export: Enables the operation to export the object from the save submenu of the top toolbar.



Security Functions to Use the Form

- Create: Enables the operation of creating an instance of the object.
- Modify: Enables the operation of modifying an instance of the object.
- Delete: Enables the operation of deleting an instance of the object.
- Download: Enables the operation of downloading the instances of the object in Excel.
- Search: Allows to use the show grid of the form instances.
- Show: Enables the operation of showing an instance of the object.
- Show/Modify/Delete Private Instance: They enable user operations on a private instance, regardless of the <u>organizational unit</u> they belong to and the rest of the criteria that define the <u>privacy</u>.

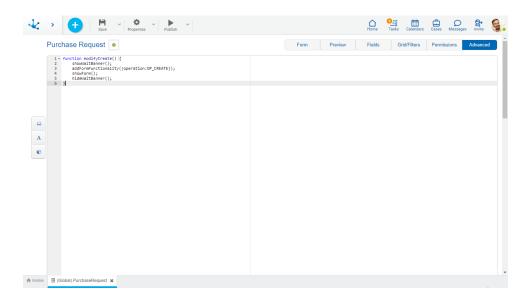
Private instance security functions are displayed if the properties are checked in the form Hierarchical Privacy and Privacy by Permissions.

3.7.5.1.3.6. Advanced Editing

Being **Deyel** a development platform, it allows to make changes to the default functionality of a form. This functionality is aimed at IT users with knowledge of web development.

The "Advanced" tab presents a JavaScript code editing window that allows to apply programming logic in the web interface when using the form.

There is a set of JavaScript functions implemented in the platform that contain the default logic and behavior of the forms. Since business needs may require modifying this logic, these functions can be rewritten by programmers and apply different behavior to particular forms.



Predefined JavaScript functions

Functions according to Operation



- modifyCreate(): It is executed when entering the creation of a new form instance.
- modifyUpdate(): It is executed when entering the update of a form instance.
- modifyShow(): It is executed when entering to show a form instance.
- modifyDelete(): It is executed when entering the deletion of a form instance.
- **modifyAfterValidate()**: It is executed after controlling the asynchronous validations, when confirming a registration or update operation. Allows to perform operations after executing validations.
- **modifyPrint(pNode)**: It is executed by pressing the "Print" button of forms. Allows to modify the default print display. The pNode parameter is the Jquery node of the entire html template of the form, any Javascript logic can be applied to modify such node, which is reflected only in printing.

JavaScript Functions Structure

The structure of functions can be copied in the advanced editing area and the code can be updated according to requests.

The predefined functions have the following structure:

```
function modifyCreate() {
    showWaitBanner ();
    addFormFunctionality({operation:OP_CREATE});
    showForm();
    hideWaitBanner();
}

function modifyUpdate() {
    showWaitBanner ();
    addFormFunctionality({operation:OP_UPDATE});
    showForm();
    hideWaitBanner();
}

function modifyDelete() {
    showWaitBanner ();
    addFormFunctionality({operation:OP_DELETE});
    showForm();
    hideWaitBanner ();
    hideWaitBanner();
    hideWaitBanner();
    showForm();
    hideWaitBanner();
    hideWaitBanner();
    showForm();
    hideWaitBanner();
    hideWaitBanner();
    hideWaitBanner();
    showForm();
    hideWaitBanner();
    hideWaitBann
```





The OPERATION variable takes the following values according to the operation being performed with the form, allowing different actions to be executed on the form instance.

- "CREATE";
- "UPDATE";
- "SHOW";
- "BROWSE";
- "DELETE";
- "SEARCH";

Built-in JavaScript Functions

- **showWaitBanner()** : Shows the wait message.
- **addFormFunctionality()**: Adds functionality to display elements such as containers, field controls, repeatable field buttons.
- hideWaitBanner(): Hides the wait message if it is visible.
- **showForm()**: Shows the form once the necessary logic has finished executing.

Other Useful Functions



GetCdActivity function

In some cases where the form is associated with a process, different actions are carried out depending on the activity in progress.

In order to add programmed logic, there is the getCdActivity() function, which returns the number of the activity in progress.

```
if(getCdActivity() == 5){
  // show container
  }{
  // hide container
  }
```

Container Functions

hideContainerById ({idContainer:'id'}): This function hides in the interface the container indicated in the'id' parameter.

showContainerById({idContainer:'id'}): This function shows in the interface the container indicated in the'id' parameter (if hidden).

Graphic Container Functions

closeContainer ({type: 0, idContainer:'id'}): Defines that a graphicl container is closed.

type: Indicates what type of container it is.

- 0 for Bootstrap-style containers.
- 1 for jQuery-style containers.

idContainer: Identifies the container to apply the functionality.

openContainer({type:0,idContainer:'id'}): Defines that a graphical container is displayed.

type: Indicates what type of container it is.

- 0 for Bootstrap-style containers.
- 1for jQuery-style containers.

idContainer: Identifies the container to apply the functionality.

Multiple Occurrences Container Functions



showIterativesHeaders(): Allows multi-occurrence containers to repeat their field labels in each row.

<pre>showIterativesHeaders() {</pre>		
return ["idContainer"]		
}		
Field 1	Field 2	08
Field 1	Field 2	

Supported Web Technology

In addition to native JavaScript, **Deyel** allows developers to use other web technologies on this tab.

- jQuery Version 2.1.4 official site https://jquery.com/
- Bootstrap 3.3 official site https://getbootstrap.com/docs/3.3/
- Font awesome official site <u>https://fontawesome.com/v4.7.0/</u>

These technologies are already included in the platform, any functionality of the same technologies that the programmer user wants to use does not require anything additional.

3.7.5.1.4. Side Toolbar

It is the toolbar that contains the icons corresponding to the different types of elements that can be defined in a form.

To use it, it is necessary to click on the corresponding section of the bar and select the type of element to add, dragging it to the desired place on the form.

Separators

They are light blue rectangular boxes that are displayed to the right and left, or above and below the elements defined in the modeling area, when dragging a field, graphic element or container with the mouse from the bar on the left. Indicate the positions within the modeling area where a field, graphic element or container chosen to be included in the form can be dropped.



H (8)

Purchase Request		Form Preview	Fields Grid/Filters	Permissions Advance
Purchase Request	Application Date	Applicant	Organizational Unit	
	*	* *?	* 🕫	
Phone Number	Delivery Address	Estimated Delivery	Online User	
	*	*	2 1 1	
Justification				
*				
Items				
Lines				
Description	Quantity Curren	cy Unit Price	Total	
*		rency V *	* 2 a.	• •
			Estimated Total	
1			R	

Bar Elements



Fields Modeling

Pressing this icon displays a subset of elements that allow modeling fields represented by controls within the form. Each field can have a data type associated with it, depending on the control that represents it.

Ĩ	Text Text	

- Alphanumeric (Default Type) The values are saved keeping the entered uppercase and lowercase letters.
- Uppercase Alphanumeric
 Values are saved in uppercase.
- Long alphanumeric

It works as a default alphanumeric, with the exception that it allows storing long texts (usually up to 4GB).

• Rich Text

It has the characteristics of the alphanumeric type. It presents an extended editor that allows you to format the text by applying different styles, colors, sizes, etc. See detail of <u>use of</u> <u>control</u>.



Integer

Number



Number

It can contain integer values between -2147483648 and 2147483647 (they are stored in 32 bits).

• Large Integer

It can contain integer values between -9223372036854775808 and 9223372036854775807 (they are stored in 64 bits).

Decimal

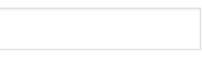
If the data type is decimal, the selection of the number of decimal places (2 to 5) is enabled.

Amount of Decimals

-	•
-	
2 positions	
3 positions	
4 positions	
5 positions	

Date

Date



Date

Allows you to view a date or enter it from a selector. See detail of use of control.

• Date and Time

Allows you to view a date and time or enter them from selectors. See detail of <u>use of con-</u> <u>trol</u>.

Local Date

Allows you to view a date or enter it from a selector, according to the time zone corresponding to the calendar of the user who uses it.

• Date and Local Time

Allows you to view a date and time or enter them from selectors, according to the time zone corresponding to the calendar of the user who uses them.

Θ

Time

Time

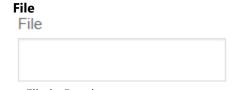
• Time

Allows you to view a time or enter it from a selector. See detail of use of control.

Local time

Allows you to view a time or enter it from a selector, according to the time zone corresponding to the calendar of the user who uses it.





File in Database Allows user files to be used as attachments to the form. See detail of <u>use of control</u>.
File in Folder

The files are stored in the file structure of **Deyel**. This option is available only in the On-Premise version.



P

Image

Image



• Image in Database

Allows using image type user files as an attachment to the form. Allowed extensions are jpg, png, tif, bmp, and gif.

- See detail of <u>control use</u>.
- Image in Folder

Images are stored in the file structure of **Deyel**. This option is available only in the On-Premise version.



Check Check

Toggle

Allows to model fields represented by a check control. The values are of the logical type "YES/NO".

It can be displayed in toggle format if the field <u>Display</u> property was modeled. See detail of <u>use of control</u>.

<u> </u>	_
	_

Value List

Value List

Example List	~
--------------	---

It allows modeling fields represented by a value list type control, whose possible values are predetermined based on a pre-existing list or are defined at the time the field is modeled, in the <u>"Relation" tab</u> of its properties. See detail of <u>control use</u>.

Modeling of Graphic Elements.





Pressing this icon displays a subset of graphic elements.

Ţ

It is used to include a text with a highlighted format. My Title



Label

Title

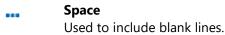
Used to include a free text and to be able to locate it in any section. Label



θ

Separator

Allows to divide sections of the form.



Multiple Occurrence Button

C 🛛

Allows you to add and remove iterative. It can be used within iterative containers.



Containers Modeling

Containers are graphic elements that allow grouping other elements under certain criteria.

For more details on its configuration and attributes, see <u>Container Properties</u>. Clicking on this icon displays a subset of container elements.



Row

It is the grouping used in the graphic modeling area. An unlimited amount of elements can be put within a row, although the window width is recommended not to be exceeded since the row expands by increasing the width with respect to the others.

Rows can be scrolled up or down by moving all their content.

To move a row, you must hold down the left mouse button with the cursor, focusing on the row you want to move and dragging it up or down another one.

Rows can only be ordered within the container they are in, either the general area or a created container.



To delete a row you must position the mouse over it, where the delete option is displayed on the right **a**.

As an error prevention mechanism, a confirmation notice is displayed and if it is accepted, the row and all its content, including fields, are deleted.

If the form already contains data, deleting rows that contain fields is not allowed.



Simple Container

A rectangle containing any element of the form (fields, graphic elements and even other containers) is displayed.

It can be used to group sections of the form, to which operations are added (hide, relate rules, etc.).

The outline is not visible at the time of execution.

To differentiate it from other containers, its outline is orange.

Simple Container

Graphic Container

The difference with a simple container is that everything inside the graphic container is displayed in run mode as inside an accordion.

It can be used to group sections of the form, to which operations are added (hide, relate rules, etc.).

This container transformed into an accordion can be seen in the preview.

To differentiate it from other containers, its outline is blue.

Graphic Container

Multiple Occurrence Container

It can contain any element of the form (fields, graphic elements and even other containers).

Its main functionality is that all content is defined as multiple, that is, when executing the form, copies can be generated and deleted from the icons to the right of the element. This container is created by holding down a couple of buttons, but they can be deleted if not required.



ſ'n

Unlike the other containers, all the fields contained within are defined as a set of multioccurrence fields. It cannot include other iterative containers either, nor simple containers if the <u>Field Group property</u> is checked.

It can be used to group sections of the form, to which operations are added (hide, relate rules, etc.). The outline is not visible at the time of execution.

To differentiate it from other containers, its outline is green.



3.7.5.2. Form Properties

The properties of the forms can be entered both at the time of their creation and when modifying an existing one.

Entering the form properties panel is done using the icon 🗱 which is in the top toolbar.

Purchase Request	Application Date	Applicant	General	Descriptive Name * Purchase Request Plural Descriptive Name	Name * PurchaseRequest Singular Descriptive Name
Phone Number	Delivery Address	Estimated Delivery	Advanced	Identifier * PURC1614087723	Class Name *
Justification *			Rules	Application MyApp - MyApp V	Icon fa fa-wpforms
Items Lines Description *	Quantity Current	cy Unit Price ency V *	Display	Purchase Request	
				Short Description Purchase Request	

Tabs

- General
- <u>Advanced</u>



- <u>Rules</u>
- <u>Display</u>

3.7.5.2.1. General

The properties panel is displayed on the right side of the form modeler, where the first tab corresponds to general information.

Purchase Request				lara	Purchase Request Descriptive Name *	Name *
Request Id4	Application Date	Applicant		General	Purchase Request Plural Descriptive Name	PurchaseRequest Singular Descriptive Name
	*	**?			Plurai Descriptive Name	Singular Descriptive Name
Phone Number	Delivery Address	Estimated Delive	ry	paor	Identifier *	Class Name *
_	*	*		Advanced	PURC1614087723	PurchaseRequest
A Justification					Application	Icon
*					МуАрр - МуАрр 🗸 🗸	fa fa-wpforms
Items				Rules	Description	
Items				Rules	Description Purchase Request	
	Quantity	Currency	Unit Price			
Lines	Quantity	Currency Currency	Unit Price	Display Rules		
Lines	Quantity					
Lines	Quantity					

An asterisk "*" on the label indicates that the property is required.

Properties

Descriptive Name

It is the name used by users to reference the form, for example in the modeler's grid.

Name

It is used at the modeling level to reference the form, for example in rules or as a parameter.

Plural Descriptive Name

The text entered in this property is used as the title in the <u>results grid</u> of the form, while if it is not completed, the <u>Descriptive Name</u> property is used.

Singular Descriptive Name

The text entered in this property is used in the <u>list of related entities</u>, while if it is not completed, the <u>Descriptive Name</u> property is used.

Identifier

Uniquely identifies the form.

Class Name

Name that represents the object in the SDK service and model classes. It can only be modified if the object is in draft state.



Application

Allows to define the application to which the object belongs. If no application is reported, the object is assigned to the application "Global".

lcon

Allows to assign a representative image of the form to the form.

The code to be entered corresponds to the Font Awesome standard. The identifier of the icon selected from the <u>https://fontawesome.com/v4/icons/</u> standard must be preceded by the characters "fa".

Description

Defines the form describing its functionality and optionally its content.

It can include text and values of variables from each form instance, which are modeled using the variables wizard. The use of variables included in iterative containers and the use of file, image and check type variables are excluded.

In the execution of the form, the description entered is displayed in:

- The last updates, on the element that represents the form in the grid of "Forms and Tasks".
- The panel of a <u>form instance</u>, below the descriptive name.

Short Description

Text oriented to be a shortened description of a form instance. It can be used to identify the form in the <u>related entities</u>, in a friendlier way than using its identifier.

It can include text and values of variables from each form instance, which are modeled using the variables wizard. The use of variables included in iterative containers and the use of file, image and check type variables are excluded.

In the execution of the form, the identification entered in this property is displayed when using <u>the</u> <u>referring entity field</u> in:

- The form instance.
- The form grid.
- The filter panel of the form grid.

Documentation

Informative text displayed when pressing the icon 🕐 using the form from the portal.

Image

An image that is displayed in the grids of forms and tasks, templates and in the upper bar when creating forms. It is recommended to be related to the functionality or information that the form represents.

- ① Reports on the usefulness of the image.
- Allows to choose an image from a file selection window.
- allows to delete the current image associated with the form.

Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🗙 is used to close the properties panel, if it was not previously saved, changes are discarded.



3.7.5.2.2. Advanced

The second tab of the side panel corresponds to advanced information of the form.

= 1	C + Properties Properties	Jieh	Form	Preview	Home Purchase Request	Stevenson (
	Purchase Request	Application Date	Applicant	General		Main
<u> </u>	Phone Number	Delivery Address	Estimated Delivery	Advanced	Add Process	•
A	Justification * Items			Rules	Carl Variables to the Process Printable Gend Emails	Cases
	Lines Description *	Quantity Currency Qurrency	Vnit Price	Display	Audit Creation User Creation Date Update User Update Date	
					Privacy V Hierarchical Privacy Privacy Privacy Privacy by Permissions	ling
					Identifier Modeling Form Extension	
A Home	(MYAPP) PurchaseRequest					

Properties

Related Processes

Every form can be associated with one or more processes. The user can select them from the set of available processes and define form relation properties. Once selected, the processes are displayed in a grid with their corresponding properties.

- Application
- Process
- Version
- Main

In complex processes with a large number of variables, these variables can be defined in different entities, all related to the process. If this property is checked, it means that the modeled form is the most representative for the related process. This means that in the gallery of forms and tasks, the main form is the one where the tasks are displayed, even if other forms are used in the different activities.

A process can be related to several forms, of which only one can be indicated as the main entity. If in the Related Processes grid, the process with this property selected is already defined as main in another form, then the user receives an error message when the form is published.

Add Process

Allows to select a process from the drop-down list of available processes, each of the chosen processes es is added to the grid of Related Processes.

Local Variables to the Process

Checking this property indicates that the form fields have a <u>local scope</u> to the related process, that is, these variables can only be accessed and modified during the execution of the corresponding case. The variables of completed cases can only be accessed by them.



Leaving this property unchecked indicates that the variables have a <u>global scope</u>, that is, they can be accessed and modified by the corresponding form operations, by each case of the processes using the form or by business rules.

Show Related Cases

If this property is checked, each time a form instance is created or shown in the user portal, an additional section of data is displayed, to associate the form with a case.

Printable

Allows to print the form when it has already been instantiated. Checking this property, when showing form instances, the "Print" button is enabled.

Send Emails

This property allows emails to be sent and the registration of their sending to be associated with form instances.

Enables:

- A <u>check column</u> in the results grid of a form to select instances, along with an icon to <u>send emails</u> <u>in bulk</u>, which is displayed once the instances have been selected.
- An option for sending emails in the context menu, when showing a form instance.
- An option to display the <u>emails sent</u> in the <u>relations area</u>, when showing or updating a form instance.

Audit

To indicate that <u>audit fields</u> will be modeled in a form, the audit properties represented by the checks listed below must be used, one for each field.

- Creation User
- Update User
- Creation Date
- Update Date

Privacy

Phase 2: Forms Modeling > Advanced Tips > Entity privacy

Hierarchical Privacy

Check that indicates if the entity is <u>private or not</u>. If this check is indicated, the Privacy by Permissions property is displayed.

Privacy by Permissions

Mark indicating the creation of security functions: "Show Private Instance", "Modify Private Instance" and "Delete Private Instance" to be assigned in the design option "<u>Permissions</u>" of the form. These security functions are available if the form is in "Published" state, since they are use functionalities. Instance Owner Modeling

Check indicating that the <u>Instance Owner field</u> can be modeled in the form modeling area. In case this check is not indicated, the data cannot be loaded by user interface, but by programming logic, for example through a business rule.

The instance owner can be modeled regardless of whether the form is private or not.

Identifier

Modeling

Indicates whether the <u>identifier</u> field is visible in the modeling area of the form. This property is displayed only for forms modeled with the default identifier. If the forms were modeled in previous versions using a key field, this property cannot be configured.



3.7.5.2.2.1. Audit Fields

The audit fields defined in a form are useful to keep track of its use. The information contained in such fields allows to know which user created or modified form data and the date and time of the operation.

Checking the <u>audit properties</u> causes the audit fields corresponding to the selected checks to be displayed in the design area.

Characteristics

- The "General" and "Advanced" tabs are displayed, but not the "Relation" tab of the <u>field properties</u> <u>panel</u>.
- They can only be eliminated by unchecking the audit properties in the form properties panel, that is, they cannot be eliminated like the fields defined by the user, nor the rows or the containers where they are defined.
- They cannot be defined neither a multi-occurrence container.
- They cannot be used neither within validation rules defined within <u>form properties</u> nor within <u>field</u> <u>properties</u>.
- They can be used in the definition of columns in the display grid and as search filters in the "<u>Grid</u> <u>and Filters</u>" tab in the modeling area of the form.

General Tab

Audit fields can have the same set of properties defined as a user field, defined in the "<u>General</u>" tab , although with some limitations, since the properties listed below are not used.

- Field identification
- Editability
- Required
- Validation



	Image: Constraint of the second se	v Publish v	Form Preview	Home Tasks Calendars Case) Para Santa Sa Yang terter Santa
I & # I O A	Last Update User Last Update Use	Fecha Ultima Modificación	Fecha Creacón R Applicant * the second control of the	Name *	Prefix*
€ A €	Items Lines Description *	Quantity Currency Currency	Unit Price	Required There are no such rules.	

Advanced Tab

Audit fields can have the same set of properties defined as a user field, defined in the "<u>Advanced</u>" tab , although with some limitations, since the properties listed below are not used.

- Multiline
- Default Value
- Data Type
- Length
- Key

Purchase Request						form P	review	C cdUserL	astopuate			1
Last Update User	Last Update User		Fecha Ultima Mo	dificación	Fecha Creación		General	Help Text		 		_
8	X		×		×		Gen					
Purchase Request							_	Placeholder				
Request Id%	,	pplication Dat	e		Applicant		2					
n 🛛		*			* *?		Adranced	Width				
Phone Number	c.	elivery Addre	s		Estimated Deliv	ery		Search				
		*			*			None		Included i	n Grid	
Justification								None				
Justification *												
Items												
Lines												
Description			Quantity	Currency		Unit Price						
*				Currency	~	*						
			·					_				

3.7.5.2.2.2. Instance Owner Field

If the property Instance Owner Modeling is checked in the tab "Advanced" of form properties, a new field labeled "Instance Owner" is included in the modeling area. It can be modeled like any form field, with a few differences.



General Tab

The instance owner field can have the same set of properties as a user field, in the tab " <u>General</u>". The only difference is that the <u>Identifier</u> property is not displayed.

Instance Owner Purchase Request Request Id% Phone Number Justification *	Application Date * Delivery Address *	Applicant * 양 Estimated Delivery *	Relation Advanced General	Label Instance Owner Name * InstanceOwned Description Rules 0	Pref
Ttems Lines Description	Quantity Curre	ncy Unit Price		* O P V at Required	

Advanced Tab

The instance owner field can have the same set of properties as a user field, defined in the tab "<u>Advanced</u>", although with some limitations, since the properties listed below are not used.

- Multiline
- Data Type
- Length
- Security

Instance Owner			General	Help Text
Purchase Request Request Id% Phone Number Justification *	Application Date * Delivery Address *	Appleant * t ^a Estimated Delivery *	Relation Advanced	Placeholder
Items Lines Description *	Quantly Curren	cy Unit Price rency V *		None Content Type None

Relation Tab



The instance owner field always has an implicit relation to the entity "User". Therefore, on this tab only the properties of the <u>related attribute</u> can be modeled, as they are defined in the "Relation" tab of the field properties.

Purchase Request Instance Owner			e e		
Purchase Request Request Id4 Phone Number Justification *	Application Date # Delivery Address #	Applicant ※ 1분 Estimated Delivery ※	Relation Advanced General	Related Attribute Relation Name - Relation Type Reference © Copy	Entity Attribute Content Type Value Obscription
Lines Description	Quantity Curren	cy Unit Price rency v k			

3.7.5.2.3. Rules

The third tab in the side panel corresponds to the validation rules associated with the form.

	Purchase Request			General	Rules 0
	Request Id 9	Application Date	Applicant	Ge	
		*	**		
	Phone Number	Delivery Address	Estimated Delivery	Advanced	Validation: Rule +
-		*	*	Adva	SI(sumatoria(lines.total)>100000, "The total amount 🏾 📋 🖋
A	Justification			_	exceeds the allowed value for this process")
Ð	*				Validations with Advanced Rules
	Items			Rules	
	Lines				
	Description *	Quantity Currency	Unit Price	Display	
		Current	-ÿ ¥ 不		

Rules

It is possible to define validation rules associated with the form.



Rule + Opens an edit area where you can define the condition that determines if the form is correct or not. It is possible to define more than one rule. If rules are defined, the icon is dis-



Página 351

played with light blue borders.



Operations

- Saves the new or modified rule
- X Cancels the operation
- Edits the existing rule
- iii Deletes the rule

3.7.5.2.4. Display

The last tab corresponds to information regarding the display of the form instances.

The result of indicating these properties can be seen in the design option "Preview".

Purchas	se Request			General	Border Top (px)	Right (px)	Bottom (px)	Left (px)
Request I	da	Application Date	Applicant	Ge	5	5	5	5
		*	**		Color			
Phone Nu	imber	Delivery Address	Estimated Delivery	8	•			
		*	*	Advanced				
Justificatio	on				Shadow		DI ()	
*						Y (px)	Blur (px)	Color
				Rules	1	1	10	•
Items				ŭ	General Prope	rties		
Lines				_	Position		Side Margin	Backgrou Color
Descrip	otion	Quantity Currency	Unit Price	la y	Default	~	10	
*		Currency	~ *	Display				
				-				

An asterisk "*" on the label indicates that the property is required.

Properties

Border

Defines the width and color of the form borders. Width is measured in pixels, with 0 being the minimum value and 10 being the maximum value. The default value for each property is 0, with no border.

Тор

Indicates the width of the top border.

Right

Indicates the width of the right border.



Bottom

Indicates the width of the bottom border.

Left

Indicates the width of the left border.

Color

Allows to select the border color from a palette or to enter the hexadecimal code equivalent to the desired color.

Shadow

Allows to define a shaded area framing the form. The properties X, Y and Blur are measured in pixels, with 0 being the minimum value and 10 being the maximum value.

Х

Indicates the displacement of the shadow on the vertical axis with respect to the frame of the form. $\ensuremath{\mathsf{Y}}$

Indicates the displacement of the shadow on the horizontal axis with respect to the frame of the form.

Blur

Defines how sharp the shadow is displayed.

Color

Allows to select the shadow color from a palette or to enter the hexadecimal code equivalent to the desired color.

General Properties

Defines the content position and the background color of the form.

Position

Allows to display the form with margins on the left and right if the "Centered" option is selected. Side Margin

Defines the screen percentage that is left as margin to the left and right of the form. Background Color

Allows to select the background color of the form from a palette or to enter the hexadecimal code equivalent to the desired color.

3.7.5.3. Element Properties

The icon solution the becomes visible when hovering the mouse over each element of the <u>Graphic Modeling</u>. <u>Area</u> of the form, that allows to enter the side panel of properties that defines each of the different types of elements.

Types

- Fields
- Graphic Elements
- Containers

Side Panel

In the side panel, the properties corresponding to each type of element can be displayed and modified. In the upper right part of it you can select icons to perform the following actions:

Actions



The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🗙 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.5.3.1. Field Properties

Phase 2: Form Modeling > Form elements modeling

Pressing the icon 🖉 on the field opens the vertical panel on the right, which contains the following tabs:

- <u>General</u>
- <u>Advanced</u>
- <u>Relation</u>

	C 🕂 🗎 Save V Properties 🔨	Publish Y	Form Preview			endars Cases	Messages 🚱
	Purchase Request Request Id% Phone Number Unstitution * Items Lines Description *	Application Date	Applicant # v? Estimated Delivery * Unit Price v	Relation Advanced General	Label Application Date Aname * applicationDate Description Rules * * * * * * * * * * * * * * * * * *	Identifier *	Profix * The
A Home	Suggested Provider Provider MrXAPP) PurchaseRequest x	Contact	Phone Number				

3.7.5.3.1.1.General

Phase 2: Forms Modeling > Behavior modeling

The properties panel is displayed on the right side of the form modeler, where the first tab corresponds to general information.



= ~	k 🕂 🗎 🖁	Properties Publish	~			_		asks Caler		Cases	P Messages	٩.
	Purchase Request				Form Previe	ew	applicationDat	e			~	* *
	Purchase Request Request 16% Fhone Number Justification Items Lines Description *	Application D * Delivery Add *		Currency	Applicant *** Estimated Delivery * Unit Price *	Relation Advanced General	Label Application Date Name * seplicationOate Description Rules •	× a*	Identifie applie	er *		•
A Home	Suggested Provider Provider I (MYAPP) PurchaseRequest ¥	Address	Contact		Phone Number							

An asterisk "*" on the label indicates that the property is required.

Properties

Label

Allows to enter the text that is displayed on the field. It works together with the prefix to reference the field in validation messages and supports blank spaces.

Prefix

This prefix is used to conform error messages during data entry. It is required. Allows to select the value: "The".

Name

Name assigned to reference a field in the modeling, allowing the field to be uniquely identified within the form. Used in rule wizards to refer to field within conditions. It generates automatically from the Label property, it can be modified by the user and does not allow spaces or special characters.

Identifier

It is the name that is assigned to refer to a field in the programming code, it is used to refer to the field within the Java code in the "Execution Code" tab of the advanced rules and in the JavaScript code in the "Advanced Editing" tab of the form modeler. Allows to uniquely identify the field within the modeled form. It can be modified by the user, as long as no data has been loaded into the form and it does not allow spaces or special characters.

Description

Text that defines the field and optionally its content.

Rules

To define rules on behavior, validation and calculation, associated with a field, by using the wizard (ctrl + space).

Shows syntax examples for writing the rules.



Required



Indicates whether the field is required when creating a new form instance or when modifying an existing one.

Required ON Not required (default)

Rule + Opens an edit area where a rule to determine the required condition can be defined. If a rule is defined, the icon is displayed with light blue borders.

Visible

Indicates whether the field is visible. If this property is not checked, the field is not displayed in the form instances.

💟 Visible (default) 🔍 Not visible

Rule + Opens an edit area where a rule to determine the visibility condition can be defined. If a rule is defined, the icon is displayed with light blue borders.



Editable

Indicates if the field is editable. If this property is not checked, the user cannot enter or modify values in the field.

💽 Editable (default) 🔍 Not editable

Rule + Opens an edit area where a rule to determine the editability condition can be defined. If a rule is defined, the icon is displayed with light blue borders.

Valid

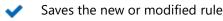
Rule + Opens an edit area where you can define the condition that determines if the field value is correct or not. It is possible to define more than one rule. If rules are defined, the icon is displayed with light blue borders.

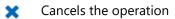


Calculation

Rule + Opens an edit area where you can define the expression to be executed to calculate the field value. If a rule is defined, the icon is displayed with light blue borders.

Operations when defining the rule:





Operations once the rule is defined:

Edits the existing rule

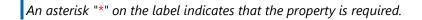


3.7.5.3.1.2. Advanced

The second tab in the side panel corresponds to the additional properties to define the behavior and functionality of a field.



Purchase Request			General	Help Text
Request Id%	Application Date	Applicant	Gei	Placeholder
Phone Number	本 Delivery Address 米	* ** Estimated Delivery *	Advance d	Width Label Position
Justification			-	3 • Above • Default Value
Items			Relation	fecha() Search
Lineas	Quantity Cur	rency Unit Price		Comparación-Conteni - Included in Grid
*		Currency ~		Data Type Date
				Security



Properties

Help Text

Its function is to guide the user on the content to load in the field. The text entered as help is displayed when the user hovers the cursor over the field.

Placeholder

Its function is to guide the user on the content to load in the field. Unlike the Help Text property, the text entered as a placeholder is displayed within the field.

Width

It is used to modify the field width in the row. Values between 1 and 12 can be selected, where 12 is the total row width.

Label Position

Defines where the label is placed in the <u>form instances</u>, in relation to the control that it identifies. By default it is at the top and can be changed to the right or left of the control. The result of indicating this property is displayed in the design option "<u>Preview</u>".

Multiline

This property determines if the field is displayed in text box mode when using the form, allowing the edition of the text in a larger area. This property is only visible if the field is text type.

Default Value

Allows to assign the value the field has by default at the time of the first data entry, to speed up the loading of values. The default values can be constant values or can be defined from the <u>functions</u> available for the field type. Each function returns a value when using the form and results of more than one function can be combined with text.

Search

Allows to use the field as filter when searching for instances of the form.



Included in Grid

Indicates if the field is displayed in the results grid where the form instances are shown.

Data Type

Determines the data format that can be entered in the field. The supported data set varies, depending on the type of field that has been created from the elements of the <u>left side toolbar</u>.

Length

Determines the maximum length of the value depending on the data type. This attribute is only visible if the field is of text or numeric type.

Key

This property is valid only for the <u>identifier field</u>. It allows to uniquely identify a form instance, that is, such value cannot be repeated between instances of the same form.

Autonumeric

This property is valid only for the <u>identifier field</u> and determines that the field value is automatically generated when creating the form instance.

Content Type

This property is valid only for text type fields. If the email value is selected in this property, the field content becomes the recipient at the time of:

- <u>Sending an email</u> when a form instance is shown.
- <u>Sending emails in bulk</u> from the results grid of the form.

The recipient or recipients entered in this type of field can be modified when they are sent from a specific query, but they cannot be modified when emails are sent in bulk.

Security

This property is used to define display and editing restrictions on the field that is being modeled. If this property is checked, the security functions of field view and editing are created and they are displayed in the use functions panel of the design option "<u>Permissions</u>" of the form, if they are checked, they are incorporated into the form's security functions assigned to the created or modified permission.

Display

This property is only visible if the field is of "Check" type. Allows to select whether the field is displayed in "Check" or "Toggle" format.".

3.7.5.3.1.3. Relation

The third tab in the side panel corresponds to relation properties and the related attribute.

Relation Properties

A relation allows to obtain values for the field being modeled from different sources, by selecting the Values obtained from property. If the field does not have a relation, the default option "No Relation" should be modeled.

- Rules
- Entities
- <u>Value List</u>



😁 Related Attribute

This attribute indicates that the field value is retrieved from the attribute value of another entity, related when creating or updating a form instance. One of the relations defined in the form must be selected and then indicate which attribute of the related entity it is linked to.

A related attribute can be modeled regardless of the option selected in the Values obtained from property. This allows a field to have all the functionality of being related, and also to load its value automatically.

Purchase Request			General	8 ·?	
Request Id%	Application Date	Applicant		Relationship Properties	
	*	* *		Values obtained from :	
Phone Number	Delivery Address	Estimated Delivery	Pac	Without Relation -	
	*	*	Advanced	Without Relation	
Justification				Without Relation	
*				Rule	
			Relation	Entity Value List	
Items			œ	Value List	
Lines					
Description	Quantity Cur	rency Unit Price			
*		Currency 🗸 🗶			

An asterisk "*" on the label indicates that the property is required.

Properties

Relation Name

The list of relations defined in the form is displayed, allowing the selection of one of them.

Entity Attribute

The list of attributes of the selected entity that have a format option compatible with the field type is displayed. Attributes can have a relation to an entity, a value list, or a rule modeled in the selected entity.

Relation Type

Reference

When this property is checked, the field value is always subject to the current value of the related attribute, that is, the updated value is automatically displayed.

Сору

When this property is checked, once the retrieved value is loaded, it is not automatically modified again even if the value of the related attribute is modified.

Content Type



The content of the field varies depending on the Value or Description property checked when:

- The entity attribute has a relation modeled.
- The "Entity" option of the field is selected in the Values obtained from (property).

Value

When this property is checked, if the relation is modeled with a:

- Related entity, the identifier of the entity is displayed.
- Value list, the value list code is displayed.
- Rule, the code returned by the rule's execution is displayed.

Description

When this property is checked, if the relation is modeled with a:

- Related entity, the short description of the entity is displayed.
- Value list, the value list description is displayed.
- Rule, the description returned by the rule's execution is displayed.

Entities

Through the form modeler, the business entities are modeled. It is also possible to model relations among entities to represent their interaction. The relations defined in this panel can be modeled in the <u>referenced entity</u> so that they are reflected when using the corresponding form.

≡ -	ע 🕂 🗎 💾 עי 🗳 אדער אדער אדער אדער אדער אדער אדער אדער	s Publish V			Home Tasks Cale	ndars Cases Messages	8t 🚷
	Purchase Request		Form Preview		onlineUser		~ ×
I A	Purchase Request Request 10% Phone Number Justification *	Application Date * Delivery Address *	Applcant * उ ⁹ Estimated Delivery *	Advanced General	Relationship Prop Values obtained from Entity Usuarios		ŵ
Ð	Items Lines Description	Quantity Currency Currency	Unit Price	Relation	Name • UsuarioOnline Permissions Show ®	Search Q.	+
A Home	Suggested Provider Provider (MYAPP) PurchaseRequest ×	Contact	Phone Number				

An asterisk "*" on the label indicates that the property is required.

To define a relation with an entity, the entity to establish a relation with must be selected first, and then complete a set of properties.

Properties

Name

Name of the relation between both entities, it is a modeling-oriented property. It does not allow spaces and must be unique per modeled form.

Permissions

The permissions of the relation define which functionalities are enabled in the relation control.



Show

By checking this property, the user is allowed to display the entity instance with which a relation is established in the form use.

Search

By checking this property, the user is allowed to access the <u>results grid</u> to find the entity instance to establish a relation with in the form use.

Autocomplete

If this property is checked, predictive text functionality is presented to users. Based on the characters that the user types, a subset of values is proposed, which coincide with all or part of the text entered. This facility is called <u>autocomplete</u>.

In order to use this property, the referenced entity must have the <u>Short Description</u> modeled. Such description must not contain date or time variables, nor can it have a variable related with another entity.

Filter

Allows to narrow the search results on the related entity.

The filter is applied both in the autocomplete of the field, as well as in the show through the magnifier that is displayed when you hover the mouse over the field.

To create a filter, click on the icon + and a panel opens to complete the following properties:

Filtered Attribute

Allows to select an attribute of the related entity.

Condition

Allows you to select a condition as part of the filter.

Type

The possible values to select are "Value" and "Field".

Value

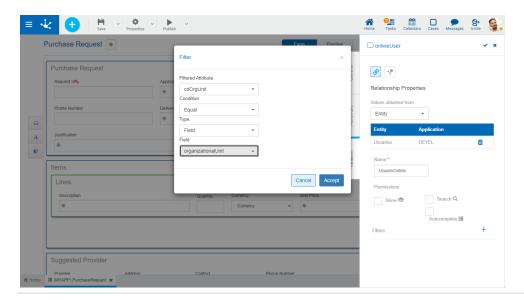
Allows to enter fixed values.

Field

Allows to select of a form field. It must be considered that its content depends on the <u>Type of Con-</u> <u>tent</u> property of the related attribute

Example of Filtered Entities

A relation with the user entity is modeled.





In this example the organizational unit field must have the Type of Content property defined as "Value". If during execution the description of this field needs to be displayed, the relation with the organizational unit entity must also be modeled.

<u>During execution</u>, by clicking on the "User" field search, all users whose organizational unit is the one reported in the "Organizational Unit" field of the form are displayed.

Value List

Allows to define a set of values grouped under some criteria so that the application user knows the possible values a field can take.

New lists can be created from the modeler, then edit and relate them to form fields.

Purchase Request				General	8	
Request Id%	Application Date		Applicant	e	Relationship Properties	
	*		**	_		
Phone Number	Delivery Address		Estimated Delivery	8	Values obtained from : Value List	
	*		*	Advanced		
Justification				<	Select a list or create I Currency	ist 💶
*				_	Currency	
						Autocomplete
				- Lo	It allows empty value	Autocompicie
Items				Relation	It allows empty value Open in mode	
				Relation		
Lines				Relation		ler
Lines	Qua		Unit Price	Relation	Open in mode	ler
Lines	Qua	ntity Currency Currency	Unit Price	Relation	Open in mode	ler
Lines	Qua			Relation	Open in mode Search Q	Her Add to the list
Lines	0.0			Relation	Open in mode Search Q Currency Enter new value	ilor I
Lines				Relation	Open in mode Search Q	Her Add to the list
Lines	000			Relator	Open in mode Search Q Currency Enter new value	Her Add to the list
Lines Description				Relator	Open in mode Search Q Enter new value H U.S. Dollar	Her Add to the list

An asterisk "*" on the label indicates that the property is required.

To create a new list of values, click on the icon 👥

A panel opens to enter the name of the list, the application to which it belongs is selected, if <u>alphabet-ical sorting</u> is indicated, <u>descending</u> order can be selected. Pressing the "Accept" button creates the list of values, subsequently allowing the entry of new values.

The list of values can be used in any other field of the same or another form.

Properties

Select a list

Allows to select a particular list from the set of already existing lists, being able to filter such set by entering text into the search field that is above the list.

Allows empty



If this property is checked, the empty value is included as the first option in the list. Otherwise the first value in the list is displayed in the field.

Autocomplete

If this property is checked, predictive text functionality is presented to users. Based on the characters that the user types, a subset of values is proposed, which coincide with all or part of the text entered. This facility is called <u>autocomplete</u>.

Other Elements

Open in modeler

Allows using the list of values modeler for the definition, instead of the field properties panel.

Allows to filter values from the list based on the characters entered. If a list is very long it helps users to easily visualize the desired values.

Enables an option that allows to add the internal code to the list values.

Operations on Values

- Allows adding each entered value to the list of values.
- It is displayed if the list has the <u>lcons property</u> modeled. It allows to associate icons to the list values.
- Double click: Allows to modify a value in the list.
- Move: Allows to change the position of a value within the list by dragging the value with the mouse.

Hovering the cursor over each of the values entered, a set of icons is displayed and this allows to perform different operations.

- III Allows to delete a value from the list of values. Once deleted, it is displayed in gray and crossed out.
- 1 Allows to restore a previously deleted value.

Display the Selected Line

- > Hides the icons that are displayed.
- **Shows hidden icons**.

Rules

Through this relation, it is possible to limit the set of values to be loaded in a field to those from the indicated source.

When relating fields to rules, the possible values are retrieved from a predetermined <u>business rule</u>. When establishing a relation with a rule, a list of rules is displayed to select which of them to establish the relation with the field.



Purchase Request		10	Values obtained from : Rule	
Request Id%	Application Date	Applicant	General	Rule -
	*	**	_	Code Version Description
Phone Number	Delivery Address	Estimated Delivery	pec	DEYEL_GetUsers 1 Retorna los usuarios del sistema
	*	*	Advanced	
Justification				Code* CD USER - Type : java.util.List
*				Description*
			Relation	DS USER - Type : java.util.List
Items			8	Filtered field
Lines				Currency(lineas/currency)
Description	Quantity C	Currency Unit Price		Filter Field
*	country	Currency V *		-
				Autocomplete
				It allows empty value Multiple
				Include Code
				Input Values
				Parameter field

An asterisk "*" on the label indicates that the property is required.

Properties

Code

Represents a business rule parameter, which allows the description to be uniquely identified. Each parameter value is related with its corresponding description.

Description

Represents a business rule output parameter. Each parameter value is related with its corresponding code.

Filtered Field

Modeling filtered fields allows to make the value lists of fields associated with rules variable when using form instances. In many cases, depending on a value loaded in a form field, the possible values of another field must be restricted.

This property is completed with the form field on which the filter is applied. See detail of property use.

Filter Field

Name of the business rule parameter whose content is used to filter the field values indicated in the Filtered Field property.

Autocomplete

If this property is checked, predictive text functionality is presented to users. Based on the characters that the user types, a subset of values is proposed, which coincide with all or part of the text entered. This facility is called <u>autocomplete</u>.

Search by Content

It is only enabled if the property is checked Autocomplete. Allows selection of the number of characters on which the autocomplete search begins. In this way, if the "1 character" value is selected, the autocomplete search will start after the first character is typed.

Allow empty



If this property is checked, in addition to the values that come from the rule, a value may not be selected for this field. An entry with no value is added to the rule results list. See detail of <u>property use</u>.

Multiple

If this property is checked, the user can select more than one value from the list, otherwise, a single element can be selected. See detail of <u>property use</u>.

Include Code

This property indicates how the list of possible values is displayed. The default view of the list shows only the value description. If this indicator is checked, the code for each element is also displayed.

3.7.5.3.2. Graphic Element Properties

This section explains the properties of the different <u>types of graphic elements</u> present in the form modeler.

Of all the elements of this type, it is only possible to edit "Title" and "Label" elements, since the rest do not have the icon available

Pressing the icon **2** on a graphic element opens the properties panel.

Purchase Request					General	Label Request Id			F	Prefix *
Request Id%	Application Date		Applicant		Ge					THU
	*		**		-	Name *		Identifier request		
Phone Number	Delivery Address		Estimated Delivery		8			request	JU .	
	*		*		Adranced	Description				
Justification										
*										
						Rules 📵				
Items										
Lines						* 💿 🖋 🗸	a=			
Description	0	antity Currency		Unit Price						
*		Currency	~	*		Required				Rule
Suggested Provider										
Suggested Provider	Address Cor	tact	Phone Number							

An asterisk "*" on the label indicates that the property is required.

Properties

Text Title or label text.

Width

Used to modify the width that the field uses in the row, being able to select values between 1 and 12, being 12 the total width of the row.



3.7.5.3.3. Container Properties

Properties are defined for different types of containers.

- <u>Single Container</u>
- Graphic Container
- <u>Multiple Occurrence Container</u>

= √	C 🕂 🗎 V 🔅 L k V	_	Home Tasks	Calendars	Cases	Messages	8+ Invite	۹.
	Suggested Provider		groupId1A					/ ×
	Provider Address Contact Phone Number	General	Descriptive Na Simple Conta					
	Simple Container		Name *		Widt			•
 	Graphic Container	Display	Rules 🚺					
Ð								
= © ⊠	Multiple Ocurrence Container		Visible	e			Rul	e +
	• •							
	Additional Data							
	Observations	_						
A Home	(MYAPP) PurchaseRequest ×							

Pressing the icon 🖉 on the field opens the vertical panel on the right, which contains the following tabs:

- <u>General</u>
- **Display**

3.7.5.3.3.1.General

The properties panel is displayed on the right side of the form modeler, where the first tab corresponds to general information.



	Le Constant Save Properties	Publish	Form Preview	Image: Arrow of the second
	Purchase Request Request Id% Phone Number Number Number Kation Kation	Application Date * Delivery Address *	***	Descriptive Name * Purchase Request Name * Vidth purchase Request 12
9 20	Items Lines Description *	Quantity Currency Currency	Unit Price	Visible Rule +
A Home	III (MYAPP) PurchaseRequest 🗙			

An asterisk "*" on the label indicates that the property is required.

Properties

Descriptive Name

Allows to identify the container with a name oriented to the end user. Spaces and special characters are allowed.

Name

Allows to identify the container with a name oriented to the modeler user. Spaces and special characters are not allowed.

Field Group property

Indicates whether the fields that are in this container are part of a group. If a group has this property checked, it cannot include an iterative container. It is only used for single type containers.

Width

Used to modify the container width, being able to select values between 1 and 12, being 12 the total width.

Expanded

Indicates whether the container is displayed expanded, showing its content, or closed when showing the form instance. It is used only for graphic containers.

Visible

This property indicates whether the container and its content are visible when showing the form instance. Allows the definition of <u>visibility rules</u> associated with the container as well as those defined for the fields.

3.7.5.3.3.2. Display

The second tab corresponds to information regarding the container display in the form instances.



The result of indicating these properties can be seen in the design option "Preview".

5
Blur (px) Co
0
6

An asterisk "*" on the label indicates that the property is required.

Properties

Border

Defines the width and color of the container borders. Width is measured in pixels, with 0 being the minimum value and 10 being the maximum value. The default value for each property is 0, with no border.

Тор

Indicates the width of the top border.

Right

Indicates the width of the right border.

Bottom

Indicates the width of the bottom border.

Left

Indicates the width of the left border.

Color

Allows to select the border color from a palette or to enter the hexadecimal code equivalent to the desired color.

Shadow

Allows to define a shaded area framing the container. The properties X, Y and Blur are measured in pixels, with 0 being the minimum value and 10 being the maximum value.

Х

Indicates the displacement of the shadow on the vertical axis with respect to the frame of the container.

Y

Indicates the displacement of the shadow on the horizontal axis with respect to the frame of the container.

Blur



Defines how sharp the shadow is displayed. Color

Allows to select the shadow color from a palette or to enter the hexadecimal code equivalent to the desired color.

General Properties

Defines the background color of the container.

Background Color

Allows to select the background color of the container from a palette or to enter the hexadecimal code equivalent to the desired color.

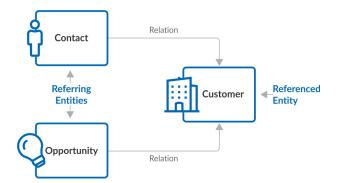
3.7.5.4. Modeling of Related Entities

Phase 2: Forms Modeling > Advanced Tips > Modeling related entities

Related entity modeling allows to define visibility and navigability among entities.

When defining relations among entities, the following concepts are used.

- Referring entity is the one that defines the relation with another modeled entity.
- Referenced entity is the one that has a relation defined from another modeled entity.
- **Relation** is the one that was defined in the referring entity.
- Referring relation is the one that was defined in the referenced entity to a referring entity.



For the purpose of detailing the modeling of related entities, an example is used where the Contact and Opportunity entities are related to the Client entity. Such entities can be modeled from agile forms created from the <u>templates</u> provided: Contacts, Sales Opportunities and Accounts, after separating the forms from their respective processes.

Relations in the Referenced Entity



Container

In the form modeler, referring relations are modeled in the first container of the referenced entity and are only displayed if there are <u>relations</u> defined in other forms. Within this container controls identified with the names of the relations defined in the referring entities can be included.

The icon + allows to add a list of controls to the form that represent the referring relations. By pressing this icon, a list of referring relations is displayed where you can select those you want to display at the top of the form.

Customer •		Form Preview	Fields Grid/Filt	ers Permissions Advance
			Opportunities	🕾 Contacts 🕇
Account				
Logo	Account Information		Account Detail	
Logo	Business Name *	Entrepreneur Group	Identification	Condition
	Owner *	Industry Origin	Opening Date	Annual Earnings
	Туре *=	Business Partner	Employees	Valorization
	Description			
	Owner Status Id Accoun	19,		
Emails	Sites and S	ocial Networks Phon	es]

The example shows the relation defined between Contact and Client and the relation between Opportunity and Client, as well as the operations and properties of both relations.

Operations

- 👖 Hides the display of the relation, does not delete it.
- Hodifies the presentation order of relations.



viodifies the presentation order of relations.



Properties

Entity Name of the entity where the relation was defined. Non-editable.

Application

Name of the application where the entity that contains the relation was defined. Non-editable.

Relation Name



Descriptive name of the relation as defined in the referring entity when modeling the field that contains the <u>relation</u>. Non-editable.

Key Field

Identifier of the referring entity attribute used to define the relation. Non-editable.

Singular Relation Name

Represents the name in singular that is assigned to the relation. It is displayed if, when <u>using the form</u>, it has a single instance for the modeled relation.

Plural Relation Name

Represents the plural name that is assigned to the relation. It is displayed if, when <u>using the form</u>, it has more than one instance for the modeled relation.

Relation Behavior

Allows to define behavior when <u>using the form</u>, to assign values from a form instance to related form instances, by means of relations defined among entities.

The icon 💼 allows to open the value match wizard in an additional section to the right of the relation properties panel.

Correspondence

Destination

The form field where the value is received is selected. Once selected, the Value Type is displayed. Value Type

- Constant: Indicates that the content of the field defined in the Destination property is a value entered by the IT modeler user.
- Field: Indicates that the content of the field defined in the Destination property is obtained from a form field that is being modeled.

Once the Value Type is selected, the Value is displayed.

Value

- If the value type is constant, it must be entered for matching.
- If the value type is a field, a list is displayed with all the form fields corresponding to the referring entity, for selection.

Account Logo Business Name Iggo Iggo Business Name Iggo Iggo	*		Properties Publish			Home Tasks Calendars	Cases Mess		
Emails Sites a		Logo	Business Name Business Name Ovner Business Name Description Ovner Status Description Ovner Status Description Ovner Status Description De	Opportunity Relation Name customerOpportunity Singular Relationship Name Opportunity	MyApp - MyApp V Key Field account Plural Relationship Name Opportunities	То	Cancel	_	× ×



The example shows the Contact relation properties and the definition of the value match between the Industry field of the Contact entity and the Industry field of the Client entity. When the Contact entity is instantiated from the Client entity, the Industry field is automatically populated with the Industry field value of the Client entity.

3.7.6. Rules Modeling

The rules modeler is a tool that allows IT users to model their own <u>advanced rules</u>, using different <u>adapters</u>.

Modeler 90 2				Search	Q 77 3
Name	Application	Туре	State	Update 🗸	Update User
Address Type	Global	Value List	•	18/11/2022 17:22	۹
Account	Global	🛞 Formulario Ágil	٠	18/11/2022 17:20	9
State of the Accounts	Global	 ✓ Value List 	•	18/11/2022 17:20	9
Social Network	Global	Value List	•	18/11/2022 17:20	9
Phone Types	Global	Value List	•	18/11/2022 17:20	9
Mail Types	Global	Value List	•	18/11/2022 17:20	9
Origins	Global	Value List	•	18/11/2022 17:20	9
Industries	Global	Value List	•	18/11/2022 17:20	9
Customer	МуАрр	🖽 Form	•	18/11/2022 17:19	9
Opportunity	MyApp	Form		18/11/2022 17:19	8

Its main characteristic lies in its simplicity to model rules using different modeling facilities.

The general characteristics of the rules modeling environment and the main elements that compose it are described in the following topics:

- Modeling Facilities
- <u>Rule Properties</u>

3.7.6.1. Business Rules

A business rule allows to perform a specific task, being able to receive information, perform certain processing and inform the results obtained.

In **Deyel** there are business rules used to define the behavior of processes and forms. Rules can be used in validations, specific business logic, process flow control, integration with other applications, and field display control in forms, among other functionalities.

Types



There are rules that can be modeled without programming and others are based on Java code.

- Embedded Rules
- Advanced Rules

3.7.6.1.1. Embedded Rules

These rules are used to define form field behavior, validations, and calculations, as well as form validations. Embedded rules allow to define logical conditions and arithmetic expressions, which are evaluated using forms and their related processes.

The definition is done using a <u>wizard</u> integrated into the corresponding modelers. This wizard can be found in the property definition panels of fields and containers, forms and flows if they were conditional.

Unlike the <u>advanced rules</u>, the embedded ones are not displayed into the grid of the <u>modeler</u> because they can only be used in the **Deyel** object where they are defined.

Types

Behaviour

A behavior rule is used to verify the fulfillment of a condition. A logical expression is evaluated and a "True" or "False" value is returned depending on whether the condition is met or not.

Embedded rules are modeled in form fields and containers, both in the form modeler and in the process modeler when modeling the activities and in the flows if they have conditions.

They are classified according to the purpose of their use.

• Visibility

The modeled condition defines whether a form field or section is visible to the user at the time of use.

• Editability

The modeled condition defines whether a form field is editable for the user at the time of use.

• Required

The modeled condition defines whether a field is required at the time of using the form.

The execution of these rules returns a logical value, "True" or "False".

Validation

A validation rule is used to ensure the proper information entry or to control incorrect situations. It can be set at field or form level.



This rule evaluates a condition and returns a message when it is met, indicating the wrong or invalid situation to the user. If no message returns, it means that the validation was successful.

Conditions involving one or multiple fields and the relations among them can be defined.

Calculation

They define arithmetic expressions that allow to perform calculations to fill in field values when using the form. The rule is defined with a calculation algorithm for the target field that is populated with the resulting value. This value must be of the same type as the field that contains it.

Conditions can also be defined to determine when to execute the calculation rule.

Use

Embedded rules are modeled within the definition panels of **Deyel** objects properties.

- Rules in Field Properties
- Rules in Form Properties
- Rules in Container Properties
- <u>Rules in Activity Properties</u>
- Rules in Field Properties of Agile Forms
- Rules in Properties of Agile Forms
- Rules in Container Properties of Agile Forms

The table below summarizes where the different types of embedded rules can be modeled.

Rule Type	Field	Form	Container	Flow	Activity
Behaviour	×		×	×	~
Validation	~	~			~
Calculation	~				~

Only visibility behavior rules can be modeled in a container.

3.7.6.1.1.1. Rule Elements

Embedded rules can be made up of different types of elements:

• Form fields

Form fields are used by their <u>names</u>. In the wizard they are identified with • on the left.

• Group containers



Form containers are used by their <u>names</u>. Whenever a group container is used, indicate the field separated by a ".". In the wizard they are identified with
• on the left. Example: PersonalData.CompanyName

• Iterative containers

Their name is displayed instead of their label. Whenever an iterative container is used, indicate the field separated by a ".". In the wizard they are identified with • on the left. Example: Items.Quantity

- Functions. In the wizard they are identified with on the left.
- <u>Advanced rules</u>. In the wizard they are identified with on the left.
- Form field relation. In the wizard they are identified with on the left.
- Possible values of related fields. In the wizard they are identified with
 on the left.
 When modeling a related field, either to a value list, rule, or entity, the wizard displays the field, and
 the possible values of its relation.

In all cases, the type of data they represent and, in the case of functions or rules, the value they return is indicated on the right.

In addition to the elements proposed by the <u>wizard</u>, the user can include, in the rules, texts enclosed in double quotes and integers or decimals, the latter with separator "."

In the event of a syntax error, a message is displayed at the top of the properties panel, indicating the problem.

	Purchase Request			General	quantity Label		✓ × Prefix *
	Request IdRe	Application Date	Applicant	Ger	Quantity		The 💌
		*	***		Name *	Identifier *	
	Phone Number	Delivery Address	Estimated Delivery	P	quantity	quantity	
		*	*	Advanced	Description		
	Justification			<			
	*						
۲				Relation	Rules 📵		
	Items			ß	Rules		
	Lines				* 🛛 🖋 🗸 🖥	-× h=	
	Description	Quantity Currency	Unit Price				
	*	Curre	ncy 🗸 🗶		Obligatory if:		
					lineas.description		×

Available Operators

Operator	Description	Example
==	Compares if two operands are	5 == getDay()



Operator	Description	Example
	equal	
+	Adds two operands	5 + field3
-	Substracts two operands	price - discount
*	Multiplies two operands	price * 1.21
/	Divides the first operand by the second one	10 / 2
!=	Compares if two operands are equal	last name != "Paz"
<	Compares if the first operand is less than the second one	1 < 3
>	Compares if the first operand is greater than the second one	4 > 1
<=	Compares if the first operand is less or equal than the sec- ond one	1 <= 3
>=	Compares if the first operand is greater than or equal to the second one	3 >= 3
%	Calculates the division re- mainder of the first operand by the second one (mod)	5 % 3, the result is 2

3.7.6.1.1.2. Editing Wizard

A wizard to model the rules can be used in the rule editing area. This wizard is activated by pressing the "Ctrl + Space" keys. As text is entered in the wizard, it uses the auto-complete functionality and shows only the <u>elements</u> whose names begin with the text typed by the user.



	Purchase Request			General	Label		Prefix *	
	Request Id%	Application Date	Applicant	Gen	Total		The 🔻	
		*	**		Name *	Identifier *		
	Phone Number	Delivery Address	Estimated Delivery		lineas/total	total		
		*	*	Advanced	Description			
-				- ×				
A	Justification							
۲	*			tion				18
	Items			Relation	Rules 🚺			
	Lines				* @ # ~	-×		
	Lines				* 💿 🖋 🗸	-× a=		
	Description	Quantity Curren			Obligatory if:	a=		
			cy Unit Price			-X 8=	×	
	Description				Obligatory if: su • sumarDias(F-	echa, Dias): java.sq		
	Description				Obligatory if: sumarDias(F- sumarDias(Ca	echa, Días): java.sq Impo a sumar): java	lang.double	
	Description				Obligatory if: sumarDias(F- sumarDias(Ca	echa, Dias): java.sq	lang.double	
	Description				Obligatory if: sumarDias(F- sumarDias(Ca	echa, Días): java.sq Impo a sumar): java	lang.double	

3.7.6.1.1.3. Functions

A function is a software unit. It performs a specific task, receives input parameters, and returns a result.

They can be used:

From the function selection wizard in:

- Form fields, when defining the Default Value property.
- The processes, by defining the Case description property and in alerts and automatic activity parameters.
- The process flows, when defining the Message property.

When defining conditions in:

- Rules in form properties.
- <u>Field Properties</u> to verify conditions of edition, mandatory nature, visibility, validation and calculation rules.
- Gateway properties when output flow conditions are evaluated.

Function Selection Wizard

The wizard is used from the icon $\hbar \infty$. When pressed, a window with the list of functions opens and once the function has been selected, it is included in the description area of the form or case.



Purchase Reque	Selection of Functions Wizard		Form Preview	Conflication Data	
Purchase Requ	est				-
Request id%	Show 10 v entries		Search		
	Descriptive Name	Category	Example		
Phone Number	Add Days	Date and Time	AddDays(iniDate,days)		
	Current Date	Date and Time	Date()		
Justification	Local Date	Date and Time	LocalDate()		
*	Showing 1 to 3 of 3 entries			Previous 1 Next	f₀
Items				Select Cancel	
Lines				ouncer ouncer	. Included in Grid
Description		Quantity Currency	Unit Price	Data Type	
*		Currency	* *	Date	•
				Security	
				_	

Elements

- Selection of number of records to display in the window.
- Search field to be able to filter functions, filtering can be performed by the properties Descriptive Name, Category or Example
- List of functions where properties are displayed in a grid mode.
- Buttons for paging.

Properties

Descriptive Name

It is used in the interface when it is referenced, in the functions list.

Category

Grouping by function type.

Example

Corresponds to how the function can be used in the calculation or condition areas.

Categories

Functions are grouped into categories.

- Execution
- <u>System</u>
- Date and time
- <u>Math</u>
- <u>Validations</u>
- Miscellaneous
- Exclusives for Rules

Execution



These functions retrieve information related to the form instance that is being used, to the process if it had one associated and from the connected user.

Descriptive Name	Description	Example
Current User Last Name	Returns the last name of the user that started the session.	currentUserLast- Name()
Current Activity Code	Returns the code of the activity in progress. It does not work in the first process activity because the case has not been created.	currentActivityCo- de()
Current Process Code	Returns the code of the process in progress. It does not work in the first process activity because the case has not been created.	processCode()
Current Activity Description	Returns the description of the activity in progress. It does not work in the first process activity because the case has not been created.	currentActivityDes- cription()
Current Process Description	Returns the description of the process in progress. It does not work in the first process activity because the case has not been created.	processDescription()
Email of the Exe- cuting Partici- pant's Organiza- tional Unit	Returns the organizational unit email of the participant responsible for executing the activity in progress, if it is a role, it returns empty. It does not work in the first process activity.	userOrgUnitEmail()
Email of the User Administrator of the Executing Participant's Or- ganizational Unit	Returns the administration user email of the organiza- tional unit of the participant responsible for executing the current activity. It does not work in the first process activity.	orgUnitAdmi- nEmail()
Email of the Role Coordinator Re- sponsible for the Current Activity	Returns the email of the role coordinator user modeled as responsible for the activity in progress, only if the per- son responsible is a role, otherwise it returns empty. It does not work in the first process activity.	currentRoleCoordi- natorEmail()
Executing Parti- cipant Email	Returns the email of the participant responsible for exe- cuting the current activity It does not work in the first process activity. If the responsible participant is a role or an organization- al unit, it returns the emails of all users belonging to the role or organizational unit.	currentUserEmail()



Descriptive Name	Description	Example
Current Activity Name	Returns the name of the activity in progress. It does not work in the first process activity because the case has not been created.	currentActivity- Name()
Name of the Current User's Organizational Unit	Returns the organizational unit name of the user who started the session.	currentUserOrgUni- tName()
Current Process Name	Returns the name of the process in progress. It does not work in the first process activity.	processName()
Current User Name	Returns the name of the user that started the session.	currentUserName()
Case ID	Returns the case id without applying the case display mask. It does not work in the first process activity be- cause the case has not been created.	caseNumber()
Executing Parti- cipant's Organi- zational Unit	Returns the organizational unit code of the participant responsible for executing the current activity. If the par- ticipant responsible is a role, it returns empty. It does not work in the first process activity.	currentOrgUnitCo- de()
Code of the Cur- rent User's Or- ganizational Unit	Returns the organizational unit code of the user that started the session.	currentUserOr- gUnit()
Executing Parti- cipant	Returns the participant responsible for executing the current activity It does not work in the first process activi- ty. It can return a user, a role or a unit: - Returns a user when the participant responsible for the activity is a user, or when it is a role and the user is as- signed the activity. - Returns a role only when the participant responsible is a role and the activity is generic, until one of the users is assigned the activity. - Returns an organizational unit when the participant responsible for the activity is a unit.	executingUser()
Executing User of the Current Pro- cess Activity	Returns the user that executed the activity informed by parameter. It requires the code of an activity already exe- cuted. It does not work in the first process activity.	activityExecutingU- ser(activityNo)



Descriptive Name	Description	Example
Current User	Returns the user that started the session.	currentUser()
Current Process Version	Returns the version of the process in progress. It does not work in the first process activity.	processVersion()
Last Button Pres- sed	Returns the last button pressed.	lastButtonPressed()

System

These functions retrieve information related to the environment where the form and the modeled application are being used, if there is one associated.

Descriptive Name	Description	Example
Web Server Ad- dress	Returns the web server address.	webServerAddress()
Workflow Engine Email	Returns the workflow engine email address.	workflowEmail()
Workflow Engine Name	Returns the workflow engine name.	workflowEngineNa- me()

Date and Time

Retrieve information related to dates and times and carry out operations with them.

Descriptive Name	Description	Example
Current Year	Returns the current year.	year()
Difference Bet- ween Work Days	Returns the difference in business days between 2 past dates as parameters.	difBetweenWorkDa- ys(dateFrom,dateTo)
Difference in Time	Returns the time difference between 2 times entered as parameters. The format must be HH:MM:SS.	difInTi- me(timeFrom,timeTo



Descriptive Name	Description	Example
)
Difference in Minutes between Times	Returns the difference in minutes between 2 times en- tered as parameters. The format is HH:MM:SS.	difInMinu- tes(timeFrom,timeTo)
Difference bet- ween Days	Returns the difference in days between 2 dates entered as parameters. The format is DD/MM/YYYY.	diffBet- weenDays(dateFrom, dateTo)
Current Day	Returns the current day.	day()
In between Dates	Validates that a date falls within a valid date range. The format is DD/MM/YYYY.	inBetweenDa- tes(Datep,StartDatep ,pEndDate)
Current Date	Returns the server current date.	Date()
Local Date	Returns the local date according to the user's time and time zone.	localDate()
Current Time	Returns the server current time.	time()
Local time	Returns the local time according to the user's time zone.	localTime()
Current Month	Returns the current month.	month()
Month Name	Returns the name of the month according to the num- ber entered.	mont- hName(monthnumb er)
Add days	Returns the date obtained as a result of adding days to a date.	ad- dDays(StartDatep,Da ysp)
Add work days	Returns the date obtained as a result of adding days to a date. Adds only work days.	addWorkDa- ys(pDate,pDays)
Last work day of the month	Returns the last work day of the month of the date en- tered as a parameter.	lastWorkDay(pDate)
Subtract days	Returns the date obtained as a result of subtracting days to a date.	subtractDays(pDate, pDays)



Math

These functions perform mathematical operations based on the form fields.

Descriptive Name	Description	Example
Sum	Returns the result of the sum of all the field values in a multiple-occurrence container, taken as a parameter. The field data type must be integer or decimal.	sum(field)

Validations

The functions in this category allow to confirm a question about the information used in the form.

Descriptive Name	Description	Example
Is it an Email?	Verifies that the text entered as a parameter has an email format.	isEmail(text)
Only Letters?	Verifies that the value entered as a parameter consists only of letters.	onlyLetters(Text)
Only Numbers?	Verifies that the value entered as a parameter is a valid number.	onlyNumbers(Text)

Miscellaneous

This category groups functions that return information on different topics.

Descriptive Name	Description	Example
Organizational Unit Email	Returns the email address of an organizational unit whose code is entered as a parameter.	orgUni- tEmail(orgUnitId)
Organizational Unit Users Emails	Returns the email address of an organizational unit users whose code is entered as a parameter.	orgUnitUserE- mail(orgUnitId)
Organizational Unit Administrator Email	Returns the email address of an organizational unit administrator whose code is entered as a parameter.	orgUnitAdmi- nEmail(orgUnitId)



Descriptive Name	Description	Example
Role Coordinator Email	Returns the email address of a role coordinator whose code is entered as a parameter.	roleCoordinatorE- mail(roleid)
Email of the Activi- ty Responsible Participant	Returns the email address of the participant responsi- ble for executing an activity whose code is entered as a parameter. If the participant is a role or an organiza- tional unit, it returns the emails of all its members.	activityResponsi- bleEmail(activityNo)
User Email	Returns the email address of a user whose code is entered as a parameter.	userEmail(userid)
Role Users Emails	Returns the email addresses of an organizational unit users whose code is entered as a parameter.	roleUserEmail(roleid)
Case Show Link	Returns the link to the case show in progress. Requires the user to be logged in.	caseShowLink()
Activity Execution Link	Returns the link to the execution of the activity in pro- gress, requires the user to be connected.	activityExecLink()
My Tasks Link	Returns the link to the user's task list.	myTasksLink()
Login Link	Returns the link to the user portal home panel.	loginLink()

Exclusives for Rules

Functions in this category are used in embedded rules modeling by means of their wizard.

Descriptive Name	Description	Example
IF(logical_test,value _if_true,value_if_fals e)	Checks if the condition indicated in "logic_test" is met. If it is true, it returns the value informed in "value_if_true", if not, it returns the value informed in "value_if_false". The "value_if_false" parameter is optional, if the condition is not met and such parameter is not defined, the function does not return a value.	IF(amount > 1000000, "Amount exceeds lim- it") If the amount is greater than 1,000,000, the user receives the "Amount exceeds limit" message.
AND(logical_value1 , logical_value2,)	Evaluates that all parameters return "True", in which case it returns "True" value.	AND(day() > 5, month() == "April") Returns "True" only when the day of the month is greater than 5



Descriptive Name	Description	Example
		and the month is April.
OR(logical_value1, logical_value2,)	Evaluates all parameters and returns "False" value if all parameters return "False". If at least one of them returns "True", it returns "True" value.	OR(contact == "AFARI- AS", currentUser() == "AFARIAS") Returns "False" only when the current user and contact are differ- ent from AFARIAS.
NO(logical_value)	IF"logical_value" is "True", it returns "False" value. IF"logical_value" is "False", it returns "True" value.	NO(5 > 1) Returns "False", since it is the logical value con- trary to evaluation 5>1.
ADD(number1, number2,)	Adds all parameters.	ADD(AmountInvoiced, TaxAmount) Returns the value re- sulting from adding both amounts.
CON- CAT(text1,text2,)	Joins multiple text elements into one.	CONCAT("Hello,", cur- rentUser()) Returns "Hello AFARI- AS", where AFARIAS is the current user.
MAX(number1, number2,)	Returns the maximum value from a list of parame- ters. Ignores logical values and text.	MAX(2, 5, customer- Number, 22) Returns 22.
ISBLANK(value)	Checks the value of the reported parameter and returns "True" if it has no content. If the parameter is an iterative field, all its occurrences must be emp- ty for it to return true.	ISBLANK(description) Returns "False", when description has content.
isURL(text)	 Indicates whether the text entered corresponds to a valid URL format. Valid Examples: www.sitename.com; sitename.com; https://sitename.com 192.1.1.111; 192.1.1.111:8090; 192.1.1.111:8090/myfunction 	IF(NO(isUrl(field)), "Must inform URL") If field is equal to "Deyel.com", the user does not receive any messages.
REPLACE(text to search; text to re- place; original text)	Replaces in "original text", the "text to search" matches with "text to replace".	REPLACE("Supplier XX", "New Supplier", contractText) As a result, the original



Descriptive Name	Description	Example
		content of the con- tractText field remains with all occurrences of Supplier XX replaced with New Supplier.
REGEXMATCH(text, regular_expression)	Returns "True" value if the first parameter meets the regular expression indicated in the second parameter. Regular expressions, also known as regex, are widely used, standardized writing patterns used mainly to process texts. They allow, for example, to validate formats, extract a part of text or replace occurrences of a character string. There are many free access sites that provide information on use and syntax and offer the possibility to perform simulations as tests. If the '\' character is used in the expression, it should be duplicated. If it is not duplicated, the expression is not evaluated as expected.	RE- GEXMATCH(myField,"^ [0-9]*\$") Returns "True" if my- Field is made up of numeric characters between 0 and 9. RE- GEXMATCH(myField,"^ [AZ]{3}\\d{6}") The bar in the expres- sion is duplicated.
equalInAlIVa- lues(iterative_field, value)	Returns "True" value if all occurrences of "itera- tive_field" match with "value".	equal- InAl- IValues(customerNo, 136) Returns "True" if all occurrences of the Cus- tomerNo iterative field has a 136 value.
equalInSomeVa- lue(iterative_field, value)	Returns "True" value if any of the occurrences of "iterative_field" matches with "value".	equalInSomeVal- ue(customerNo, 136) Returns "True" if one or more occurrences of CustomerNo iterative field has a 136 value.
FIRSTVALUE(list)	Returns the first value in a list.	FIRST- VALUE(Items.quantity) Returns 5, the first val- ue of the iterative quantity [5, 3, 2,].
QUANTITY(list)	Returns the length of a list.	QUANTITY(Items.price) Returns 3, the iterative price being [100,50,30].



Descriptive Name	Description	Example
EXTRACT(text, posi- tion, amount_characters)	Returns a subset of text characters, given an initial position and length.	EXTRACT("The user was successfully deleted", 13, 12 Returns the characters "was deleted".
NUM- BER(alphanumeric_ value)	Transforms an alphanumeric into a number.	NUMBER("1988") Returns number 1988.
ROUND(numeric_v alue, decimals)	Rounds a number to a specified number of decimal places. If the digit after the specified position is greater than or equal to 5, the digit is rounded up. Otherwise, it is rounded down. This happens re- gardless of the sign. It is recommended to use this function when using 4- and 5-place decimals.	ROUND(49.9999, 0) Returns number 50.
extension(file)	Returns the extension of a file type field.	extension(contract) If the contract field is equal to "con- tract_2022.pdf", it re- turns "pdf".
length(text)	Returns the number of characters entered in an alphanumeric field or the number of digits in a numeric field.	length(password) If the password field is equal to "deyel123", it returns number 8.
REMOVESPA- CES(text)	1 5 5	
ESCAPEHTML(text)	Removes formatting from the content of a rich type <u>text field</u> .	escapeHTML(notes) Returns content of "notes" field without formatting.
mathPower(base, exponent)	Returns the base raised to the indicated exponent.	mathPower(2, 3) Returns number 8.

Functions are allowed to be nested in parameters.

3.7.6.1.2. Advanced Rules



Advanced rules can be invoked from processes, forms and scheduled tasks, to incorporate business logic.

In forms and processes they can be included using the <u>rules wizard</u>, whereas in <u>scheduled tasks</u> the reference to the rule is done manually.

Types

Standard Rules

These are rules developed in the Java programming language that use the SDK adapter to develop logic without accessing components external to **Deyel**.

Standard rules developed in earlier versions of **Deyel** can continue to use the "Standard Rule" adapter'', which is no longer available.

Integration Rules

These are rules that make use of <u>adapters</u> that provide integration with components external to **Deyel**.

3.7.6.1.2.1. Modeling Facilities

Phase 6: Advanced Rules Modeling

The advanced rules modeler is a tool that allows to easily design business rules, allowing the addition of the necessary logic to make them work when they are executed.

New Rule

The modeler user can define new rules, which after being published are available to be used in the portal.

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Descriptive Name* my Rule my Rule Rule Adapter* (standard Rule) Deyel Business RI • Description Example rule Cancol									
my Rule myRule Rule Adapter * (standard Rule) Deyel Business Rt • Description Cancol		Identification							
Rule Adapter * (Standard Rule) Deyel Business RI Description Cancel Cancel		Descriptive Name *	Name *						
(Standard Rule) Deyel Business RI • Description Central		my Rule	myRule						
Description Cancel Canc		Rule Adapter *							
Cancel		(Standard Rule) DeyelRules - Deyel Business Rt -							
Center Rule		Description							
Home 📓 New rule 2 🗴		Example rule	h					Create Rule	J
Home E New rule 2 x									
Home E New rule 2 x									
Home E New rule 2 x									
Home E New rule 2 x									
Home E New rule 2 x									
P Home E New rule 2 x									
	Home New rule 2 🗙								



Steps to Create a Rule

Step 1: Open the Rules Wizard

A new rule can be created from the icon $\stackrel{\bullet}{\frown}$ corresponding to the <u>context menu</u>.

- From the icon 🕒
- From the menu displayed with the "Rule" option

An existing rule is modified by selecting it from the grid with the "Open" button.

Step 2: Enter the Rule Properties

Properties are organized under the container Identification, which contains information common to all the rules.

Descriptive name

Name used by the modeler to refer to the rule, display it in the rules gallery and in the object tree.

Name

Used internally to refer to the rule within forms, embedded rules, processes or as parameters of other advanced rules. Unlike other objects, the rule name also acts as a unique identifier.

Adapter

Used to determine the adapter to be used by the rule. A list of adapters available for selection is displayed.

Operation

Used to choose the operation to be executed and is only displayed when the chosen adapter type is web services.

Description

Text that defines the rule describing its functionality and optionally its content.

Step 3: Close the Rules Wizard

Cancel

 $\langle \cdot \rangle$

Allows to return to the Deyel modeler to display the objects in the gallery.

Create Rule Moves to the rule workspace.

Workspace Sections

- <u>Top Toolbar</u>
- Rule Information
 - Name
 - 🔍 <u>State</u>



- 🙆 Locking

- Design Options
- <u>Console</u>

I

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myRule	JAVA Code Permissions Execution
1 - protected void run() throws jave.lang.Exception(
Console ***	v
✿ Home	

Top Toolbar

This toolbar contains icons and submenus from which you can perform operations on a rule. Depending on the <u>state</u> of the rule, some options may be disabled.

The bar is displayed on **Deyel's**.

E 🔆 🕂 💾 V Constituted Of Up Properties Publish V	Home	0 Tasks	Calendars	Cases	Messages	.
myRule •	Java (Code	Permissions	Exec	ution	Â
<pre>1:= brotected void run() throws dava.lang.txception(2)</pre>						
A Home ■ Edition of myRule v1 ×						



This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". If certain conditions are met, the modeler user receives a message indicating that the operation was performed correctly, otherwise they receive an explanatory message.

Main Conditions

- The object must not be locked by another user,
- There must be an adapter that uses the rule.

To the right of the icon, the option to open the submenu.



Allows to download the Java rule and the model and service classes of the objects related to the object wizard. A compressed file (.zip) containing the classes to edit later in an IDE for Java is generated. This icon is displayed for rules with all types of adapters with the exception of SOAP rules



Allows to upload a source file to update the Java rule. Such operation updates the window displaying the imported source code in the Java code editing area, but it is not saved until the user saves or publishes the rule. The code must be compilable, otherwise the load operation throws a compilation error. This icon is displayed for rules with all types of adapters with the exception of SOAP rules



Opens the rules properties.



By means of this icon the object goes to "Published" state, after verifying a set of additional conditions to those of the "Save" operation. The modeling user receives the corresponding message, indicating the result of the operation.

In the event of an exception due to a failed compilation of the rule code, the error is displayed in the design option "<u>Compilation errors</u>".

Main Conditions

- The packages corresponding to Java objects included in the rule code must be known to **Deyel**.
- The related objects in the rule must be previously published.

To the right of the icon, the option to open the submenu.



Save Submenu

This submenu is opened by pressing the icon immediately to the right of the icon corresponding to "Save".

	🔒 Lock						
yRule	T Delete			JAVA Code	Permissions	Execution	n
1 - protected void (2)	run(✔ Validate						
	굞 Export						
	뙨 Download SDK						
	뙨. Download Java Sources						
	켎 Download log						

🔒 / 🔓 Lock/Unlock

An advanced rule can only be modified by a modeler user.

- Let allows to block an advanced rule so that no one can modify it until the person who is using it unlocks it, that is, releases it.
- 🔓 Allows to unlock an advanced rule so that another modeler user can modify it.

✔ Validate

This icon validates if the object is ready to be published, that is, the validations performed are applied at the moment of <u>publication</u> and the result of the same is reported.

🛃 Export

This icon opens a window for the user to select and confirm the export of the object.



= 🛃 🕂 📙 Save 🗸 😨	So Up Properties Publish			Home	0 Tasks	Calendars	Cases Message	۹.
<pre>taxealculation * Protected word newly because face large Compton * totals * (* ently * ently sevel / 100; * totals and total * entrysecure + totaling *) * * * * * * * * * * * * * * * * * *</pre>	Export Rule: taxcalculation Enter description Exported Objects Name Image: Taxcalculation	Application	X Type Rule Cancel Export	Java (Code	Permissions	Execution	
A Home ■ Edition of taxcalculation v1 ×								

Description

In this property a text explaining the reason for the operation can be entered. This text can be modified upon import and is displayed in the description column of the <u>export record</u>.

Exported Objects

By expanding the container, the object being exported is shown.

Press the "Cancel" button to undo export or press the "Export" button to finish.

🛍 Delete

Allows to delete the advanced rule only if it is in "Draft" <u>state</u>, closing the tab it is located in and deleting it from the modeler's grid.

Download SDK

This icon allows to download the JAR file that represents Deyel's SDK.

Download Java fonts

This icon allows to download the Java files that represent the object's model and service, so that it can be used in advanced rules.

Pressing the icon displays a message to confirm file download.

🖄 Download logs

Allows to download all the logs generated for the rule.



290	//Asigno los mails validos, si al	Logs Download			×	·
292	xToCopias = null;					
293 294 -	if(!mailsValidos.isEmpty()){	Select the logs you want to do	wnload			
295	xToCopias = new String[mailsVa					
296 -	<pre>for (int i = 0; i < mailsValic</pre>					
297 298	<pre>String xMail = (String) me log("Destinatario válido '</pre>	Last Update	Execution IP	Size	% Download	
298	xToCopias[i] = xMail;					
300	}	28/12/2021 11:25	10.151.31.222	11422KB	50 ¢	
301 -	}else{					
302 303	log("No se envía ninguna copia					
305	1 2					
305	//Si hay, envio el mail para los e					
306 -	<pre>if(!mailsValidos.isEmpty()){</pre>					
307	xBTMail.setRecipients(xToCopia					
308 309	<pre>xBTMail.setSubject("Se adjunt: xBTMail.setMessage(xMensaje);</pre>					
310	xBTMail.postMail();					
311	}					
312						
313 314	//Se actualizan los iteravivos de					
314	List lsPolizas = xBTDigitalDocumer					
316	Iterator iterador = lsPolizas.iter					
317 -	<pre>while (iterador.hasNext()) {</pre>					-
318	BODigitalDocument boIterative					
319 320	xBTDigitalDocument.setIterativ xBTDigitalDocument.setIterativ					
321	xbibigitalbocument.setiterativ				Cancel Download	
322						
323	//Se actualizan los iteravivos de	Endoso Archivo iterativointo	naoso/enviaaotnaoso			
	list lsEndosos = vRTDigitalDocumen	<pre>t.getIterativeElements(xBODig os.iterator():</pre>	italDocument, "iterati	.voInfoEndoso");		
4			sitaibocoment, iterati	vointoendoso);		

In the wizard, a row is displayed for each log file, with the following information:

- Last update of date and time.
- Execution IP.
- file size.
- percentage of the file to download.

If the percentage is added, that part is downloaded, considering the last portion of the log.

Publish Submenu

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Publish".



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taxcalculation •	Delete publication	Java Code Permissions Execution
1 - protected vold run() throws jewa.lang.Exception { 2 tavale = (taratte - entryamount) / 10; 3 totalamount - entryamount + tavalue; 4 }		
Home 🖼 Edition of taxcalculation v1 🗙		

Delete Publication

Allows to remove the advanced rule of use, returning it to the "Draft" state.

Modeling Area

The modeling area is the space where the rulers are designed and modeled. Within this area we can find the different design options which depend on the type of adapter used by the rule.

Standard Rule

Standard type rules use Java code to implement business logic. They use "SDK Rule" type adapters.

Standard rules developed in earlier versions of **Deyel** can continue to use the "Standard Rule" adapter'', which is no longer available.

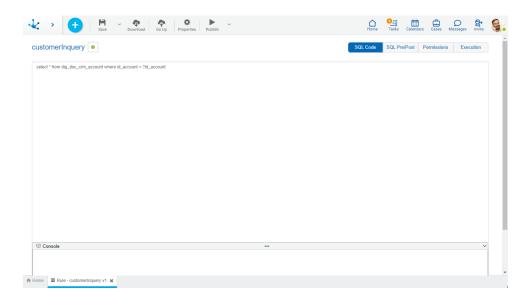


Página | 395

> 🕂 🗎 🐣 Save Download 😨 I 🔅 I 🔅	Home Tasks Calendars Cases Messages Invite
calculation	JAVA Code Permissions Execution
n protected vold vnd) theve jave.lee.Second (taxalee (taxale entryanount - tavvalue;)	
Console ***	~

JDBC Rule

JDBC type rules are those used to perform operations related to databases, using a previously defined "JDBC" adapter. From database shows to the execution of store procedures can be performed. These rules use the <u>adapters</u> available for database connection.



SOAP Rule

SOAP web service type rules are used to use external SOAP services in order to achieve integration with them. They use SOAP Rule" type adapters.



ide 🗕					Permissions Execution
Adapter : WebServiceS Calculator Provider xecution Values		v.dneonline.com/calculator.asmx	WSDL URL: http://www.dneon	line.com/calculator.asmx?WSDL Port: Calc	sulatorSoap Service :
Name	Identifier	Data Type	¢		VO
	intA	int	Value		\rightarrow
	intB	int	Value		\rightarrow
	divideResult	int			←
					Execute
Console					~

Forms Extension Rule

Forms extension type rules allow to use logic that cannot be done in the form modeler. They use the "Forms Extension" adapter.

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ttensionUserForm		JAVA Coo	de Permissions	3
1				
Console ***				~

Rest Rule

REST type rules are used to invoke ApiRest services external to **Deyel**.

They use Java code in their Pre/Post section to execute business logic before and after the ApiRest service call. They use <u>adapters</u> of "API Rest" type or application adapters as "SAP", "Mercado Libre", "Google Drive", etc.



*	> 🕂 🛱 - Omiticad & Op Operations Publish	Home	O Tasks	Calendars	Cases	O Messages	8+ Invite	9.
quer	yCustomerSAP		WS Pre	Post P	ermission	s Exec	ution	
2 3 4 5 7 8 9	<pre>addresser("Accest", # solicition/sion") protected void #feteExectLonkLie() threads #swalamg_Exception { String resonancestring = getBooksepsons(); parteResponse((responseString)) fortex void parteResponse(Tring responseString); StoMDeject oig = new 3000bdject(responseString); StoMDeject oig = new 3000bdject oig = new 300bdject oig = new 3000bdject oig = new 3000bdject oig = new 3000bdject oig = new 3000bdject oig = new 300bdject oig = new 3000bdject oig = new 300</pre>							
C C	nsole **						~	
A Home	≅ Rule - queryCustomerSAP v1 ¥							

Design Options

Creating or updating an advanced rule, allows to write the Java code or SQL code as applicable, to test the rule and review its compilation errors, viewing them in the console.

Depending on the type of advanced rule, one or more design options are displayed.

- Standard Rule The design options available are: "<u>JAVA Code</u>", "<u>Permissions</u>" and "<u>Execution</u>".
- JDBC Rule The design options available are: "<u>SQL Code</u>", "<u>Pre/Post SQL</u>", "<u>Permissions</u>" and "<u>Execution</u>".
- SOAP Rule The design options available are: "<u>Permissions</u>" and "<u>Execution</u>".
- Forms Extension Rule The design options available are: "<u>JAVA Code</u>" and "<u>Permissions</u>".
- Rest Rule The design options available are: "<u>Pre/Post WS</u>" and "<u>Execution</u>".

Java Code

The Java code area is displayed when the modeler is started for a standard type rule that uses an "SDK Rule" type adapter.

Standard rules developed in earlier versions of **Deyel** can continue to use the "Standard Rule" adapter", which is no longer available.

The Java code that executes the rule is written in this area and <u>Deyel SDK for Java</u> should be used for development.



JAVA Code Permissions Execution
~

Sql Code

The SQL code area is displayed when the modeler is started for a rule that uses a "JDBC" adapter.

The SQL show that the rule will execute is written in this area.

stomerInquery 💿		SQL Code	SQL Pre/Post	Permissions	Execution
elect * from dig_doc_crm_account where id_account = ?id_account					
Console	•••				~
Console					

Permissions

Allows to assign the <u>security functions</u> for use and modeling of the object to the existing permissions or to new permissions that the user creates, without having to go to the <u>permission</u> settings option from the menu.

Sections

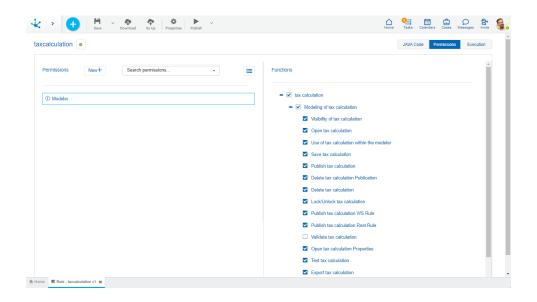
• Permissions: Permissions to which object functions are assigned.



• Security Functions: Represents the total set of security functions, modeling and use of the object. Those that are marked are the ones included in the selected permission.

By default, all security functions for a new object are assigned to the permission Modeler.

Users who are assigned the permissions have access to the functions included in it.



New Opens a panel to create a new permission and once created, the security functions included in it must be selected .

Search permissions... Allows to select a permission from a list and enables the input of characters to filter the values in the list.

•••• Opens the wizard to select a permission and once chosen, the necessary object security functions must be checked.

To unrelate a permission from the object, hover the cursor over the permission and press the icon X. If there are functions selected for that permission, they must be unchecked in order to delete it.

Security Functions to Model the Rule

- Visibility: Allows to display the object in the Deyel modeler.
- Open: Allows to show the object from the Deyel modeler.
- Use within the modeler: Allows the use of the object from another modelable object.
- Save: Enables the save, download rule and upload rule operations.
- Publish: Enables the operation of publishing the object leaving its state as "Published".



- Delete publication: Enables the operation of deleting the object publication leaving its state as "Draft".
- Delete: Enables the delete rule operation.
- Lock/unlock: Enables the lock/unlock operation, only the user who locks it can modify it.
- Publish WS rule: Enables the publish rule operation as SOAP Web Services.
- Publish Rest rule: Enables the operation to publish the API Rest type rule.
- Open properties: Allows to consult the rule properties panel.
- Test: Enables the operation to test the rule execution from the "Execution" option.
- Export: Enables the operation to export the rule definition.

Security Functions to Use the Rule

• Execute rule via Rest: Allows the smart thing type user (API Rest type "Client") to execute the endpoints of the rules API Rest.

Execution

This area is displayed for all types of rules except for the forms functionality extension rules. In the case of rules that use SOAP adapter, this area is displayed when starting the modeler.

The parameters defined in the rules are displayed. For JDBC and web services SOAP type rules, the information of the adapter used is displayed.

Test values can be uploaded on the defined input parameters to test the rule.

			Permissions	Execution
pter: WebServiceSO Iculator Provider: cution Values		ww.dneonline.com/calculator.asmx	WSDL URL: http://www.dneonline.com/calculator.asmx?WSDL Port: CalculatorSoap 5	ervice :
10	Identifier	Data Type	¢	VO
	intA	int	Value	→
	intB	int	Value	→
	divideResult	int		←
				Execute
nsole				

Console

The log console is displayed as a bar at the bottom border of the rule. In the center of the bar there is an icon which allows to modify the size of the console area and on the far right the icon which allows to close it. It is available for all types of advanced rules.

In this area, apart from displaying the errors that arise when publishing or executing a rule, the logs written in its code are displayed.



For the logs to be displayed, the property <u>Enable to Write Logs</u> should be modeled.

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<pre>taxcalculation</pre>			JAVA	Code Pr	ermissions	s Exer	cution	
© Console 14.42-00 (56) EBROR AFARIAS Error de compilación.∵ expected. Línea: 11. Columna: 37. Code Error: compiler err expected							~	Ţ
A Home Rule - taxcalculation v1 🗴								



When starting the modeler for a rule that uses the "Rest" type adapter, the area displayed is Pre/Post WS, and for a "JDBC" type rule is Pre/Post SQL.

Two required initial methods must be coded:

• protected void beforeExecutionRule() throws java.lang.Exception{}

It allows adding logic before the ApiRest service call or the JDBC invocation.

Example: An object can be read using the Deyel SDK and the result used as an input parameter in the JDBC invocation.

protected void afterExecutionRule() throws java.lang.Exception{}

It allows adding logic after the ApiRest service call or the JDBC invocation. Example: The result of the JDBC invocation can be received, processed, and saved in a form.



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customerinquiry		WS Pre/Post	Permission	is Exec	ution	Â
<pre>i *** i **** i *** i *** i *** i *** i ****</pre>						
Console ***					~	Ţ
A Home E Rule - customerinquiry v1 X						

Additionally, in the "Rest" type rule, the following methods can be invoked:

Before Execution (beforeExecutionRule)	After Execution (afterExecutionRule)
setBody(String body): Allows to define the body parameter of the request.	String getBodyResponse(): Allows to get the body of the response.
addHeader(String key, String value): Allows to add a heading to the request.	Integer getHTTPStatus():Allows to get the HTTP state of the response.
addQueryParam(String key, String value): Al- lows to add a parameter query to the request.	List getHeadersResponse (); It allows to obtain a list of the headers of the HTTP request execut- ed. This list is made up of objects of org.apache.http. header type.
addValueToURL(String key, String value): Re- places the text indicated in the first parameter with the value of the second parameter in the url of the service to call.	

3.7.6.1.2.2. Rule Properties

The advanced rule properties can be entered both when they are created while using the wizard, as well as when modifying an existing one.

To enter the rule properties panel, use the icon $\overset{\infty}{\longrightarrow}$ in the top toolbar.



ixcalculation		Parameters			~
<pre>1 * protected void run() throws java.lang.Exception { 2 taxvalue = (taxvate * entryamount) / 100; 3 totalamount = entryamount + taxvalue; 4)</pre>	TE .	New Parameter +		Search:	
	General	Name	Identifier	Data Type	VO
		(i) entryAmount	entryamount	Double	→
	Parameters	(i) taxValue	taxvalue	Double	←
	Param	(i) totalAmount	totalamount	Double	←
		() taxRate	taxrate	Double	→
Console					

Tabs

Entering the properties panel, one, two or three tabs are displayed, depending on the type of rule.

• General

It is available for all types of rules.

• Parameters

It is available for all rules except those of the form extension type.

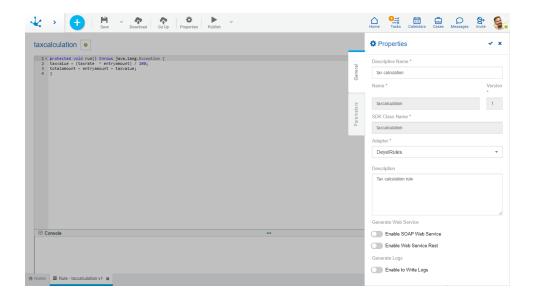
<u>Advanced</u>

It is available for all rules except for standard rules, SOAP rules and form extension type rules.

General

The properties panel is displayed on the right side of the advanced rules modeler, where the first tab corresponds to general information.





An asterisk "*" on the label indicates that the property is required.

Properties

Descriptive Name

Name used by the modeler to reference the rule, display it in the rules gallery and in the object tree.

Name

Used internally to reference the rule within forms, embedded rules, processes or as parameters of other advanced rules. Unlike other objects, the rule name also acts as a unique identifier to identify a rule. Once saved, the rule cannot be changed.

Version

Used internally with the rule name to reference the rule within forms, embedded rules, processes or as parameters of other advanced rules. Once saved, the rule cannot be changed.

SDK Class Name

Name that represents the object in the SDK service and model classes.

Adapter

Used to determine the adapter to be used by the rule. Only it is displayed on this screen.

Operation

Used to choose the operation to be executed. This property is only displayed when the chosen adapter type is "Web Services". It is displayed in this section, it is necessary to go to the "parameters" tab in order to change it.

Description

Text that defines the rule describing its functionality and optionally its content.

Generate Web Service

Enable Web Service Soap

Used to publish the rule as a SOAP web service to be consumed from outside **Deyel**. This property is only displayed when the chosen adapter type is either "Standard Rule" or "JDBC".



Enable Web Service Rest

Used to publish the rule as a Rest API to be consumed from outside **Deyel**. This property is only displayed when the chosen adapter type is "Standard Rule".

Generate Logs

Enable to Write Logs

Allows to display in the console the logs added in the rule code.

When a rule is imported in test or production environments, log writing is automatically disabled.

Specific Properties

Rules with a "Rest" adapter type add specific properties for this type of execution.

HTTP Method

Configures the HTTP method to use.

Context Type

Configures the content type of the request.

Web Services URL

Url entered in the adapter, displayed in a reading mode to facilitate the correct writing of the final url.

URL Service

Url of the service to consume, the final url is the concatenation of the Web Services URL and the URL Service. The addValueToURL(String key, String value) method can be used within the <u>Pre/Post WS</u> section to replace a part of the url (determined by the key) with a new value (determined by the value).

= 🛃 🕂 🗎 👻 Dominicad 🖓 Properties 🕨		Home Tasks Calendars Case	s Messages 🥞	
restRule 💿		Properties	~ ×	
<pre>> protected void beforeExecutionRule() throws java.lang.Exception(</pre>	Adrianced Parameters General	Descriptive Name * restRule Name * restRule SDK Class Name * restRule Adapter * Rest Rule Métode HTTP * Content type * POST [. Veb Sarvice URL Mtp://myenvironment.com/1.0/ Service URL Description Rest Rule	Version 1 1	
A Home S X				•



Context type *

-		
text/html		
application	/xml	
application	/javascript	
text/javasc	ipt	
application	/json	
application	/x-www-form-urlencoded	

M	étodo HTTP *		
	POST	•	
	POST		
	GET		,
	PUT		/
	DELETE		
	PATCH		

Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🔀 is used to close the properties panel, if it was not previously saved, changes are discarded.

Parameters

The second tab of the side panel corresponds to the rules parameter. In this tab, the input and output parameters are defined, which are the communication channel between rules and the processes that use them.

Parameters can be configured in any advanced rule except those of forms extension.

Parameter Grid

The grid columns identify the properties of each parameter.

By placing the mouse over the grid, the following operations are enabled:

Allows modifying an existing parameter.



calculation		Parameters			~
<pre>1 * protected void run() throws java.lang.Exception { 2 taxvalue = (taxvate * entryamount) / 100; 3 totalamount = entryamount + taxvalue; 4)</pre>	_	New Parameter +		Search:	
	General	Name	Identifier	Data Type	VO
	_	(i) entryAmount	entryamount	Double	\rightarrow
	iete rs	(i) taxValue	taxvalue	Double	←
	Parameters	i) totalAmount	totalamount	Double	←
		(i) taxRate	taxrate	Double	\rightarrow
Console					

Allows Creating a Parameter

New Parameter +

Allows adding a new parameter to the grid, completing all its values.

calculation		Parameters				~
<pre>1 = protected void run() throat java.lang.tscoption { status - (tarate = stypecut) / 100; totalumout - entryperout's tavalue; } }</pre>	Parameters	New Parameter + Name * entryAmount Data Type * java lang Double Description		Identifier* entryamount	-	Type * →Input
					Cancel	Save
		Name	Identifier	Data Type	Search:	٧O
0 Console		() taxValue	taxvalue	Double		←
		(i) totalAmount	totalamount	Double		←
		(i) taxRate	taxrate	Double		

.

Properties

Name

Name the modeler uses to refer to the parameter.

Identifier

Uniquely identifies the parameter. It is used within Java programming code.

Туре



Specifies whether the parameter is input — or output —.

Data Type

It can be any type of Java object allowed in **Deyel**, either a primitive (integer) or an array. The type wizard, while typing, gives the most common data type values to use. By placing the mouse over the data type in the grid, the complete data type can be displayed, to help.

Description

Describes the parameter use. Its writing when modeling the parameters is optional.

If it was entered, the colored icon is displayed in the grid, in the Name column (i), otherwise the icon is colorless (i).

Placing the cursor over the icon shows the help.

de 💿			Parameters		
	SOAPExample Service URL : http://ww : AXIS Operation : divide_1	w dneonline.com/calci	New Parameter + Add Operation #	Identifier *	Type *
Name	Identifier	Data Ty	Data Type •	intA	→Input
	intA	int	int		
	intB	int Jack Hard	Description		
	divideResult	int			
					Cancel Save
					Search:
			Name Ident	ifier Data	Гуре ИО
			(i) intB	int	→
			(i) divide	eResult int	←

An asterisk "*" on the label indicates that the property is required.

Wizard to Create Parameters in JDBC Rules

New Parameter + Allows to invoke the wizard available for JDBC type rules.

This wizard allows to select the parameters defined in the SQL statement as input parameters and the columns resulting from the query execution as output parameters.

In this way, the probability of errors is minimized by not having to manually transcribe the names of columns and parameters.

For the wizard to return results, it is necessary to define the SQL statement to execute before invoking it. If it were a Select statement, each input parameter should be preceded by a "?" mark. If executing a store procedure, the output parameters can also be specified, each of them should be preceded by an "@" character.



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etUsers o	Select Operation				×)
select * from dig_doc_uu0 where cd.	Selected Operation:default			Search:	
	Input parameters	Output parameters			₩O
	Name Type	Name	≆уре		-
	No data available in table	CD_ACTIVE	java.math.BigDecimal[]	-	-
		CD_AUTORIZANTE	java.lang.String[]	_	-
		CD_EXPIRATION	java.math.BigDecimal[]		
		CD_IDENTIFICATION	java.lang.String[]		
		CD_INSTANCE_OWNER	java.lang.String[]		
		CD_ORG_UNIT	java.lang.String[]		
		CD_THING_TYPE	java.lang.String[]		
		CD_TYPE	java.lang.String[]		
		CD_USER	java.lang.String[]		
		CD_USER_LAST_UPDATE	java.lang.String[]		
		CD_USER_STORE	java.lang.String[]		
		default_QT_ITEMS	java.lang.Integer		
me Z Edition of getUsuarios v1		DS_ALIAS	java.lang.String[]		
		D0 0111	1 1 01 0		

Wizard to Add Operations in SOAP Rules

The wizard analyzes the adapter used and shows the operations available for such object, along with the input and output parameters for each one.

It allows to select the operation that is executed by default and its parameters, to transfer them to the rule interface. In this way, the probability of errors is minimized by not having to manually transcribe the names of operations and parameters.

ide 🔹	Select Operation			(missions	Execution	on
Adapter: WebServiceSOAP Calculator Provider: AX xecution Values	Available Operations				ulatorSoap	Service :	•
Vame	Show 10 v entries	Search:				٧O	
D	Name					→	
	add_1						
	divide_1					→	
	multiply_1					←	
	subtract_1						
			Previous	1 Next		Execute	
			Select	Cancel			
			_	_			
Console							~

Advanced

The third tab of the side panel corresponds to the objects wizard. When entering the modeler, it is displayed for all rules except for SOAP rules and form extension rules.



This tab lists the objects to be used in the rule.

Creating a relation using the object wizard allows to:

- Work with the model and service classes of the related object from the rule modeler without having to depend on a Java IDE.
- Always keep the Java imports statements of related objects up to date in the rule, regardless of whether the object has been modified after having created the relation.

If significant changes are made to the related objects used in the rules, when they are published:

- Java imports statements of the rules that use them are updated. Rules remain in the same state they were in, with updated modification date.
- Verify that the rule using them is not in a modified state. If modified, it will be requested to be published or unpublished.

Related Objects Grid

The grid columns identify the related object.

Туре

Indicates the object type. It can be a form, process or rule.

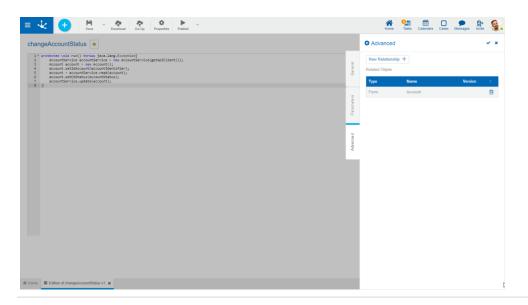
Name

It is used at the modeling level to refer to the object.

Version

Indicates the object version for processes and rules.

By hovering the mouse over each related object in the grid, the delete operation is enabled.





New Relationship + Opens a panel with the forms, processes and rules that the user can select according to their security permissions. Once selected, it is displayed in the grid of related objects.

3.7.6.1.2.3. Deyel SDK for Java

By using the Deyel SDK (Software Development Kit) **Deyel** incorporates the ease of developing advanced and integration rules that interact with the platform objects and developed applications, in an easy and intuitive way.

These rules can be developed in the advanced rules modeler in the case of those that require low code or when they are more complex in a Java IDE, inheriting all its advantages.

Tools to Develop Advanced Rules with SDK

Deyel SDK allows to use **Deyel** objects in advanced rules, by using one class with the model and another one with the object's service.

Model Class

The model class corresponds to the properties that each object has.

For example, the "Account (CRM_ACCOUNT)" form model class of the CRM application contains the Identifier, Company, Opening, Industry, Source and Status fields, among others. It also contains the getter and setter methods for each of these fields.

The model includes:

- Object constructor.
- Getters and setters for each object attribute.
- Internal classes if necessary. For example, the representation of iteratives for forms.

Service Class

A service class contains the operations to manage the model. For example, the service class of a form allows to perform the create, update, delete, query, and find operations.

The service class includes:

- CRUD (Create, Read, Update, Delete) of the object.
- Searches
- Specific methods to work on the model.

Each object service class has a common method available to initialize all objects



Operation	Description	Parameters
getAPIClient()	Initializes the service to be able to use it.	

The service can also be initialized using a specific method that enables the management of its own connection to the database and the use of methods to execute the commit and rollback commands.

Operation	Description	Parameters
getOwnApiClient()	Initializes the service and re- turns the API client of such service to be used in services that require managing their own connection to the data- base.	
ownConnectionCommit()	Executes a commit command to the connected database so that the operations performed on the services of Deyel objects are applied.	
ownConnectionRollback()	Executes a rollback command to the connected database. If an error occurs, it is used to cancel all operations performed on the services of Deyel ob- jects.	

Interaction with Application Objects

In order to interact with **Deyel** objects from a Java IDE, the model and service classes corresponding to each object must be downloaded.

These classes are included when downloading the rule that interacts with such **Deyel** objects, from the "<u>Download</u>" option available on the top toolbar of the rule modeler.

By using the model and service classes, Deyel SDK allows to use the following objects:

- Forms
- <u>Cases</u>
- <u>Rules</u>
- Value Lists
- <u>Users</u>
- Organizational Units



- <u>Calendars</u>
- Email Sending

Forms

The model class contains the properties with its getters and setters, while the service class contains the operations to be performed with the model.

For example, if the "Account (CRM_ACCOUNT)" form from the CRM application is used, when downloading the form Java sources, an account.java file is obtained, representing the model and another accountService.java file with the available operations of the service.

Model Class Content

A form model contains:

- Model constructor.
- Getters and setters of its fields.
- Inner classes that represent the "Multiple occurrences" containers model, if any.

Specific method of the model class

In addition to the getters and setters, there are specific methods related to fields.

Operation	Description	Parameters
getReferen- ce_"idFileTypeField"()	Allows to retrieve the FileRefer- ence object associated with the file field of the instance.	

Data Type

Model properties for a form can have the following data types.

Equivalence between form field data types and Java model is shown.

Control	Data Type	Java
Text	Alphanumeric (length)	String
	Alphanumeric Uppercase (len- gth)	String



Control	Data Type	Java
	Large Alphanumeric	String
	Enriched Text	String
Integer	Number	Integer
	Large Integer	Long
	Decimal	Double
Time	Time	java.sql.Time
	Local time	java.sql.Time
Date	Date	java.sql.Date
	Date and Time	java.sql.Timestamp
	Local Date	java.sql.Timestamp
	Date and Local Time	java.sql.Timestamp
Image	Image in Folder	String
	Image in Database	String
File	File in Database	String
Check	Boolean	Boolean

Service Class Content

The service allows to perform the following CRUD (Create, Read, Update, Delete) and search (search) operations, as well as containing specific methods, for example to retrieve files from the form.

Operation	Description	Parameters
create(entity)	Create a form instance.	entity: Form model class
read(entity)	Reads a form instance.	entity: Form model class



Operation	Description	Parameters
update(entity)	Updates a form instance.	entity : Form model class
delete(entity)	Deletes a form instance.	entity: Form model class
readCases(entity)	Allows to retrieve the case in- stances associated with a form instance. Returns a list of cases since a form instance can be related to more than one case.	entity : Form model class
bind(entity,case)	Allows to associate a case to a form instance.	entity : Form model class case : Case model class
shortDescription()	It allows retrieving the short description of the instance sent by parameter.	FormInstance
get"idField"_description()	It allows retrieving the descrip- tive value of the indicated field.	FormInstance
search(searchCriteria)	Allows to retrieve the form in- stances that meet the search criteria.	searchCriteria : Class that allows defining a set of criteria and search configuration parameters.

Examples of Use

The examples use the "Account (CRM_ACCOUNT)" form of the CRM application and each example contains the use of "Account" model class and "AccountService" service class.

1. Service creation

This service is created only once in the rule and is reused in different operations.

```
AccountService accountService = new AccountSer-
vice(getApiClient());
```



2. Create a form instance

An instance of "Account" model class is created, values are assigned to its properties. Using the "AccountService" service class, the new account is saved with the assigned values through the create (account) method.

3. Read a form instance

To obtain data from an existing account, an "Account" model class instance is created, an identifier chosen through the corresponding setter is indicated and such instance is read using the read(account) method of the "AccountService" service class. The instance contains all its properties which can be queried using the corresponding getters. The example reads the dsCompany, dtOpening, dtStore, and dtLastUpdate properties.

```
Account account = new Account();
Integer readAccountNumber = 50000 ;
account.setIdAccount(readAccountNumber);
account = accountService.read(account) ;
// Once read, continue working
String dscompany = account.getDsCompany();
Date dtopening = account.getDtOpening();
// Audit data
Timestamp dtStore = account.getDtStore();
Timestamp dtLastUpdate = account.getDtLastUpdate();
```

4. Modify a form instance

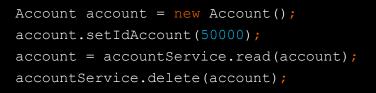


To modify data from an existing account, an "Account" model class instance is created, an identifier chosen through the corresponding setter is indicated and such instance is read using the read(account) method of the "AccountService" service class. The dsCompany property is then modified using the corresponding setter and the update(account) method of the service is invoked to update the account.



5. Delete a form instance

To delete an existing account, an instance of the "Account" model class is created, indicating its identifier by means of the corresponding setter. The delete(account) method of the service is then invoked to delete the instance.

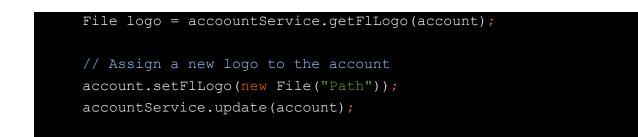


6. Use of file and image type fields

To retrieve a file related to a form instance, use the corresponding get+<fieldname>+(entity) method of the "AccountService" service class.

In this example, the getFlLogo(account) method of the "AccountService" service class is invoked, which allows to retrieve the file corresponding to a logo associated with a File object.





7. Use of internal objects

Internal objects represent the set of fields modeled in containers of multiple occurrences.

In this example, two new "Account.PhoneLine" internal objects are instantiated and values are assigned to their nrPhone and tpPhone properties.

A new list of "Account.PhoneLine" objects can be saved with the setPhoneLine(IsPhones) method or by adding two instances of the "Account.PhoneLine" object to the current list.

```
Account.PhoneLine phones= new Account.PhoneLine();
phones.setNrPhone("01149834589");
phones.setTpPhone("Line phone");
Account.PhoneLine phones1= new Account.PhoneLine();
phones1.setNrPhone("0115123987");
phones1.setTpPhone("Cell phone");
List<Account.PhoneLine> lsPhones = new ArrayList();
lsPhones.add(phones);
lsPhones.add(phones1);
account.setPhoneLine(lsPhones);
// Another option is
account.getPhoneLine().add(phones1);
```

8. Reading of cases associated with form instances

The example retrieves the case associated with a form instance and executes that case.

To use this example in addition to the "Account" (Account) form, the "Account Registration" (Account Registration) process that uses that form must be modeled. The case can be started manually or by <u>Devel SDK methods</u>.



To read cases associated with a form instance, an instance of the "Account" model class is created, indicating the identifier chosen by means of the corresponding setter. The "AccountService" service is instantiated and using the readCases(account) method, the "Cases" list is retrieved with the cases associated with the instance with identifier 10.

Having the "Cases" list, it is possible to iterate through it to retrieve some or all of its cases. The "AccountRegistration" service is instantiated and using the execute(accountRegistrationCase) method, the first associated case is executed.

Both the form instance and the case instance must be created.



9. Associate a case with a form instance

In the example, a case associated with an "Account" form instance is read to then associate such case to a "Contact" form instance, leaving both instances associated with the same case.

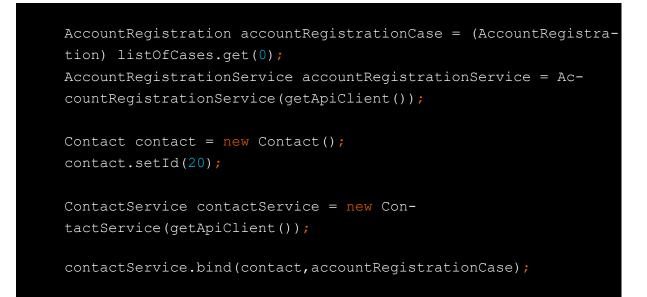
The case associated with the "Account" form instance is read with the readCases(account) method, described in example 8.

The case is associated with the "Contact" form instance, with the bind(contact,accountRegistrationCase) method.

A case can only be linked to a form instance if there is a relation between the form and the process to which the case to be associated belongs.

```
Account account = new Account();
account.setId(10);
AccountService accountService = new AccountSer-
vice(getApiClient());
List<Cases> listOfCases = accountService.readCases(account);
```





10. Retrieve the code and description of the field value associated with a value list

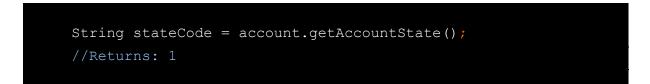
In order to use this example, the "States" value list should be modeled in **Deyel** and values should have been entered to this list.

Code	Descriptive Value
1	Active
2	Inactive

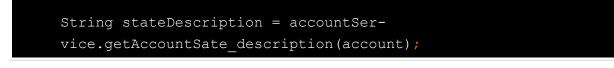
It is required to relate an "Account" form field with the "States" value list.

When a field has a relation defined, the content can use its code or its descriptive value.

This example retrieves the field code associated with the value list.



While in the following example, the description of the field associated with the value list is retrieved.



//Returns: Active

The code is retrieved through the model object and the description is retrieved through the service object.

11. Updating form instances with commit or rollback

This example declares a variable that represents the service of the object to be updated. By using it, the list of existing instances is retrieved and traversed with the FOR statement. For each of them, the service is redefined, obtaining its own API client, the VAT value is calculated and updated, and an attempt is made to perform a commit command or a rollback command to the connected database, as appropriate.



Search

Searches on form instances can be performed using the following objects.

Criteria- represents search criteria on form data. It is made up of elements that can be fields and values, connected by operators.



Operator	Description
eq	Equal
neq	Different
gt	Greater
gte	Greater equal
lt	Less
lte	Less equal
between	Between
betweene	Between and admits equals
nbetween	Out of range
like	Contains
nlike	It does not contain
startsWith	Starts with
nstartsWith	It does not start with
in	Included
nin	Not included
endsWith	Ends with
nendsWith	Does not end with
isNull	It is null
notNull	It is not null

SearchCriteria: object that groups search criteria (Criteria object), it also allows parameterizing the order of the result, the size of the reading page and the number of pages to be retrieved. Reading by pages is used since the data volume on a form can be very large.



Form Service: service class of the form on which the search is being carried out. Contains the search(searchCriteria) operation that must receive the SearchCriteria object as a parameter and returns the SearchResult object. Example:

SearchResult searchResult = accountService.search(searchCriteria);

SearchResult: object that contains the search results. Contains a list of form instances, which are instances of the corresponding model, for example "Account". This object allows to know the total number of reading pages resulting from the search, the size of each page and the number of pages to retrieve.

Search Examples

1. Search

This example retrieves a list of accounts with active state, where such state corresponds to code "1". A quantity of 15 lines per reading page and the number of pages to retrieve are defined. The results are ordered by company name in ascending order.

2. Constructor types for search criteria

This example creates a Criteria object and defines different search conditions using the "equal", "different", "greater", "greater equal", "less", "less equal", "between", "between and allows equals", "out of range", "contains", "does not contain", "starts with", "does not start with", "included", "not included", "ends with", "does not end with", "is null", "is not null".

// Equal cdStatus= 1 corresponds to an active account
Criteria criteria = Criteria.eq("CdStatus", "1");



```
// Different cdStatus= 1 corresponds to an active account
// Criteria criteria = Criteria.neq ("CdStatus","1");
// Greater
// Criteria criteria = Criteria.gt ("qtScore", 20) ;
// Greater equal
// Criteria criteria = Criteria.gte ("qtScore", 20) ;
// Less
// Criteria criteria = Criteria.It ("qtStore", 50) ;
// Less equal
// Criteria criteria = Criteria.Ite ("qtStore", 50) ;
// Between
// Criteria criteria = Criteria.between ("dtOpening",
// Date.valueOf("01/01/1990"), Date.valueOf("01/01/2020"));
// Between and admits equals
// Criteria criteria = Criteria.between("dtOpening",
// Date.valueOf("01/01/1990"), Date.valueOf("01/01/2020"));
// Out of range
// Format YYYY-MM-DD is used
// SimpleDateFormat format =
        new SimpleDateFormat("yyyy-MM-dd");
// Date dateFrom =
// new Date (format.parse( "1990-01-01" ).getTime());
        new Date(format.parse( "2020-01-01" ).getTime());
// Criteria criteria =
// Criteria.nbetween ("dtOpening", dateFrom, dateTo );
// Contains In an internal object
// Criteria criteria = Criteria.like("eMailLine/dsEmail",
// yahoo.com.ar");
```



Deyel uses the data type java.sql.Date for "date" type fields, so the transformation from java.util.Date to java.sql.Date must be done, when it is required to create an object with this type of data.

```
// Contains
// Criteria criteria = Criteria.like("dsCompany","Inc.");
// It does not contain
// Criteria criteria = Criteria.nlike("dsCompany","Inc.");
// Starts with
// Criteria criteria = Criteria.startsWith("dsCompany","The");
// It does not start with
// Criteria criteria = Criteria.nstartsWith("dsCompany", "The");
// Included dsIndustry = 6 is Communications, 8 is Education
// Criteria.in("dsIndustry", Arrays.asList("6", "8"));
// Not Included dsIndustry 6 is Communications, 8 is Education
// Criteria criteria =
// Criteria.nin("dsIndustry", Arrays.asList("6", "8" ));
// Ends with
// Criteria criteria =
// Criteria.endsWith("dsCompany", "Corporation");
// Does not end with
// Criteria criteria =
// Criteria.nendsWith("dsCompany", "Corporation");
// It is null
// Criteria criteria =
// Criteria.isNull("CdStatus");
// It is not null
// Criteria criteria =
// Criteria.notNull("CdStatus");
```



3. Operations on the results object

The SearchResult object is an iterative object and as such can be scrolled through in different ways. The example uses a FOR statement to iterate over each of the instances that meet the search conditions of the dsIndustry and qtScore properties, retrieving the idAccount and dsCompany properties.

```
SearchCriteria searchCriteria = new SearchCriteria();
 searchCriteria.setPageSize(15);
 searchCriteria.addOrderDesc("idAccount");
 // Accounts with industry equal to communications
 searchCriteria.addCriteria
    (Criteria.eq("dsIndustry", "6"));
// Accounts with a score greater than 20
 searchCriteria.addCriteria
         (Criteria.gt("qtScore", 20) );
 // Scrolls through all the accounts in the search result
 String stringData1 = "";
 for (Account account: searchResult) {
     stringData1 += " - " + account.getIdAccount()
                  + " - " + account.getDsCompany();
 // If I only need the first results sheet
 SearchResult<Account> resultFirstPage =
         accountService.search(searchCriteria);
 List<Account> firstList = resultFirstPage .getResult();
 String stringData = "";
 stringData += " Amount of data " + firstList.size();
 stringData += " Pages " + resultFirstPage .getPages();
 stringData += " Actual Page " +
                     resultFirstPage .getCurrentPage();
```

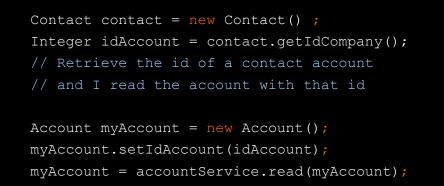
Browsing between Related Entities

In the CRM application, the "Contact (CRM_CONTACT)" form has a relation with the "Account (CRM_ACCOUNT)" form and the related account can be retrieved from a business rule, from a contact.



An instance of the "Contact" model class is created and the account identifier is retrieved using the corresponding getter.

Next, an instance of the "Account" model class is created indicating the identifier retrieved from the contact in the setter and the account instance is read using the read(myAccount) method of the "AccountService" service class.



Cases

The model class contains properties with their getters and setters, while the service class contains operations to be performed on the model.

For example, when downloading the Java sources of the process, if using the "Request Payment" process, a requestPayment.java file is generated with the model methods and also another requestPaymentService.java file with the available service operations.

Model Class Content

A case model contains:

- Model constructor.
- Getters and setters of the case properties.
- Getters to get the related forms.
- Getters to get the activities in progress.
- Getters to get the process corresponding to the case.

Getters and setters of the case properties

The case model class contains a set of getters and setters for the case properties.

Operation	Description	Parameters
getCdCase()	Gets the identifier of the case.	



Operation	Description	Parameters
setCdCase(casenumber)	Allows to set the case identifier value.	String casenumber : Case num- ber
getCdState()	Gets the state of the case.	
	Possible values: ACTIVE - Active CANCELLED Cancelled ENDEDCASE - Ended	
getDsCase()	Gets the description of the case.	
getDtEnded()	Gets the end date of the case.	
getDtExpiration()	Gets the expiration date of the case.	
getDtInitiated()	Gets the start date of the case.	
getPriority()	Gets the priority of the case. Possible values: 1 - Urgent 2 - High 3 - Medium 4 - Low	
setLastPressedButton(button)	Allows to set the last button pressed.	String button : Name of the last button pressed.
getLastPressedButton()	Gets the last button pressed.	
get + <form class="" name=""> + Entity()</form>	Gets an instance of the form class related to the process.	
getLsVinculatedForms()	Gets a list of form instances related to the case.	
getVinculatedFormByldEnti- ty(idEntity)	Gets a form instance related to the case.	String idEntity : Identifier of the form instance
getProcess()	Gets the process corresponding to the case.	
getLsExecutedActivities()	Gets the executed activities of the case.	



Operation	Description	Parameters
getLsCurrentActivities()	Gets the activities in progress of the case.	

Getter to get the related forms

Given a case, the values of the form fields related to it can be used, in the same way as if the activities were executed manually.

The model class has a getter for each form related to the process, with a "get + <Form class name> + Entity()" structure. Once an instance has been retrieved, it is used in the same way as for <u>forms</u>.

Example

If the "Request Payment" process related to the "Payment" and "Report" forms is modeled, the RequestPayment class has the following methods:

- getPaymentEntity(): Gets an instance of the Payment class that corresponds to the "Payment" form related to the case.
- getReportEntity(): Gets an instance of the Payment class that corresponds to the "Payment" form related to the case.

The case cannot have forms associated with the same class name, even if they belong to different applications.

Getters to get the activities in progress

Given a case, the list of its activities in progress can be accessed, using the getLsCurrentActivities() case properties method of the model class, which returns a list of "ExecutedActivity" objects with their methods.

Operation	Description	Parameters
getCdActivity()	Gets the code of the activity.	
getDsNameActivity()	Gets the activity name.	
getCdState()	Gets the state of the activity.	
	Possible values: EXEC - In execution CANCELLEDACT - Cancelled	



Operation	Description	Parameters
	ENDEDACT - Ended	
getPriority()	Gets the activity priority.	
	Possible values: 1 - Urgent 2 - High 3 - Medium 4 - Low	
getDtEnded()	Gets the end date of the activi- ty.	
getDtExpiration()	Gets the expiration date of the activity.	
getDtlnitiated()	Gets the start date of the activi- ty.	
getCdUserExec()	Gets the code of the user that executed the activity.	
getCdUserInit()	Gets the code of the user that started the activity.	
getNuDurationSeconds()	Gets the duration in seconds of the activity execution.	
getTpActivity()	Gets the activity type.	
	Possible values: TP_GATEWAY - Gateway TP_STANDARD - Standard TP_ABSTRACT - Abstract	
getTpParticipant()	Gets the type of participant for the activity.	
	Possible values: USER - User ORG_UNIT - Organizational Unit ROLE - Role THING - Userthing	



Operation	Description	Parameters
getLsExecutedActions()	Gets a list of actions executed by the activity.	

Getter to get the process corresponding to the case

A case process can be obtained through the getProccess() method of the model class, which returns an instance of the "Process" class with its methods.

Operation	Description	Parameters
getCdProcess()	Gets the code of the process.	
getCdVersion()	Gets the version of the process.	
getIdApplication()	Gets the application identifier of the process.	
getCdFirstActivity()	Gets an Activity object with the first process activity,	
getDsComment()	Gets the comment of the pro- cess.	
getDsDescription()	Gets the description of the pro- cess.	
getDsName()	Gets the name of the process.	

Service Class Content

The service allows the following operations to be performed on the cases:

Operation	Description	Parameters
startCase(case)	Starts a case, executing the initial activity of the related process. Returns the code of the created case.	Case case : Model of the case to start. Related form fields must have values



Operation	Description	Parameters
startCase(case, user)		Case case : Model of the case to start. Related form fields must have values String user : Code of the user that executes the activity. It must be specified when the participant re- sponsible for the activity is a role
startCase(case. moveCase) startCase(case, user, move- Case)	Starts a case, with the possi- bility of not executing the initial activity of the related process. Returns the code of the created case.	Case case : Model of the case to start. Related form fields must have values Boolean moveCase : Configure with false value, to indicate that it does not have to execute the initial activi- ty of the process Case case : Model of the case to start. Related form fields must have values String user : Code of the user that executes the activity. It must be specified when the participant re- sponsible for the activity is a role Boolean moveCase : Configure with false value, to indicate that it does not have to execute the initial activi- ty of the process
execute(case) execute(case, user)	Executes the current activity of a case. Returns the state of the up- dated case.	Case case : Model of the case with assigned case number Case case : Model of the case with assigned case number String user : Code of the user that executes the activity. It must be specified when the participant re- sponsible for the activity is a role
execute(case,activity)	Executes the activity of a case indicated in the parameter. Returns the state of the up-	Case case : Model of the case with assigned case number



Operation	Description	Parameters
	dated case.	ExecutedActivity activity : Activity retrieved from the list of activities in progress of the case
execute(case,activity,user)		Case case : Model of the case with assigned case number
		ExecutedActivity activity : Activity retrieved from the list of activities in progress of the case
		String user : Code of the user that executes the activity. It must be specified when the participant re- sponsible for the activity is a role
read(case)	Reads a case.	Case case : Model of the case with assigned case number
cancelCase(case, observa- tion)	Cancels a case.	Case case : Model of the case with case number to be cancelled. Can- cellation is done with the online user executing the sdk rule
		String observation : Reason for can- cellation
reassignCase(case, reassig- nUser)	Assigns the case task in exe- cution.	Case case : Model of the case with case number which task is assigned
		String reassignUser : Code of the user to whom the case task is as- signed

Examples of Use

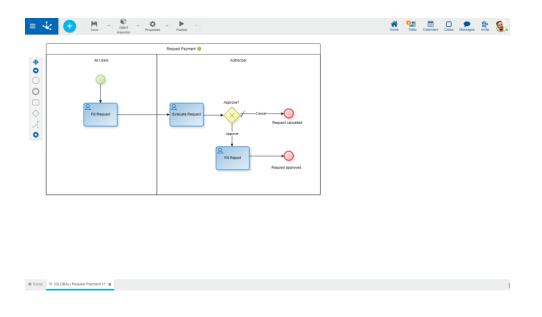
The examples use the "Request Payment" process and each example contains the use of the "RequestPayment" model class and the "RequestPaymentService" service class.

In addition, "Request" and "Report" classes are used, which represent models of forms related to the "Request Payment" process.

The examples detail how to start a case, read it, execute and assign its activities, finish it and cancel it.



Process Diagram for Examples 1 to 7



1. Starting a case

To start the case, the first activity "Fill Request" is executed. The case moves to the "Evaluate Request" activity under the liability of "Afarias" user, configured in the "Authorizer" lane.

Executing the "Fill Request" activity performs the "Create" operation on the "Request" form with the values assigned to its fields.

An instance of the "RequestPayment" model class is created, in the "Request" form obtained through the getRequestEntity() method, values are assigned to its fields with the corresponding setters. The case is started using the "RequestPaymentService" service class with the startCase(myFirstPaymentCase) method.

```
RequestPayment myFirstPaymentCase = new RequestPayment();
myFirstPaymentCase.getRequestEntity().setAmount(new Dou-
ble(200));
SimpleDateFormat format = new SimpleDateFormat("yyyy-MM-dd");
myFirstPaymentCase.getRequestEntity().setDueDate(new
Date(format.parse("2020-06-28").getTime()));
myFirstPaymentCase.getRequestEntity().setMessage("This is my
first payment request .. i need to buy more coffee !!");
RequestPaymentService myService = new RequestPaymentSer-
vice(getApiClient());
String cdCase = myService.startCase(myFirstPaymentCase);
```



2. Starting a case without executing the first activity

The process of Example 1 is used.

The case starts using the "RequestPaymentService" service class with the startCase(case.moveCase) method with the second parameter set to false so that it does not execute the first activity "Fill Request".

```
RequestPaymentService myService = new RequestPaymentSer-
vice(getApiClient());
String cdCase = myService.startCase(myFirstPaymentCase,false);
```

3. Reading the case

An instance of the "RequestPayment" model class is created, it is assigned a case number generated by the startCase(myFirstPaymentCase) method of the "RequestPaymentService" service class, in the previous example.

The case is read with the read(myFirstPaymentCase) method of the "RequestPaymentSercice" service class and the case number.

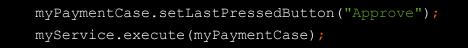
```
RequestPayment myPaymentCase = new RequestPayment();
myPaymentCase.setCdCase(cdCase);
myPaymentCase = myService.read(myFirstPaymentCase);
```

4. Activity execution that defines modeled buttons

The case is in the "Evaluate Request" activity, which has two modeled buttons. The next activity to be executed depends on the button selected, in this example "Approve" is selected. If no button is specified, the modeled flow is followed as default.

The "Approve" button is assigned to the "Request Payment" model class using the corresponding setter. The "Evaluate Request" activity is executed with execute(myPaymentCase) method of the "RequestPaymentService" service class.

As a result, the case is in the "Fill Report" activity and its state is "ACTIVE",





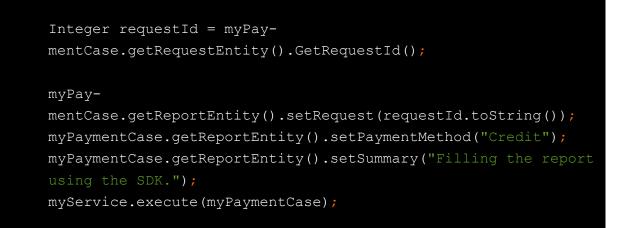
5. Activity execution not defining modeled buttons

The case is in the "Fill Report" activity. This activity execution creates the "Report" form. This form has a field called "request" that is related to the "Request" entity.

The "request" field is completed by means of the corresponding setter, with the identifier of the "Request" entity related to the case, which is obtained by means of the getRequestEntity() method.

The rest of the fields are completed and the "Fill Report" activity is executed with the execute(myPaymentCase) method of the "RequestPaymentService" service class.

The case is sent to the "Request approved" end event and its state is ended.



6. Cancellation of a case

An instance of the "RequestPayment" model class is created, it is assigned the case number to be canceled.

The cancellation reason is entered in the "observation" parameter and the case is canceled with the cancelCase(myPaymentCase, observation) method of the "RequestPaymentService" service class.



7. Assignment of the task in execution of a case

An instance of the "RequestPayment" model class is created, indicating the case number to which the task is assigned.

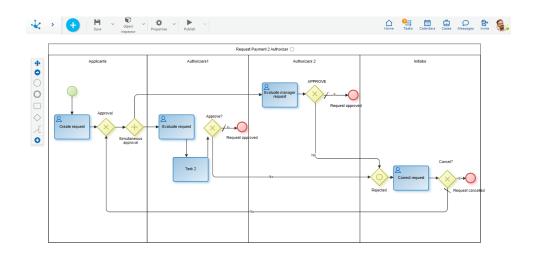
The user code is entered in the "reassignUser" parameter and the task is assigned with the reassign-Case(myPaymentCase, reassignUser) method of the "RequestPaymentService" service class.



When the task of a case is assigned, the online user that executes the sdk rule is used. This user can assign their own tasks, those of their team and those of the participants of a role, if they were their coordinator.



Process Diagram for Example 8



🛆 Home 🕸 Request Payment 2 Authorizer v1 (... 🛪

8. Execution of a specific activity

Activities "Evaluate request" (9) and "Evaluate manager request" (11) are sent to be evaluated by two authorizers.

Activity "Evaluate manager request" (11) is executed. JPAZ user is the authorizer and rejects the activity in this case.

An instance of the "RequestPayment2Authorizer" model class is created, a case number to be read is assigned.

The case is read with the read(xMyCase) method of the "RequestPayment2AuthorizerSercice" service class and the case number.

Every activity in progress is retreived with the getLsCurrentActivities() method and an ExecutedActivity object is instantiated.

If the activity is "Evaluate manager request" (11), the "Reject" button is assigned through the corresponding setter and the activity is executed with the execute(xMyCase. xActivity, user) method of the "RequestPayment2AuthorizerService" service class.





Search

Case searches of a process can be performed through the interaction of the following objects.

Criteria: represents search criteria on case data. It is made up of elements that can be properties and values, connected by operators.

Property Identifier	Description
Case.searchCdState	Case state
Case.searchPriority	Case priority
Case.searchDsCase	Case description
Case.searchDtInitiated	Case start date
Case.searchDtEnded	Case end date
Case.searchCdActivity	Activity code



Property Identifier	Description
Case.searchCdCase	Case number

Operator	Description
eq	Equal
gt	Greater
lt	Less
betweene	Between and admits equals
like	Contains

Possible values of the case state:

ldentifier	Description
Case.stateActive	Active
Case.stateCancelled	Cancelled
Case.stateEnded	Finalized

Possible values of the case priority:

ldentifier	Description
Case.priorityUrgent	Urgent
Case.priorityHigh	High
Case.priorityMedium	Medium
Case.priorityLow	Low



SearchCriteria: object that groups search criteria (Criteria object), it also allows parameterizing the order of the result, the size of the reading page and the number of pages to be retrieved. Reading by pages is used since the data volume on a process can be very large.

Process Service: service class of the process on which the case search is being carried out. Contains the search(searchCriteria) operation that must receive the SearchCriteria object as a parameter and returns the SearchResult object. Example:

SearchResult searchResult = actionsService.search(searchCriteria);

SearchResult: object that contains the search results. Contains a list of the process cases, for example "Actions". This object allows to know the total number of reading pages resulting from the search, the size of each page and the number of pages to retrieve.

Search Examples

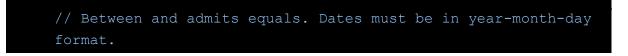
1. Search

This example retrieves a list of cases from the "Actions" process with an active state, where the state property corresponds to the "Case.searchCdState" identifier and the active value corresponds to the "Case.stateActive" identifier. The number of pages to retrieve is also defined.

```
AccionesService xaccionservice = new AccionesSer-
vice(getApiClient());
SearchCriteria searchCriteria = new SearchCriteria();
Criteria criteria1 =
Criteria.eq(Case.searchCdState,Case.stateActive);
searchCriteria.addCriteria(criteria1);
searchCriteria.setPage(1);
SearchResult searchResult =
xaccionservice.search(searchCriteria);
List<Acciones> instancesResult = searchResult.getResult();
```

2. Constructor types for search criteria

This example creates a Criteria object and defines different search conditions using the "between and admits equals", "contains" and "greater" operators.





```
// SearchCriteria searchCriteria = new SearchCriteria();
// SimpleDateFormat format =
        new SimpleDateFormat("yyyy-MM-dd");
// Date dateFrom =
        new Date(format.parse( "2020-01-01" ).getTime());
// Date dateTo =
        new Date(format.parse( "2021-01-01" ).getTime());
// criteria criteriaDate = Crite-
ria.betweene(Case.searchDtInitiated,
// DateFrom, DateTo);
// searchCriteria.addCriteria(criteria Date);
// Contains. The case description contains the test word
// Criteria criteriaLike = Crite-
ria.like(Case.searchDsCase,"test");
// Greater. Case number greater than 80
// Criteria criteria = Criteria.gt (Case.searchCdCase, "80") ;
```

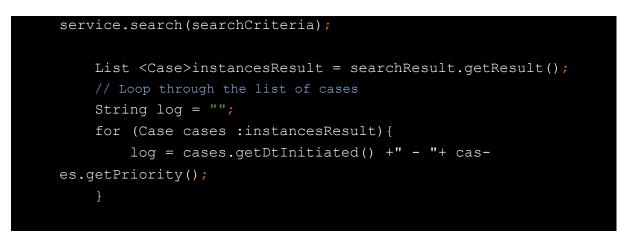
Deyel uses the data type java.sql.Date for "date" type fields, so the transformation from java.util.Date to java.sql.Date must be done, when it is required to create an object with this type of data.

3. Operations on the results object

The SearchResult object is an iterative object and as such can be scrolled through in different ways. The example uses a FOR statement to iterate over the cases that meet the search conditions of example 1 (active state), retrieving the case start date and priority.

```
AccionesService xaccionservice = new AccionesSer-
vice(getApiClient());
SearchCriteria searchCriteria = new SearchCriteria();
// Cases with active state
Criteria criteria1 = Criteria.eq(Case.searchCdState, "ACTIVE");
searchCriteria.addCriteria(criteria1);
searchCriteria.setPageSize(10);
searchCriteria.setPage(1);
SearchResult searchResult = xaccion-
```





Rules

The model class contains getters and setters for each of the parameters defined in an advanced rule, while the service class contains the operation to be performed with the model.

The model name as well as the service name are determined by the property SDK Class Name specified when modeling the <u>advanced rule</u>.

For example, if the "taxCalculation" advanced rule is used when downloading the Java sources of the rule, you get a taxCalculation.java file that represents the model and another taxCalculationService.java file with the available operation of the service.

Model Class Content

An advanced rule model contains:

- Model constructor.
- General getter.
- Getters and setters of its parameters. The output parameters only have getters.

General getter

Operation	Description	Parameter
getCdRule()	Returns the identifier of the rule.	

Data Type

The parameters of an advanced rule have their equivalence with the data types of form fields.



Service Class Content

Service allows the following operations to be performed:

Operation	Description	Parameter
execute(rule)	Executes an advanced rule.	Rule rule : Model of the rule to be executed

Example of Use

The example invokes the "taxCalculation" advanced rule, using the model and service classes.

Values for "amount" and "taxRate" input parameters are defined in the model using its setters. Next, the execute(myRule) method of the service is executed and a VAT value is obtained from the getter of the "taxValue" parameter.

<pre>// Calculation of 21% VAT on the Amount Received taxCalculationService myService =</pre>
<pre>new taxCalculationService (getApiClient()); taxCalculation myRule = new taxCalculation() ; myRule.setAmount(new Double(100.12)); myRule.setTaxRate(new Double(21.00)); myRule = myService.execute(myRule); // Gets the Amount of VAT Applied Double doubleResult = myRule.getTaxValue(); log("The result of the tax value is:"</pre>
<pre>taxCalculation myRule = new taxCalculation() ; myRule.setAmount(new Double(100.12)); myRule.setTaxRate(new Double(21.00)); myRule = myService.execute(myRule); // Gets the Amount of VAT Applied Double doubleResult = myRule.getTaxValue(); log("The result of the tax value is:"</pre>
<pre>myRule.setAmount(new Double(100.12)); myRule.setTaxRate(new Double(21.00)); myRule = myService.execute(myRule); // Gets the Amount of VAT Applied Double doubleResult = myRule.getTaxValue(); log("The result of the tax value is:"</pre>
<pre>myRule.setTaxRate(new Double(21.00)); myRule = myService.execute(myRule); // Gets the Amount of VAT Applied Double doubleResult = myRule.getTaxValue(); log("The result of the tax value is:"</pre>
<pre>myRule = myService.execute(myRule); // Gets the Amount of VAT Applied Double doubleResult = myRule.getTaxValue(); log("The result of the tax value is:"</pre>
<pre>// Gets the Amount of VAT Applied Double doubleResult = myRule.getTaxValue(); log("The result of the tax value is:"</pre>
<pre>// Gets the Amount of VAT Applied Double doubleResult = myRule.getTaxValue(); log("The result of the tax value is:"</pre>
<pre>Double doubleResult = myRule.getTaxValue(); log("The result of the tax value is:"</pre>
log("The result of the tax value is:"
+ doubleResult);

Value Lists

All value lists have the same structure and are administrated by a single model class and a single service class, which are included in Deyel SDK.

The model class contains properties with getters and setters, while the service class contains the operations to be performed with the model.

The "ValueList" model class has the value list structure, while the "ValueListData" model class has the data.



ValueList Model Class Content

The "ValueList" model contains:

- Model constructor.
- Getters and setters to access its properties.
- ValueListData Collection.

ValueListData Model Class Content

This class is in a "Value list" model class collection. It represents each of the values in the value list.

The "ValueListData" model contains:

- Model constructor.
- Getters and setters to access its properties.

ValueListService Service Class Content

The service allows to read the value list.

Operation	Description	Parameters
read(valuelist)	Reads the value list data re- ceived as a parameter.	valuelist : Value list model class

Example of Use

In order to use this example, model the "States" value list in **Deyel** and previously enter the values to this list.



States •			ßearch	C
States				Add to
Enter new value				
II 1 - Active				
III 2 - Inactive				
II 3 - On Hold				

Read these values using Deyel SDK classes, which retrieve the following:

Code	Descriptive Value	Low Logic
1	Active	False
2	Inactive	False
3	On Hold	True

To read the value list, instantiate the "ValueListService" service. The "ValueList" model class is instantiated and the value of the <u>identifier</u> property of the list to be read is indicated, using the corresponding setters.

This instance is read using the read(valueList) method of the "ValueListService" service class. The instance contains all its properties which can be shown using the corresponding getters.

To read the data, access the "ValueListData" list with the corresponding getters of the "ValueList" model class.

Having the "ValueListData" list, it is possible to iterate through it to retrieve some or all of its values. This example retrieves the first value.

```
ValueListService valueListService = new Val-
ueListService(getApiClient());
ValueList valueList = new ValueList();
valueList.setId("id_value_list");
valueList = valueListService.read(valueList);
```



```
valueList.getDsDisplayName();
valueList.getDsName();
List <ValueListData> valueListData = val-
ueList.getValueListData();
ValueListData firstValue = valueListData.get(0);
Integer code = firstValue.getCode(); // code = 1
String value= firstValue.getValue(); // value = "Active"
Boolean isDeleted = firstValue.getDeleted(); // isDeleted =
false
```

Users

The model class contains the properties with its getters and setters, while the service class contains the operations to be performed with the model.

Content of the Model Class

A user's model contains:

- Model constructor.
- Getters and setters of its attributes.

Getters to get user attributes

The model class for a case contains a set of getters for the attributes of the case.

Operation	Description	Parameters
getFirstName()	Gets the user name.	
getLastName()	Gets the user last name.	
getEmail()	Gets the user email.	
getUserCode()	Gets the user code.	
getAlias()	Gets the user alias.	



Operation	Description	Parameters
getOrganizationalUnit()	Gets the user organizational unit.	
getAuthorizedUserCode()	Gets the authorizing user code.	
getCalendar()	Gets the user calendar.	
getJobs()	Gets the job positions.	
getDelegates()	Gets the user delegated users.	
getDelegatesOf()	Gets the users where the user is defined as a delegate.	
getActive()	Gets the user state.	
	Possible values: 1 - Active 0 - Inactive	
getExpiration()	Gets the user expiration date.	
getUserDurationDays()	Gets the number of days the password expires since the user was created.	
	Possible values: 0 - Never 30 - 30 days 60 - 60 days 90 - 90 days	
getLicenses()	Returns a list of licensed prod- ucts for the user.	
getPermissions()	Returns a list with the user permissions.	
getRoles()	Returns a list with the user roles.	
getIdentificationType()	Gets the identification type of the user personal data.	
getIdentificationNumber()	Gets the identification number	



Operation	Description	Parameters
	of the user personal data.	
getPhone()	Gets the user phone number.	
getExtensionNumber()	Gets the user phone extension number.	
getNationality()	Gets the user nationality.	
getBirthday()	Gets the user birthdate.	
getCountry()	Gets the user country.	
getState()	Gets the user state	
getCity()	Gets the user city.	
getZipCode()	Gets the user zip code.	
getStreetName()	Gets the user street name.	
getStreetNumber()	Gets the user street number.	
getDepartament()	Gets the user department code.	
getLinkedinAccount()	Gets the linkedin user code.	
getTwitterAccount()	Gets the twitter user code.	
getFacebookAccount()	Gets the facebook user code.	
getYouTubeAccount()	Gets the youtube user code.	
getSkypeAccount()	Gets the skype user code.	
getObservation()	Gets the user observations.	

Service Class Content

The service allows the following operations to be performed:



Operation	Description	Parameters
read(user)	Reads an instance.	User user : User code to read
getUserImage(user)	Gets the user profile image.	User user : User code to read
getThumbnail(user)	Gets the thumbnail image of the user profile.	User user : User code to read
verifySecurity(user,function)	Returns true if the user has the security function specified as a parameter in his permissions, and false if otherwise.	User user : User code to read String function : Code of the specified safety function
search(searchCriteria)	Returns a list of instances of the model class with specified search criteria	SearchCriteria searchCriteria : Search criteria

Example of Use

The examples use the **Deyel** user object and each example contains the use of the "User" model class and the "UserService" service class.

1. Service creation

This service is created only once in the rule and is reused in different operations.

2. User reading

In this example, a user with the userCode property with "JPAZ" value is read, using the read(user) method of the "UserService" service class. The value of the lastName property is obtained with the getter of the "User" model class.

```
User user = new User();
user.setUserCode("AFARIAS");
user = userService.read(user);
```

3. Get the user profile image



In this example, a user with the userCode property with "AFARIAS" value is read and its profile image is obtained through the getUserImage(user) method of the "UserService" service class.

```
User user = new User();
user.setUserCode("AFARIAS");
userService.getUserImage(user);
```

4. Get user profile image

In this example, a user with the userCode property with "AFARIAS" value is read and its profile image is obtained through the getUserImage(user) method of the "UserService" service class.

```
User user = new User();
user.setUserCode("AFARIAS");
userService.getThumbnail(user);
```

5. Security check

In this example it is verified if a user with the userCode property with "AFARIAS' value has the "DUU0C001" security function defined. The verifySecurity((user, "DuU0C001") method of the "UserServ-ice" service class is used with a user that has been read using the read(user) method and the specified security function, as parameters.

```
User user = new User();
user.setUserCode("AFARIAS");
user = userService.read(user);
boolean userHasAccess = userService.verifySecurity(user,
"DUU0C001");
```

6. Search

This example retrieves a list with users whose dsEmail property contains the word "gmail" and the cdOrgUnit property has the "000000007" value. The results are sorted by last name in ascending order. The list is scrolled displaying the first and last names of the users. Same criteria as for form searches are used.

SearchCriteria searchCriteria = new SearchCriteria();



```
Criteria criteria1 = Criteria.like("dsEmail", "gmail");
Criteria criteria2 = Criteria.eq("cdOrgUnit", "0000000007");
searchCriteria.addCriteria(criteria1);
searchCriteria.addCriteria(criteria2);
searchCriteria.addOrderAsc("dsLastName");
List list = userService.search(searchCriteria);
Iterator it = list.iterator();
while (it.hasNext()) {
User user = (User) it.next();
log(user.getFirstName() + " " + user.getLastName());
}
```

Organizational Units

The model class contains the properties with its getters and setters, while the service class contains the operation to be performed with the model.

Model Class Content

A user's model contains:

- Model constructor.
- Getters and setters of its attributes.

Getters to get the organizational unit attributes

The model class of a case contains a set of getters for the organizational unit attributes.

Operation	Description	Parameters
getDisplayName()	Gets the descriptive name of the organizational unit.	
getName()	Gets the name of the organiza- tional unit.	
getManager()	Gets the manager user of the organizational unit.	
getSuperiorOrganizationalU- nit()	Gets the superior organizational unit of the organizational unit.	



Operation	Description	Parameters
getDescription()	Gets the description of the or- ganizational unit.	
getEmail()	Gets the email of the organiza- tional unit.	
getCalendar()	Gets the calendar of the organi- zational unit.	
getManagerCanReadPrivateDa- ta()	Returns true if the organiza- tional unit manager has permis- sion to read private data, false otherwise.	
getManagerCanUpdatePrivate- Data()	Returns true if the organiza- tional unit manager has permis- sion to update private data, false otherwise.	
getManagerCanDeletePrivate- Data()	Returns true if the organiza- tional unit manager has permis- sion to delete private data, false otherwise.	
getUserCanReadPrivateData()	Returns true if the organiza- tional unit users have permis- sion to read private data, false otherwise.	
getUserCanUpdatePrivateData()	Returns true if the organiza- tional unit users have permis- sion to update private data, false otherwise.	
getUserCanDeletePrivateData()	Returns true if the organiza- tional unit users have permis- sion to delete private data, false otherwise.	

Service Class Content

The service allows the following operations to be performed:



Operation	Description	Parameter
read(orgUnit)	Reads an instance.	User OrgUnit : Code of the or- ganizational unit to read

Example of Use

The **Deyel** organizational unit object is used. It contains the use of the "OrganizationalUnit" model class and the "OrganizationalUnitService" service class.

1. Service creation

This service is created only once in the rule and is reused in different operations.

```
OrganizationalUnitService organizationalUnitService = new Or-
ganizationalUnitService(getApiClient());
```

2. Reading of the organizational unit

This example retrieves the manager property value of an organizational unit identified with the "000000008' code, using the read method (organizationalUnit) of the "OrganizationalUnitService" service class. The manager property value is obtained through the corresponding getter of the "OrganizationalUnit" model class.

```
OrganizationalUnit organizationalUnit = new OrganizationalU-
nit();
organizationalUnit.setOrganizationalUnit("000000008");
OrganizationalUnit xOrganizationalUnitReaded = organizationalU-
nitService.read(organizationalUnit); log("Manager: " + organi-
zationalUnitReaded.getManager());
```

Calendars

For the calendar object, only service class operations are defined to work with dates, the model class is not necessary because the **Deyel** data types are used. The service class is predefined in the Deyel SDK and does not need to be downloaded.



Service Class Content

The service allows the following operations to be performed:

Operation	Description	Parameters
worksDays(start, end)	Obtains work days between dates, using the current user's calendar or another one speci- fied as a parameter.	Timestamp start : Period start date
		Timestamp end : Period end date
worksDays(start, end, calendar)	Obtains work days between dates, using the calendar specified as a parameter.	Timestamp start : Period start date
	specified as a parameter.	Timestamp end : Period end date
		Integer calendar : Code of the specified calendar
convertToTimeZone(date, ca- lendar)	Converts a date into a specified time zone.	Timestamp date : Date to con- vert
		Integer calendar : Calendar code with specified time zone

Example of Use

Examples contain the use of "CalendarService" service class.

1. Service creation

This service is created only once in the rule and is reused in different operations.

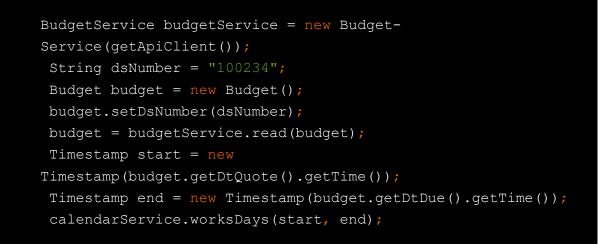
2. Calculation of work days between dates

In this example, a budget number is read and the number of work days between the budget entry date and the budget due date is calculated.



A budget with the dsNumber "100234" property value of the "Budget" model class is read, using the read(budget) method of the "BudgetService" service class.

With the workDays(start, end) method of the "CalendarService" service class, the number of work days between the dtQuote and dtDue properties values is obtained, from the corresponding getter methods of the "Budget" model class.



3. Time calculation with another time zone

This example converts local time to Mexico time, set by calendar 2 time zone, using the convertToTimeZone(localTime, 2) method of the "CalendarService" service.

```
Timestamp localTime = Timestamp.valueOf(LocalDateTime.now());
   Timestamp timeMexico =
   calendarService.convertToTimeZone(localTime, 2);
    log("Local Time: " + localTime + " Time Mexico: " + timeMe-
   xico);
```

Email Sending

Email delivery is administrated by a single model class and a single service class, included in the Deyel SDK.

The model class contains the properties with its getters and setters, while the service class contains the operations to be performed with the model.

Email Model Class Content

The "Email" model contains:

- Model constructor.
- Getters and setters to access the email properties.



Getters and setters of the Email model properties

Operation	Description	Parameters
getTo()	Retrieves the list of recipients' email addresses.	
getCc()	Retrieves the list of email ad- dresses of those who will re- ceive a carbon copy of the email.	
getBcc()	Retrieves the list of email ad- dresses of those who will re- ceive a blind carbon copy of the email.	
getReplyTo()	Retrieves the list of email ad- dresses configured with auto- matic response.	
getSubject()	Allows to retrieve the email subject.	
setSubject()	Allows to define the email sub- ject.	String subject : Email subject
getText()	Allows to retrieve the email text.	
setText()	Allows to define the email text.	String text : Email text
getAttachments()	Allows to retrieve the list of email attachments.	
setAttachments()	Allows to define a list of at- tachments to the email.	List of Files: Files that are sent as attachments in the email
getAttachmentReferences()	Allows to retrieve the set of file references associated with the email.	
setAttachments()	Allows to define the set of ref- erences to files and associate them to the email.	FileReference List
setAlias()	Allows to define an alias for the	String alias : Alias text



Operation	Description	Parameters
	email.	

The Reply To attribute in the email standard allows to assign recipient addresses of the reply email. When the email recipient selects "Reply" from their email client, the boxes entered with Reply To are proposed as recipients and can be updated if the user so wishes.

The maximum defined for the total sum of the attached files size is 25mb, both for File and FileReference objects.

When using the setAlias() method, the issuing account is not being masked, which is considered spam, but rather other informative data is being added.

EmailService Service Class Content

Service allows the following operation to be performed:

Operation	Description	Parameters
send(email)	Sends an email.	Email email : Email model class

Example of Use

The example contains the use of "EmailService" service class.

1- Sending an email with an attachment

In this example, an email is sent where its different sections are specified: "Recipient", "With carbon copy", "With a blind copy",

"Reply to", "Subject", "Email alias", "Email body". An invitation card generated by an external method is attached to the email (generating the file is not covered in this example).

The "EmailService" service and the "Email" model class are instantiated, and the value of their properties is indicated by means of the corresponding getters and setters of the model class. An invitation card is created, which is attached to the "Email" model class with the corresponding method.

To send the email, the send(email) method of the "EmailService" service is executed.



```
EmailService emailService = new EmailService(getApiClient());
Email email = new Email();
email.getTo().add("partner@gmail.com");
email.getCc().add("afarias@deyel.com");
email.getBcc().add("slopez@deyel.com");
email.getReplyTo().add("contact@deyel.com");
email.setSubject("Invitation to Event");
email.setAlias("Internal Communication");
email.setText("Hi Partner!!, our new webinar will be next Fri-
day..");
File invitationCardFile = createInvitationCard();
email.getAttachments().add(invitationCardFile);
emailService.send(email);
```

2- Sending an email with an attached file read from a form field

This example shows two alternatives for retrieving a file from a form. The retrieved file is sent by email.

The Java object model of a form provides <u>methods to retrieve the reference</u> to the file stored in its fields. This reference is a more efficient Java object for this type of operation and allows for faster rule processing time.

When the files retrieved from a form are sent via email, the use of the FileReference alternative is recommended.

An "Account" form instance is read using the read(account) method of the "AccountService" service class.

AccountService accountService = new AccountService(getApiClient());



```
Account account = new Account();
account.setIdAccount(50);
account = accountService.read(account);
```

File Alternative

The "filogo" field of the "Account" form is retrieved, creating a new File object and the file is sent by email.

```
File logo = accountService.getFlLogo(account);
email.getAttachments().add(logo);
emailService.send(email);
```

FileReference Alternative

The "fllogo" field of the "Account" form is retrieved, using FileReference and the file is sent by email.

```
FileReference logoReference = account.getReference FlLogo();
email.getAttachmentReferences().add(logoReference);
emailService.send(email);
```

Programming Advanced Rules with a Java IDE

To develop an advanced rule using an IDE, a series of steps must be followed.

Once the rule is created in the advanced rules modeler, it is downloaded to be included in the IDE project, it is developed and, once finished, it is imported from the context menu into the Deyel modeler.

Example of Use

This example describes the steps to develop the "getCostsWithTax" rule in the IDE.

A rule named "getCostsWithTax" is created. It receives a list of amounts as input parameter. Such list is added and the VAT cost is obtained. Returns the total VAT and the total amount of the sum as output parameter.

The "getCostsWithTax" rule invokes the "taxCalculation" rule, which receives the sum of amounts as an input parameter, in the "inputAmount" field. Returns the VAT value as an output parameter, in the "taxValue" field.



For the example, the "taxCalculation" rule is assumed to be available within the environment.

Step 1: Create the "getCostsWithTax" rule

In the rule modeler, <u>a rule is created</u> with the "getCostsWithTax" descriptive name. The previously created adapter is selected, enter a description and press "Create Rule".

An input parameter is defined:

Name	Data Type
"amountList"	Double[]

Defined as output parameters:

Name	Data Type
"totalAmount"	Double
"AmountOfTaxApplied"	Double

This rule should be related to the "taxCalculation" rule using the wizard to include related objects, from the <u>advanced properties</u> tab.

Once the parameters have been entered and the new relation has been added, select the "Save" option from the <u>top toolbar</u>.

Step 2: Download the "getCostsWithTax" rule

From the <u>top toolbar</u> of the rule modeler, select the "Download" option. The rule download includes the Java sources for developing and testing the rule.

Step 3: Setup the local environment

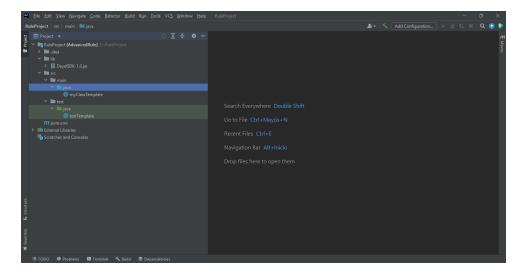
To develop the rule you need to have a <u>local environment</u> to work with Java.

Step 4: Include the "getCostsWithTax" rule in the Java IDE project



The rule download generates a file with a zip extension containing a "src" folder that respects the structure of Maven projects.

The file with zip extension should be copied to the project folder and decompressed in the same folder.



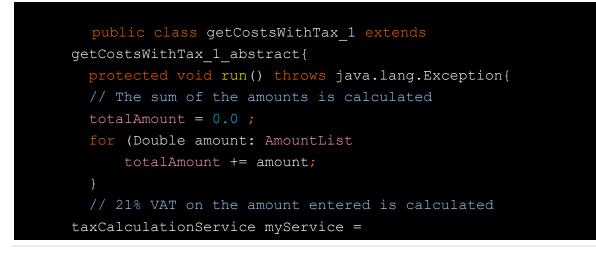
The structure of the project already configured is shown:

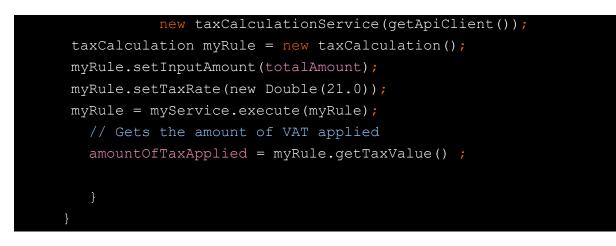
Step 5: Rule development

When the "getCostsWithTax" rule is included in the Java IDE project, two classes are obtained:

Name	Description
getCostsWithTax_1	Includes the rule logic
getCostsWithTax_1_Test	Includes the values to test from the IDE

The following code is defined in the getCostsWithTax_1 class:





Setup of the Local Environment

The steps necessary to setup the local environment to work with Java are described below. After completing these steps, the rule can be included in the Java IDE.

For projects created in a version earlier than 7.7, it is recommended to build a new project with the Maven project structure.

Step 1: Install the Java JDK

Download and install the Java JDK (Java Development Kit).

Step 2: Install an IDE of preference to work with Java

Download and install a Java IDE.

Step 3: Download the Maven Project

From the top toolbar in the <u>save submenu of the rule modeler</u> select the option "Download SDK". Downloading the Maven project, a file with a zip extension is obtained, once it is unzipped into a folder, it is subsequently imported into the project defined in the IDE.

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> 🁌 Música	lib	26/11/2021 15:14	Carpeta de archivos		
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Step 4: Create the project in a Java IDE



In order to create a project in a Java IDE it is necessary to:

• Import from the IDE the Maven project previously downloaded in the folder in Step 3. Folders will automatically be associated with the project in the IDE used.

Guide to create the project in the IntelliJ IDE

Guide to create a project in Eclipse IDE

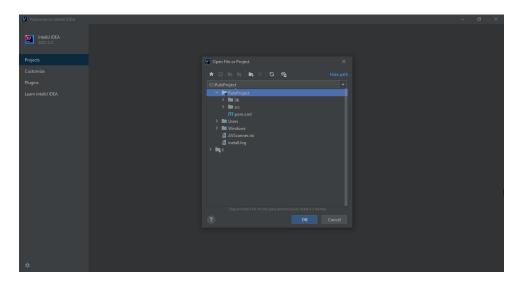
Guide to create the project in the IntelliJ IDE

The steps required to create the project in the Intellij IDE are described below.

1. Press the button corresponding to open.

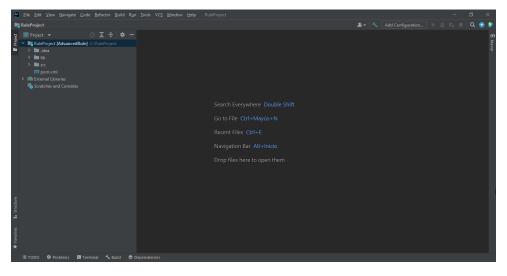


2. Select the folder in which the Maven project downloaded from **Deyel** was unzipped. Press the button corresponding to accept.





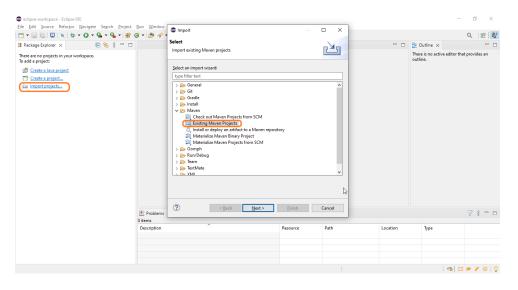
3. End of installation, the project has already been imported.



Guide to create a project in Eclipse IDE

The steps required to create a project in Eclipse IDE are described below.

1. Select "Import Projects". Choose the option "Existing Maven Projects" and press the button corresponding to next.



2. Select the folder in which the Maven project downloaded from **Deyel** was unzipped. Press the button corresponding to end.



Collipse-Workspace - Eclipse IDE File Edit Source Refactor Navigate Search Project Bun Windd □ ▼ □ □ □ □ □ □ □ □ □ ▼ □ ▼ □ ▼ 0 ▼ 0 ▼	Maven Projects	D X		E Outline ×	- c	
There are no projects in your workspace. To add a project:	Select Maven projects Boot Directory: C\MultiProject Pojects: /pom.xml com.deyel.AdvancedBule.10-SNAPSHOTjar Add project(s) to working set	Browse Select All Deselect Tree Deselect Tree Befresh		There is no active outline.	editor that prov	ides an
😰 Proble 0 items	Advancedflule Adganced				7	8 - 0
Description	() <gact next=""> Enich</gact>	Cancel	tion	Туре	2 [] = .	* @ : 0

3. End of installation, the project has already been imported.

Edit Source Refactor Navigate Search Pro						
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🗁 target	0 errors, 1 warning, 0 others Description	on Resource	Path	Location	Туре	ۍ ۲.8 د
🗁 target	0 errors, 1 warning, 0 others		Path	Location	Туре	<u>A</u> 8 c

3.7.6.2. Adapters

In **Deyel**, adapters that allow integration with different applications and platforms through the use of advanced business rules are defined. Its purpose is to exchange data and share behaviors.

An adapter encapsulates the complexity of communicating with an external component. It allows different advanced rules to use it to invoke the operations that such component exposes.

When an adapter is defined, the following is configured:

- The attributes that identify the platform with which you want to interact.
- The way to establish communication.
- The operations the software component exposes.

The definition of adapters is done using the modeling facilities.



Types

Standard

Advanced rules that do not communicate with external suppliers use the adapter:

• <u>Devel SDK</u>

The Deyel SDK adapter, for development and execution of business rules, allows the rules that use it to make use of the Deyel SDK facilities.

Within the standard adapters, those that allow access to web services from external suppliers are also used, in their different communication architectures:

- Rest API
- <u>SOAP</u>

The rules that use these adapters make invocations to specific endpoints, made up of the service URL and information about the operation to be performed. These calls can use different types of authentication, which depend on the security settings implemented by the provider.

Database

Adapters that allow to define access to relational databases through the Java JDBC protocol.

Deyel provides custom adapters for the most popular database engines on the market, facilitating configuration and optimizing interaction with such engines.

The available adapters are:

- <u>IBM/DB2</u>
- Informix
- MySQL
- <u>Microsoft SQL Server</u>
- ORACLE

The rules used by these adapters can execute SQL statements to get and write data to and from any database.

Application

These adapters allow to define access to market applications that expose services to interact with them, integrating operation between **Deyel** and such applications. Thus, the rules that use these adapters can do it safely and encapsulated.

The available adapters are:



<u>AwsTextract</u>



- Docusign
- <u>GoogleCalendar</u>
- GoogleDrive
- IDMAuthorizationCode
- Mail Reader
- <u>Mercado Libre</u>
- Mercado Pago
- <u>Niubiz</u>
- <u>OneDrive</u>
- <u>PayPal</u>
- <u>SAP</u>
- <u>Tiendanube</u>
- <u>Twitter</u>
- WhatsApp Business

For each of the adapters, with the exception of AwsTextract, an application should be created on each of the platforms in order to establish the relation between the platform and the environment of **Deyel**. When creating this application, each platform provides the necessary values to configure the connection credentials of the corresponding adapter.

In particular, to configure the Niubiz adapter, the merchant should be registered and attached to this platform, and it should be granted the corresponding merchant code.

3.7.6.2.1. Modeling Facilities

New Adapter

To define a new adapter, the modeling user must select its type from a gallery.

	IBM DB2	Inform <i>i</i> x	MySQL	🖉 SQL Server	
API Rest	DB2 (9.5 - 10.5)	Informix (11.70.FC7)	MYSQL (5.7)	Microsoft SQLServer (2012 - 2019)	
Standard	Database	Database	Database	Database	
ORACLE	SAP	SOAP			
ORACLE (11.2.0.4 to 21.5)	SAP	SOAP			
Database	Application	Standard			

In the gallery, for each adapter, the type it belongs to is displayed, and its version is displayed only if applicable. Once the type is selected, go to the properties panel of each one to define its own characteristics.



Workspace Sections:

- <u>Top Toolbar</u>
- Adapter Definition Area

3.7.6.2.1.1.Top Toolbar

This toolbar contains icons and submenus from which operations on the adapter can be performed.

The bar is displayed on the toolbar of **Deyel**.

externalDatabase		Integration Guide
lame * externalDatabase	Description * Adapter Permissions External Database	(\mathfrak{G})
ierver Name * chaterdeyel-database cluster-ro-chvimrqtqmbr atabase Name * demo1 Connection URL : jdbc.mysqt//clusterdeyel-datab tutes using this adapter	Port* 2444 User* Key* dbadmin ase cluster-ro-chv/mrqtgmbm.us-east-1.rds amazonaves.com:24444/demo1	Integration with MYSQL (5.7) The integration with database servers allows you to access information external to Deyel and work with through advanced rules that you can include in your own processes and forms. First, as you can see in the example , you must define the necessary information to configure the connection:
Name Descript	on Q	 Enter the Server Name (you can indicate the IP address of the dovice). Enter the Port (the default port is 3366). Enter the Database Name Finally, enter the User and Key with which the connection will be established. By pressing the Authenticate button you will be able to validate

R Save

This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". It is verified that certain conditions are met.

Main Conditions

- The name must be unique.
- All the fields indicated as required must be complete.

Publish

By means of this icon the object goes to "Published" state, after verifying a set of additional conditions to those of the "Save" operation.

As for integration adapters with services from other platforms, authentication is performed. On the other hand, if it is a database integration adapter, the connection is tested.

Main Conditions

- Integration adapters with services from other platforms require valid URLs, authentication methods and other attributes of the connection such as user, token or keys.
- Database integration adapters require valid specified values for the server name, database, schemas, users, and user password used to establish the connection.



Delete

Allows to delete the object only if it is in "Draft" <u>state</u>, closing the tab in which it is located and deleting it from the modeler's grid. This operation is not available for predefined adapters.

Delete Publication

This icon allows to remove the adapter from use by returning it to the state "Draft".

3.7.6.2.2. Definition Area

The definition area consists of a panel with the adapter properties and an integration guide that assists and guides the modeler. Depending on each adapter, it may contain examples of use or references to external sites that facilitate configuration.

The adapter properties can be entered both at the time of their creation and when modifying an existing one. Each adapter allows configuration of specific properties, although they share some, for example the name that identifies them.

≡	*	•			Horne Tasks Calendars Cases Messages Bryte 🥵
	New Ada Adapter for Si			SAP	Integration Guide
	Adapter Type	Nama" URL of the REST API Web Service" Koy*	Description*		<image/> <section-header><section-header><text><text><text><section-header><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></section-header></text></text></text></section-header></section-header>
A Horn	Sr New Ada	apter 1 34			

An asterisk "*" on the label indicates that the property is required.

Properties

In addition to these shared properties, each type of adapter has specific properties.

Name

Name of the adapter that uniquely identifies it. It is mandatory. Identifier that is displayed in the modeler's grid and selecting the adapter when creating an advanced rule.

Description



Text that defines the adapter describing its functionality. It is mandatory. This description is displayed along with its name by selecting the adapter when creating an advanced rule.

Standard Adapters

- Rest API
- Deyel SDK
- <u>Soap</u>

Database Adapters

- <u>IBM/DB2</u>
- Informix
- <u>Microsoft SQL Server</u>
- <u>MySQL</u>
- <u>Oracle</u>

Application Adapters

- <u>Azure AD</u>
- AwsTextract
- Docusign
- <u>GoogleCalendar</u>
- GoogleDrive
- IDMAuthorizationCode
- Mail Reader
- Mercado Libre
- Mercado Pago
- <u>Niubiz</u>
- OneDrive
- <u>PayPal</u>
- <u>SAP</u>
- <u>Tiendanube</u>
- <u>Twitter</u>
- WhatsApp Business

3.7.6.2.2.1.Twitter

Deyel allows integration with the Twitter platform through this adapter. In it, the connection credentials are registered and the interaction of the network users of **Deyel** with Twitter can be centrally managed.

From their profile, each user can enter their credentials to access their Twitter account so that **Deyel** uses them when connecting on its behalf, for example, to publish a post.

Steps for Integration with Twitter

- <u>Register an application on Twitter</u> that identifies the instance of **Deyel**.
- Model the properties of the Twitter adapter detailed below.



• Users must authorize **Deyel** to use the Twitter account from their profile.

Properties

Apart from properties shared by adapters those specific to Twitter are added.

TwitterAdapter			y	Integration Guide
Vame * TwitterAdapter Consumer Key * thpoxKh7NB2bEQODoWGv2ev7 JRL Callback * https://english74.deyel.com/Auth			Adapter Ptermissions	Integration with Twitter The integration with Twitter The integration with Telefacture of the first allows you to head of a subfacture of the integration of the inte
Rufes using this adapter Name Name Name Name Name Name Name Name	Description New Tweet Rule that tweets for the user and with the specified is	nesage	٩	1. Sign is to Twitter, Use the USE (Calification value to register your Days) environment of an inflation of Consumer Key and Consumer Secret values obtained in the 3. Pictus the Adventures to turn to value the information environment of a 3. Pices the Adventures to turn to value the information environment of 4. Pices the Publish horts to make the adapter available for use. Then, through the Days) Integration Rules, you can use this adapter by accessing the available services provided by Twitter.
sers with integration	Account	Enabled	٩	

An asterisk "*" on the label indicates that the property is required.

Consumer Key

Identification key of the service that Twitter issues when creating an application on its platform.

Consumer Secret

Secret key associated to the property Consumer Key, are used together when requesting access to the resources provided by the platform.

URL Callback

This property must be defined when creating the application on Twitter and corresponds to the URL that handles the return of requests for services that are made from the **Deyel** environment to the Twitter platform.

The value for this property must be composed with the name of the environment Deyel https://.deyel.com/AuthorizationCodeCallBack.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

Users with integration

This grid shows users who have configured the integration with Twitter in their <u>profile</u> and the state of each one, which can be enabled or disabled. The state can be modified from each line.

Example of Use



In a content publishing management process, an activity can publish a tweet automatically.

≡ -	🛃 🕂 🗎	 abject inspector 	< Properties	V Publish					Home	O Taska	Calendars	Cases	Messages	8+ Invite	8
	Send Tweet						Tweet							`	××
♦ 0 ○ 0 □ ◇ \						Alerts Addons General	Automatic Actions New + Name * Mil First Treet Rule parameters Nome ① pCctUser ① pMossage	Data Type String String	₩0 →	Rule * Tweet v Value AFAF my N					۹
						Advanced	Event that triggers the according Upon sending	tion	×				Canor	e Sa	ave
A Horne	18 (GLOBAL) Send Tweet v1 X														

It must be a <u>rule</u> type activity and as an <u>automatic action</u> it invokes a "Tweet v1 - Rule" rule that publishes a tweet to the user with the specified message. The user that publishes the tweet and the message are reported as parameters.

3.7.6.2.2.2. Mercado Libre

Apart from properties shared by adapters those specific to Mercado Libre are added.

MercadoLibre • Type : Mercado Libre		¢	mercado (i) Inte	gration Guide
Name * MercadoLibre Web Service URL *	Discription * Rules of integration with MercadoLib	Adapter	Permissions	ation with Mercado Libre
https://api.mercadolibre.com Cliont ID * afarias.fa@gmail.com Rules using this adapter	Client Secret *	Auth URL https://auth.mercadolbre.com.ar	Integratio products possibiliti With this	Autory with interfecture Linker on with Mercado Libra allows you to add a sales channel to offer your and services is a large audience, expanding your commercial as promoting your band or business. Adapter you can, for example, check the orders received and the the signment made.
Name	Description		Q These an	d many other functionalities are accessible through the services on the Mercado Libre platform that you can use in your Rules Deyel
Users with Integration	Account	Enabled	٩	

An asterisk "*" on the label indicates that the property is required.

Web Service URL

Corresponds to the URL that attends requests for services that are made from the **Deyel** environment to the Mercado Libre platform.



Client ID

Identification of the service that Mercado Libre issues when creating an application on its platform.

Client Secret

Secret key associated to the Client ID property, they are used together when requesting access to the resources provided by the platform.

Auth URL

Corresponds to the Mercado Libre URL against which the authentication must be performed.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

Users with integration

In this grid you can see the users who have the Mercado Libre integration configured and the state of each one, which can be enabled or disabled. The state can be modified from each line.

3.7.6.2.2.3. Tiendanube

Apart from properties shared by adapters those specific to Tiendanube are added.

E 🛃 🕂 👫 🗸 🍕	Publish			👫 🍱 🛗 🗔 🗩 😫
TiendaNube			C tiendanube	Integration Guide
Name " TiendaNube	Description * Rules of Integration with Tienda Nube		Adapter Permissions	(Y)
Web Service URL * https://apl.tiendanube.com/v1/				Integration with Tienda Nube
Client ID *	Client Secret *	Store ID *		The integration with Trendenube allows you to access your store, being able to publish in it and access all the information on the evolution of your sales.
2680 Auth URL		121212		The way to do it with Deyel is very simple:
Rules using this adapter				Register your application in Tiendanube. Einter the Client ID. Client Secret and Store ID codes that you obtained in step 1 S. Press the AuthentiCate butten to validate the information entered.
Nano Descriptor			٩	4. Press the Publish button to make the adapter available for use. Then, through the Depet Integration Rules, you can use this adapter by accessing the available services provided by Tendanube.

윤 Home & Adapter - TiendaNube 🗙

An asterisk "*" on the label indicates that the property is required.

Web Service URL

Corresponds to the URL that handles the return of requests for services that are made from the **Deyel** environment to the Tiendanube platform.

Client ID

Identification of the service that Tiendanube issues when creating an application on its platform.

Client Secret

Secret key associated to the Client ID property, they are used together when requesting access to the resources provided by the platform.



Store ID

It is the unique identification of the store in Tiendanube

Auth URL

It corresponds to the URL of Tiendanube against which the authentication must be performed.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.4. Deyel SDK

Apart from properties shared by adapters the grid of rules used by the adapter is added.

dapterSDK • pe : SDK Java		SDK (i) Integration Guide
rme * klapterSDK	Description * Adapter SDK	Adapter Premissions
ules using this adapter	Description	Q Bizarias
		For this adaptor to be available for one, you must press the Publish I make the adaptor available for one. Then, through the Deyd Integration Rules, you can use this adaptor accessing the services available .

An asterisk "*" on the label indicates that the property is required.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.5. DocuSign

Apart from properties shared by adapters those specific to DocuSign are added.



E 🛃 🕂 👫 🗸 🕨	v		👫 🍱 🛗 🗋 🗩 (1)
docusign • Type : DocuSign		Docu Sign	Integration Guide
Name * docusign User ID *	Description * Docusign Integration Key *	Adapter Permissions	Integration with DocuSign
a1ab7b11-b062-4b2e-8b22-77a70f79d89a RSAPrivateKey *		https://account-d.docusign.com	Integration with DocuSign enables you to have access to a series of
— BEGIN REA.PRIVATE KK/	Chimu, Dipo, Wolf, Hub JT 2004, Ball Chimu, Hub Zin, Yu Ma 2004, Ball Chim, Hub Zin, Yu Ma Fibiha, Wang Chim, Sharon, Sharon, Sharon, Sharon, Sharon, Sharon, Sharon, Sharon, Sharon, Sharon, Sharon, Sharon, Sharon, Sharon,	a	applications that allow the implementation of electronic signature as well as the generation of network of appearements. The way to do it with Dayel Is very simple: 1. Register your application in DacaSign. Use the URL Caliback value to negative your Dayel environment on DacaSign. 2. Entre the Interpletion Key User Day and USBNPreatofiely key flat you distingt in key 1. 3. Press the Arabitish State and USBNP and USBNP and 2. For the Interpletion Key User Day and USBNP and USBNP key flat you distingt in key 1. 3. Press the Arabitish battens to make the adapter available for tags. Then, therough the Dayel Integration Rules, you can use this adapter by accessing the available services provided by DocuSign.
Home Gr Adapter - docusign X			

An asterisk "*" on the label indicates that the property is required.

User ID

Identification of the user account registered in DocuSign.

Integration Key

Identification key of the service that DocuSign issues when creating an application on its platform.

Environment

Corresponds to the DocuSign URL against which APIRest operations are performed, it can be the production environment or the development environment. This URL can be obtained in the properties of the application registered in DocuSign under the name "Account Base URI".

RSAPrivateKey

Secret key associated to the Integration Key property, they are used together when requesting access to the resources provided by the platform.

URL Callback

This property must be defined when creating the application on DocuSign and corresponds to the URL that handles the return of requests for services that are made from the **Deyel** environment to the DocuSign platform.

The value for this property must have the name of the environment Deyel https://.deyel.com/AuthorizationCodeCallBack.

Rules using this adapter

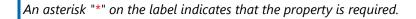
In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.6. AwsTextract

Apart from properties shared by adapters those specific to AwsTextract are added.



wsTextract pe : AWS Textract		a	Integration Guide
ime * wisTextract	Description * Reglas de integración con AW		nissions
cess Key * 'assword rvice URL : https://textract.s les using this adapter	Secret Køy *	Region on AWS * South America(Sao Pablo)	 Integration with AWS Textract Integration with AWS Textract allows you to detect and analyz withen and handwrithen text from various types of documents, such as financial reports, medical records, and tax forms, and others.
Name	Description		The way to do it with Deyel is very simple: 1. Sign up for AWS Textract. 2. Enter the Access Key and Secret Key values obtained in 1. 3. Press the Authenticate button to validate the information entered. 4. Press the Publish button to make the adapter available for use. Then, through the Deyel Integration Rules, you can use this adapter by accessing the available services of your AWS Tex installation.



Access Key

Identification key of the service that AwsTextract issues when creating an application on its platform.

Secret Key

Secret key associated to the property Access Key, are used together when requesting access to the resources provided by the platform.

Region on AWS

Indicates the location of the services to be used. The region determines the transaction processing quotas, based on the <u>documentation</u>.

Service URL

This property is filled in automatically when selecting the Region on AWS property.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.7. GoogleCalendar

Integration with Google Calendar allows to manage calendars from **Deyel**. For example, events can be created or updated with associated conferences via Google Meet.

Apart from the properties shared by adapters, those specific to GoogleCalendar are added.



An asterisk "*" on the label indicates that the property is required.

API Key



Access key to the service issued by GoogleCloud when creating an application on its platform.

Client ID

Identification of the service that GoogleCloud issues when creating an application on its platform.

Client Secret

Secret key associated to the Client ID property, they are used together when requesting access to the resources provided by the platform.

Email Address

Account associated and owner of the GoogleCloud space.

URL Callback

This property should be defined when creating the application on Google Cloud and corresponds to the URL that handles the return of requests for services that are made from the **Deyel** environment to the Google Calendar platform.

The value for this property must have the name of the **Deyel** environment: https://<miambiente>.deyel.com/AuthorizationCodeCallBack.

It is a predefined, non-editable value.

3.7.6.2.2.8. GoogleDrive

Apart from properties shared by adapters those specific to GoogleDrive are added.

ime *		Description *	Adapter Permiss	
GoogleDrive		Rules of integration with Google Drive		
PI Key *				Integration with Google Drive
ifarias.fa@gmail.com				
ent ID •		Client Secret *		The integration with GoogleDrive allows authorized users to use this service as a repository for their documents in their processe
arias.fa@gmail.com				and forms.
ail Address *				The way to do it with Deyel is very simple:
arias.fa@gmail.com				1. Sign in to GoogleDrive. Use the URL Callback value to
. Callback *				register your Deyel environment on GoogleDrive. 2. Enter the Client ID, Client Secret and API Key values
tps://english74.deyel.co	m/AuthorizationCodeCallE	Back		obtained in step 1.
				 Press the Authenticate button to validate the information entered.
es using this adapter				 Press the Publish button to make the adapter available for use.
Name	Description		c	
				Then, through the Deyel Integration Rules, you can use this adapter by accessing the available services provided by
				GoogleDrive.

An asterisk "*" on the label indicates that the property is required.

API Key

Access key to the service that Google Drive issues when creating an application on its platform.

Client ID

Identification of the service that Google Drive issues when creating an application on its platform.

Client Secret



Secret key associated to the Client ID property, they are used together when requesting access to the resources provided by the platform.

Email Address

Associated account and owner of the Google Drive space.

URL Callback

This property should be defined when creating the application on Google Drive and corresponds to the URL that handles the return of requests for services that are made from the **Deyel** environment to the Google Drive platform.

The value for this property must have the name of the **Deyel** environment: https://<miambiente>.deyel.com/AuthorizationCodeCallBack.

It is a predefined, non-editable value.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

Predefined Rules

There are predefined rules in **Deyel** to use the adapter, they perform operations using the Google Drive API.

Name	Description	Parameters
insertFileInGoogleDrive	Adds a file within the Google Drive account con- figured on the adapter.	 Input pFile: File to be added in Google Drive. parentld: Identifier of the directory in which the file is added. It can be ob- tained from the URL of the current Google Drive directory. <u>Output</u> fileld: Identifier of the file added in Google Drive.
insertNewFileInGoogleDri- ve	Adds a file within the Google Drive account. De- termines whether its access is public or not, by assign- ing a permission type and a role to a specific user.	 Input pFile: File to be added in Google Drive. parentld: Identifier of the directory in which the file is added. It can be ob-



Name	Description	Parameters
		 tained from the URL of the current Google Drive directory. type: Indicates the type of permission being added. Possible values are: "us- er" or "anyone". role: Indicates the role associated to the type of permission being added. Possible values are: "writer", "reader". cdUser: User code of Deyel to whom permission is granted. title: File name with which it is added in Google Drive. If the parameter is not filled in, the file is added with the original file name. Output fileld: Identifier of the file added in Google Drive. alternateLink: URL obtained from the added file to be used according to the permissions obtained. permissional: Identifier of the per- mission associated to the file added in Google Drive.
deleteFileInGoogleDrive	Deletes a certain file from the Google Drive account.	 Input fileId: Identifier of the file stored in Google Drive to be deleted.
getFileFromGoogleDrive	Gets the link of a certain file from the Google Drive account.	 Input fileId: Identifier of the file stored in Google Drive to be obtained. <u>Output</u> alternateLink: URL of the file ob- tained to be used according to the permissions of the current user.



Name	Description	Parameters
createCopyFileFromGoo- gleDrive	Makes a copy of a certain file from the Google Drive account. Its name should be provided. By default, it is generated with the name of the original file, concat- enating the "-copy" value.	 Input fileld: Identifier of the file stored in Google Drive to be copied. nameOfCopy: Indicates the name under which the file copy is generat- ed. This parameter is optional. If it has no value, the name of the copied file will be that of the original file concat- enated with "-copy". Output alternativeLinkOfCopiedFile: URL of the file copied to be used according to the permissions of the current user. fileldCopied: Identifier of the file copied in Google Drive.
createPermissionInGoo- gleDriveFile	Adds a permission, either to read or to read and write, to a specific file in the Google Drive account for a specific user.	 Input fileld: Identifier of the file stored in Google Drive to be added a permission. type: Indicates the type of permission being added. Possible values are: "user" or "anyone". role: Indicates the role associated to the type of permission generated. Possible values are: "writer", "reader". cdUser: Code of Deyel user to whom permission is granted. Output permissionId: Identifier of the per- mission created and associated to the Google Drive file.
deletePermissionInGoo- gleDriveFile	Deletes permissions for a specific user on a certain file in the Google Drive account.	 Input fileld: Identifier of the file stored in Google Drive which permissions are to



Name	Description	Parameters
		 be deleted. cdUser: Code of Deyel user whose permissions are removed.
getPermissionFromGoo- gleDriveFile	Gets a permission associated with a certain file in the Google Drive account.	 Input fileld: Identifier of the file stored in Google Drive whose permission is to be obtained. permissionId: Identifier of the per- mission associated to the Google Drive file. Output permissionType: Indicates the type of permission. Possible values are: "user", "group", "domain", "anyone". permissionRole: Indicates the per- mission role. Possible values are: "owner", "organizer", "fileOrganizer", "writer", "commenter", "reader". permissionUser: Indicates the user to which the permission is associated.
get Permissions From Goo- gle Drive File	Gets all permissions associ- ated with a certain file in the Google Drive account.	 Input fileld: Identifier of the file stored in Google Drive whose permissions are to be obtained. Output listOfPermissions: List containing the permissions associated with the Google Drive file.
exportToPdfGoogleDriveFi- le	Generates a temporary file in PDF format from a cer- tain file stored in Google Drive. The name of the PDF file can be indicated through the fileName pa- rameter, by default it is the	 Input fileld: Identifier of the file stored in Google Drive to be generated in PDF format. fileName: Name used for the file



Name	Description	Parameters
	identifier concatenated with the extension ".pdf".	generated as PDF.
	with the extension .put .	<u>Output</u>
		• pdfFile : File obtained from Google Drive in PDF format.

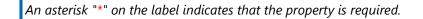
These rules are in "Draft" <u>state</u> and should be published by a user with <u>administrator permis-</u> <u>sions</u>, The Google Drive adapter should be previously published.

3.7.6.2.2.9. OneDrive

Apart from properties shared by adapters those specific to OneDrive are added.

DneDrive			Image: Portuge Image: Cale
Vype : OneDhive	Description * Adapter for integration with OneDrive	Adapter Permissions	(B)
Client ID * afarias	Client Secret *	Scope * Files.Read.offline_access	Integration with OneDrive
JRL Callback * https://english74.deyel.com/AuthorizationCodeCallBack Rules using this adapter			The integration with OreADPv allows authorized users to use this services as a repository for their documents in their processes and forms The way to do it with Dayel is very simple: 1. Sign is to OneDPve. Use the URI, Caliback value to register your Dayel
Name Description	<u>.</u>	<u> </u>	 Signs is to definitely the diverse characterized in legislar year large 20 and the diverse of the diverse of the diverse of the diverse of the 20 contracts of the diverse of the diverse of the diverse of the diverse 20 contracts of the diverse of the diverse of the diverse of the 20 contracts of the diverse of the diverse of the diverse of the diverse of the 20 contracts of the diverse of the diverse of the diverse of the diverse of the 20 contracts of the diverse of the div

Adapter - OneDrive 🗙



Client ID

Identification of the service that OneDrive issues when creating an application on its platform.

Client Secret

Secret key associated to the Client ID property, they are used together when requesting access to the resources provided by the platform.

Scope

Determines what type of access is granted to the application when the user logs in, based on <u>docu-</u><u>mentation</u>.

URL Callback



This property must be defined when creating the application on OneDrive and corresponds to the URL that handles the return of requests for services that are made from the **Deyel** environment to the GoogleDrive platform.

The value for this property must be composed with the name of the environment Deyel https://.deyel.com/AuthorizationCodeCallBack.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.10. Mercado Pago

Apart from properties shared by adapters those specific to Mercado Pago are added.

MercadoPago O		mercado pago	i Integration Guide
ame * MercadoPago	Description * Adapter for integration with Mercado Pago	Adapter Permissions	(B)
eb Service URL *			Integration with Mercado Pago
Intps://api.mercadopago.com lent ID * 17108606423111 ules using this adapter	Client Secret *	Auth URL https://auth.mercadopago.com.ar 🗸	Mercado Pago offers several payment solutions that allow you receive payments online or in parson at your store. You can of your customers payment methods, without contracts or month fees, through integrations in your online store. With this adapter you can, for example, check the payments received and their status.
Name [Description	<u> </u>	These and many other functionalities are accessible through th available services in the Marcado Page platform that you can o in your Integration Rules of Deyel .

An asterisk "*" on the label indicates that the property is required.

Web Service URL

Corresponds to the URL that handles requests for services that are made from the **Deyel** environment to the Mercado Pago platform.

Client ID

Identification of the service that Mercado Pago issues when creating an application on its platform.

Client Secret

Secret key associated to the Client ID property, they are used together when requesting access to the resources provided by the platform.

Auth URL

Corresponds to the Mercado Pago URL against which the authentication must be performed.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.



3.7.6.2.2.11. API Rest

Apart from properties shared by adapters those specific to API Rest are added.

pe : API Rest				Integration Guide
ame * Rest Rule eb Service URL *	Descriptic Rest Ru		Adapter Permissions	Integration with API Rest
ttp://myenvironment.com/v1.0	D/)	
	Authentication * Bearer Token	• 📀 No Authentication *		API Rest integration allows you to access objects and functions provide by your own or third party API Rest Web Services. The way to do it with Deyel is very simple. 1. Enter the Web Service URL.
les using this adapter	Description		Q	2. Enter the Authentication Method. If you select API Key, you must indicate the values of Key,
Name	ossenpuon			Value and Parameters add to. If you select Basic Authentication, you must indicate the Use

Adapter - Rest Rule 🗙

An asterisk "*" on the label indicates that the property is required.

Web Service URL

Address of the Rest service with which it is being integrated.

Authentication Method

Identifies the way **Deyel** must authenticate with the service depending on the security scheme it implements.

The possible schemes are:

- ApiKey: in this case the service platform generates a combination of unique values called Key and Value. In addition to these values, the value for the property Parameters add to must be indicated, where it is specified in which way the parameters should be sent to the service, it can be done in the Header or as Query Params.
- Basic Authentication: it is the simplest authentication scheme. It must specify the User and Password, provided by the participant responsible of the service.
- Bearer Token: it is a scheme similar to ApiKey but in this case it must specify the Token, which is generated by the service.
- No Authentication: it does not require any access validation.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.12. Soap

Apart from properties shared by adapters those specific to Soap are added.



= 🛃 🕂 🤻 🎽 🗛				Home Tasks Calendars Cases Messages Invite
adapterSOAP			SOAP	① Integration Guide
Name * Description * adapterSOAP SOAP		Adapter	Permissions	(Y)
Service URL* https://engleh74.deyel.com/services/Workflow WSDL URL* https://engleh74.deyel.com/services/Workflow?vrsdl				Integration with SOAP SOAP Integration allows you to access objects and functions provided by your own or third-party SOAP Web Services.
Port * Service * Workflow WSWorkflow/mplService Rules using this adapter	Axis *	Standard •		The way to do it with Deyel is very simple: 1. Enter the Service URLs and the WSDL URL. 2. Enter the Port and the name of the Service you want to use. 3. Indicates the type of the Provider 4. Press the Authenticate button to validate the information entered
Name Description			٩	entered. 5. Press the Publish button to make the adapter available for use. Then, through the Deyel Integration Rules, you can use this adapter to consume the defined service.
A Home Cr Adapter - adapterSDAP x				

Service URL

Address of the SOAP service with which you want to integrate.

WSDL URL

Address where the definition of the SOAP service classes and methods is obtained.

Port

Port number used by the SOAP service.

Service

It is the name of the service class.

Authentication Method

Identifies how Deyel will authenticate with the service. Possible values are:

- Axis
- Standard

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.13. IBM/DB2

Apart from properties shared by adapters those specific to IBM/DB2 are added.



Adapter Permission myconnectionBB2 B2 Server Name * Pert* Keathoat 5000 Database Name * Schama Name * Option * Option * Bysi DEYEL Adapter Menter * Rules using this adapter Option * Name * Description * Name * DertyL Rules using this adapter Option * Name * Description * Name * Description * Name * Defter * Name * Defter * Name * Description *				IBM DB2	Home Calendars Cases Messages Links Colendar Cases Integration Guide
Integration vinit OD22 Ostabase Name* Schema Name* User* Key* deyel DEYEL db2nst1 mme* Description Q 2. Enter the Server Name you can link data the 15(21). 2. Enter the Server Name you can link data the 15(21). 2. Enter the Server Name you can link data the 15(21). 3. Enter the Server Name you can link data the 15(21). 3. Enter the Server Name you can link data the 15(21). 3. Enter the Server Name you can link the connection will be server.	Name * myConnectionDB2	Description *	Adapter	Permissions	Ś
deyel DEYEL mean The integration with database servers allows you to access information external to beyl and work with through advanced rules that you can include in your own processes and forms. Connection URL : jthc:db2/l/localhost 5000/deyel currentSchema=DEYEL First of all, as you can include in your own processes and forms. Rules using this adapter First of all, as you can see that be complex. First of all, as you can see that be complex. Name Description Q 2. Enter the Server Name (you can indicate the IP address of the device). 3. Enter the Database Name 4. Enter the Server Name (you can indicate the IP address of the device). 5. Finally, reint the User and Key with which the connection will be stabilized.					
Rules using this adapter 1. Enter the Server Name (you can indicate the IP address of the device). Name Description Q 2. Enter the Database Name Line the Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP address of the device). Server Name (you can indicate the IP addres).	deyel	DEYEL			information external to Deyel and work with it through advanced rules that you can include in your own processes and forms. First of all, as you can see in the example , you must define the
Name Description Q 2. Enter the Port (the default port is 521). 3. Enter the Database Name 4. Enter the Scheme Name you are going to use. 5. Finally, enter the UBEr and Key with which the connection will be established.	Rules using this adapter				1. Enter the Server Name (you can indicate the IP address of
	Name Descripti	on		<u>Q</u>	2. Enter the Port (the default port is 1521). 3. Enter the Database Name. 4. Enter the Scheme Name you are going to use. 5. Finally, enter the User and Key with which the connection will be established.

Server Name

Name or IP address of the server where the database engine is installed.

Port

Port number used by the database engine.

Database Name

Corresponds to the identification of the database with which you want to integrate.

Schema Name

Name of the schema within the database with which you want to integrate.

User

Identification of the database user that has permissions on the schema.

Key

Password of the database user making the connection.

Connection URL

Shows the connection string for the adapter.

Allows to copy the connection URL.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and its definition can be shown from each line.

3.7.6.2.2.14. Informix

Apart from properties shared by adapters those specific to Informix are added.



nyConnectionInformix • ype : Informix (11.70.FC7) - Driver : IBM Informition	nix Dynamic Server Version 11.70.FC7	Inform <i>i</i> ×	Integration Guide
ame * myConnectionInformix	Description * Connection to production Informix	Adapter Permissions	(Y)
erver Name * 190.122.80.68	Port *)	Integration with Informix (11.70.FC7)
atabase Name * Accounting onnection URL : jdbc:informic-sqli://190.122.1	Informix Server * User * User * admin 80.68.9088/Contabilidad informicserver=PRODUCCION	Key *	The integration with database servers allows you to access information external to Deyel and work with it through advanced rules that you can include in your own processes and forms. First of all, as you can see in the example , you must define the necessary information to confluence the connection.
ules using this adapter			1. Enter the Server Name (you can indicate the IP address of
Name Descri	ption	<u> </u>	the device) 2. Entric the Dort (the default port is 9068). 3. Entric the Database Name 4. Entric the Informatic Server you are going to use. 5. Finally, eater the User and Key with which the connection will be established.

Server Name

Name or IP address of the server where the database engine is installed.

Port

Port number used by the database engine.

Database Name

Corresponds to the identification of the database with which you want to integrate.

Informix Server

Name of the server that manages the database with which you want to integrate.

User

Identification of the database user that has permissions on the schema.

Key

Password of the database user making the connection.

Connection URL

Shows the connection string for the adapter.

Allows to copy the connection URL.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.15. MySQL

Apart from properties shared by adapters those specific to MySQL are added.



externalDatabase ype : MYSQL (5.7) - Driver : MySQL Driver 5.1 fr	or MySQL Server 5.6, 5.7 and 8	Integration Guide
iame * externalDatabase lierver Name * clusterdeyel-database cluster-ro-chvimrqtqmbr Database Name * demo1 Connection URL : jdbc:mysqt://clusterdeyel-data	Adapter Permissions Description * Edemail Database Pont * 24444 User * Koy * dbadmin	Integration with MYSQL (5.7) The triggation with database servers allows you to access isformation external to Days and work with it through advanced rules that you can include in your own processes and forms. Fritt, as you can see in the example , you must define the necessary information to configure the connection:
Rules using this adapter		1. Enter the Server Name (you can indicate the IP address of
Name Descript	ion Q	the device). 2. Enter the Port (the default port is 3396). 3. Enter the Database Name 4. Finally, enter the User and Key with which the connection will be established.

Server Name

Name or IP address of the server where the database engine is installed.

Port

Port number used by the database engine.

Database Name

Corresponds to the identification of the database with which you want to integrate.

User

Identification of the database user that has permissions on the schema.

Key

Password of the database user making the connection.

Connection URL

Shows the connection string for the adapter.

Allows to copy the connection URL.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.16. Microsoft SQL Server

Apart from properties shared by adapters those specific to Microsoft SQL Server are added.



■ 🕹 🕂 🖌 × 🕨 × sine × Patient × myConnectionSQLServer •	Sol Server	Home Tasks Calendars Cases Messages Invite Sec.
Type : Microsoft SQLServer (2012 - 2019) - Driver : Microsoft JDBC Driver 6.4.0 for SQL Server 2008R2 to 2017		\frown
Name * Description * (myConnectionSQLServer) Connection to Microsoft SQL Server	Adapter Permissions	(B)
Server Name* Port* FMA-SQL02 [1433 Database Name* User* Key*	,	Integration with Microsoft SQLServer (2012 - 2019) The integration with database servers allows you to access
ACME admin		information external to Deyel and work with it through advanced rules that you can include in your own processes and forms. First of all, as you can see in the example , you must define the necessary information to configure the connection:
Rules using this adapter Name Description	<u>q</u>	Enter the Server Name (you can indicate the IP address of the device). Z. Enter the Port (the default port is 1433). S. Enter the Database Name.
		 Finally, enter the User and Key with which the connection will be established.
A Home & Adapter - myConnectionSQLServer *		

Server Name

Name or IP address of the server where the database engine is installed.

Port

Port number used by the database engine.

Database Name

Corresponds to the identification of the database with which you want to integrate.

User

Identification of the database user that has permissions on the schema.

Key

Password of the database user making the connection.

Connection URL

Shows the connection string for the adapter.

Allows to copy the connection URL.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.17. Oracle

Apart from properties shared by adapters those specific to Oracle are added.



🕹 > 🕂 😫 -	Publish V	home 🚉 🛅 🖨 🔎 💱
myConnectionOracle Type : ORACLE (11.2.0.4 to 21.5) - Driver : Oracle	ORACLE"	Integration Guide
Name * myConnectionOracle	Description * Permissions Oracle connection	(Y)
Server Name * ORA_PROD Schema Name * Budgets Connection URL : jdhc oracle thin @ORA_PRI	Port*	Integration with ORACLE (11.2.0.4 to 21.5) The integration with database servers allows you to access information external to Deyel and work with through advanced rules that you can include in your own processes and forms. First of all, as you can see in the example , you must define the
Rules using this adapter		necessary information to configure the connection: 1. Enter the Server Name (you can indicate the IP address of the device).
<u>Name Descri</u>	ption Q	2. Enter the Port (the default port is 1521). 3. Enter the Scheme Name you are going to use. 4. Finally, enter the User and Key with which the connection will be established. By pressing the Authenticate button you will be able to validate the information entered. And once you want, press the Publish button to make the adapter available for use. Then, through the Devin Information Rules, you can use this adapter to access the configured database objects.
A Home 🖉 Adaptador - myConnectionOracle 🗙		

Server Name

Name or IP address of the server where the database engine is installed.

Port

Port number used by the database engine.

Schema Name

Name of the schema within the database with which you want to integrate.

User

Identification of the database user that has permissions on the schema.

Key

Password of the database user making the connection.

Connection URL

Shows the connection string for the adapter.

Allows to copy the connection URL.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.18. SAP

Apart from properties shared by adapters those specific to SAP are added.



🗏 🕂 🕂 📴 V 🍋 V	Rome Cases Messages Invite
sapAdapter • Type: SAP	Integration Guide
Name* Description* apAdapter Sap	(Y)
URL of the REST API Web Service * https://sandbox.api.sap.com/s4hanacloud/sap/opu/odata/sap/	Integration with SAP The integration with SAP allows you to synchronize business
Key * Value * APlKey	Information and processes such as Inventory Management, Budget Control, Sales, etc. To configure it, you can see the following example , where you define the information necessary to configure the integration.
Rules using this adapter Name Description Q	The way to do it with Deyel is very simple:
	 Get the value of your Api Key in SAP. Enter the values of the Api Key obtained in step 1, filling in the Key and Value fields. Enter the URL of the Web Service REST API of your SAP
	Installation. 4. Press the Authenticate button to validate the information entered. 5. Press the Publish button to make the adapter available for use.
Home & Adater - saAdater x	Then, through the Deyel Integration Rules, you can use this

URL of the REST API Web Service

Service URL of the SAP environment with which it is integrating.

Key

Identifier that serves as a means of authentication to use of the service, provided by the SAP environment.

Value

Key associated to the property Key, also provided by the SAP environment.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.

3.7.6.2.2.19. IDMAuthorizationCode

It is used to store properties when user authentication is performed on an <u>external Identity Manager</u> using the Authorization Code flow.



🕹 🕂 🕂 🕂 🕹	blish		Home Tasks Calendars Cases Messages Invite
IDMAuthorizationCode O Type : IDMAuthorizationCode		Identity Manager	Integration Guide
Name * IDMAuthorizationCode	Description * Permite almacenar informacin acerca del usuarios	Adapter Permissions Identity Manager utilizado para realizar autenticacin de	(B)
Client ID *	Client Secret *	Scope *	Integration with IDMAuthorizationCode
Authentication URL * Auth URL Rule to invoke * Rufi To Invoke Redirect URI * https://english74 deyel.com/IDMCallback	Access Token Endpoint * Access Token Endpoint Logout URL * Logout URL	Client Authentication *	Integration with an identity Manager allows user authentication externally to Dayal. First, the necessary information to establish the integration must be filled in: 1. Enter the Client ID of your application registered in the IDM. 2. Enter the Client Scere to biased from your application registered in the IDM. 3. Enter the Scene violating the scopes that will provide the access data after successful authorization. 4. Enter the MUR , that represents the endpoint of the authorization server from which the authorization code is requested 3. Enter the Access token andpoint which represents the endpoint to use to obtain the access loken. 6. Select the type of Client Authoritication which indicates how credentials are set of the client. 7. Complete the field Rule to invoke specifying the name of the rule to sexette be partorn additional coerations before Daryel

Authentication URL

Represents the endpoint of the authorization server to which the authorization code is requested.

Access Token Endpoint

Indicates the endpoint to which the access token request is made.

Client Id

Indicates the Client id of the application registered in the IDM.

Client Secret

Indicates the Client Secret of the application registered in the IDM.

Redirect URI

It is not editable. Indicates the redirection URL to which the IDM responds with the code authorization and the corresponding access token.

Scope

Represents the scopes provided by the access data after successful authorization.

Rule to Invoke

It is used to indicate the rule that performs an additional operation with the access token before **Deyel** authenticates the user internally. This rule must be published before the adapter. It must respect the String data type parameter named "access_token" as input parameter. The user that is registering is obtained.

Client Authentication

Indicates how client credentials are sent. The options are:

- Basic Auth Header
- Client Credentials in Body

Logout URL



Indicates the URL where the user is automatically redirected to close the IDM session, once the **Deyel** session is closed.

3.7.6.2.2.20. WhatsApp Business

Apart from the properties shared by adapters, those specific to WhatsApp Business are added.

WhatsApp Business 🔹			B	Integration Guide
ype : WhatsApp Business				
lame * WhatsApp Business	Description * Adapter for integra	tion with WhatsApp Business	Adapter Permissions	(Å)
Veb Service URL *		Verify Token *		Integration with WhatsApp Business
https://graph.faebook.com/				
Permanent or temporary token *				Integration with WhatsApp Business allows you to manage sending and receiving messages, receive status updates, and
EAAF1wxgn5DIBALhBQwGlqU6Qgc10ifB6Ve	FoLInK1jWWS1ZBkzZAmpY9C8vt	pa%HEx3TLCeTid4M2keECSUP		much more, by using the resources provided by the API.
Vebhook Rule *	Webhook URL *			The way to do it with Deyel is very simple:
whatsAppWebhookNotificationProcessin	g@l@ https://miambiente.de	eyel.com/webhooks/WhatsAppBi		1. Register your app in Developer Meta.
Rules using this adapter				2. Enter the Web Service URL. 3. Enter a Verify token that will be used in the application created in Meta for developers if you want to receive webhook
Name D	escription		٩	notifications 4. Enter the Permanent or temporary token generated for your application created in Developer Meta
				 Press the Publish button to make the adapter available for use.
				Then, through the Integration Rules of Deyel , you can use this adapter by accessing the available services provided by the Graph API.
				To configure your application to receive webhooks notifications,

An asterisk "*" on the label indicates that the property is required.

Web Service URL

Corresponds to the URL that handles requests for services that are made from the **Deyel** environment to the WhatsApp Business platform.

Verify Token

Verification token configured in the application developed in WhatsApp Business. It is used to verify that the webhook that is indicated to receive notifications works correctly.

Permanent or Temporary Token

Temporary or permanent token obtained in the application developed in WhatsApp Business. It is used to access the different endpoints offered by the WhatsApp API.

Webhook Rule

Indicates the rule that must be modified or created in case it does not exist, to administrate the necessary webhook notifications. It is a non-editable property.

Webhook URL

Indicates the URL that must be copied and configured in the application registered with WhatsApp Business, in order to receive and process webhook notifications. It is a non-editable property.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.



3.7.6.2.2.21. PayPal

Apart from the properties shared by adapters, those specific to PayPal are added.

PayPal • ype : PayPal		PayPal	Integration Guide
lame * PayPal Veb Senice URL * https://api-msandbox.paypal.com/ illent ID * AXZajbF-1gc5Wqh_mt33NY/b4X8RDaFvs4P1 Vebhook Rule * payPal/VebhookNotificationProcessing@j@1 Rules using this adapter	Description * Adapter for integration with PayPal Cilent Secret *	Adapter Permissions	begin the second s
Name Descriptio	n	<u> </u>	Then, via the Devel Integration Rules, you can use this adapter by accessing the available services provided by PayPal. To configure your application to receive webhooks notifications, you must copy and use the URL provided in the Webhook URL To process the received webhook notifications, edit the rule indicated in the Webhook Rule field according to your needs.

An asterisk "*" on the label indicates that the property is required.

Web Service URL

Corresponds to the URL that handles requests for services that are made from the **Deyel** environment to the PayPal platform.

Token Endpoint

Allows to select whether the token is obtained from a production environment or a test environment.

Client ID

Identification of the service that PayPal issues when creating an application on its platform.

Client Secret

Secret key associated to the Client ID property, they are used together when requesting access to the resources provided by the platform.

Webhook Rule

Indicates the rule that must be modified or created in case it does not exist, to administrate the necessary webhook notifications. It is a non-editable property.

Webhook URL

Indicates the URL that must be copied and configured in the application registered with PayPal, in order to receive and process webhook notifications. It is a non-editable property.

Rules using this adapter

In this grid, the advanced rules used by the adapter are displayed and their definition can be shown from each line.



3.7.6.2.2.22. Azure AD

This adapter must be configured when the user authentication is delegated to Microsoft Azure AD. For this, <u>register an application in the Azure AD portal</u> and get the required credentials.

Apart from the properties shared by adapters, those specific to Azure AD are added.



An asterisk "*" on the label indicates that the property is required.

Client ID

Identification of the service that Azure AD issues when creating an application on its platform.

Client Secret

Secret key associated to the Client ID property, they are used together when requesting access to the resources provided by the platform.

Tenant Id

Identifier of the directory where the application is registered in the Azure AD portal.

Scopes

Represents the scopes provided by the access data after successful authorization.

Redirect URL

Indicates the redirect URL that Microsoft responds to when the user is successfully authenticated. It is not editable.

3.7.6.2.2.23. Mail Reader

Apart from the properties shared by adapters, those specific to Mail Reader are added.



🕹 > 🕂 😫 - Pub	Jish	Home Tasks Calendars Cases Messages Invite
Mail Reader O Type : Mail Reader	MailReader	Integration Guide
Name * Mail Reader	Adapter Permissions Description * Adaptador para conexin de Mail Reader	(Å)
Server Protocol *		Integration with Mail Reader adapter allows delegating to Development of the Mail Reader adapter allows delegating to Development of the Mail Reader adapter allows delegating to Development of the Adapter allows delegating to Development of the Adapter adapter adapter adapter The Vac do it with Development of the account (he enal of the account). Password of the account way, identification of the reader of Protocol. Username of the account (he enal of the account). Password of the account way, identification of the reader way and the account (he development of the account (he email of the account). Identification of the reader adapter your application. Indicate Username of the account (he email of the account). Identification of the reader adapter. Port tumber used by the saver. Client did the application is Azare Adapter. The Pass the Publish button to make the adapter available for use. Then, by activating Deyel's Mail Reader scheduled task, it will
🛆 Home 🖉 Adaptador - Mail Reader 🗙		start processing incoming emails.

The adapters modeling allows to define which protocol is used for reading emails.

- POP3/IMAP
- EXCHANGE

Different properties are enabled depending on the selected option.

POP3/IMAP protocol

Mail Reader O			Integration Guide
lame * Mail Reader	Description * Mail Reader connection adapter	Adapter Permissions	(\mathfrak{G})
erver Protocol *			Integration with Mail Reader
POP3/IMAP · O EXCHANGE ·			The configuration of the Mail Reader adapter allows delegating
Jse of SSL* Protocol *	Account Username *	Account User Password*	Devel the reading and processing of emails from the configure account.
No v POP3 v	afarias.fa@gmail.com) [The way to do it with Deyel is very simple:
erver Identification *	Port *		If you select POP3/MAP, you must indicate if you use of SSL.
200.55.240.40	110		and type of Protocol, Account username (the email of the account), Password of the account user, Identification of the receiving server and port number used by the server.
			If you select EXCHANGE It works only with Azure AD, for whic you must register your application. Indicate Account User Password (the email of the account). Identification of the receiving server. Port number used by the server. Client Id. Client Secret and Tenant Id (the 3 obtained from the registrat of the application in Azure AD.
			Press the Publish button to make the adapter available for use
			Then, by activating Deyel's Mail Reader scheduled task, it v start processing incoming emails.

An asterisk "*" on the label indicates that the property is required.

Use of SSL



Determines if the SSL protocol is used for sending emails.

Protocol

Allows to select whether the connection is under the IMAP or POP3 protocol.

Account Username

Defines the account where the reading of emails is carried out.

Account User Password

Secret key associated to the Account Username property, they are used together to establish the connection with the selected protocol.

Server Identification

Identifies whether the server with which the connection is established is IMAP or POP3.

Port

Port number for accessing the IMAP or POP3 server.

EXCHANGE protocol

	blish		home 🚉 🛗 🖨 🎾 kessages Invite 🍕
Mail Reader O Type : Mail Reader			Integration Guide
Name * Mail Reader	Description * Mail Reader connection adapter	Adapter Permissions	(3)
Server Protocol *			Integration with Mail Reader The configuration of the Mail Reader adapter allows delegating to Deyel the reading and processing of emails from the configured
Account Usemame * afarias fa@gmail.com Client ID *	Server Identification * 200.55.240.40 Client Secret *	Port * 110 Tenant Id *	account. The way to do it with Deyel is very simple: If you select POP3/MAP, you must indicate if you use of SSL,
afarias.fa@gmail.com		Tenant Id	and type of Protocol, Account username (the email of the account), Password of the account user, Identification of the receiving server and port number used by the server.
			If you select EXCHANGE It works only with Aruw AD, for which you must register your application. Indicate Account User Password (the email of the account), identification of the receiving server. Port number used by the server, Client Id. Client Secret and Tenant (the 'so abbland from the registration of the application in Acure Ad).
Oliver & Markete Malfander B			Press the Publish button to make the adapter available for use. Then, by activating Deyel's Mail Reader scheduled task, it will start processing incoming emails.

An asterisk "*" on the label indicates that the property is required.

Server Identification

It must be completed with the value: "outlook.office365.com".

Account Username

Defines the account where the reading of emails is carried out.

Port

Port number for accessing the EXCHANGE server with which the connection is established.



Client Id

Identification of the application registered in the Google Cloud developer console.

Client Secret

Secret key associated to the Client ID, they are used together to perform user authentication and subsequent use of the application.

Tenant Id

Indicates the id of the directory where the application is registered in the Google Cloud developer console.

3.7.6.2.2.24. Niubiz

Integration with Niubiz allows managing sales quickly and securely through its payment solutions.

For its configuration, the merchant that performs the integration should be registered and attached to the Niubiz platform and thus have a merchant code assigned.

Apart from the properties shared by adapters those specific to Niubiz are added.

Save 1	Publish		Home Tasks Calendars Cases Messages Invite
Niubiz • Type : Niubiz		nıubiz:	Integration Guide
Name * Niubiz Username * (jPaz Web Service URL *	Description * Adapter for integration with Niubiz Password *	Adapter Permissions Merchant Id * (45674432	Integration with Niubiz The integration with Niubiz allows you to manage your sales guickly and socurely from the symmet solutions.
https://apisandbox.vnforappstest.com	~		The way to do it with Deyel is very simple: 1. Complete the Username field with the username generated in your Nubbiz registration.
Name Descrip createSessionTokenForNlubiz- Genera checko	ition Gio of session token so that a user can make ut of the Naukiz platform.	Q their payments through the	 Complete the field Password with the password generated in your Nubic registration. Fill the field Marchant Id with the merchant identifier provided by Nubic. Select the Web Service URL that represents the type of environment to which requests will be made. Press the Publish button to make the adapter available for use.

An asterisk "*" on the label indicates that the property is required.

Username

Username generated when registering in Niubiz. It is used together with the Password attribute to generate the corresponding access token.

Password

Password generated when registering in Niubiz. It is used together with the Username attribute to generate the corresponding access token.

Merchant Id

Merchant identifier provided by Niubiz upon registration.



Web Service URL

It represents the type of environment to which the requests are made and can be selected between a productive or sandbox environment.

Built-in Rules

In **Deyel**, there is a built-in rule that performs operations using the Niubiz API and provides the corresponding session token to use the payment checkout of the platform.

Name	Description	Parameters
createSessionTokenFor- Niubiz	Generates the session to- ken, for a user to perform	<u>Input</u>
	their payments through the Niubiz platform checkout.	 pAmount: amount to show and pay through the Niubiz checkout.
		• pMerchantDefineData : values as- signed by Niubiz for each merchant to form the anti-fraud object.
		<u>Output</u>
		• pSessionToken : session token gener- ated to instantiate the Niubiz check- out.
		• pMerchantId : merchant code. It is used to instantiate the payment checkout.

This rule is in "Draft" <u>state</u> and should be published by a user with <u>administrator permissions</u>, The Niubiz adapter should be previously published.

3.7.7. Pages Modeling

The page modeler allows to create custom interfaces that make up the application being modeled. Pages can display business information and define data sources if necessary.

Pages are fully responsive, automatically adjusting to the screen or device they are being viewed on to deliver the best user experience, every time. The <u>elements</u> can be modeled as fixed (size in px), which means that their size does not change, regardless of the breakpoint, or fluid (size in %) which means that the element automatically changes its size according to the <u>breakpoint</u> and the modeler preferences. These units of measure help create a layout that fits perfectly in any breakpoint.

To have a page that is as adaptable as possible, it is convenient to use relative measurements, allowing inferior elements to change size in relation to the superior elements, ensuring that elements do not



overlap and look good on all types of screens, this is achieved by setting the size of elements from highest to lowest hierarchy.

Elements can be dragged anywhere on the page, within sections or containers. They can also be dragged into layout elements.

Although the page modeler is aimed at modeling without writing a single line of code, there is the possibility of extending the operation of the page and its elements through events and Devel SDK for JS.

Modeler 🥺 💈				Search	Q 7, 3
Name	Application	Туре	State	Update 🗸	Update User
Address Type	Global	 Value List 	•	18/11/2022 17:22	9
Account	Global	💮 Formulario Ágil	٠	18/11/2022 17:20	6
State of the Accounts	Global	🕑 Value List	٠	18/11/2022 17:20	9
Social Network	Global	Value List	٠	18/11/2022 17:20	6
Phone Types	Global	Value List	٠	18/11/2022 17:20	9
Mail Types	Global	Value List	•	18/11/2022 17:20	9
Origins	Global	🕑 Value List	•	18/11/2022 17:20	9
Industries	Global	Value List	•	18/11/2022 17:20	6
Customer	МуАрр	🖽 Form	•	18/11/2022 17:19	6
Opportunity	MyApp	Form	•	18/11/2022 17:19	9

The general characteristics of the page modeler and the main elements that compose it are described in the following topics:

- Modeling Facilities
- Modeling Area
- Page Properties

A new page can be created from the icon 🛨 corresponding to the context menu in the modeler.

- From the icon 📃
- From the expanded menu using the "Page" option.

Modeling Facilities 3.7.7.1.

General characteristics of this modeler are specified below.

New Page

The modeler user defines a new page, which after being published is available to be used on any device.

Creating the page opens a panel that allows to enter the name, application, title, and description.



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	NP 。	Application • Global ×								
		Title * 🕕 New Page								
		Description ①								
		Cancel Accept								

Workspace Sections

- <u>Top Toolbar</u>
- Modeling Area

3.7.7.1.1. Top Toolbar

This toolbar contains icons and submenus from which you can perform operations on the object. Depending on its <u>state</u>, some options may be disabled.

The bar is displayed on the toolbar of **Deyel**.

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Section	÷							
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This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". If certain conditions are met, the modeler user receives a message indicating that the operation was performed correctly, otherwise they receive an explanatory message.

Main Conditions

- The object application must exist.
- The name in the application must be unique.

To the right of the icon, the option to open the <u>submenu</u> is displayed.

🌣 Properties

Opens the page properties panel.

To the right of the icon, the option to open the <u>submenu</u> is displayed.



By means of this icon the object goes to "Published" state, after verifying a set of additional conditions to those of the "Save" operation. The modeling user receives the corresponding message, indicating the result of the operation.

Condition

• The objects used as data source, both forms and rules, must be published.

To the right of the icon, the option to open the <u>submenu</u> is displayed.

3.7.7.1.1.1. Save Submenu

This submenu is opened by pressing the icon immediately to the right of the icon corresponding to "Save".



🕹 > 🕂 🗎 v 🔅 v Save V Properties V	vuolien V	Home	9 Tasks	Calendars	Cases	O Messages	8+ Invite	٩.
Partners I Validate Delete							Preview	
🗎 Save as								
굞 Export								
	Welcome, start creating!							
	Drag items here into section And create new sections!							
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Section	Ŭ							
4								- F

✔ Validate

This icon validates if the object is ready to be published, that is, the validations performed are applied at the moment of <u>publication</u> and the result of the same is reported.

🛍 Delete

Allows to delete the object only if it is in "Draft" <u>state</u>, closing the tab in which it is located and deleting it from the modeler's grid.

🗎 Save as

It allows to create a copy of the modeled page, defining a new name, application, title and description. That copy opens in a new tab in <u>state</u> "Draft".

🛃 Export

This icon opens a window for the user to select and confirm the export of the object.



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Description

In this property a text explaining the reason for the operation can be entered. This text can be modified upon import and is displayed in the description column of the <u>export record</u>.

Exported Objects

By expanding the container, the object being exported is shown.

Press the "Cancel" button to undo export or press the "Export" button to finish.

3.7.7.1.1.2. Properties Submenu

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Properties".

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B Permissions



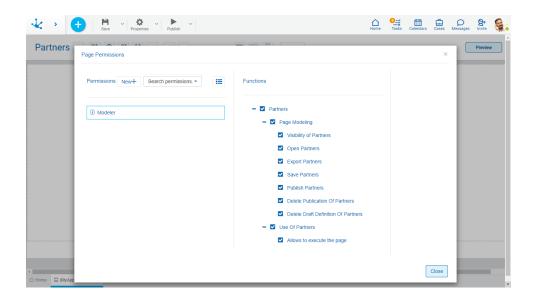
Allows to assign the <u>security functions</u> for use and modeling of the object to the existing permissions or to new permissions that the user creates, without having to go to the <u>permission</u> settings option from the menu.

Sections

- Permissions: Permissions to which object functions are assigned.
- Security Functions: Represents the total set of security functions, modeling and use of the object. Those that are marked are the ones included in the selected permission.

By default, all security functions for a new object are assigned to the permission Modeler.

Users who are assigned the permissions have access to the functions included in it.



New+ Opens a panel to create a new permission and once created, the security functions included in it must be selected .

Search permissions... Allows to select a permission from a list and enables the input of characters to filter the values in the list.

• Opens the wizard to select a permission and once chosen, the necessary object security functions must be checked.

To unrelate a permission from the object, hover the cursor over the permission and press the icon X. If there are functions selected for that permission, they must be unchecked in order to delete it.



Modeling Security Functions

- Visibility: Allows to display the object in the Deyel modeler.
- Open: Allows to show the object from the Deyel modeler.
- Export: Enables the operation to export the object from the save submenu of the top toolbar.
- Save: Enables the operation of saving modifications made to the object.
- Publish: Enables the operation of publishing the object leaving its state as "Published".
- Delete publication: Enables the operation of deleting the object publication leaving its state as "Draft".
- Delete draft definition: Enables the operation of deleting the object.

Use Security Functions

• It allows to execute the page.

3.7.7.1.1.3. Publish Submenu

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Publish".

$\checkmark \rightarrow \textcircled{+} \underset{\text{Save}}{\square} \lor \underset{\text{Properties}}{\textcircled{+}} \lor \underset{\text{Properties}}{\textcircled{+}} \lor \underset{\text{Probatic}}{\textcircled{+}} \lor$	Home	9 Tasks	Calendars	Cases	0 Messages	8+ Invite	.
Partners						Preview	
Welcome, start creating!							
Drag items here into section And create new sections!							
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🗅 Home 🖶 (MyApp) Partners 🗙							

Delete Publication

Allows to leave the object unavailable for use by returning it to the "Draft" state.

3.7.7.1.2. Modeling Area

It is the space where pages can be modeled using the "drag and drop" of different elements.



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🗅 Home 🗮 (Global) Partners 🗶									

A top bar allows to select different modeling options:

- Elements
- Layers
- Data source
- Variables and Parameters
- Code Editing
- <u>Undo and Redo</u>
- Breakpoints
- Modeling Resolution
- <u>Preview</u>

The modeling area of a page is divided into <u>sections</u> into which elements can be added.

Properties

The <u>general properties</u> and the <u>style properties</u> of the page can be opened in the right side panel of the modeling area.

Events

Pages allow the use of different events.

Event	Description
onInit()	It is executed before loading the page.
afterViewInit()	It is executed after rendering the page.
beforeViewUnload()	It is executed before closing the page.



3.7.7.1.2.1. Elements

A page contains <u>elements of different types</u>, each of these types can be modeled with specific properties.

Each element can contain other elements, in these cases they are called superior elements while the elements they contain are called inferior elements.

Superior Elements

- <u>Containers</u>
- <u>Sections</u>
- <u>Layout</u>
- <u>Repeater</u>

Operations

Add Elements on the Page

Elements can be added to a page via "drag-and-drop" to any location on the page, in isolation, or embedded in superior elements.

When adding an element, it automatically docks to the top or bottom border of the closest highest ranking element.

When added, the elements width is defined by default as a percentage, with the exception of the button element, which has an automatic width.

Modify Position of an Element

Once the element is added, its position can be changed by moving it within the page or by changing its structure and position properties with respect to the superior element.

If an element changes its position, this applies to all breakpoints.

Modify Element Size

The dimensions of an element can be modified by dragging the handles on its outline or by modifying its structure properties.

Guides

There are different types of guides that are displayed when selecting an element and pressing the "Alt" key.

• Docking guides: they are displayed when moving an element and the position where it is moved depends on how close it is to its highest hierarchy element. In addition, the distance to the margins of the upper element is indicated.



- Alignment guides: displayed to help items align.
- Guides of space between elements to know the space between them.

Properties

Each element has specific properties that are displayed using a <u>context menu</u>, which is enabled when selecting the element. Properties are grouped according to their functionality and are detailed for each <u>element type</u>.

Context Menu

When selecting an element, a palette of icons opens, where each icon represents a group of specific properties of the selected element. The name of the element is also displayed and when the mouse is slid over it, the path from the page to the element can be seen, indicating the superior elements where the content is found.

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	{Partners.firstText] {Partners.secondT									10
	What do we offe We design insurance focused on m	r you?								

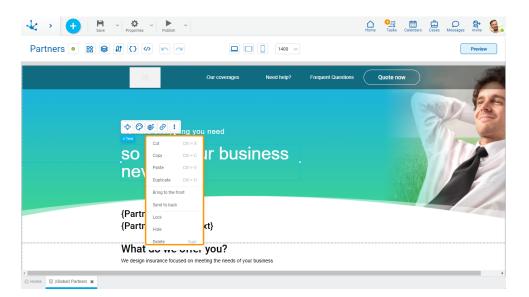
Clicking the right button of the mouse on an element expands a second context menu whose options correspond to operations that can be performed on the selected element. The same menu is displayed

by pressing the icon i on the palette.

- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Paste (Ctrl+V)
- Duplicate (Ctrl+D)
- Bring to the front
- Send to back
- Lock/Unlock When an element is locked, it cannot be moved until it is unlocked.
- Hide: Hides the element in the <u>breakpoint</u> that is being used and in minor breakpoints. Once hidden it can be displayed again from <u>Layers</u>.



• Delete (Supr)



Section

Pages are divided into sections where elements can be included. The page has a defined section by default.

Operations

Add

It allows to add a new section by clicking on the icon of the existing section.

Change Size

The section height can be changed from the top or bottom borders, by clicking on them and dragging them. Another way to change its size is from the section structure panel.

Move

A section can be moved using the functionality of <u>layers</u>.

Structure Properties

The structure properties panel of a section opens when selecting the icon 💬 of the context menu.



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Partners 💿 🔛 😂			1400 px				Pr	eview
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	We have everything	vou need				Width	High	
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Page > Section				*****		> Advanced		
	What do we off	er you?	Ŭ					
	We design insurance focused on	n meeting the needs of your	business					
↓ Home					÷			
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Size

Size

Width	High	
100 %	500	рх
Minimum Width	Minimum Height	-
Maximum Width	Maximum Height	_

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

Sections do not allow modifying the Width property.

Position Type

Position Type

Position Type

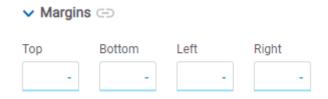
Default	^
Default	
Sticky	



Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Sticky: Available only in sections, it allows the section to remain visible while users continue to scroll through it. At first, the section positioned on the page is viewed, but it "sticks" to the screen as it is scrolled down.

Margins



It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.

Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Advanced

Advanced

Name Identifier section1 section1

Name

Name used to reference the section during modeling.

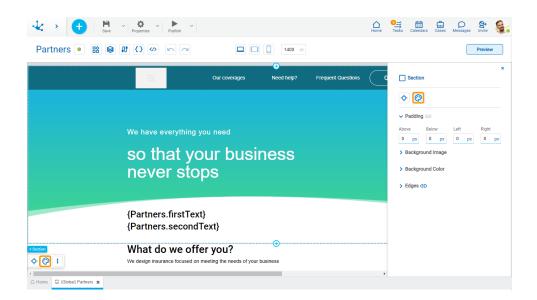
Identifier

Uniquely identifies the section. It is used in the Javascript SDK.

Style Properties



The style properties panel of a section opens when selecting the icon \bigcirc of the context menu.



Padding

✓ Padding ⇐
 Top Bottom Left Right
 0 px 0 px 0 px 0 px

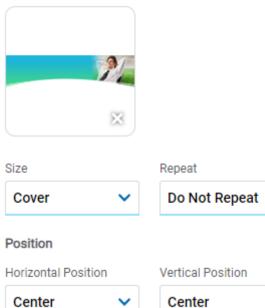
All padding space properties allow to create a space around the element borders (top, bottom, sides) and its content. The padding space configured is inward, while the margin is configured relative to a top element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Background Image



Background Image

Selected



It allows to add a background image to the section.

Selected

An image can be uploaded from the computer where it is being modeled.

Size

Possible Values

- Cover
- Content
- Auto

Repeat

Possible Values

- Repeat
- Repeat Hor.
- Repeat Vert.
- Spacing
- Rounded
- Do Not Repeat

Horizontal and Vertical Position

Possible Values

• Center



- Left
- Right

Background Color

Background Color



It allows to add a background color and transparency to the section.

Edges

✓ Edges ⊂⊃ Width Туре Color Opacity 0 100 рх % 0 100 % рх 0 100 % рх 100 0 рх %

It allows to define the style of borders. Each one has its type, width, color and opacity defined, the latter as a percentage.

Events

Sections allow the use of different events.

Event	Description
onMouseIn()	It is executed when the cursor is positioned on the element.
onMouseOut()	It is executed when the cursor moves out of the element.
onClick()	It is executed when clicking on the element.

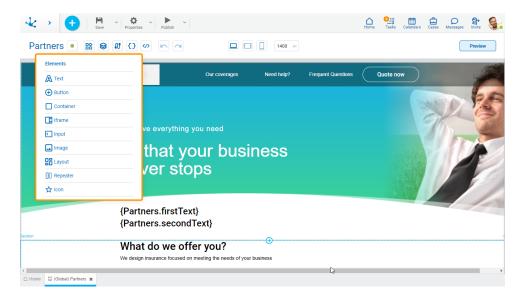


Event	Description
onDoubleClick()	It is executed when clicking twice on the element.
onInit()	It is executed before the element is loaded.
afterViewInit()	It is executed after viewing the element.
onViewportEnter()	It is executed when the element is visible.
onViewportLeave()	It is executed when the element is no longer visible.

Element Types

The elements define the page content and can be of different types.

- <u>Text</u>
- Button
- Container
- <u>Iframe</u>
- Input
- Image
- Layout
- <u>Repeater</u>
- <u>lcon</u>



Text

Texts can be included on a page, defining the characteristics by modeling its properties.

The element properties are represented by icons in its <u>context menu</u>, where its operations are also available.

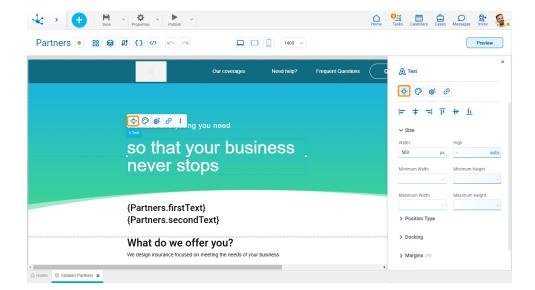


Subtypes

- Title 1
- Title 2
- Subtitle 1
- Subtitle 2
- Paragraph
- Normal Text
- Rich Text

Structure Properties

The structure properties panel of an element opens when selecting the icon 💬 of the context menu.



Alignment

Allows to align the element by selecting one of the available icons.

- F Align to the left.
- **†** Align to horizontal center.
- I Align to the right.
- I Align up.
- # Align vertical center.
- L Align bottom.



Size

✓ Size		
Width	High	
100 %	500	рх
Minimum Width	Minimum Height	-
Maximum Width	Maximum Height	
-		-

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Position Type

It determines if at the time of execution the element remains fixed on the page or if it moves as the scroll bar moves forward or backward.

Position Type

Position Type

Default	^
Default	
Fixed	

Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Fixed: Fixes the element to the page so that it is always visible in the same position. It allows to increase the visibility of important content.

Docking



Docking



Determines the vertical and horizontal position of elements within the page section or container, when the screen is resized.

When an element is added or moved within the section or container, the modeler automatically docks it to the nearest corners or edges. It can also be configured by clicking on the arrows of the side to be docked to or on the center.

Once the element is docked, its exact position is indicated in the Margins property. The direction of the docking arrows determine the values that are automatically displayed for margins.

The docking position is indicated in the modeling area by dotted lines on the element.

Margins

 Margins 	Ð		
Тор	Bottom	Left	Right
-	-	-	-

It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.

Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.



Advanced

Advanced

Ν	ame
	text1

Identifier
text1

Name

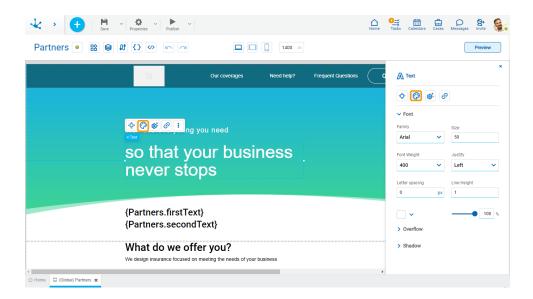
Name used to reference the element during modeling.

Identifier

Uniquely identifies the element. It is used in the Javascript SDK.

Style Properties

The style properties panel of an element opens when selecting the icon \bigcirc of the context menu.



Source



Font

Family		Size
Arial	~	50
Font Weight		Justify
400	~	Left 🗸
Letter spacing		Line Height
0	рх	1
~		100 %

Allows to define the text style.

Overflow

 Overflow 				
Limit number of lines				
Maximum number of lines				
1				

Allows to limit the number of lines that contain the text, having to indicate the maximum number of lines. In case that the text overcomes the number of lines indicated in this property, then it is truncated and the icon •••• is displayed.

Shadow



Allows to define the shadow effect over the element.



Horizontal

Horizontal size of the shadow to the right of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Vertical

Vertical size of the shadow below the element. It can be expressed in pixels (px), percentage (%), view-port width (vw), and viewport height (vh).

Blur

The greater this value is, the greater and lighter the shadow becomes. If not specified, its value is 0 and the shadow border is darker. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Color

Defines the color of the shadow.

Transparency

Defines the transparency of the shadow.

Configuration Properties

The configuration properties panel of an element opens when clicking the icon ¹/₁ of the context menu.

- ↓ → + × × × × × × × × × × × × × × × × × ×	Home	🚉 🛗 🖨 🔎 😭 Tasks Calendars Cases Messages Invite
Partners • 🔀 😂 🕼 🗘 🕫 🛌 🔲 🔲 🗍 1400 🕫		Preview
Image: Sector of the sector		x A Text C A text Variables Value Parameters and Data Source so that your business never stop
 ↓ Home ☐ (Global) Partners x 	•	

Allows to select the source of the element content and optionally define the text style.

Value



0	Value	Parameters and Variables	Data Source
	o that you ever stops	ness	

Value

Allows to enter a text that is displayed in the element.

Parameters and Variables

O Value	0	Parameters and Variables	Data Source
Search			~

Parameters and Variables

Allows to select a <u>parameter</u> or a <u>variable</u> from the page. Its value is displayed in the element.

Data Source

O Value		Parameters and Variables	0	Data Source
Data Source	*			
Search				~
Fields *				
Search				~

Data Source

Allows to select a <u>data source</u> that was previously defined on the page.

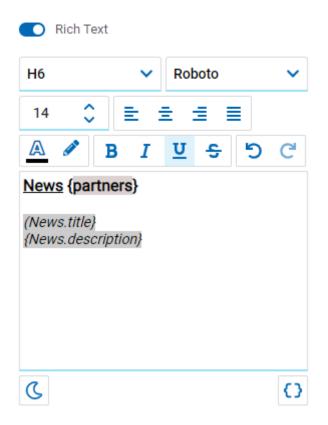
Fields

Allows to select a field from those retrieved in the chosen data source. Its value is displayed in the element.

Rich Text



Allows to define formats that modify the appearance of the content of the text element. Different styles can be combined in the same text, highlight some part of it and add more than one data source or more than one parameter or variable.



Changes the style of the code editor to dark mode.

Changes the style of the code editor to the previous mode.

Allows to add the variables content, parameters or information coming from different data sources to the text.

Hyperlink Properties

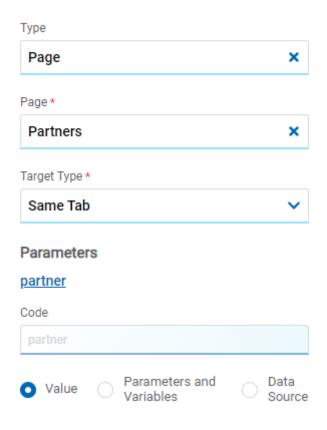
The hyperlink properties panel of an element opens by pressing the icon 2 of the context menu.



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	<u>a</u>	Our coverages	Need help?	Frequent Questions		× Text
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	so that you		ness			Target Type * Same Tab
	never stop					
	{Partners.firstText} {Partners.secondTe					
	What do we offer	r you?				
Home Global) Partners ×	We design insurance focused on me	eeung me needs of your	business		F	

Define the behavior of the element when selecting it. Different properties are enabled depending on the type of object selected.

Page



Page

The pages modeled in the environment are displayed.



Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

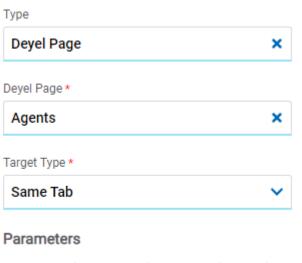
```
Target Iframe
```

Displays the iframes previously defines in the page.

Parameters

If there are parameters, their value can be specified with text, parameters and variables or data source.

Deyel Page



Parameters have not yet been created to send

+ Create new parameter

Deyel Page

The pages belonging to **Deyel** are displayed.

Target Type

The available options for opening the object are displayed.

Possible Values



- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

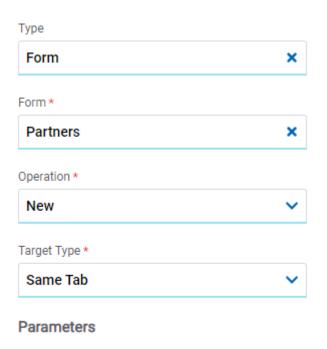
• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Form



Parameters have not yet been created to send

+ Create new parameter

Form

The forms modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Possible Values



- New: Indicates that the panel of the form selected in the previous property is opened for the creation of an instance.
- Grid: Indicates that the grid of the form selected in the previous property is opened.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

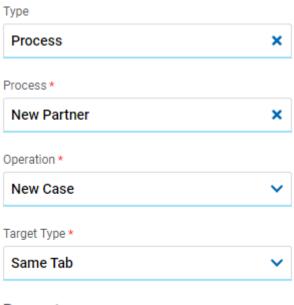
• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Process



Parameters

Parameters have not yet been created to send

Create new parameter



Process

The processes modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Possible Value

• New Case: Indicates that a case of the process selected in the previous property is started.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size
- Define its width.

Modal Vertical Size

Define its height.

- Iframe: this option is selected and an additional property is enabled.
 - Target Iframe

Displays the iframes previously defines in the page.

Parameters Allows sending parameters to the selected object type.

Link

Туре	
Link	×
.ink *	
Farget Type *	
Same Tab	~

Link

Allows to enter any link.

Target Type

The available options for opening the object are displayed.



Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

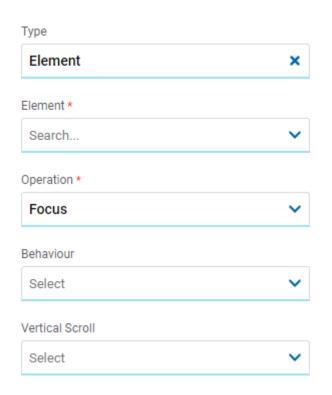
Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Element



Element

The modeled elements in the page are displayed.

Operation

Defines the operation made when selecting the element.

Behaviour

Establishes the transition of the animation.

Possible Values



- Auto
- Smooth

Vertical Scroll

Possible Values

- Start: Moves to the start of the selected element.
- Closest: Moves to the closest position to the selected element from the element the event fires.
- Center: Moves to the center of the selected element.
- End: Moves to the end of the selected element.

Go Back

×

It allows associating the event to go back in the browser to the element.

Events

The texts allow to use different events.

Event	Description
onMouseIn()	It is executed when the cursor is positioned on the element.
onMouseOut()	It is executed when the cursor moves out of the element.
onClick()	It is executed when clicking on the element.
onDoubleClick()	It is executed when clicking twice on the element.
onlnit()	It is executed before the element is loaded.
afterViewInit()	It is executed after viewing the element.
onViewportEnter()	It is executed when the element is visible.
onViewportLeave()	It is executed when the element is no longer visible.



Button

A button can be included on a page, defining the characteristics by modeling its properties.

The element properties are represented by icons in its <u>context menu</u>, where its operations are also available.

Subtypes

- Primary
- Secondary
- Tertiary

Structure Properties

The structure properties panel of an element opens when selecting the icon $\textcircled{\black}$ of the context menu.

Vartners	Properties Publish		1400 px		Home	● ∰ Tasks Calendari	s Cases	Messages Invite	
		Our coverages	Need help?	Frequent Questions	C	Button			1
	We have everything ye	ou need				•	* 6	9	
	so that yo never stop		ness			I= ↓ · ✓ Size Width 220	= <u> </u>	++ <u> </u> High 41	рх
	{Partners.firstText {Partners.secondT					Minimum Widt 200 Maximum Wid	рх	Minimum Height	
	What do we offe	er you?				 Position T 			-
	C Button Protect my business	è				 > Docking > Margins (
Home 🛱 (Global) Partners 🗙	-		_		•	> margins (

Alignment

Allows to align the element by selecting one of the available icons.

- F Align to the left.
- 👎 Align to horizontal center.
- I Align to the right.
- I Align up.



- 🕂 Align vertical center.
- **I** Align bottom.

Size

Size

Width	High
100 %	500 px
Minimum Width	Minimum Height
Maximum Width -	Maximum Height

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Position Type

It determines if at the time of execution the element remains fixed on the page or if it moves as the scroll bar moves forward or backward.

 Position Type 	
Position Type	
Default	^
Default	
Fixed	

Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Fixed: Fixes the element to the page so that it is always visible in the same position. It allows to increase the visibility of important content.



Docking

Docking



Determines the vertical and horizontal position of elements within the page section or container, when the screen is resized.

When an element is added or moved within the section or container, the modeler automatically docks it to the nearest corners or edges. It can also be configured by clicking on the arrows of the side to be docked to or on the center.

Once the element is docked, its exact position is indicated in the Margins property. The direction of the docking arrows determine the values that are automatically displayed for margins.

The docking position is indicated in the modeling area by dotted lines on the element.

Margins

 Margins 	Ð		
Тор	Bottom	Left	Right
-	-	-	-

It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.

Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Allows the value entered in one of the margins to be copied to the other ones automatically.



○ Allows to indicate different values for each margin.

Advanced

 Advanced 	
Name	Identifier
button2	button2

Name

Name used to reference the element during modeling.

Identifier

Uniquely identifies the element. It is used in the Javascript SDK.

Style Properties

The style properties panel of an element opens when selecting the icon \bigcirc of the context menu.

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Partners • 🔛 😂 🕅 🗘 🕫 🛌 🔲 🔲 🗍 1400 🕫		Preview
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so that your business		Regular Hover
never stops		✓ Padding ⊂
		Above Below Left Right
{Partners.firstText}		> Font
{Partners.secondText}		> Background Color
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Protect my business		
0		
C Home 🗟 (Global) Partners 🗴	,	

This type of element may take different states and for each of them different values for its properties may be modeled.

Regular	Hover	Inactive

- Regular: The mouse pointer is not over the element.
- Hover: The mouse pointer is over the element.
- Inactive: The element is disabled.



Padding



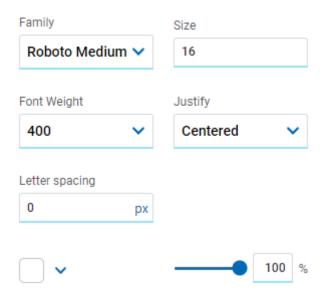
All padding space properties allow to create a space around the element borders (top, bottom, sides) and its content. The padding space configured is inward, while the margin is configured relative to a top element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

← Allows values entered in one of the paddings to be copied to the other ones automatically.

Allows to indicate different values for each padding.

Font





It allows to define the text style.

Background Color

It allows to model a background color for the element, it can be solid or gradient and different properties are defined for each one.

Solid





Background Color

This option enables not only to select the color from a palette but also to define the degree of transparency.

Solid	Gradient
0	
# 000000	
# 000000	Hex
# 000000	Hex
# 000000	Hex

Gradient

Background Color



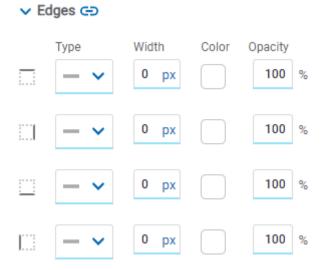
This option enables to select not only the color from a palette but also to define its opacity and intensity according to the selected angle.



Solid	Gradient
# 000000	100 %
Hex	Opacity

Edges

I



It allows to define the style of borders. Each one has its type, width, color and opacity defined, the latter as a percentage.



Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Round Edges



It allows to define the round edges at the corners of elements. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Shadow

Outset			~
Horizontal		Vertical	
0	рх	0	рх
Blur		Spread	
0	рх	0	рх

Allows to define a shadow effect around the element.

Туре

Possible Values

- Outset
- Inset



Horizontal

Horizontal size of the shadow to the right of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Vertical

Vertical size of the shadow below the element. It can be expressed in pixels (px), percentage (%), view-port width (vw), and viewport height (vh).

Blur

The greater this value is, the greater and lighter the shadow becomes. If not specified, its value is 0 and the shadow border is darker. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Spread

Positive values will cause the shadow to expand and grow bigger, while negative values will cause the shadow to shrink. If not specified, its value is 0 and the shadow will have the same size as the element.

Color

Defines the color of the shadow.

Transparency

Defines the transparency of the shadow.

Configuration Properties

The configuration properties panel of an element opens when clicking the icon ¹/₁ of the context menu.

🕹 > 🕂 🗎	✓ Properties ✓ Publish ✓				Home	🚉 🛗 🖨 🔎 😫
Partners 💿 🔛 😂 🛛			1400 px			Preview
	这	Our coverages	Need help?	Frequent Questions		× (+) Button
	We have everything yo	ou need				(†) (†) 🚱 🥑
	so that yo	ur busi	ness			Value Parameters and Data Variables Source
	never stop					Protect my business
	{Partners.firstText} {Partners.secondTe					
	What do we offe	r you?				
		eeting the needs of your	business			
	Protect my business	2				
	à	6				
🗅 Home 🗟 (Global) Partners 🗶					,	

Allows to select the source of the element's content.



Value

Value	Parameters and Variables	O Data Source
Protect my	v business	

Value

Allows to enter a text that is displayed in the element.

Parameters and Variables

O Value	0	Parameters and Variables	Data Source
Search			~

Parameters and Variables

Allows to select a <u>parameter</u> or a <u>variable</u> from the page. Its value is displayed in the element.

Data Source

O Value		Parameters and Variables	0	Data Source
Data Sourc	e *			
Search				~
Fields *				
Search				~

Data Source

Allows to select a <u>data source</u> that was previously defined on the page.

Fields

Allows to select a field from those retrieved in the chosen data source. Its value is displayed in the element.



Hyperlink Properties

The hyperlink properties panel of an element opens by pressing the icon 2 of the context menu.

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Partners 💿 🖹 😂 🕅 🗘 🛷		1400 px				Preview
	Our coverages	Need help?	Frequent Questions		Button	×
We have	everything you need				\$ © \$	Ø
so t	hat your busi	ness			Type Select	~
	er stops				Target Type *	•
					Same Tab	~
-	s.firstText} s.secondText}					
What c	o we offer you?					
ې چې چې چې د د د د د د د د د د د د د د د	ed on meeting the needs of your	business				
· · · · · · · · · · · · · · · · · · ·	my business					
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Define the behavior of the element when selecting it. Different properties are enabled depending on the type of object selected.

Page



Туре

Page		×
Page *		
Insurance Par	tners Quote	×
Target Type *		
Same Tab		~
Parameters partner		
Code		
partner		
💿 Value 🔵	Parameters and Variables	Data Source

Page

The pages modeled in the environment are displayed.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

Target Iframe

Displays the iframes previously defines in the page.

Parameters

If there are parameters, their value can be specified with text, parameters and variables or data source.

Deyel Page



Туре	
Deyel Page	×
Deyel Page *	
Calendars	×
Target Type *	
Same Tab	~

Parameters

Parameters have not yet been created to send

+ Create new parameter

Deyel Page

The pages belonging to **Deyel** are displayed.

Target Type The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

- Iframe: this option is selected and an additional property is enabled.
 - Target Iframe

Displays the iframes previously defines in the page.

Parameters Allows sending parameters to the selected object type.

Form



Туре	
Form	×
Form *	
Partners	×
Operation *	
New	~
Target Type *	
Same Tab	~

Parameters

Parameters have not yet been created to send

+ Create new parameter

Form

The forms modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Possible Values

- New: Indicates that the panel of the form selected in the previous property is opened for the creation of an instance.
- Grid: Indicates that the grid of the form selected in the previous property is opened.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe



Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Process

Туре	
Process	×
Process *	
New Partner	×
Operation *	
New Case	~
Target Type *	
Same Tab	~
Parameters	

Parameters have not yet been created to send

+ Create new parameter

Process

The processes modeled in the environment are displayed.

Operation Defines the operation made when selecting the object.

Target Type The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size



Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Link

уре	
Link	×
.ink *	
Target Type *	
Same Tab	~

Link

Allows to enter any link.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

- Iframe: this option is selected and an additional property is enabled.
 - Target Iframe

Displays the iframes previously defines in the page.

Element



Туре	
Element	×
Element *	
Search	~
Operation *	
Focus	~
Behaviour	
Select	~
Vertical Scroll	
Select	~

Element

The modeled elements in the page are displayed.

Operation

Defines the operation made when selecting the element.

Possible Values

- Focus
- Show
- Hide
- Show/Hide

Behaviour

Establishes the transition of the animation.

Possible Values

- Auto
- Smooth

Vertical Scroll

Possible Values

- Start: Moves to the start of the selected element.
- Closest: Moves to the closest position to the selected element from the element the event fires.
- Center: Moves to the center of the selected element.



• End: Moves to the end of the selected element.

Back

Туре	
Back	×

It allows associating the event to go back in the browser to the element.

Events

The buttons allow to use different events.

Event	Description
onMouseIn()	It is executed when the cursor is positioned on the element.
onMouseOut()	It is executed when the cursor moves out of the element.
onClick()	It is executed when clicking on the element.
onDoubleClick()	It is executed when clicking twice on the element.
onInit()	It is executed before the element is loaded.
afterViewInit()	It is executed after viewing the element.
onViewportEnter()	It is executed when the element is visible.
onViewportLeave()	It is executed when the element is no longer visible.

Container

To create an adaptive and structured design for the page, container boxes are used. Drag the elements inside the container and its style is then arranged for different displays. Elements are automatically attached to the container so they change size in direct relation to the container.

The element properties are represented by icons in its <u>context menu</u>, where its operations are also available.

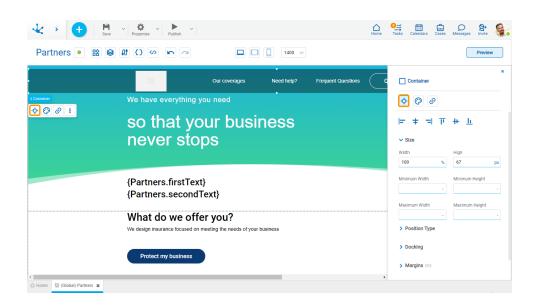


Subtypes

- Simple
- Background Color
- Border
- Shadow

Structure Properties

The structure properties panel of an element opens when selecting the icon $\stackrel{\textcircled{}}{\textcircled{}}$ of the context menu.



Alignment

Allows to align the element by selecting one of the available icons.

- F Align to the left.
- 茾 Align to horizontal center.
- I Align to the right.
- I Align up.
- 🕂 Align vertical center.
- L Align bottom.

Size



Size

Width	High
100 %	500 px
Minimum Width	Minimum Height
Maximum Width	Maximum Height

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Position Type

It determines if at the time of execution the element remains fixed on the page or if it moves as the scroll bar moves forward or backward.

Position Type

Position Type
Default

Default		
Fixed		

Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Fixed: Fixes the element to the page so that it is always visible in the same position. It allows to increase the visibility of important content.

Docking



Docking



Determines the vertical and horizontal position of elements within the page section or container, when the screen is resized.

When an element is added or moved within the section or container, the modeler automatically docks it to the nearest corners or edges. It can also be configured by clicking on the arrows of the side to be docked to or on the center.

Once the element is docked, its exact position is indicated in the Margins property. The direction of the docking arrows determine the values that are automatically displayed for margins.

The docking position is indicated in the modeling area by dotted lines on the element.

Margins

 Margins 	Ð		
Тор	Bottom	Left	Right
-	-	-	-

It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.

Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.



Advanced

 Advanced 	
Name	Identifier
container1	container1

Name

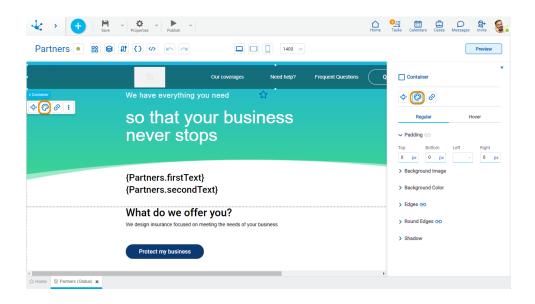
Name used to reference the element during modeling.

Identifier

Uniquely identifies the element. It is used in the Javascript SDK.

Style Properties

The style properties panel of an element opens when selecting the icon \bigcirc of the context menu.



This type of element may take different states and for each of them different values for its properties may be modeled.

Regular	Hover

- Regular: The mouse pointer is not over the element.
- Over: The mouse pointer is over the element.

Padding



 Padding 	Ð		
Тор	Bottom	Left	Right
0 рх	0 рх	0 рх	0 рх

All padding space properties allow to create a space around the element borders (top, bottom, sides) and its content. The padding space configured is inward, while the margin is configured relative to a top element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows values entered in one of the paddings to be copied to the other ones automatically.
 Allows to indicate different values for each padding.

Background Image

 Background I 	mage		
Selected			
	2/_		
	×		
Size		Repeat	
Cover	~	Do Not Repeat	~
Position			
Horizontal Positior	ı	Vertical Position	
Center	~	Center	~

Allows to add a background image to the element.

Selected

An image can be uploaded from the computer where it is being modeled.

Size

Possible Values

- Cover
- Content



• Auto

Repeat

Possible Values

- Repeat
- Repeat Hor.
- Repeat Vert.
- Spacing
- Rounded
- Do Not Repeat

Horizontal and Vertical Position

Possible Values

- Center
- Left
- Right

Background Color

It allows to model a background color for the element, it can be solid or gradient and different properties are defined for each one.

Solid

Background Color



This option enables not only to select the color from a palette but also to define the degree of transparency.



Solid	Gradient
≇ 000000	
# 000000	Hex
 965-513-554-51-1 	Hex
5554C1 (1874) (1974)	Hex

Gradient

✓ Background Color



This option enables to select not only the color from a palette but also to define its opacity and intensity according to the selected angle.



	# 000000 100 %	Solid	Gradient
# 000000 100 %	# 000000 100 %		
Hex Opacity	Hex Opacity		100 %
		Hex	Opacity

Edges

I



It allows to define the style of borders. Each one has its type, width, color and opacity defined, the latter as a percentage.



Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Round Edges



It allows to define the round edges at the corners of elements. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Shadow

Outset			~
Horizontal		Vertical	
0	рх	0	рх
Blur		Spread	
0	рх	0	рх

Allows to define a shadow effect around the element.

Horizontal

Horizontal size of the shadow to the right of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Vertical

Vertical size of the shadow below the element. It can be expressed in pixels (px), percentage (%), view-port width (vw), and viewport height (vh).



Blur

The greater this value is, the greater and lighter the shadow becomes. If not specified, its value is 0 and the shadow border is darker. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Spread

Positive values will cause the shadow to expand and grow bigger, while negative values will cause the shadow to shrink. If not specified, its value is 0 and the shadow will have the same size as the element.

Color

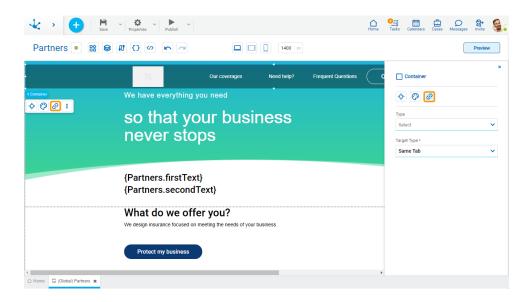
Defines the color of the shadow.

Transparency

Defines the transparency of the shadow.

Hyperlink Properties

The hyperlink properties panel of an element opens by pressing the icon 2 of the context menu.



Define the behavior of the element when selecting it. Different properties are enabled depending on the type of object selected.

Page



Туре		
Page		×
Page *		
Partners		×
Target Type *		
Same Tab		~
Parameters		
partner		
Code		
partner		
• Value Parameters and Variables	0	Data Source

Page

The pages modeled in the environment are displayed.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

Target Iframe

Displays the iframes previously defines in the page.

Parameters

If there are parameters, their value can be specified with text, parameters and variables or data source.

Deyel Page



Туре	
Deyel Page	×
Deyel Page *	
Calendars	×
Target Type *	
Same Tab	~
Parameters	
Parameters have not yet bee	n created to send

+ Create new parameter

Deyel Page

The pages belonging to **Deyel** are displayed.

Target Type The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

Target Iframe

Displays the iframes previously defines in the page.

Parameters Allows sending parameters to the selected object type.

Form



Туре	
Form	×
Form *	
Partners	×
Operation *	
New	~
Target Type *	
Same Tab	~

Parameters

Parameters have not yet been created to send

+ Create new parameter

Form

The forms modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Process



Гуре	
Process	×
Process *	
New Partner	×
Operation *	
New Case	~
Target Type *	
Same Tab	~

+ Create new parameter

Process

The processes modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size
- Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.



Link

×
~

Link

Allows to enter any link.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

Target Iframe

Displays the iframes previously defines in the page.

Element



×
~
~
~
~

Element

The modeled elements in the page are displayed.

Behaviour

Establishes the transition of the animation.

Possible Values

- Auto
- Smooth

Vertical Scroll

Possible Values

- Start: Moves to the start of the selected element.
- Closest: Moves to the closest position to the selected element from the element the event fires.
- Center: Moves to the center of the selected element.
- End: Moves to the end of the selected element.

Back



Туре	
Back	×

It allows associating the event to go back in the browser to the element.

Events

The containers allow to use different events.

Event	Description
onMouseIn()	It is executed when the cursor is positioned on the element.
onMouseOut()	It is executed when the cursor moves out of the element.
onClick()	It is executed when clicking on the element.
onDoubleClick()	It is executed when clicking twice on the element.
onInit()	It is executed before the element is loaded.
afterViewInit()	It is executed after viewing the element.
onViewportEnter()	It is executed when the element is visible.
onViewportLeave()	It is executed when the element is no longer visible.

Iframe

This element is used to show objects **Deyel** or external web pages. For example, it can contain forms, pages, cases, etc. Its position and size must be selected so that it responds to different display win-dows.

Subtypes

- Iframe with Scroll
- Adaptable Iframe



Structure Properties

The structure properties panel of an element opens when selecting the icon $\stackrel{\textcircled{}}{\textcircled{}}$ of the context menu.

↓ → Save → Properties → Publish →				Home	Tasks Calendars	Cases M	Dessages Invit	. 🤹
Partners 💿 🔛 😂 🕼 🗘 🛷 🛌 🖂		1400 p					Prev	riew
	Our coverages	Need help?	ons 🖉		[] Iframe			×
We have everything	you need		< Iframe •	1	🔶 😳 🔹	\$		
so that ye		ess	iframe1		⊨ + =	ा म भ	+ <u>h</u>	
never sto	ps				✓ Size			
					Width 13.5		ligh 189	рх
{Partners.firstTe>					Minimum Width		/inimum Height	
{Partners.second	Text}				Maximum Width	N	/laximum Heigh	t
What do we off	er you?					•		
We design insurance focused or	n meeting the needs of your bu	siness			Position Typ	e		
					> Docking			
Protect my business					> Margins 💬			
				÷				
🗅 Home 🗮 (Global) Partners 🗙								

Alignment

Allows to align the element by selecting one of the available icons.

- F Align to the left.
- **‡** Align to horizontal center.
- = Align to the right.
- I Align up.
- # Align vertical center.
- L Align bottom.

Size



Size

Width	High	
100 %	500 p	x
Minimum Width	Minimum Height	-
Maximum Width	Maximum Height	

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Position Type

It determines if at the time of execution the element remains fixed on the page or if it moves as the scroll bar moves forward or backward.

Position Type

Position Type
Default

Deradit	
Default	
Fixed	

Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Fixed: Fixes the element to the page so that it is always visible in the same position. It allows to increase the visibility of important content.

Docking



Docking



Determines the vertical and horizontal position of elements within the page section or container, when the screen is resized.

When an element is added or moved within the section or container, the modeler automatically docks it to the nearest corners or edges. It can also be configured by clicking on the arrows of the side to be docked to or on the center.

Once the element is docked, its exact position is indicated in the Margins property. The direction of the docking arrows determine the values that are automatically displayed for margins.

The docking position is indicated in the modeling area by dotted lines on the element.

Margins

✓ Margins ↔								
Тор	Bottom	Left	Right					
-	-	-	-					

It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.

Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.



Advanced

Advanced

Name	
iframe1	

Identifier	
iframe1	

Name

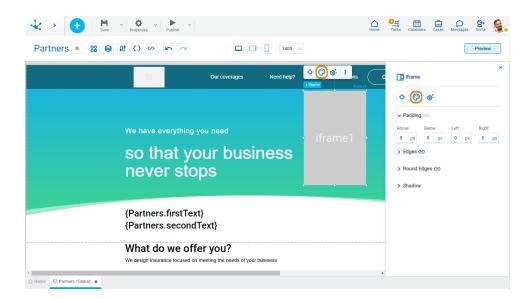
Name used to reference the element during modeling.

Identifier

Uniquely identifies the element. It is used in the Javascript SDK.

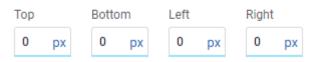
Style Properties

The style properties panel of an element opens when selecting the icon \bigcirc of the context menu.



Padding

✓ Padding ⊂⊃



All padding space properties allow to create a space around the element borders (top, bottom, sides) and its content. The padding space configured is inward, while the margin is configured relative to a



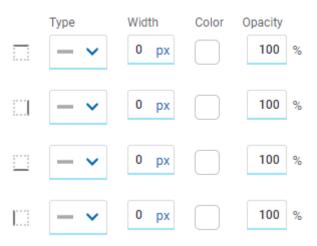
top element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows values entered in one of the paddings to be copied to the other ones automatically.

Allows to indicate different values for each padding.

Edges

✓ Edges ↔



It allows to define the style of borders. Each one has its type, width, color and opacity defined, the latter as a percentage.

Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Round Edges



It allows to define the round edges at the corners of elements. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows the value entered in one of the borders to be copied to the other ones automatically.

Allows to indicate different values for each border.

Shadow



Shadow

Туре			
Outset			~
Horizontal		Vertical	
0	рх	0	рх
Blur		Spread	
0	рх	0	рх
_			
— ~			0 %

Allows to define a shadow effect around the element.

Туре

Possible Values

- Outset
- Inset

Horizontal

Horizontal size of the shadow to the right of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Vertical

Vertical size of the shadow below the element. It can be expressed in pixels (px), percentage (%), view-port width (vw), and viewport height (vh).

Blur

The greater this value is, the greater and lighter the shadow becomes. If not specified, its value is 0 and the shadow border is darker. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Spread

Positive values will cause the shadow to expand and grow bigger, while negative values will cause the shadow to shrink. If not specified, its value is 0 and the shadow will have the same size as the element.

Color

Defines the color of the shadow.

Transparency

Defines the transparency of the shadow.



Configuration Properties

The configuration properties panel of an element opens when clicking the icon ¹⁶ of the context menu.

🕹 > 🕂 🗎	✓ Properties ✓ Publish ✓				Home	♥ ∰ Tasks Calendars Cas	es Messages Invite
Partners 🔹 😫 😂			1400 p				Preview
		Our coverages	Need help?	¢ Ç 💰 : ns		[] Iframe	×
	We have everything ye so that yo never stop	ur busi	ness	iframe1		Type	Auto Height
	{Partners.firstText {Partners.secondT What do we offe We design insurance focused on n	ext} er you?		•		Select	~
🛆 Home 🖶 Partners (Global) 🗶							

Scroll

Scroll Bar		
Never	~	Auto Height

Auto Height

Allows the iframe height to adapt to the size of its content incase that the former exceeds the iframe size. If such property is not checked the different values from the Scroll Bar property can be selected.

Scroll Bar

Indicates if the scroll in the element is displayed: always, never or according to the size of the iframe content.

URL

Allows to select the source of the element's content.

Value



O Value	O Parameters and Variables	O Data Source
Туре		
Select		~

Туре

Allows to select the object type to show in the iframe, it can be an object from **Deyel** or a link to an external web page. Depending on the type selected, different properties are enabled to be completed.

• Page

Page

Allows to select the external page displayed on the iframe. Once it is selected it displays its parameters in case it has them.

• Deyel Page

Deyel Page

Allows to select the external **Deyel** page displayed on the iframe. Once it is selected it displays its parameters in case it has them or allows to add one.

• Form

Form

Allows to select the form name displayed on the iframe. Once it is selected it displays its parameters in case it has them or allows to add one.

Operation

Allows to select whether to display the creation of an instance or the form grid.

• Process

Process

Allows to select the name of the process executed on the iframe. Once it is selected it displays its parameters in case it has them or allows to add one.

Operation

Indicates that the creation of a case is displayed.

• Link

Link

Allows the entry of the link of the page that is executed in the iframe.

Parameters and Variables



O Value	0	Parameters and Variables	Data Source
Search			~

Parameters and Variables

Allows to select a parameter or a variable from the page. Its value is displayed in the element.

Data Source

O Value		Parameters and Variables	Data Source
Data Source	*		
Search			~
Fields *			
Search			~

Data Source

Allows to select a <u>data source</u> that was previously defined on the page.

Fields

Allows to select a field from those retrieved in the chosen data source. Its value is displayed in the element.

Events

The iframes allow to use an event.

Event	Description
onLoad()	It is executed once all the iframe elements have been loaded.

Input

This element is used for entering data.



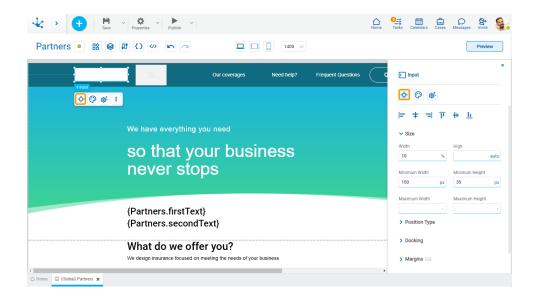
The element properties are represented by icons in its <u>context menu</u>, where its operations are also available.

Subtypes

- Text
- Number
- Password
- Multiline

Structure Properties

The structure properties panel of an element opens when selecting the icon 😳 of the context menu.



Alignment

Allows to align the element by selecting one of the available icons.

- F Align to the left.
- 茾 Align to horizontal center.
- **I** Align to the right.
- I Align up.
- 🕂 Align vertical center.



• L Align bottom.

Size

✓ Size		
Width	High	
100 %	500	рх
Minimum Width	Minimum Height	-
Maximum Width	Maximum Height	-

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Position Type

It determines if at the time of execution the element remains fixed on the page or if it moves as the scroll bar moves forward or backward.

 Position Type 	
Position Type	
Default	^
Default	
Fixed	

Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Fixed: Fixes the element to the page so that it is always visible in the same position. It allows to increase the visibility of important content.

Docking



Docking



Determines the vertical and horizontal position of elements within the page section or container, when the screen is resized.

When an element is added or moved within the section or container, the modeler automatically docks it to the nearest corners or edges. It can also be configured by clicking on the arrows of the side to be docked to or on the center.

Once the element is docked, its exact position is indicated in the Margins property. The direction of the docking arrows determine the values that are automatically displayed for margins.

The docking position is indicated in the modeling area by dotted lines on the element.

Margins

✓ Margins ⊕								
Тор	Bottom	Left	Right					
-	-	-	-					

It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.

Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.



Advanced

 Advanced 	
Name	Identifier
input1	input1

Name

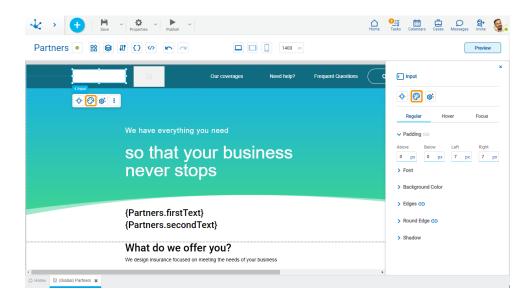
Name used to reference the element during modeling.

Identifier

Uniquely identifies the element. It is used in the Javascript SDK.

Style Properties

The style properties panel of an element opens when selecting the icon 😨 of the context menu.



This type of element may take different states and for each of them different values for its properties may be modeled.

Regular	Hover	Focus
riegulai		

- Regular: the mouse is no longer over the element.
- Hover: the mouse is over element.
- Focus: the element is clicked.



Padding



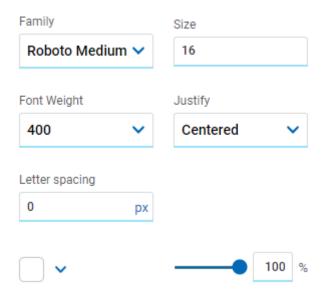
All padding space properties allow to create a space around the element borders (top, bottom, sides) and its content. The padding space configured is inward, while the margin is configured relative to a top element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

← Allows values entered in one of the paddings to be copied to the other ones automatically.

Allows to indicate different values for each padding.

Font





It allows to define the text style.

Background Color

It allows to model a background color for the element, it can be solid or gradient and different properties are defined for each one.

Solid





Background Color

This option enables not only to select the color from a palette but also to define the degree of transparency.

Solid			Gradient	
			-	
<u> </u>				
# 00	0000			
# 00	0000	Hex		
# 00	0000	Hex		

Gradient

Background Color



This option enables to select not only the color from a palette but also to define its opacity and intensity according to the selected angle.



Solid	Gradient
# 000000	100 %
Hex	Opacity

Edges

I



It allows to define the style of borders. Each one has its type, width, color and opacity defined, the latter as a percentage.



Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Round Edges



It allows to define the round edges at the corners of elements. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Shadow

Outset			~
Horizontal		Vertical	
0	рх	0	рх
Blur		Spread	
0	рх	0	рх

Allows to define a shadow effect around the element.

Туре

Possible Values

- Outset
- Inset



Horizontal

Horizontal size of the shadow to the right of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Vertical

Vertical size of the shadow below the element. It can be expressed in pixels (px), percentage (%), view-port width (vw), and viewport height (vh).

Blur

The greater this value is, the greater and lighter the shadow becomes. If not specified, its value is 0 and the shadow border is darker. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Spread

Positive values will cause the shadow to expand and grow bigger, while negative values will cause the shadow to shrink. If not specified, its value is 0 and the shadow will have the same size as the element.

Color

Defines the color of the shadow.

Transparency

Defines the transparency of the shadow.

Configuration Properties

The configuration properties panel of an element opens when clicking the icon ¹/₁ of the context menu.

🔧 > 🕂 💾 Save	Properties Publish				Home	Tasks Calendars	Cases Messages Invite	9.
Partners 💿 🔛 😂 🖡			1400 px				Preview	
ting ¢©© i	Our coverages Need help? Frequent Questions Image: Coverage of the second seco				C	I Input	Placeholder Placeholder Placeholder Parameters and Data Variables Data	
	{Partners.firstText} {Partners.secondT	ext}						_
O Home E (Global) Partners x	What do we offe We design insurance focused on m				Þ			

Format and Placeholder



Contents Format		Placeholder
Text	~	

Contents Format

Allows to select text, password, number and multiline.

Placeholder

Allows to guide the user on the content to load in the element. The text entered as a placeholder is displayed within the element.

Initial Value

Allows to select the source of the element's content.

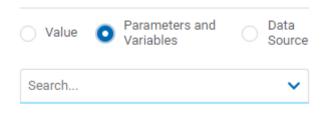
Value

0	Value	Parameters and Variables	Data Source

Value

Allows to enter a text that is displayed in the element.

Parameters and Variables



Parameters and Variables

Allows to select a parameter or a variable from the page. Its value is displayed in the element.

Data Source



O Value		Parameters and Variables	0	Data Source
Data Source	*			
Search				~
Fields *				
Search				~

Data Source

Allows to select a <u>data source</u> that was previously defined on the page.

Fields

Allows to select a field from those retrieved in the chosen data source. Its value is displayed in the element.

Events

The inputs allow to use different events.

Event	Description
onMouseIn()	It is executed when the mouse is over the element.
onMouseOut()	It is executed when the mouse is no longer over the element.
onClick()	It is executed by clicking on the element.
onDoubleClick()	It is executed by double clicking on the element.
onlnit()	It is executed before loading the element.
afterViewInit()	It is executed after presenting the element.
onViewportEnter()	It is executed when the element is visible.
onVlewportLeave()	It is executed when the element stops being visible.
pnChange()	It is executed when the enter value is changed.
onFocus()	It is executed when focusing on the element.



Event	Description
onBlur()	It is executed when losing focus on the element.

Imagen

Allows to add any multimedia content of visual type.

The element properties are represented by icons in its <u>context menu</u>, where its operations are also available.

Subtypes

- Rounded
- Square
- Small
- Medium
- Large

Structure Properties

The structure properties panel of an element opens when selecting the icon $\textcircled{\label{eq:properties}}$ of the context menu.

$4 \rightarrow \begin{array}{c} \bullet \\ \hline \hline \bullet \\ \hline \hline \bullet \\ \hline \hline \bullet \\ \hline \bullet \\ \hline \hline \hline \bullet \\ \hline \hline \hline \bullet \\ \hline \hline \hline \hline$	Home T	Tasks Calendars Ca	ses Messages Invite
Partners • 🖹 😫 🕅 🕐 🕟 🖚 🔲 🔲 🔲 🔲			Preview
Our coverages Need help? Frequent Questions	٩	🛌 Image	×
		🔶 🖓 🔹	Ø
		⊨ + = `	μ μ
We have everything you need		✓ Size	
en that your business		Width	High
so that your business		131	рх 58 рх
never stops		Minimum Width	Minimum Height
		Maximum Width	Maximum Height
{Partners.firstText}			
{Partners.secondText}		> Position Type	
What do we offer you?		> Docking	
We design insurance focused on meeting the needs of your business		> Margins 🖂	
Global) Partners 🗶	÷		

Alignment

Allows to align the element by selecting one of the available icons.





- 茾 Align to horizontal center.
- I Align to the right.
- I Align up.
- 🕂 Align vertical center.
- L Align bottom.

Size

✓ Size		
Width	High	
100 %	500	рх
Minimum Width	Minimum Height	-
Maximum Width	Maximum Height	-

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Position Type

It determines if at the time of execution the element remains fixed on the page or if it moves as the scroll bar moves forward or backward.

 Position Type 	
Position Type	
Default	^
Default	
Fixed	



Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Fixed: Fixes the element to the page so that it is always visible in the same position. It allows to increase the visibility of important content.

Docking

Docking



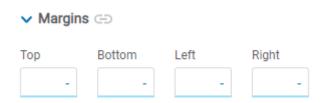
Determines the vertical and horizontal position of elements within the page section or container, when the screen is resized.

When an element is added or moved within the section or container, the modeler automatically docks it to the nearest corners or edges. It can also be configured by clicking on the arrows of the side to be docked to or on the center.

Once the element is docked, its exact position is indicated in the Margins property. The direction of the docking arrows determine the values that are automatically displayed for margins.

The docking position is indicated in the modeling area by dotted lines on the element.

Margins



It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.



Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.

Advanced

 Advanced 	
Name	Identifier
image1	image1

Name

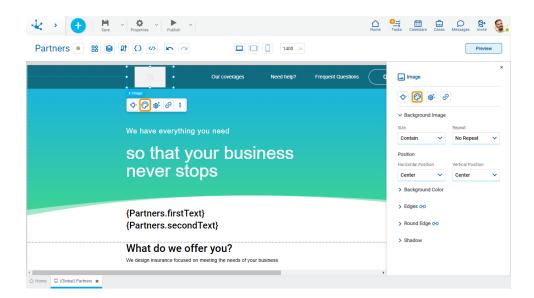
Name used to reference the element during modeling.

Identifier

Uniquely identifies the element. It is used in the Javascript SDK.

Style Properties

The style properties panel of an element opens when selecting the icon \bigcirc of the context menu.



Background Image



Defines the background image properties.

Background Image

Size		Repeat	
Cover	~	No Not Repeat	~
Position			
Horizontal Positior	ı	Vertical Position	
Center	~	Center	~

Size

Possible Values

- Cover
- Content
- Auto

Repeat

Possible Values

- Repeat
- Repeat Hor.
- Repeat Vert.
- Spacing
- Rounded
- Do Not Repeat

Horizontal and Vertical Position

Possible Values

- Center
- Left
- Right

Background Color

It allows to model a background color for the element, it can be solid or gradient and different properties are defined for each one.

Solid





Background Color

This option enables not only to select the color from a palette but also to define the degree of transparency.

Solid	Gradient
0	
# 000000	
# 000000	Hex
# 000000	Hex
# 000000	Hex

Gradient

Background Color



This option enables to select not only the color from a palette but also to define its opacity and intensity according to the selected angle.



# 000000 100 Text	-

Edges

I



It allows to define the style of borders. Each one has its type, width, color and opacity defined, the latter as a percentage.



Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Round Edges



It allows to define the round edges at the corners of elements. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Shadow

Outset			~
Horizontal		Vertical	
0	рх	0	рх
Blur		Spread	
0	рх	0	рх

Allows to define a shadow effect around the element.

Туре

Possible Values

- Outset
- Inset



Horizontal

Horizontal size of the shadow to the right of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Vertical

Vertical size of the shadow below the element. It can be expressed in pixels (px), percentage (%), view-port width (vw), and viewport height (vh).

Blur

The greater this value is, the greater and lighter the shadow becomes. If not specified, its value is 0 and the shadow border is darker. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Spread

Positive values will cause the shadow to expand and grow bigger, while negative values will cause the shadow to shrink. If not specified, its value is 0 and the shadow will have the same size as the element.

Color

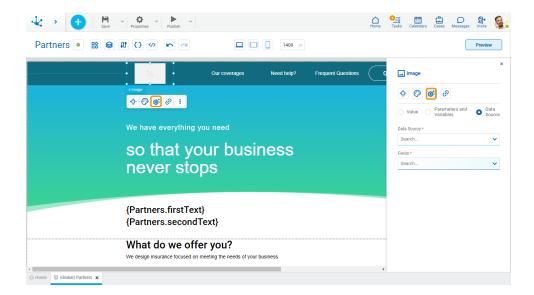
Defines the color of the shadow.

Transparency

Defines the transparency of the shadow.

Configuration Properties

The configuration properties panel of an element opens when clicking the icon ¹/₁ of the context menu.



Allows to select the source of the element's content.



Value		
• Value	Parameters and Variables	O Data Source
	•	

Allows to add an image from a file on the user's computer.

Parameters and Variables

🔿 Value	0	Parameters and Variables	Data Source
Search			~

Parameters and Variables

Allows to select a <u>parameter</u> or a <u>variable</u> from the page. Its value is displayed in the element. This value can be a valid url.

Data Source

0 \	Value	Parameters and Variables	0	Data Source
Data	Source *			
Sea	rch			~
Fields	s *			
Sea	rch			~

Data Source

Allows to select a <u>data source</u> that was previously defined on the page.





Allows to select a field from those retrieved in the chosen data source. Its value is displayed in the element.

Hyperlink Properties

The hyperlink properties panel of an element opens by pressing the icon 2 of the context menu.

-↓ → + A → Poperies → Poperies → Publish →	Home	Presses Calendars Cases Messages Invite
Partners • 🔀 😫 👪 🖸 🖝 📼 🗖 🔲 🔲 1400 🖻		Preview
Our coverages Need help? Frequent Questions		×
		• © • 0
We have everything you need		Type Select
so that your business		Target Type * Same Tab
never stops		
{Partners.firstText} {Partners.secondText}		
· ·		
What do we offer you? We design insurance focused on meeting the needs of your business		
4 △ Home	•	

Define the behavior of the element when selecting it. Different properties are enabled depending on the type of object selected.

Page



Туре	
Page	×
Page *	
Partners	×
Target Type *	
Same Tab	~
Parameters	
partner	
Code	
partner	
 Value Parameters and Variables 	Data Source

Page

The pages modeled in the environment are displayed.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

- Iframe: this option is selected and an additional property is enabled.
 - Target Iframe

Displays the iframes previously defines in the page.

Parameters

If there are parameters, their value can be specified with text, parameters and variables or data source.

Deyel Page



Туре	
Deyel Page	×
Deyel Page *	
Agents	×
Farget Type *	
Same Tab	~
Parameters	
Parameters have not yet been	created to send

+ Create new parameter

Deyel Page

The pages belonging to **Deyel** are displayed.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

- Iframe: this option is selected and an additional property is enabled.
 - Target Iframe

Displays the iframes previously defines in the page.

Parameters Allows sending parameters to the selected object type.

Form



Туре	
Form	×
Form *	
Partners	×
Operation *	
New	~
Target Type *	
Same Tab	~

Parameters

Parameters have not yet been created to send

+ Create new parameter

Form

The forms modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Possible Values

- New: Indicates that the panel of the form selected in the previous property is opened for the creation of an instance.
- Grid: Indicates that the grid of the form selected in the previous property is opened.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe



Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Process

Туре	
Process	×
Process *	
New Partner	×
Operation *	
New Case	~
Target Type *	
Same Tab	~

Parameters

Parameters have not yet been created to send

+ Create new parameter

Process

The processes modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Possible Value

• New Case: Indicates that a case of the process selected in the previous property is started.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window



• Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Link

Гуре	
Link	×
_ink *	
Target Type *	
Same Tab	~

Link

Allows to enter any link.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

- Iframe: this option is selected and an additional property is enabled.
 - Target Iframe

Displays the iframes previously defines in the page.

Element



Туре	
Element	×
Element *	
Search	~
Operation *	
Focus	~
Behaviour	
Select	~
Vertical Scroll	
Select	~

Element

The modeled elements in the page are displayed.

Behaviour

Establishes the transition of the animation.

Possible Values

- Auto
- Smooth

Vertical Scroll

Possible Values

- Start: Moves to the start of the selected element.
- Closest: Moves to the closest position to the selected element from the element the event fires.
- Center: Moves to the center of the selected element.
- End: Moves to the end of the selected element.

Back



Туре	
Back	×

It allows associating the event to go back in the browser to the element.

Events

The images allow to use different events.

Event	Description
onMouseIn()	It is executed when the cursor is positioned on the element.
onMouseOut()	It is executed when the cursor moves out of the element.
onClick()	It is executed when clicking on the element.
onDoubleClick()	It is executed when clicking twice on the element.
onInit()	It is executed before the element is loaded.
afterViewInit()	It is executed after viewing the element.
onViewportEnter()	It is executed when the element is visible.
onViewportLeave()	It is executed when the element is no longer visible.

Layout

This element is a structure built of a set of <u>items</u> and allows to structure them based on different styles: column, row, stripe and mosaic. Such items are containers, which allows to add other elements. These elements can be moved with each item when the layout structure is resized.

The element properties are represented by icons in its <u>context menu</u>, where its operations are also available.

Subtypes

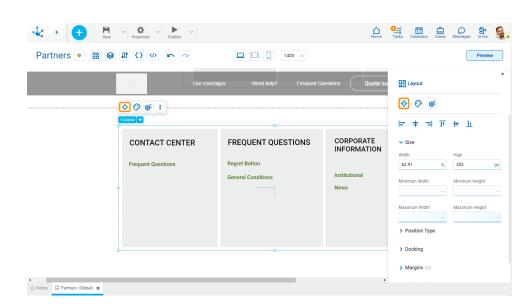
- Column
- Row



- Stripe
- Mosaic

Structure Properties

The structure properties panel of an element opens when selecting the icon 1 of the context menu.



Alignment

Allows to align the element by selecting one of the available icons.

- F Align to the left.
- 茾 Align to horizontal center.
- I Align to the right.
- I Align up.
- # Align vertical center.
- L Align bottom.

Size



Size

Width	High	
100 %	500 p	x
Minimum Width	Minimum Height	-
Maximum Width	Maximum Height	

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Position Type

It determines if at the time of execution the element remains fixed on the page or if it moves as the scroll bar moves forward or backward.

Position Type

Position Type

Default	^
Default	
Fixed	

Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Fixed: Fixes the element to the page so that it is always visible in the same position. It allows to increase the visibility of important content.

Docking



Docking



Determines the vertical and horizontal position of elements within the page section or container, when the screen is resized.

When an element is added or moved within the section or container, the modeler automatically docks it to the nearest corners or edges. It can also be configured by clicking on the arrows of the side to be docked to or on the center.

Once the element is docked, its exact position is indicated in the Margins property. The direction of the docking arrows determine the values that are automatically displayed for margins.

The docking position is indicated in the modeling area by dotted lines on the element.

Margins

✓ Margins ⊖					
Тор	Bottom	Left	Right		
-	-	-	-		

It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.

Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.



Advanced

Advanced

Name	Identifier	
layout1	layout1	

Name

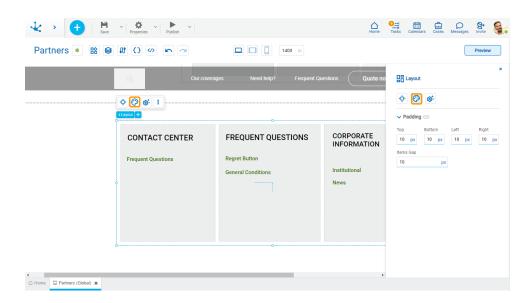
Name used to reference the element during modeling.

Identifier

Uniquely identifies the element. It is used in the Javascript SDK.

Style Properties

The style properties panel of an element opens when selecting the icon 😨 of the context menu.



Padding





All padding space properties allow you to create a space around the borders (top, bottom, sides) and the bottom elements. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

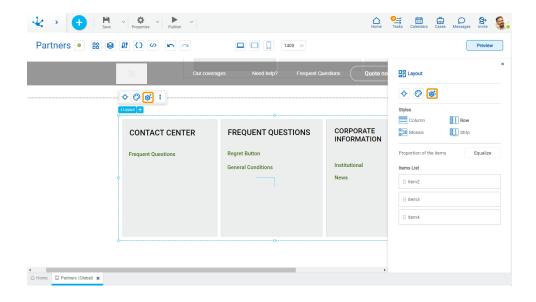
Items Gap

Defines the gap between the design items.

- Allows values entered in one of the paddings to be copied to the other ones automatically.
- Allows to indicate different values for each padding.

Configuration Properties

The configuration properties panel of an element opens when clicking the icon ¹ of the context menu.



Styles

Indicates the way in which items are grouped within the layout.

Styles		
E Column	Row	
Mosaic	Strip	
Proportion of the items		Equalize

Column



Items are placed vertically within the layout.

Row

Items are placed horizontally within the layout.

Mosaic

Combines the vertical and horizontal placement of items based on their size within the layout.

Strip

Items are placed horizontally within the layout. Allows scrolling.

Proportion of the items

Pressing the "Equalize" button adjusts the size of the items proportionally within the layout.

Items List

Items List

iitem1 iitem2 iitem3

The <u>items</u> contained in the design are visualized and can change position by dragging them within the list.

Item

Items can be included to the layout and their characteristics can be defined by modeling its properties.

Operations

Add

Allows to add an item to the design clicking on the icon 🛨 from the element's context menu.



Move



The change of position for an item is made in the configuration properties panel of the layout.

Change Size

The size of an item can be changed both from its context menu using the icons \bigcirc to increase its size and \bowtie to reduce it, as well as from its structure properties panel.



Context Menu

Clicking the right button of the mouse on an item expands a second context menu whose options correspond to operations that can be performed on the selected item. The same menu is displayed by pressing the icon i on the palette.

- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Paste (Ctrl+V)
- Duplicate (Ctrl+D)
- Lock/Unlock When an item is locked, it cannot be moved until it is unlocked.
- Hide: Hides the item in the <u>breakpoint</u> that is being used and in minor breakpoints. Once hidden it can be displayed again from <u>Layers</u>.
- Delete (Supr)

Structure Properties

The structure properties panel of an item opens when selecting the icon $\textcircled{\baselinetwise}$ of the context menu.

🕹 → 🕒 🗎 × 🏘 v ⊨ Publish	~	🟠 🄐 🛗 🖨 💭 🍪
Partners	1400 px	Preview
<u>12</u>	Our coverages Need help? Frequent Questions	Quote no Item
NEWS		🔶 📀 🥒
<mark></mark>	< (News.title) (News.description) (News.description)	Minimum Width Minimum Height
CONTACT CENT Frequent Questions		Advanced > Advanced



Size

Size Width High 100 % 500 px Minimum Width Minimum Height Maximum Width Maximum Height -

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Margins

 Margins 	Ð		
Тор	Bottom	Left	Right
-	-	-	-

Allows to define the distance among items and also from items to the borders of the containing element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the containing element.

Bottom

Distance to the bottom border of the containing element.

Left

Distance to the left border of the containing element or to the previous item.

Right

Distance to the right border of the containing element or to the following item.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.



Advanced

Advanced

Name	
item1	

Identifier item1

Name

Name used to reference the item during modeling.

Identifier

Uniquely identifies the item. It is used in the Javascript SDK.

Style Properties

The style properties panel of an item opens when selecting the icon \bigcirc of the context menu.

↓ → Save → Properties → Publish	~	home	Tasks Calendars Cases Messages Invite
Partners • 🖹 😫 🕅 🗘 🛷 🛌	1400 px		Preview
「「」		nt Questions Quote no	×
NEWS			• • •
			Regular Hover
	{News.title} {News.description}	{News.description}	✓ Padding ⊕
			Top Bottom Left Right
			Background Image
(† 🕐 🖉 i			> Background Color
< Item	item2		> Edges 🖘
CONTACT CENT	FREQUENT QUESTIONS	CORPORATE	> Round Edges 👄
Frequent Questions	Regret Button		> Shadow
	General Conditions	Institutional News	
A Home E Partners (Global) 🗴		•	

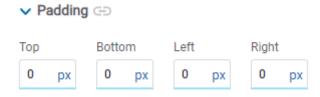
This type of element may take different states and for each of them different values for its properties may be modeled.

Regular	Hover

- Regular: The mouse pointer is not over the element.
- Over: The mouse pointer is over the element.

Padding





All padding space properties allow to create a space around the item borders (top, bottom, sides) and its content. The padding space configured is inward, while the margin is configured relative to a top item. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows values entered in one of the paddings to be copied to the other ones automatically.

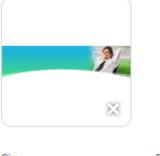
Allows to indicate different values for each padding.

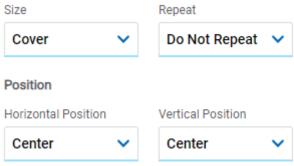
Background Image

Allows to add a background image to the item.

Background Image

Selected





Selected

An image can be uploaded from the computer where it is being modeled.

Background Color

Background Color

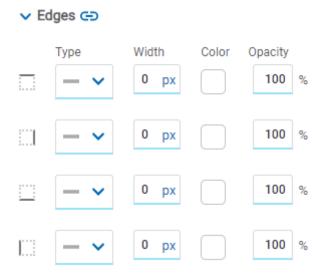




It allows to add a background color to the item.

- Color
- Transparency

Edges



It allows to define the style of borders. Each one has its type, width, color and opacity defined, the latter as a percentage.

Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Round Edges



It allows to define the round edges at the corners of items. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Shadow



Shadow

Туре			
Outset			~
Horizontal		Vertical	
0	рх	0	рх
Blur		Spread	
0	рх	0	рх
•		•	0 %

Allows to define a shadow effect around the item.

Туре

Possible Values

- Outset
- Inset

Horizontal

Horizontal size of the shadow to the right of the item. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Vertical

Vertical size of the shadow below the item. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Blur

The greater this value is, the greater and lighter the shadow becomes. If not specified, its value is 0 and the shadow border is darker. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Spread

Positive values will cause the shadow to expand and grow bigger, while negative values will cause the shadow to shrink. If not specified, its value is 0 and the shadow will have the same size as the item.

Color

Defines the color of the shadow.

Transparency

Defines the transparency of the shadow.



Hyperlink Properties

The hyperlink properties panel of an item opens by pressing the icon 2 of the context menu.

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Define the behavior of the item when selecting it. Different properties are enabled depending on the type of object selected.

Page



Туре		
Page		×
Page *		
Contact Center		×
Target Type *		
Same Tab		~
Parameters		
partner		
Code		
partner		
• Value Parameters and Variables	0	Data Source

Page

The pages modeled in the environment are displayed.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

Target Iframe

Displays the iframes previously defines in the page.

Parameters

If there are parameters, their value can be specified with text, parameters and variables or data source.



Deyel Page

Type

 Deyel Page
 ×

 Deyel Page *
 ×

 Agents
 ×

 Target Type *
 ×

 Same Tab
 ×

Parameters

Parameters have not yet been created to send

+ Create new parameter

Deyel Page The pages belonging to **Deyel** are displayed.

Target Type The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

- Iframe: this option is selected and an additional property is enabled.
- Target Iframe

Displays the iframes previously defines in the page.

Parameters Allows sending parameters to the selected object type.

Form



Туре	
Form	×
Form *	
Contact Center	×
Operation *	
New	~
Target Type *	
Same Tab	~
Parameters	

Parameters have not yet been created to send

+ Create new parameter

Form

The forms modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Possible Values

- New: Indicates that the panel of the form selected in the previous property is opened for the creation of an instance.
- Grid: Indicates that the grid of the form selected in the previous property is opened.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

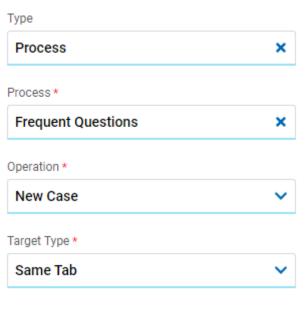


Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Process



Parameters

Parameters have not yet been created to send

+ Create new parameter

Process

The processes modeled in the environment are displayed.

Operation Defines the operation made when selecting the object.

Target Type The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.



• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Link

Туре	
Link	×
.ink *	
Farget Type *	
Same Tab	~

Link

Allows to enter any link.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Element



Туре	
Element	×
Element *	
Search	~
Operation *	
Focus	~
Behaviour	
Auto	~
Vertical Scroll	
Closest	~

Element

The modeled elements in the page are displayed.

Operation

Defines the operation made when selecting the element.

Possible Values

- Focus
- Show
- Hide
- Show/Hide

Behaviour

Establishes the transition of the animation.

Possible Values

- Auto
- Smooth

Vertical Scroll

Possible Values

- Start: Moves to the start of the selected element.
- Closest: Moves to the closest position to the selected element from the element the event fires.
- Center: Moves to the center of the selected element.



• End: Moves to the end of the selected element.

Back

Туре	
Back	×

It allows associating the event to go back in the browser to the element.

Events

The items allow to use different events.

Event	Description
onMouseIn()	It is executed when the cursor is positioned on the element.
onMouseOut()	It is executed when the cursor moves out of the element.
onClick()	It is executed when clicking on the element.
onDoubleClick()	It is executed when clicking twice on the element.
onInit()	It is executed before the element is loaded.
afterViewInit()	It is executed after viewing the element.
onViewportEnter()	It is executed when the element is visible.
onViewportLeave()	It is executed when the element is no longer visible.

Repeater

The repeater element allows to display a set of retrieved instances by a data source, unlike other elements that only allow a single instance to be displayed.

Visually it is similar to the layout element but only the first item can be modified and a data source must be defined. Such item repeats as many times as instances are obtained from the data source.



If the <u>items</u> included in the repeater show information on the instances of the data source defined in it, such source must be previously configured.

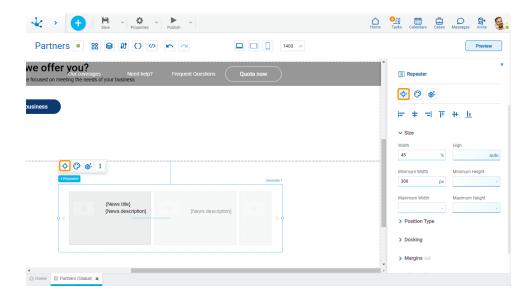
The element properties are represented by icons in its <u>context menu</u>, where its operations are also available.

Subtypes

- Cards
- Tape

Structure Properties

The structure properties panel of an element opens when selecting the icon $\textcircled{\black}$ of the context menu.



Alignment

Allows to align the element by selecting one of the available icons.

- F Align to the left.
- 茾 Align to horizontal center.
- = Align to the right.
- T Align up.
- 🕂 Align vertical center.





Size

✓ Size		
Width	High	
100 %	500	рх
Minimum Width	Minimum Height	_
Maximum Width	Maximum Height	
-		-

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Position Type

It determines if at the time of execution the element remains fixed on the page or if it moves as the scroll bar moves forward or backward.

 Position Type 	
Position Type	
Default	^
Default	
Fixed	

Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Fixed: Fixes the element to the page so that it is always visible in the same position. It allows to increase the visibility of important content.

Docking



Docking



Determines the vertical and horizontal position of elements within the page section or container, when the screen is resized.

When an element is added or moved within the section or container, the modeler automatically docks it to the nearest corners or edges. It can also be configured by clicking on the arrows of the side to be docked to or on the center.

Once the element is docked, its exact position is indicated in the Margins property. The direction of the docking arrows determine the values that are automatically displayed for margins.

The docking position is indicated in the modeling area by dotted lines on the element.

Margins

 Margins 	Ð		
Тор	Bottom	Left	Right
-	-	-	-

It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.

Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.



Advanced

 Advanced 	
Name	Iden
repeater1	rep

Identifier
repeater1

Name

Name used to reference the element during modeling.

Identifier

Uniquely identifies the element. It is used in the Javascript SDK.

Style Properties

The style properties panel of an element opens when selecting the icon 😨 of the context menu.

↓ ↓ ↓ ↓ ↓ ↓ ↓ Properties ↓ ↓ ↓ ↓	me Tasks Calendars Cases Messages Invite
Partners • 😫 📽 🖸 🐼 🛌 🗖 🔲 🗍 1400 📼	Preview
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Padding

V Padding	j 🕀		
Тор	Bottom	Left	Right
10 px	10 px	10 px	10 рх
Items Gap			
10	рх		



All padding space properties allow you to create a space around the borders (top, bottom, sides) and the bottom elements. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Items Gap

Defines the gap between the repeater items.

- Allows values entered in one of the paddings to be copied to the other ones automatically.
- Allows to indicate different values for each padding.

Configuration Properties

The configuration properties panel of an element opens when clicking the icon ¹ of the context menu.

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Partners •					Pre	riew
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			Outside	~	Center	~
ACT CENTER	FREQUENT QUESTIONS CORPORATE INFORMATION	-				
🗅 Home 🗮 Partners (Global)	x					

The items can be repeated in tape or card format.

Таре

When executing a page the items scroll within the repeater as the forward and back icons are pressed. The number of items are visualized initially on the tape depending on the repeater size.



💽 Tape 🗌	Cards		
Data Source			
Search			~
Scroll			
Туре		Direction	
Arrows	~	Horizontal	~
Position		Justify	
Outside	~	Center	~

Data Source

Allows to select the form from which the data is retrieved to be displayed in the repeater.

Туре

If the page is used from a desk the icons < *and* > that indicate the advance or regression of the items on the tape must be selected. If it is used from a touch breakpoint, the "None" option can be selected to scroll.

If the "Arrows" value is selected the properties enabled are Position and Alignment.

Possible Values

- Arrows
- None

Direction

Allows to select the direction in which the items within the example are displayed.

Possible Values

- Horizontal
- Vertical

Position and Alignment

It selects the position of the scroll icons within the repeater.

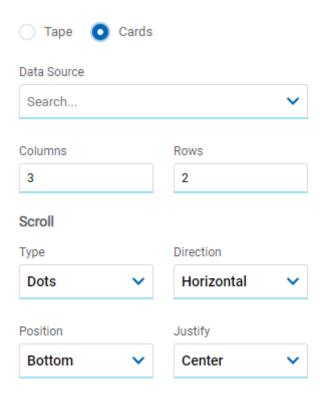
Possible Values

- If for the property Position the values "Inset" and "Outset" are selected, the possible values of the property Alignment are: "Top", "Center", "Bottom".
- If for the property Position the values "Top" or "Bottom" are selected, the possible values for the property Alignment are: "Left", "Center", "Right".

Cards



Different from the tape, items page into the repeater as the forward and back icons are pressed. The number of items is displayed initially in the repeater depending on the modeled values in the Columns and Rows properties.



Data Source

Allows to select the form from which the data is retrieved to be displayed in the repeater.

Columns

Allows to define the number of columns in the repeater.

Rows

Allows to define the number of rows in the repeater.

Type

Allows to select if the icons $\bullet \bullet \circ c >$ that indicate the progress or regression of the items in the repeater are visualized.

Possible Values

- Dots
- Arrows

Direction

Allows to select the direction in which the items within the example are displayed.

Possible Values

- Horizontal
- Vertical



Position and Alignment

It selects the position of the scroll icons within the repeater.

Possible Values for Position

- Top
- Bottom
- Inside Top
- Inside Bottom

Possible Values for Alignment

- Left
- Center
- Right

Item

Items are defined within the repeater and only the first one can be modified since the changes are applied to the rest.

Structure Properties

The structure properties panel of an item opens when selecting the icon $\stackrel{\textcircled{}}{\textcircled{}}$ of the context menu.

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	ь					
Home Partners (Global)		•				

Size



Size

Width	High
100 %	500 px
Minimum Width	Minimum Height
Maximum Width	Maximum Height

All size properties can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh). Additionally, for Width and Height properties, the "auto" option is added.

If selecting percentage (%) for the width and height properties, the size is calculated relative to the top element.

Margins

 Margins 	Ð		
Тор	Bottom	Left	Right
-	-	-	-

Allows to define the distance among items and also from items to the borders of the containing element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the containing element.

Bottom

Distance to the bottom border of the containing element.

Left

Distance to the left border of the containing element or to the previous item.

Right

Distance to the right border of the containing element or to the following item.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.

Advanced



Advanced

Name	Identifier
item1	item1

Name

Name used to reference the item during modeling.

Identifier

Uniquely identifies the item. It is used in the Javascript SDK.

Style Properties

The style properties panel of an item opens when selecting the icon \bigcirc of the context menu.

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Partners 💿 🔡 😂 🕼 🖸 🐼 🗠 🖻	1400 px			Preview
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	(News title) (News description)	otion}	 > Edges I Compared State > Round Edges I Compared State > Shadow 	
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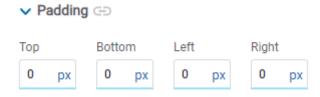
This type of element may take different states and for each of them different values for its properties may be modeled.

Regular	Hover

- Regular: The mouse pointer is not over the element.
- Over: The mouse pointer is over the element.

Padding





All padding space properties allow to create a space around the item borders (top, bottom, sides) and its content. The padding space configured is inward, while the margin is configured relative to a top item. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows values entered in one of the paddings to be copied to the other ones automatically.

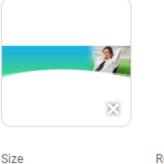
Allows to indicate different values for each padding.

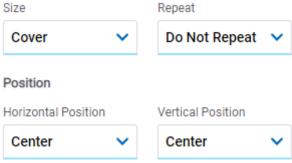
Background Image

Allows to add a background image to the item.

Background Image

Selected





Selected

An image can be uploaded from the computer where it is being modeled.

Background Color

Background Color

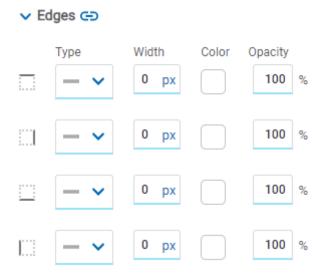




It allows to add a background color to the item.

- Color
- Transparency

Edges



It allows to define the style of borders. Each one has its type, width, color and opacity defined, the latter as a percentage.

Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Round Edges



It allows to define the round edges at the corners of items. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Allows the value entered in one of the borders to be copied to the other ones automatically.
 Allows to indicate different values for each border.

Shadow



Shadow

Туре			
Outset			~
Horizontal		Vertical	
0	рх	0	рх
Blur		Spread	
0	рх	0	рх
•		•	0 %

Allows to define a shadow effect around the item.

Туре

Possible Values

- Outset
- Inset

Horizontal

Horizontal size of the shadow to the right of the item. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Vertical

Vertical size of the shadow below the item. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Blur

The greater this value is, the greater and lighter the shadow becomes. If not specified, its value is 0 and the shadow border is darker. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Spread

Positive values will cause the shadow to expand and grow bigger, while negative values will cause the shadow to shrink. If not specified, its value is 0 and the shadow will have the same size as the item.

Color

Defines the color of the shadow.

Transparency

Defines the transparency of the shadow.



Hyperlink Properties

The hyperlink properties panel of an item opens by pressing the icon 2 of the context menu.

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Partners 🔹 🔡 🕄 🖉 🕼		Preview
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		Target Type * Select
NEWS	Constant of the second of the	

Define the behavior of the item when selecting it. Different properties are enabled depending on the type of object selected.

Page



Page × Page * × News ×	
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Target Type *	
Select 🗸	•
Parameters	
partner	
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 Value Parameters and Variables Data Source 	ce

Page

The pages modeled in the environment are displayed.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

Target Iframe

Displays the iframes previously defines in the page.

Parameters

If there are parameters, their value can be specified with text, parameters and variables or data source.

Deyel Page



Туре	
Deyel Page	×
Deyel Page *	
Reports	×
Target Type *	
Same Tab	~

Parameters

Parameters have not yet been created to send

+ Create new parameter

Deyel Page

The pages belonging to **Deyel** are displayed.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size
- Define its width.

Modal Vertical Size

Define its height.

- Iframe: this option is selected and an additional property is enabled.
 - Target Iframe

Displays the iframes previously defines in the page.

Parameters Allows sending parameters to the selected object type.

Form



×
×
~
~

Parameters

Parameters have not yet been created to send

+ Create new parameter

Form

The forms modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Possible Values

- New: Indicates that the panel of the form selected in the previous property is opened for the creation of an instance.
- Grid: Indicates that the grid of the form selected in the previous property is opened.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

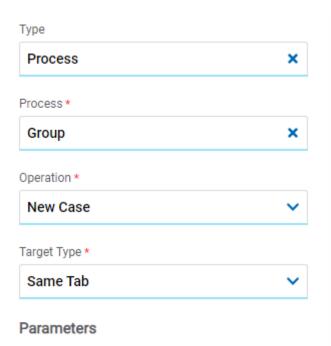


Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Process



Parameters have not yet been created to send

+ Create new parameter

Process

The processes modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size Define its height.



• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Link

Туре	
Link	×
.ink *	
Farget Type *	
Same Tab	~

Link

Allows to enter any link.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

Target Iframe

Displays the iframes previously defines in the page.

Element



Туре	
Element	×
Element *	
Search	~
Operation *	
Focus	~
Behaviour	
Auto	~
Vertical Scroll	
Closest	~

Element

The modeled elements in the page are displayed.

Operation

Defines the operation made when selecting the element.

Possible Values

- Focus
- Show
- Hide
- Show/Hide

Behaviour

Establishes the transition of the animation.

Possible Values

- Auto
- Smooth

Vertical Scroll

Possible Values

- Start: Moves to the start of the selected element.
- Closest: Moves to the closest position to the selected element from the element the event fires.



- Center: Moves to the center of the selected element.
- End: Moves to the end of the selected element.

Back

Туре	
Back	×

It allows associating the event to go back in the browser to the element.

Events

The items allow to use different events.

Event	Description
onMouseIn()	It is executed when the cursor is positioned on the element.
onMouseOut()	It is executed when the cursor moves out of the element.
onClick()	It is executed when clicking on the element.
onDoubleClick()	It is executed when clicking twice on the element.
onlnit()	It is executed before the element is loaded.
afterViewInit()	It is executed after viewing the element.
onViewportEnter()	It is executed when the element is visible.
onViewportLeave()	It is executed when the element is no longer visible.

Icon

Allows to incorporate any icon type.

The element properties are represented by icons in its <u>context menu</u>, where its operations are also available.

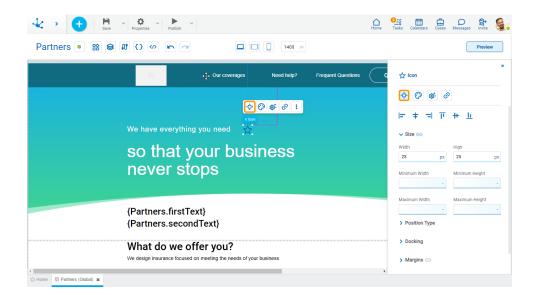


Subtypes

- Small
- Medium
- Large

Structure Properties

The structure properties panel of an element opens when selecting the icon $\textcircled{\begin{tabular}{l} \begin{tabular}{l} \begin{tab$



Alignment

Allows to align the element by selecting one of the available icons.

- F Align to the left.
- 茾 Align to horizontal center.
- I Align to the right.
- T Align up.
- 🕂 Align vertical center.
- L Align bottom.

Size



✓ Size ↔

Width		High	
50	рх	50	рх
Minimum Width	-	Minimum Height	-
Maximum Width	-	Maximum Height	-

Allows to complete Width and Height. The value entered in one of the properties is automatically copied to the other. These properties are expressed in pixels.

Position Type

It determines if at the time of execution the element remains fixed on the page or if it moves as the scroll bar moves forward or backward.

Position Type

Position Type

Default	^
Default	
Fixed	

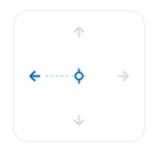
Possible Values

- Default: The element has a relative position with respect to the superior element where it was placed (container or section).
- Fixed: Fixes the element to the page so that it is always visible in the same position. It allows to increase the visibility of important content.

Docking



Docking



Determines the vertical and horizontal position of elements within the page section or container, when the screen is resized.

When an element is added or moved within the section or container, the modeler automatically docks it to the nearest corners or edges. It can also be configured by clicking on the arrows of the side to be docked to or on the center.

Once the element is docked, its exact position is indicated in the Margins property. The direction of the docking arrows determine the values that are automatically displayed for margins.

The docking position is indicated in the modeling area by dotted lines on the element.

Margins

 Margins 	Ð		
Тор	Bottom	Left	Right
-	-	-	-

It allows to define the distance of elements from the borders of their top element. The behavior of margins depends on the docking of the element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

Тор

Distance to the top border of the highest ranking element.

Bottom

Distance to the bottom border of the highest ranking element.

Left

Distance to the left border of the highest ranking element.

Right

Distance to the right border of the highest ranking element.

Allows the value entered in one of the margins to be copied to the other ones automatically.

Allows to indicate different values for each margin.



Advanced

Advanced

Name	Identifier
icon1	icon1

Name

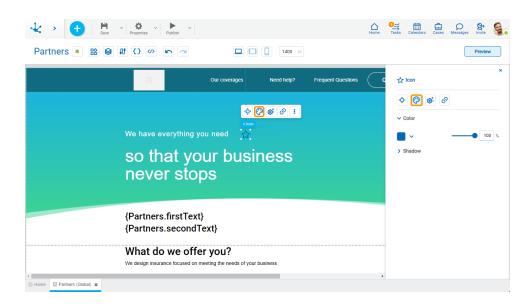
Name used to reference the element during modeling.

Identifier

Uniquely identifies the element. It is used in the Javascript SDK.

Style Properties

The style properties panel of an element opens when selecting the icon 😨 of the context menu.



Color

Color



Allows to define the element color.

Shadow

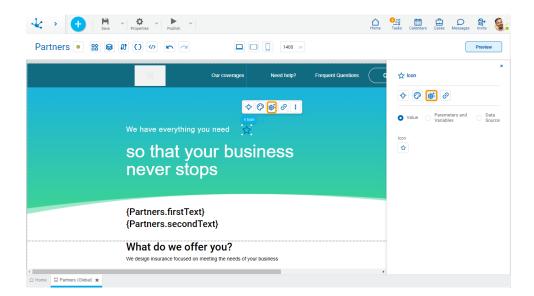


✓ Sha	dow				
Horizon	ital	Vertica	I	Blur	
0	рх	0	рх	0	рх
	~		•		0 %

Allows to define the element shadow.

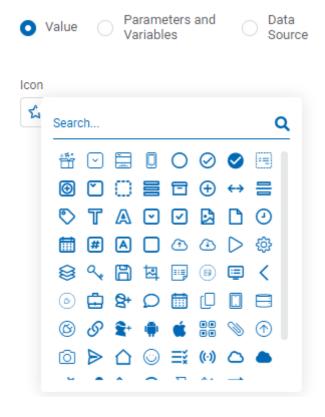
Configuration Properties

The configuration properties panel of an element opens when clicking the icon ¹ of the context menu.



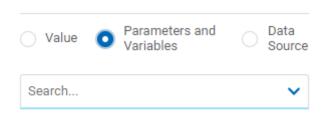
Value





Allows to select and icon from a palette.

Parameters y Variables



Parameters and Variables

Allows to select a <u>parameter</u> or a <u>variable</u> from the page. Its value is displayed in the element. This value can be the code that represents the icon or a valid url.

Data Source



Value		Parameters and Variables	0	Data Source
Data Source	*			
Search				~
Fields *				
Search				~

Data Source

Allows to select a <u>data source</u> that was previously defined on the page.

Fields

Allows to select a field from those retrieved in the chosen data source. Its value is displayed in the element.

Hyperlink Properties

The hyperlink properties panel of an element opens by pressing the icon 2 of the context menu.

↓ → ↓ B × Properties ×	Publish ~			Home	O Tasks Calendars	Cases Messages	State State
Partners 🔹 🔛 🕄 🛷		1400 px					Preview
	Our coverages	Need help?	Frequent Questions		☆ Icon		×
		• © • 0 :			• © •	š 🙋	
		Icon			Type Select		~
We have e	verything you need	2			Target Type *		
so th	hat your bus	siness			Same Tab		~
	er stops						
{Partner	s.firstText}						
•	s.secondText}						
What do	o we offer you?						
	ance focused on meeting the needs of	your business					
Home Partners (Global) ×				•			

Define the behavior of the element when selecting it. Different properties are enabled depending on the type of object selected.

Page



Туре	
Page	×
Page *	
Partners	×
Target Type *	
Same Tab	~
Parameters partner	
Code	
partner	
Value Parameters and Variables	Data Source

Page

The pages modeled in the environment are displayed.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.

Target Iframe

Displays the iframes previously defines in the page.

Parameters

If there are parameters, their value can be specified with text, parameters and variables or data source.

Deyel Page



×
×
~

+ Create new parameter

Deyel Page

The pages belonging to **Deyel** are displayed.

Target Type The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Parameters Allows sending parameters to the selected object type.

Form



Туре	
Form	×
Form *	
Partners	×
Operation *	
New	~
Target Type *	
Same Tab	~

Parameters

Parameters have not yet been created to send

+ Create new parameter

Form

The forms modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Possible Values

- New: Indicates that the panel of the form selected in the previous property is opened for the creation of an instance.
- Grid: Indicates that the grid of the form selected in the previous property is opened.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled.



Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Process

Туре	
Process	×
Process *	
New Partner	×
Operation *	
New Case	~
Target Type *	

Parameters

Parameters have not yet been created to send

+ Create new parameter

Process

The processes modeled in the environment are displayed.

Operation

Defines the operation made when selecting the object.

Possible Value

• New Case: Indicates that a case of the process selected in the previous property is started.

Target Type

The available options for opening the object are displayed.

Possible Values

• Same Tab



- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.

Parameters

Allows sending parameters to the selected object type.

Link

Туре	
Link	×
Link *	
Target Type *	
Same Tab	~

Link

Allows to enter any link.

Target Type

The available options for opening the object are displayed.

Possible Values

- Same Tab
- New Window
- Modal: if this option is selected the additional properties are enabled. Modal Horizontal Size

Define its width.

Modal Vertical Size

Define its height.

• Iframe: this option is selected and an additional property is enabled. Target Iframe

Displays the iframes previously defines in the page.



Elements

Туре	
Element	×
Element *	
Search	~
Operation *	
Focus	~
Behaviour	
Select	~
Vertical Scroll	
Select	~

Element

The modeled elements in the page are displayed.

Behaviour

Establishes the transition of the animation.

Possible Values

- Auto
- Smooth

Vertical Scroll

Possible Values

- Start: Moves to the start of the selected element.
- Closest: Moves to the closest position to the selected element from the element the event fires.
- Center: Moves to the center of the selected element.
- End: Moves to the end of the selected element.

Back



Туре	
Back	×

It allows associating the event to go back in the browser to the element.

Events

The icons allow to use an event.

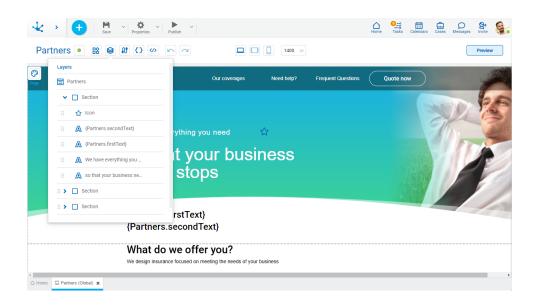
Event	Description
onClick()	It is executed by clicking on the element.

3.7.7.1.2.2. Layers

It allows to display the page elements organized hierarchically. First, sections are displayed, ordered as they are located on the page and within each one, all its elements can be seen.

The elements within a section are displayed in the reverse order, that is, if an element was modeled on another, it is seen first in the list.

If an element was modeled as fixed, it is located at the same level as the sections, that is, as the inferior element of the page.





Operations

Selecting Elements

The layers panel allows to quickly find an element on the page. When selecting an element, it is highlighted on the page.

Show Hidden Elements

If an element is hidden on the page, it is displayed on the layers panel in gray and with the icon $^{\textcircled{0}}$. If this icon is pressed, the element becomes visible.

Elements Panel

Selecting the icon *displays a panel with different options.*

Hide	
Delete	Supr
Properties	

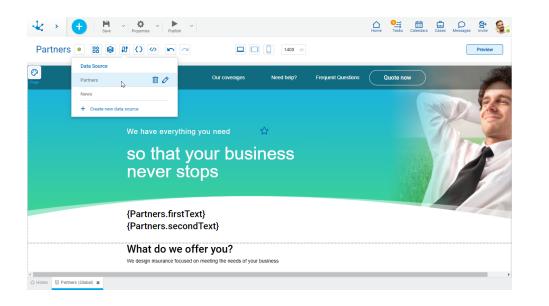
Reorder Elements

It allows to easily order the elements within the same superior element, dragging them in the list to the desired position.

3.7.7.1.2.3. Data Source

Using the icon 🚺 a set of data sources can be defined , which can be used on the page.





Operations can be performed on each line of the existing sources. Click on the icons **and** click or update it respectively.

A new data source can be created from the icon +. When defining a new data source or selecting an existing one, a panel with its information opens.

$\prec \rightarrow 0$	+ 🛱 ~ 🌣 ~ Þ Save ~ Properties ~ Þubl	sh		🛆 🤐 🛗 🖨 O Strategy and Stra
Partners			1400 px	Preview
	Data Source Partners News + create new data source We have every So that never {Partners.fir {Partners.see What do w	Data Source Name New Data Source Type Form Rule Filters + Sorting Field Select a field		Quote now
A Harra El Batter		ocused on meeting the needs of your bus	iness	,

Properties

Data sources can originate in <u>forms</u> or in <u>rules</u>, in both cases they share some properties and have specific ones.

Name

Name used in the modeler to reference the data source.

Code

It is used internally to reference the data source.



Туре

Determines the type of object from which the data is to be taken. The possible values for this property are "Form" and "Rule".

Data origin

It allows to select the object from which the data will be taken.

Sorting

Field

It allows to select the field the information will be sorted by in ascending or descending order.

Form as Data Source

When the data source is of the form type, specific properties must be modeled.

*	> 🕂 🗎	✓ Properties ✓ Publish	~		Home Tasks Calendars Cases	Dessages Invite
Partr	ners 🔹 😫 😂			1400 px		Preview
0	Data Source		Data Source	×		
Page	Partners		Name	Code	Quote now	1
	News		New Data Source	NewDataSource		60
	+ Create new (data source	Туре	Data origin	2388	VOI 125
			Form 🗸	Search 🗸		A P
		We have everyt	Fields to retrieve			
		so that				
			Filters +			
		never s	Tintera T			
			Sorting Field			
		{Partners.firs	Select a field 🗸	O Upward O Descending		
		{Partners.sec				
				Cancel New		
		What do we				
		We design insurance focu	sed on meeting the needs of your but	siness		
4	-					•
△ Home	🗄 Partners (Global) 🗙					

Properties

Fields to retrieve

It allows to select the fields of the selected entity.

Filter

The icon + allows to expand a panel with the available fields to define the selection criteria of the data.

Depending on the type of field, filter conditions are different, fixed values, variables or parameters can be entered and combined by means of operators. Once the filter criteria have been defined, the "Add" button should be pressed so as to define the filter.

Filter Conditions



Numeric Fields

The value entered should be numeric. Search criteria:

- Greater than
- Greater equal to
- Less than
- Less equal to
- Between
- With Data
- No Data

Alphanumeric Fields

Enter a text to search for. Search criteria:

- Contains
- Equal to
- Starts with
- Does not start with
- No Data
- With Data

Date Fields

A calendar opens to select the date and it can be filtered using different search criteria. Options:

- Today
- Last 7 days
- Current Month
- Current Year
- Last Month
- Last Year
- From (Requires selection of a start date)
- To (Requires selection of an end date)
- Range (Requires the selection of a start date and an end date)
- Equal (Requires selection of a date)

DateTime Fields

A calendar opens to select the date and time, it can be filtered using different search criteria.

- From
- Until
- Equal
- Range

Value Lists Fields

The list values are displayed. Search criteria:

- Included
- Not Included
- With Data
- No Data

Rule as Data Source



When the data source is of the rule type, specific properties must be modeled.

$\checkmark\!$	+ H Save	✓ Properties ✓ Publish	~		🛆 🏩 🛗 🖨 🔎 😫
Partne	rs • 船 😂		~ •	1400 px	Preview
0	Data Source		Data Source	×	Quote now
Page	Partners		Name	Code	
	News		New Data Source	NewDataSource	
	+ Create new da	ata source	Туре	Data origin	
			Rule 🗸	Search 🗸	G G
		We have everyt	Output parameters		
		as that			
		so that	Input parameters +		
		never s	input parameters -		
			Sorting		
		{Partners.firs	Field V	 Upward Oescending 	
		{Partners.sec	Corect a nora		
		(i di inci s. sec		Cancel New	
		What do we			
			used on meeting the needs of your busi	iness	
4					
△ Home 🗒 P	artners (Global) 🗶				

Properties

Output parameters

It is possible to display the output parameters of the selected rule.

Input parameters

The icon + allows to expand a panel with all the input parameters available for selection. Page parameters, fixed values or variables can be entered for each chosen parameter.

3.7.7.1.2.4. Variables and Parameters

The modeled page allows to define variables and input parameters by means of the icon \bigcirc . Once the panel is opened, variables are displayed by default, parameters can also be selected.

Variables

Variables used in pages are defined.

They allow to define data that can be used as the value of elements and in the filters of <u>data sources</u>. They can only be modified by code.

Operations can be performed on variables. Click on the icons $\overline{\mathbf{I}}$ and $\mathbf{2}$ on each row to delete or update it respectively.



↓ → 🛨	H Save	✓ Properties ✓ Publish ✓				Home	o ∰ Tasks Calendars	Cases	O Messages	St State
Partners 🔹	**			1400 px						Preview
Page	Amount Ouotation	Parameters	Our coverages	Need help?	Frequent Questions	Qu	ote now			P
		new variable						-All	M	PE
		We have everything so that y never sto	our bus	☆ iness					P	P
		{Partners.firstTe {Partners.second								10
		What do we of We design insurance focused of	-							
Home Partners (Glo	ibal) 🗙									•

A new variable can be created from the icon +. When a new variable is defined or an existing one is selected, a panel with its information opens.

√ < → 🕕	Save → Properties → Publish		Home Tasks Calendars Cases Messages Invite
Partners •		1400 px	Preview
2	Variables Parameters Amount Quatation + Create new variable We have everything you so that you never stop	Our coverages Need help? Frequent Questions New Variable X Name	Quote now
	{Partners.firstText} {Partners.secondTe What do we offer We design insurance focused on me	-	
A Home Partners (Glob	bal) 🗙		,

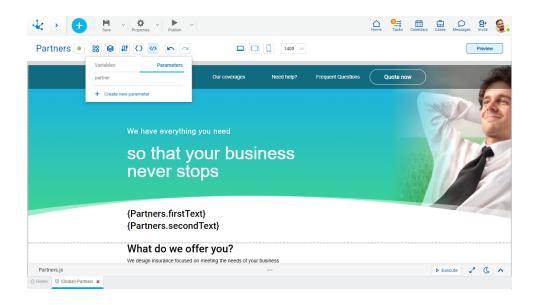
Parameters

The parameters used in pages are defined.

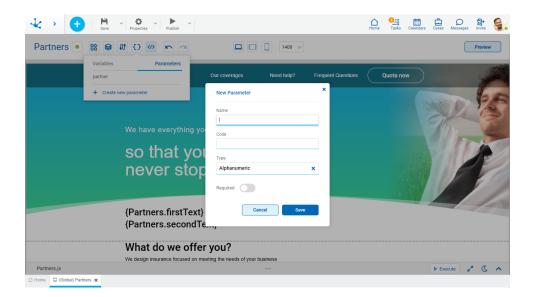
Data received by the page that cannot be modified. As with variables, they can be used in elements and <u>data sources</u>.

Operations can be performed parameters. Click on the icons $\overline{\bullet}$ and \swarrow on each row to delete or update it respectively.





A new parameter can be created from the icon + . When defining a new parameter or selecting an existing one, a panel with its information opens.



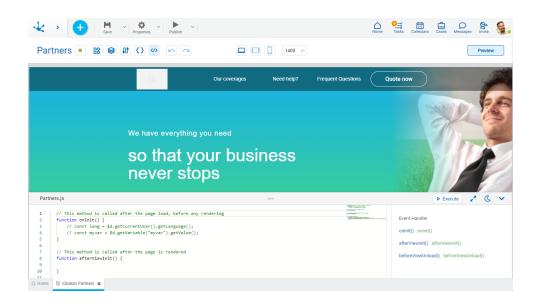
Once the page is published, it can be accessed from a web browser with the <u>full access path</u>, followed by the sign "?", the name of each parameter, the sign "=" and its value. If there is more than one parameter, they are concatenated by the sign "&". For example "myenvironment.deyel.com/pages/<URL property content>?<parameter name>=<parameter value>".

3.7.7.1.2.5. Code Editing

It is the part of the modeling area where the functionality of the page and its elements can be extended. Each element has a list of built-in events depending on the <u>element type</u>.



The code editing area is displayed at the bottom of the page, following a bar with icons. The icon $\underbrace{}^{m}$ in the center of the bar allows you to modify the size of the area, while the icon $\underbrace{}^{m}$ on the far right allows to close it.



Sections

- Javascript code editor of the page: It allows to add and update functions associated with the events of elements or pages.
- Event list: The event handler is displayed to the right of the code editor, it contains the identifier and the list of events of the selected element. If no element is selected, the list of page events expands.

Editor Options

- ▶ Execute Performs the same operation as the preview.
- Increases the panel size and covers the page modeling area.
- Returns the panel to its previous size.
- Changes the style of the code editor to dark mode.
 - Changes the style of the code editor to the previous mode.

Operations

Associate a Function



The page has functions defined by default associated with its three events. Instead, its elements do not have any function defined.

To associate a function to an event, select the event in the event list of the element and enable entering the function name. A name is automatically generated with the identifier of the element concatenated with the event name and when pressing the icon, + the function that is associated with the event is created in the code.

If the function already exists, a number is automatically added as a suffix. It must be validated that no functions with the same name are created.

Select a Function

Selecting a function in the event list of the element sets focus to that function in the Javascript code editor.

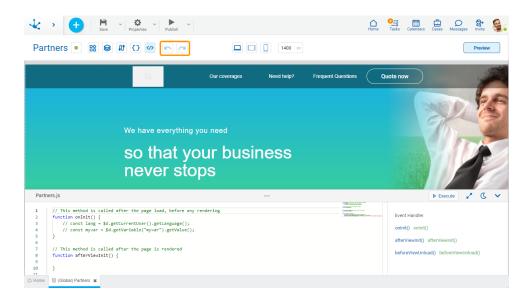
Disassociate a Function

To disassociate a function from an event, press the icon it that is displayed when hovering the cursor over the line in the event list. The association of the function with the event is deleted but it is not deleted from the code.

If the function is deleted in the Javascript code, it remains associated in the list of events, however the event does not execute any function and does not throw any error.

3.7.7.1.2.6. Undo and Redo

Easily reverts or resets changes made on the page using the icons 🔄 and 📿 respectively.

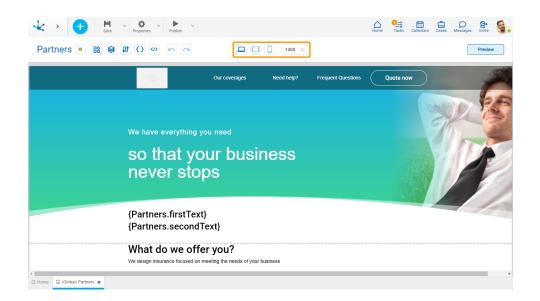


3.7.7.1.2.7. Breakpoints



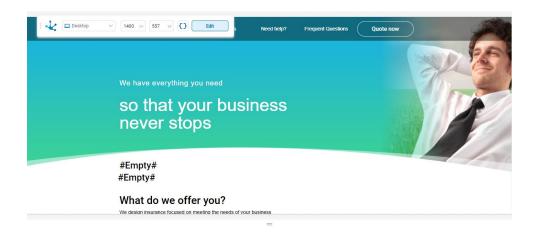
They allow users to always see the best version of their page, regardless of the device they are viewing it from.

The modeler includes the most common breakpoints (desktop, tablet and mobile), they allow to adapt the page to individual screen sizes by defining what prevails in the layout. Styles can be rearranged, elements can be chosen to be shown or hidden, and the layout can be customized for each of the breakpoints.



3.7.7.1.2.8. Preview

It provides a view of the modeled page, showing how it would look on different devices.



Top Bar Items

Breakpoints and Devices

The type of device on which the preview of the modeled page will be displayed is selected



Pixels

It is displayed automatically according to the selected device.

🕑 No parameters defined on the page.

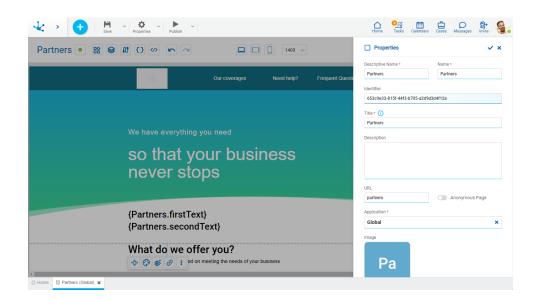
It allows to enter a value for each parameter defined on the page.

Edit

It allows to go back to code editing.

General Properties 3.7.7.2.

To enter the properties panel of a page, click on the icon 🏶 from the top toolbar.



Properties

Descriptive Name

Name used by the user to reference the page.

Name

It is used at the modeling level to reference the page.

Identifier

Uniquely identifies the page.

Title

It should summarize the page content and is displayed in the search results.

Description

Text that defines the page describing its functionality.

URL



Page identifier in the URL.

Absolute Path

By defining the identifier, the access path to the page is automatically filled in.

Once the page is published, it can be accessed from a web browser with the absolute path. If <u>parameters</u> are defined, their names and values should be added below. The published page can also be accessed from the modeler by clicking on this property.

Anonymous Page

If this property is checked, the user does not have to be connected to the application to access the page.

Application

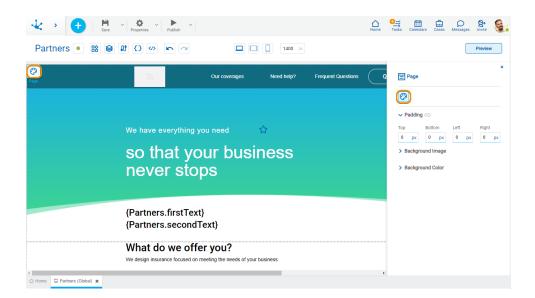
It allows to define the application to which the object belongs.

Image

It allows to customize the page by adding an image. This image represents the page in the applications modeler if it is selected as the home page.

3.7.7.3. Style Properties

The style properties panel of a page opens when selecting the icon 😨 of the context menu.



Padding

✓ Padding ⊂⊃

Тор	Bottom	Left	Right
0 рх	0 px	0 рх	0 рх



All padding space properties allow to create a space around the element borders (top, bottom, sides) and its content. The padding space configured is inward, while the margin is configured relative to a top element. It can be expressed in pixels (px), percentage (%), viewport width (vw), and viewport height (vh).

0

- ← Allows values entered in one of the paddings to be copied to the other ones automatically.
- Allows to indicate different values for each padding.

Background Image

Selected		
	9/	
	8	
Size		Papaat
Size		Repeat
Cover	~	Do Not Repeat 🗸 🗸
Position		
Horizontal Pos	ition	Vertical Position
Center	~	Center 🗸

It allows to add a background image to the section.

Selected

An image can be uploaded from the computer where it is being modeled.

Size

Possible Values

- Cover
- Content
- Auto

Repeat

Possible Values

• Repeat



- Repeat Hor.
- Repeat Vert.
- Spacing
- Rounded
- Do Not Repeat

Horizontal and Vertical Position

Possible Values

- Center
- Left
- Right

Background Color

It allows to model a background color for the element, it can be solid or gradient and different properties are defined for each one.

Solid

Background Color

This option enables not only to select the color from a palette but also to define the degree of transparency.



Solid	Gradient
≇ 000000	
# 000000	Hex
 965-513-554-51-1 	Hex
5554C1 (1874) (1974)	Hex

Gradient

✓ Background Color



This option enables to select not only the color from a palette but also to define its opacity and intensity according to the selected angle.



Solid .	Gradient
# 000000	100 %
Hex	Opacity

3.7.8. Dashboards Modeling

The dashboard modeler is a tool that allows to model in an easy and intuitive way the applications dashboards and to publish them. The indicators included in the dashboards are modeled with the indicator modeler.

From the portal, each business user can design its own dashboard, with the personalized information and their use preference, or they can use the dashboards created by the IT modelers.



Modeler 90 2				Search	Q 77, 3
Name	Application	Туре	State	Update 🗸	Update User
Address Type	Global	Value List	•	18/11/2022 17:22	9
Account	Global	河 Formulario Ágil	•	18/11/2022 17:20	9
State of the Accounts	Global	🖂 Value List	•	18/11/2022 17:20	9
Social Network	Global	 ✓ Value List 	•	18/11/2022 17:20	9
Phone Types	Global	 ✓ Value List 	•	18/11/2022 17:20	9
Mail Types	Global	✓ Value List	•	18/11/2022 17:20	8
Origins	Global	✓ Value List	•	18/11/2022 17:20	&
Industries	Global	Value List	•	18/11/2022 17:20	S
Customer	МуАрр	🕮 Form	•	18/11/2022 17:19	9
Opportunity	МуАрр	🕮 Form	•	18/11/2022 17:19	9
					0 2

The general characteristics of the dashboards modeling and the elements that compose it are described in the topics:

- Modeling Facilities
- Dashboard Properties

A new dashboard can be created from the icon \bigcirc corresponding to the <u>context menu</u>.

- From the icon 😑 displayed when hovering over the context menu.
- From the menu displayed with the option "Dashboard".

An existing dashboard is modified by selecting it from the grid with the "Open" button.

3.7.8.1. Modeling Facilities

General characteristics of this modeler are specified below.

New Dashboard

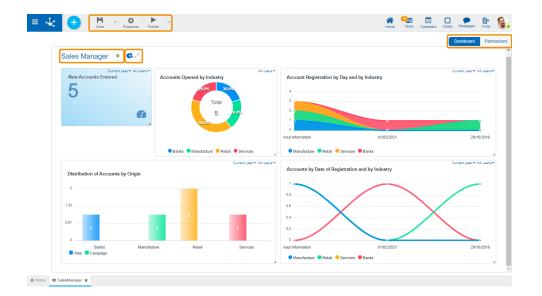
The IT modeler user can define application dashboards. After being published it is available for users to have permission in an application or, in case of being more than one application dashboard, to have the specific permission.

Workspace Sections

- <u>Top Toolbar</u>
- Design Options
- Data Area



- Icon to Add Indicators
- Dashboard Body



Data Area

Contains the dashboard name and the state of the dashboard.

Icon to Add Indicators

Allows to incorporate indicators to the dashboard.

Body

In this section the published indicators that make up the dashboard are located. Its maintenance is done from the modeling option "<u>Dashboard</u>".

3.7.8.1.1. Top Toolbar

This toolbar contains icons and submenus from which you can perform operations on the object. Depending on its <u>state</u>, some options may be disabled.

The bar is displayed on the toolbar of **Deyel**.



				Dashboard Pe
Sales Manager 🔹 🔩 🦉				
Current year Y All users Y New Accounts Entered	All us Accounts Opened by Industry	Account Registration by Day	and by Industry	Current year ¥ All user
5	200% Total 5 20%		0	
		o hout Information	01/02/2021	29/10/2016
	Banks Manufacture Retail Services	Manufacture Retail Serv	ices 🗧 Banks	
Distribution of Accounts by Origin	Current year V All use		ation and by Industry	Current year❤ All user
2		0.8		
1.33	-	- 0.6		
0.67	1 1	0.4		
Banks Manufactur Web Campaign	re Retail Services	hout Information	01/02/2021	29/10/2016



This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". If certain conditions are met, the modeler user receives a message indicating that the operation was performed correctly, otherwise they receive an explanatory message.

Main Conditions

- The application of the object must exist.
- The name must be unique in the application.
- The object must not be locked by another user.
- The object's permissions must exist.

To the right of the icon the option to open the <u>submenu</u>.



Open the dashboard properties panel.



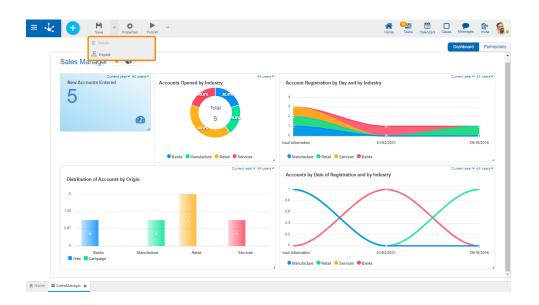
By means of this icon the object goes to "Published" state, after verifying a set of additional conditions to those of the "Save" operation. The modeling user receives the corresponding message, indicating the result of the operation.

To the right of the icon the option to open the submenu submenu.

3.7.8.1.1.1. Save Submenu



This submenu is opened by pressing the icon immediately to the right of the icon corresponding to "Save".

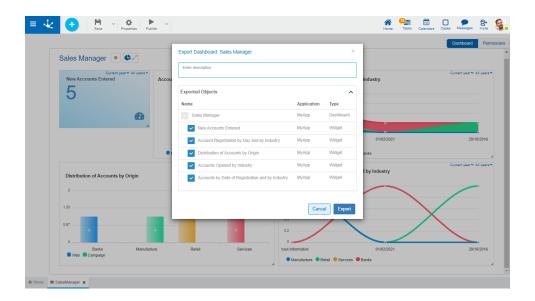


🛍 Delete

Allows to delete the object only if it is in "Draft" <u>state</u>, closing the tab in which it is located and deleting it from the modeler's grid.

🛃 Export

This icon opens a window for the user to select and confirm the export of the object and the related objects included in it.



Description



In this property a text explaining the reason for the operation can be entered. This text can be modified upon import and is displayed in the description column of the <u>export record</u>.

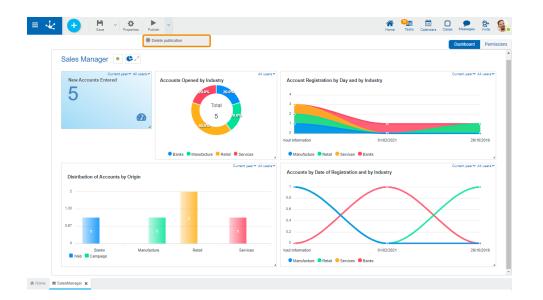
Exported objects

By expanding the container, the objects related to the dashboard being exported are shown. Objects not meant to be exported are unchecked.

You must press the "Cancel" button to leave the export without effect or the "Export" button to finish the operation.

3.7.8.1.1.2. Publish Submenu

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Publish".



Delete Publication

Allows to leave the dashboard unavailable for use by returning it to the "Draft" state.

3.7.8.1.2. Design Options

These options are presented on the upper right margin.

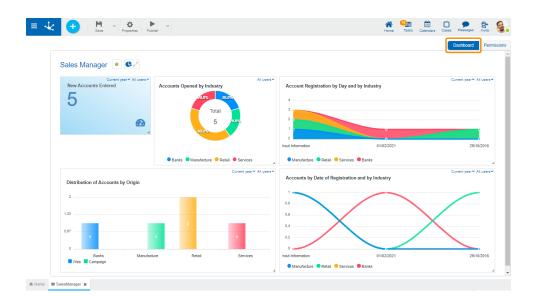


Sales Manager 🍥 🚭 🦉	
New Accounts Entered Accounts Opened by Industry	users ♥ Account Registration by Day and by Industry
5 2007 Total 5 2075 3075	
	o 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Banks Manufacture Retail Services	Manufacture Retail Services Banks
Current year ♥ Al Distribution of Accounts by Origin	Current year All Accounts by Date of Registration and by Industry
2	
1.33	
2	
0.07	0.2
0 Banke Manufashura Datai Saninae	0
o Banks Manufacture Retail Services	

- Dashboard
- Permissions

3.7.8.1.2.1. Dashboard

In this section the maintenance of the dashboard widgets is done.



Operations

Add Indicators



Displays the gallery of published indicators on which the user has permission. For each indicator tor its name is visualized as well as its <u>icon</u>.

The "Search" option, in the gallery allows to filter indicators by the entered text.

Closes the indicators gallery.

Modify Indicators

The modifications the user applies on the indicators of a dashboard, have impact only in the visualization of such dashboard.

- Modify the indicators size. in order to secure the suitable visualization, each indicator is assigned a minimum size to respect.
- Modify the location of the dashboards in the dashboard area.
- Change user filters.
- Change date filters.
- Delete dashboard indicator.
- Add indicator.

Operation modify size and modify location are done with the function "Drag and Drop".

3.7.8.1.2.2. Permissions

Allows to assign the <u>security functions</u> for use and modeling of the object to the existing permissions or to new permissions that the user creates, without having to go to the <u>permission</u> settings option from the menu.

Sections

- Permissions: Permissions to which object functions are assigned.
- Security Functions: Represents the total set of security functions, modeling and use of the object. Those that are marked are the ones included in the selected permission.

By default, all security functions for a new object are assigned to the permission Modeler.

Users who are assigned the permissions have access to the functions included in it.



board Sales Manager		
Nodeling Sales Manager	nager	
Open in Modeler Sales Manager	-	
Save Changes Sales Manager		
Publish Sales Manager Delete publication Sales Manager		
Delete Definition Draft Sales Manager		
Sales Manager		
Jse Sales Manager		
Show Sales Manager		

New Opens a panel to create a new permission and once created, the security functions included in it must be selected .

Search permissions... Allows to select a permission from a list and enables the input of characters to filter the values in the list.

Opens the wizard to select a permission and once chosen, the necessary object security functions must be checked.

To unrelate a permission from the object, hover the cursor over the permission and press the icon X. If there are functions selected for that permission, they must be unchecked in order to delete it.

Security Functions to Model the Dashboard

- Visibility: Allows to display the object in the Deyel modeler.
- Open: Allows to show the object from the Deyel modeler.
- Save: Enables the operation of saving modifications made to the object.
- Publish: Enables the operation of publishing the object leaving its state as "Published".
- Delete publication: Enables the operation of deleting the object publication leaving its state as "Draft".
- Delete draft definition: Enables the operation of deleting the object.
- Export: Enables the operation to export the object from the save submenu of the top toolbar.

Security Functions to Use the Dashboard

• Show: Allows to show the object.

3.7.8.2. Dashboard Properties



The properties of the dashboards can be entered both at the time of their creation and when modifying an existing one.

Entering the dashboard properties panel is done using the icon which is in the top toolbar.

			Dashboard	
Sales Manager 💿 🐟	A		Descriptive Name	Name
		0 energi	Sales Manager	SalesManager
Current year All u New Accounts Entered	All u	Account Registration by Day a	Identifier	Application
5	20.0% 20.0%		bb0375724ace4bf1bb97d0095	MyApp - MyApp
O		4		
	Total			
6	5 2000	1.		
		0		
		hout Information		
	Banks Manufacture Retail Services	Manufacture Retail Services Bi		
	Current year ← All u			
Distribution of Accounts by Origin	n	Accounts by Date of Registration and		
2		1		
		0.8		
1.33		0.0		
0.87	2	0.4		
1	1 1	0.2		
0		•		
	Manufacture Retail Services	hout Information		

General Tab

Properties

Descriptive Name

It is the name visualized from the dashboard.

Name

It is the dashboard's name. It does not allow blanks or special characters. It is unique and required.

Identifier

It is the internal dashboard's name. It is automatically generated.

Application

Allows to define the application to which the object belongs. If no application is reported, the object is assigned to the application "Global".

Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🔀 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.9. Widgets Modeling



The widgets modeling can be used to design and implement in an easy and intuitive way, the required widgets to display the relevant information for the user, as management issues, tasks and calendars.

Modeler 90 2				Search	Q 77 3
Name	Application	Туре	State	Update 🗸	Update User
Address Type	Global	🗵 Value List	•	18/11/2022 17:22	۹)
Account	Global	🛞 Formulario Ágil	•	18/11/2022 17:20	۵.
State of the Accounts	Global	 ✓ Value List 	•	18/11/2022 17:20	8
Social Network	Global	Value List	•	18/11/2022 17:20	۹.
Phone Types	Global	Value List	•	18/11/2022 17:20	۹.
Mail Types	Global	Value List	٠	18/11/2022 17:20	۹.
Drigins	Global	 ✓ Value List 	•	18/11/2022 17:20	۹.
Industries	Global	Value List	•	18/11/2022 17:20	8
Customer	МуАрр	Form	•	18/11/2022 17:19	6
Opportunity	MyApp	Form		18/11/2022 17:19	6

The general characteristics of the widgets modeling and the elements that compose it are described in the topics:

- Modeling Facilities
- <u>Widget Properties</u>

A new widget can be created from the icon corresponding to the <u>context menu</u>.

- From the icon 🧿
- From the menu displayed with the option "Widget"

An existing widget is modified by selecting it from the grid with the "Open" button.

3.7.9.1. Modeling Facilities

General characteristics of this modeler are specified below.

New Widget

The TI modeler user can design a new widget, which after being published, is available to be used on a dashboard.

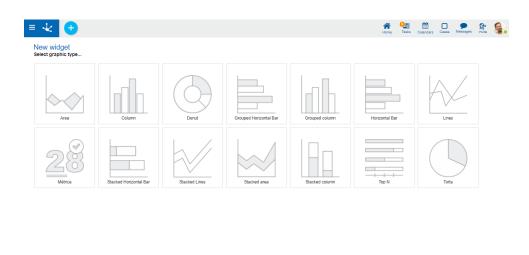
Steps for Creating a New Widget

Step 1



Select the graphic type.

I



A Home New widget 1 🗙

Step 2

Assign the name, optionally write the description and press the "Create" button.

= 🕹 🕂			Home Tasks	Calendars Cases Messages Inv	£ 🤹
New widget Select graphic type	New widget Descriptive Name* Enter description Column		Horizontal Bar		
28 Mérica	3 Horizontal Bar Stacked Lines	Cancel New Stacked area Stacked column	Top N	Torta	
A Home New widget 1 x					

Step 3

Complete the widget using the sections of the workspace.

Workspace Sections

• <u>Top Toolbar</u>

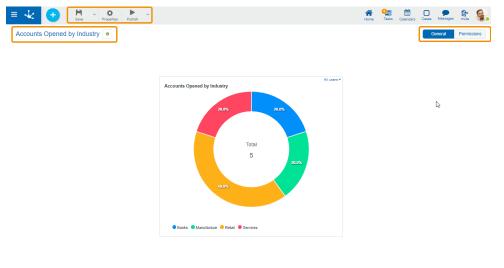


• Widget Information

- Name

- • <u>State</u>

• Design Options

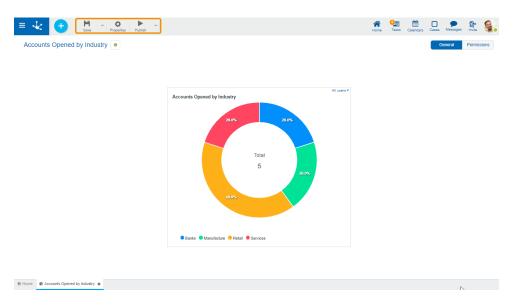


Accounts Opened by Industry 🗶

3.7.9.1.1. Top Toolbar

This toolbar contains icons and submenus from which you can perform operations on the object. Depending on its <u>state</u>, some options may be disabled.

The bar is displayed on the toolbar of **Deyel**.







This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". If certain conditions are met, the modeler user receives a message indicating that the operation was performed correctly, otherwise they receive an explanatory message.

Main Conditions

- The application of the object must exist.
- The name must be unique in the application.
- The object must not be locked by another user.

To the right of the icon the option to open the submenu.

🌣 Properties

Open the widget properties panel.

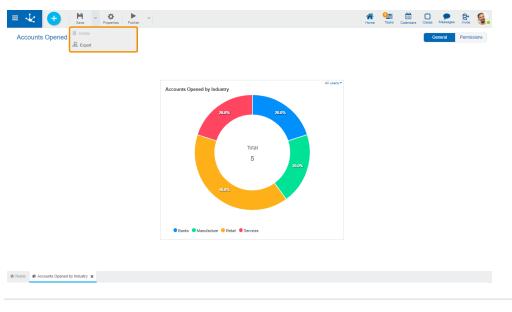
Publish

By means of this icon the object goes to "Published" state, after verifying a set of additional conditions to those of the "Save" operation. The modeling user receives the corresponding message, indicating the result of the operation.

To the right of the icon the option to open the submenu.

3.7.9.1.1.1. Save Submenu

This submenu is opened by pressing the icon immediately to the right of the icon corresponding to "Save".





🛍 Delete

Allows to delete the object only if it is in "Draft" <u>state</u>, closing the tab in which it is located and deleting it from the modeler's grid.

🛃 Export

This icon opens a window for the user to select and confirm the export of the object.

= 🛃 🕂 🗎 🖁 Save V Roperties 🕨 Publish	~			Home	Des Cak	endars Cases	Messages	8+ invite	9.
Accounts Opened by Industry	Export Widget: Accounts Opened by Indus Enter description Exported Objects Name Accounts Opened by Industry	Application My/App	X Type Widget		See (endars Cases		ermissions	9 .
Home Accounts Opened by Industry x									

Description

In this property a text explaining the reason for the operation can be entered. This text can be modified upon import and is displayed in the description column of the <u>export record</u>.

Exported objects

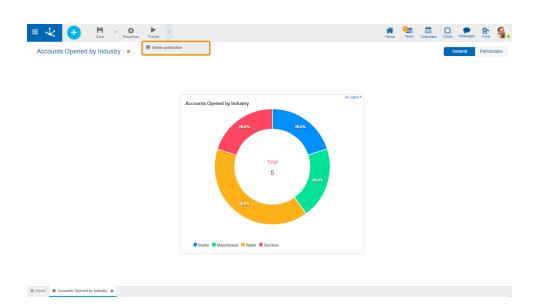
By expanding the container, the name of the object being exported is displayed.

You must press the "Cancel" button to leave the export without effect or the "Export" button to finish the operation.

3.7.9.1.1.2. Submenu Publish

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Publish".





Delete Publication

Allows to leave the widget unavailable for use by returning it to the "Draft" state.

3.7.9.1.2. Design Options

These options are presented on the upper right margin.

Alizer*	Image: state	n	Home	Pasks Tasks	Calendars	Casas Messages	Permissions
		Accounts Opened by Industry					

• General

From this design option the widget is visualized and when hovering over it the data values that compose it can be seen.

• Permissions

3.7.9.1.2.1. Permissions



Allows to assign the <u>security functions</u> for use and modeling of the object to the existing permissions or to new permissions that the user creates, without having to go to the <u>permission</u> settings option from the menu.

Sections

- Permissions: Permissions to which object functions are assigned.
- Security Functions: Represents the total set of security functions, modeling and use of the object. Those that are marked are the ones included in the selected permission.

By default, all security functions for a new object are assigned to the permission Modeler.

Users who are assigned the permissions have access to the functions included in it.

🗏 🛃 💾 📓 🖉 🔅 🕨		A Home	Oggi Tasks	Calendars	Cases	Messages	8+ Invite	۹.
Accounts Opened by Industry					G	eneral	Permissio	ons
Permissions New-+ Search permissions	Functions							
© Modeler	■ ✓ Widget Accounts Opened by Industry							
	Modeling Accounts Opened by Industry							
	 Visibility in the modeler Accounts Opened by Industry Open in Modeler Accounts Opened by Industry 	/						
	 Open in Modeler Accounts Opened by Industry Save Changes Accounts Opened by Industry 							
	Publish Accounts Opened by Industry							
	Delete publication Accounts Opened by Industry							
	Delete Definition Draft Accounts Opened by Industry							
	Accounts Opened by Industry							
	 Use Accounts Opened by Industry 							
	Show Accounts Opened by Industry							
Home								
т попе • Ассолна оренев ву шаваа и								

New Opens a panel to create a new permission and once created, the security functions included in it must be selected .

Search permissions...
Allows to select a permission from a list and enables the input of characters to filter the values in the list.

••• Opens the wizard to select a permission and once chosen, the necessary object security functions must be checked.

To unrelate a permission from the object, hover the cursor over the permission and press the icon X. If there are functions selected for that permission, they must be unchecked in order to delete it.



Security Functions to Model the Widget

- Visibility: Allows to display the object in the Deyel modeler.
- Open: Allows to show the object from the Deyel modeler.
- Save: Enables the operation of saving modifications made to the object.
- Publish: Enables the operation of publishing the object leaving its state as "Published".
- Delete publication: Enables the operation of deleting the object publication leaving its state as "Draft".
- Delete draft definition: Enables the operation of deleting the object.
- Export: Enables the operation to export the object from the save submenu of the top toolbar.

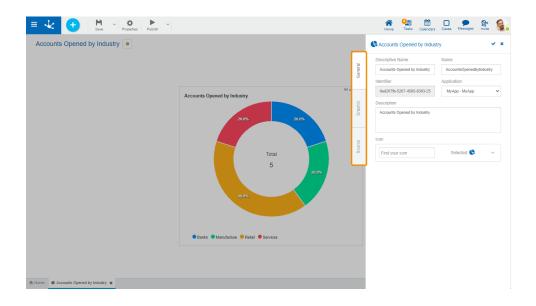
Security Functions to Use the Widget

Show: Enables the operation of showing the object.

3.7.9.2. Widget Properties

The properties of the widgets can be entered both at the time of their creation, and when modifying an existing one.

Entering the widget properties panel is done using the icon 🔅 which is in the top toolbar.



Tabs

- <u>General</u>
- Graphic
- <u>Source</u>



3.7.9.2.1. General

The properties panel is displayed on the right side of the widget modeler, where the first tab corresponds to general information.

😑 🕹 😝 🗎 V 🍄 🕨			Home	Ome Tasks	Calendars	Cases Mess	eges Invite	6
See Properties (Locar	Accounts Opened by Industry	Source Gaphic Gaphic	Contract Accounts Descriptive Accounts Identifier Oed2076-2 Description	S Opened Name Opened by Ir 5207-4585-8	by Indust ndustry 3303-25	ry Name	enedbylndustr App	~ ×
Home Accounts Opened by Industry X								

Properties

Descriptive Name

It is the name used by users to reference the widget, for example in the modeler's grid and in the dashboards. It is required.

Name

It is internally used to reference the widget. It does not allow blanks or special characters. It is unique and required.

Identifier

Uniquely identifies the widget. It is automatically generated.

Application

Allows to define the application to which the object belongs. If no application is reported, the object is assigned to the application "Global".

Description

Text that describes the topic the widget allows to analyze, when incorporated into a dashboard.

lcon

Allows to incorporate an icon that visually identifies the widget when the operation is made <u>Add wid-</u><u>get</u>, from the use of the dashboard.

The list of available icons is displayed to select one of them. The list is reduced as the name is written on the text "Find your icon".

Actions

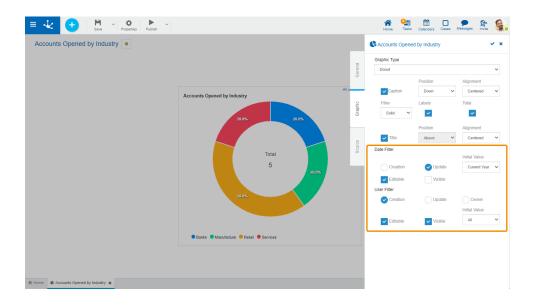


The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🔀 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.9.2.2. Graphic

The second tab of the side panel corresponds to the charts information. Allows to do the management of the properties of each chart type.



Properties

In addition to these shared properties, each type of widget has specific properties, which are detailed for each chart.

- Metrics
- <u>Areas</u>
- Lines
- Bars and Columns
- <u>Pies and Donuts</u>
- Funnel

Title

If this property is selected, when using the widget on a dashboard, the descriptive name is displayed. In this case it must also indicate:

Position

Allows to locate the title in the upper or lower sector of the widget area.

Justify

Allows to position the title to the right, center, or left, within the widget area.

Date Filter

Creation

Indicates that the date filter is applied on the creation date.



Update

Indicates that the date filter is applied on the modification date. Editable

Indicates if the user can modify the filter conditions when using the widget from the dashboard, only if they have permission to do it.

If the user makes modifications and saves the dashboard, the new filter conditions established are maintained.

Visible

Indicates whether the filter is visualized or not when using the widget from the dashboard.

Initial Value

Indicates the value displayed from the dashboard by default.

- Possible Values:
- Today
- From
- Last 7 days
- Current month
- Current year
- Last month
- Last year

User Filter

Creation

Indicates that the user filter is applied on the creation user.

Update

Indicates that the user filter is applied on the modification user.

Owner

Indicates that the user filter is applied on the instance owner.

Editable

Indicates if the user can modify the filter conditions when using the widget from the dashboard, only if they have permission to do it.

If the user makes modifications and saves the dashboard, the new filter conditions established are maintained.

Visible

Indicates whether the filter is visualized or not when using the widget from the dashboard. Initial Value

Indicates the value displayed from the dashboard by default.

- Possible Values:
- Current user
- All
- My Team

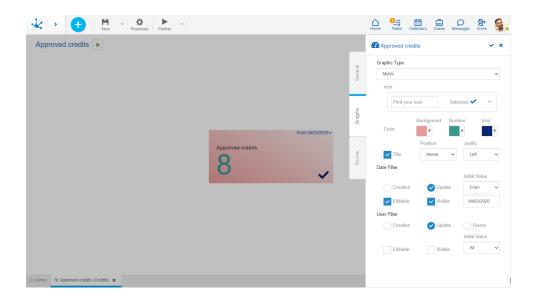
My team is made up by all of the users that belong to the organizational unit for which the logged in user is the administrator and all users of a role for which they are coordinator.

3.7.9.2.2.1. Metrics

Metric type widgets represent a numerical value, a quantitative measure that is used to measure and compare.

To the properties shared by all the widgets those specific to metrics are added.





Properties

lcon

Allows to incorporate an image displayed within the widget. It is incorporated in the same way as the <u>icon</u> of the "General" tab.

Color

Background

Allows to modify the background color of the widget, selecting it from the color palette.

Number

Allows to modify the value color of the widget, selecting it from the color palette.

lcon

Allows to modify the icon color, selecting it from the color palette.

Example of Use

This metric chart shows the number of accounts entered during a selected period and for the users indicated in the filter.



Approved credits General Permissions	🕹 🔸 🕂 👫 🕹 🍄	Publish V			Home	O Tasks	Calendars	Cases	O Messages	8+ Invite	G .
Approved credits		Publish	Approved credits	From 04032020+	Home	Taska	Calendars	-			

The source code to model this chart is detailed.

	Approved credits	~	×	Approved credits	~
-	Descriptive Name	Name	-10	Graphic Type Source	
General	Approved credits	Approvedcredits	General	Metric Met	
	Identifier	Application		Icon	
	eca3f54e-6c6a-48be-a90a	Creditos - Creditos	~	Find your icon Selected: 🗸 🗸	
	Description		Graphic	Background Number Icon	
ō			ö	Background Number Icon G Color S. Good job!	
				Position Justify () It's over. Remember to press 🗸 so that your modifications are sa	hove
8	Icon		Source	Title Above V Left V Left V Above V	3100
	Find your icon	Selected: 😰 🚿	0	Date Filter	
			_	Initial Value Step 5 c	of 5 🖪
				Cditable Visible 04/03/2020	
				User Filter	
				Creation Vupdate Owner	
				Editable Visible All V	

Steps of the Modeling Wizard



The "Credit Request" form from which the data displayed in the chart is taken should be selected.





2. Define the data you want to display 🗸

Series*	
count(ALL)	
	/

The "count(ALL)" function is used to determine the number of loans.



3. Define display criteria

Select by

equal(creditStatus, 1)

A condition is added to display all requests with "creditState=1" where "creditState" corresponds to a value list with numerical code "1" and descriptive text "Approved".

()O

4. Define how to group the results

Group by

'Ctrl + Space' to open assistant.

In this type of widget the results are not grouped.





5. Good job!

(i) It's over. Remember to press v so that your modifications are saved in the properties panel.

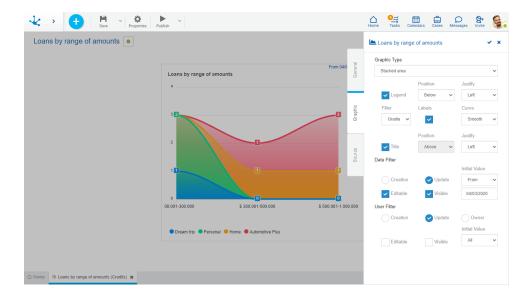
Step 5 reporting that all steps are met is completed .

3.7.9.2.2.2. Areas

Widgets of area type, comprehend the area and stacked area charts.

They can show changes over time, general trends, and continuity in a data set. But, while they may work in the same way as row widgets, the space between the row and the axis is filled in, indicating volume.

To the properties shared by all the widgets are added those specific to areas.



Properties

Legend

Indicates the incorporation of the data series description.

If this property is selected, it must also indicate:

- Position Select above or below.
- Justify

If above or below position is selected, it allows to indicate right, center or left alignment.



Filler

Allows to highlight the area of data series in a gradient or solid way.

Labels

Allows to indicate whether the labels corresponding to the data series are displayed.

Curve

Indicates whether data lines are displayed as smooth, straight, or stepwise curve.

Example of Use

This stacked area widget shows the number of credits approved by range of expenses during a selected period and for the users indicated in the filter.

The ranges of expenses are represented on the horizontal axis and the number of credits approved for each range on the vertical axis.

The percentage of each product is given by the colored surface, and the grouping of all surfaces represents the total number of approved credits.

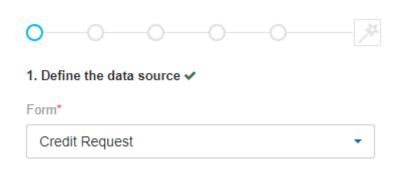
🕹 🔸 🕂 🗎 🕹	blish			Home	O Tasks	Calendars	Cases	Q Messages	8+ Invite	9.
Loans by range of amounts	Loans by range of am	S 300.001-500.000	From 04/03/2020*			Calendars	_	Messages	Permis	ions -
										¥
Home (B Loans by range of amounts (Credits) *										

Below are the properties modeled to get this chart and the source code that is automatically generated when completing the <u>wizard steps</u> for widgets modeling.



	Loans by range of amou	unts	' ×	Loans by rang	e of amounts	✓ ×		Loans by range of amounts
	Descriptive Name	Name	102	Graphic Type			102	Source
	Loans by range of amount	Loansbyrangeofamount	General	Stacked area		~	General	forms/SOLI1605719699/dataSource? select=DESCRIPTION=loansRange,DESCRIPTION=produc
	Identifier	Application	_		Position	Justify		t,COUNT=*&search=creditStatus=eq:1&group=loansRange, product
	9bc75dd0-9631-4eee-bf3:	Credits - Credits	~	 Legend 	Below V	Left 🗸		
	Description		Graphic	Filler	Labels	Curve	Graphic	0-0-0-0
			Ğ	Gradie 🗸	~	Smooth 🗸	G	5. Good job!
					Position	Justify		i) It's over.
	lcon		8	✓ Title	Above 🗸	Left 🗸		Remember to press v so that your modifications are save
	Find your icon	Selected:	Source	Date Filter			Source	in the properties panel.
	Find your icon	Selected.				Initial Value		
1				Creation	Update	From 🗸		Step 5 of 5
L				✓ Editable	✓ Visible	04/03/2020		
L				User Filter				
L				Creation	Vpdate	Owner		
L						Initial Value		
				Editable	Visible	All 🗸		

Steps of the Modeling Wizard



The "Credit Request" form from which the data displayed in the chart is taken should be selected.



2. Define the data you want to display 🗸

Series*

description(loansRank),	description(product),	count(ALL)

First the "loansRank" field of the form visualized on the horizontal axis of the chart is indicated. Secondly the "product" field that corresponds to the colored surfaces is indicated. And lastly the "count(ALL)" function is used to determine the number of loans per product that are displayed on the vertical axis.

For fields that use value lists, the "description()" function must be used to display every list value with its descriptive text, otherwise the numerical code is displayed.





3. Define display criteria

Select by

-	
a music and the state of the	
equal(creditStatus, 1)	
	/.

A condition is added to display all requests with "creditState=1" where "creditState" corresponds to a value list with numerical code "1" and descriptive text "Approved".



4. Define how to group the results

Group by

loansRank, product

Grouping the results by the same form fields that were modeled in step 2 is defined.

In this step, the names of fields must be used without the "description()" function, despite being value lists.



5. Good job!

 (i) It's over.
 Remember to press ✓ so that your modifications are saved in the properties panel.

Step 5 reporting that all steps are met is completed .

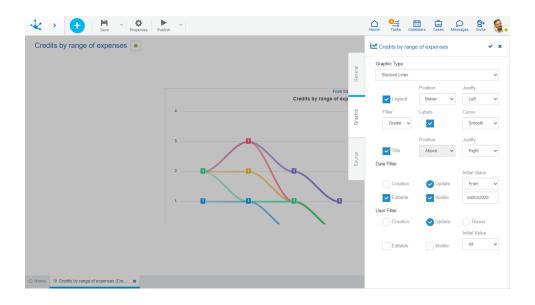
3.7.9.2.2.3. Lines

Widgets of line type comprehend line and stacked line charts.

They are useful to show tendencies through time and compare different data series.

To the properties shared by all the widgets are added those specific to lines.





Properties

Legend

Indicates the incorporation of the data series description.

If this property is selected, it must also indicate:

Position

Select above or below.

Justify

If above or below position is selected, it allows to indicate right, center or left alignment.

Filler

Allows to highlight the area of data series in a gradient or solid way.

Labels

Allows to indicate whether the labels corresponding to the data series are displayed.

Curve

Indicates whether data lines are displayed as smooth, straight, or stepwise curve.

Example of Use

This stacked lines widget shows the number of credits approved by range of expenses during a selected period and for the users indicated in the filter.

The ranges of expenses are represented on the horizontal axis and the number of credits approved for each range on the vertical axis.

The height of the line for each destination indicates the total number of credits approved per rank.



↓ ↓ ↓ ↓ ↓ ↓ Save ✓ Properties ▶ ▶	, `	Home	O Tasks	Calendars	_	Q Messages	8+ Invite	٩.
Credits by range of expenses •	From 0403/2020 Credits by range of expenses	V				Soneral	Permise	sions
ᢙ Home G Credits by range of expenses (Cre ★	Commercial Expansion Buy Car Settle Debts Trips Housing Renovation							

The source code to model this chart is detailed.

	Arme Tasks Calendars Cases Messages Bit ₩ Credits by range of expenses ✓ ×		Prome Prime Prime
Source Graphic General	Descriptive Name Credits by range of expen Identifier edeaseS11:8a7e-4dc3:92c Description Find your icon Selected 🗠 ✓	Source Graphic General	Position Justify Innition, COURT-% Search-creditState-eq. 1&group-expense effange, destration
			User Filer Creation Update Owner Initial Value Editable Voible Al

Steps of the Modeling Wizard



1. Define the data source 🗸

Form*

Credit Request

The "Credit Request" form from which the data displayed in the chart is taken should be selected.





2. Define the data you want to display 🗸



description(expensesRange),	description(destination),
count(ALL)	

First the "expensesRange" field of the form visualized on the horizontal axis of the chart is indicated. Secondly, the "destination" field that corresponds to the height of the line is indicated. And lastly, the "count(ALL)" function is used to determine the number of loans per destination that are displayed on the vertical axis.

For fields that use value lists, the "description()" function must be used to display every list value with its descriptive text, otherwise the numerical code is displayed.



3. Define display criteria

Select by

equal(creditStatus, 1)	
	1

A condition is added to display all requests with "creditState=1" where "creditState" corresponds to a value list with numerical code "1" and descriptive text "Approved".



4. Define how to group the results

Group by

expensesRange, destination

Grouping the results by the same form fields that were modeled in step 2 is defined.

In this step, the names of fields must be used without the "description()" function, despite being value lists.







5. Good job!

 It's over.
 Remember to press ✓ so that your modifications are saved in the properties panel.

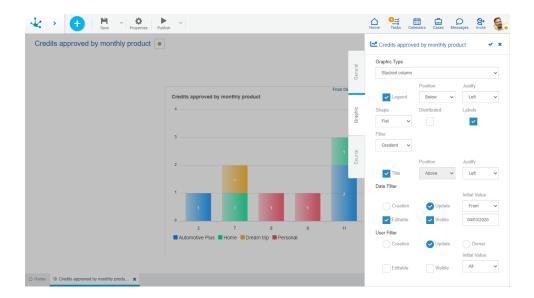
Step 5 reporting that all steps are met is completed .

3.7.9.2.2.4. Bars and Columns

The bar and column widgets, comprehend the charts of type: bar, grouped bar and stacked bar, column, grouped column and stacked column and N Top.

They are used to compare different data series.

To the properties shared by all the widgets are added those specific to bars and columns.



Properties

Legend

Indicates the incorporation of the data series description. If this property is selected, it must also indicate:

If this property is selected, it must also indicate:

- Position
- Select above or below.
- Justify

If above or below position is selected, it allows to indicate right, center or left alignment.



Shape

Allows to select if the shape has a plane or rounded border.

Distributed

Indicates whether the series are grouped or interleaved.

Labels

Allows to indicate whether the labels corresponding to the data series are displayed.

Filler

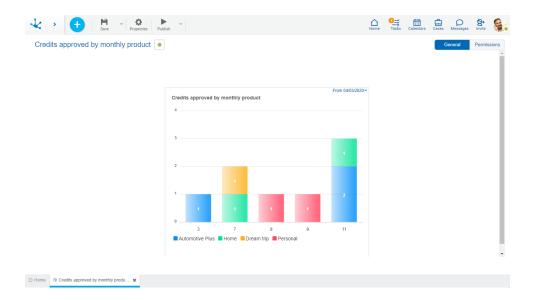
Allows to highlight the area of data series in a gradient or solid way.

Example of Use

This stacked column widget shows the number of credits approved by range of expenses, during a selected period and for the users indicated in the filter.

The months are represented on the horizontal axis and the number of credits approved for each month is represented on the vertical axis

The percentage of each product is given by the colored surface, and the grouping of all surfaces represents the total number of approved credits.

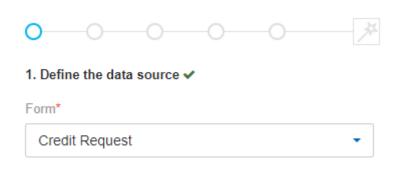


The source code to model this chart is detailed.



	Credits approved by mont	thly product 🗸 🗶		Credits approv	ed by monthly pro	duct 🖌 🗙		Credits approved by monthly product
IPIAIAO	Descriptive Name	Name	100	Graphic Type			0	Source
	Credits approved by mont	Creditsapprovedbymonthh	General	Stacked column		~	General	forms/SOL1605719699/dataSource? select=MONTH=requestDate,DESCRIPTION=product,COU
	Identifier	Application			Position	Justify		NT=*&search=creditState=eq:1&group=MONTH=requestDa te.product
	d201e1bd-a9cc-4fd1-b8fc	Credits - Credits 🗸 🗸		 Legend 	Below 🗸	Left 🗸		
	Description		Graphic	Shape	Distributed	Labels	Graphic	0-
			Gré	Flat 🗸		~	G	
				Filler				1. Define the data source ✓
	lcon		8	Gradient 🗸			8	Form* Credit Request
	Find your icon	Selected: 🗠 🗸 🗸	Source		Position	Justify	Source	Geuit Request
	Find your icon	Selected.		✓ Title	Above 🗸	Left 🗸		Step 1 of 5
				Date Filter				oup for a
						Initial Value		
L				Creation	Vpdate	From 🗸		
L				✓ Editable	✓ Visible	04/03/2020		
L				User Filter				
				Creation	🕑 Update	Owner		
				R		Initial Value		

Steps of the Modeling Wizard



The "Credit Request" form from which the data displayed in the chart is taken should be selected.



2. Define the data you want to display 🗸

Series*

month(requestDate), description(product), count(ALL)	

First the "month(requestDate)" function is used to determine the month of the loan request that is displayed on the horizontal axis of the chart. Secondly the "product" field that corresponds to the height of the column is indicated. And lastly the "count(ALL)" function is used to determine the number of loans per product per month that are displayed on the vertical axis.

For fields that use value lists, the "description()" function must be used to display every list value with its descriptive text, otherwise the numerical code is displayed.





3. Define display criteria

Select by

equal(creditStatus, 1)	

A condition is added to display all requests with "creditState=1" where "creditState" corresponds to a value list with numerical code "1" and descriptive text "Approved".



4. Define how to group the results

Group by

month(requestDate), product

Grouping the results by the same form fields that were modeled in step 2 is defined.

In this step, the names of fields must be used without the "description()" function, despite being value lists.



5. Good job!

 It's over.
 Remember to press ✓ so that your modifications are saved in the properties panel.

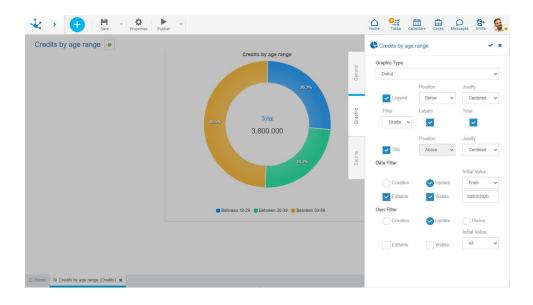
Step 5 reporting that all steps are met is completed .

3.7.9.2.2.5. Pies and Donuts

Widgets of pies and donuts type are used to show parts of a whole. They represent the amount of segments in percentages and the total sum is equal to 100 %.

To the properties shared by all the widgets are added those specific to pies and donuts.





Properties

Legend

Indicates the entry of data series description.

If this property is selected, also indicate:

Position

Select above, below, left, right.

Justify

If above or below position is selected, it allows to justify right, center or left.

If right or left position is selected, the legend is displayed top right or left as indicated.

Filler

Allows to highlight the area of data series in a gradient or solid way.

Labels

Allows to indicate whether the labels corresponding to the data series are displayed.

Total

Indicates whether or not the total of all series is displayed.

Example of Use

In this donut widget the total amount requested grouped by age range is visualized, for a selected period and to the users indicated in the filter.

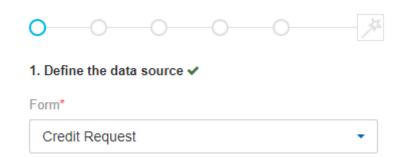


🕹 > 🕂 🛱 v 🔅 🕨 v	Home	O Tasks	Calendars	Cases Messa	ges Invite	G .
Credits by age range ●				General	Permit	·
C Home (or create of alle ranke (oregin) ¥						

The source code to model this chart is detailed.

	Home Tasks Calendars Car	ses Messages Invite		Home Tasks Cale	ndars Cases Mess	D 😫 🧕		Home Cales Cales Messages Invite
	Credits by age range	✓ ×		Credits by age	range	✓ ×		Credits by age range
10	Descriptive Name	Name	10	Graphic Type			La l	Source
General	Credits by age range	Creditsbyagerange	General	Donut		~	General	forms/SOLI1605719699/dataSource? select=DESCRIPTION=ageRange,SUM=requestedAmount &search=creditState=eq:1&group=ageRange
	Identifier 60208ce3-bff7-4da0-8999	Application Credits - Credits		✓ Legend	Position Below V	Justify Centered V		osearch=creditstate=eq.togroup=agekange
Graphic	Description		Graphic	Filler Gradie 🗸	Labels	Total	Graphic	ØOOO
			0		Position	Justify		5. Good job! (j) It's over.
Source	lcon		Source	✓ Title	Above 🗸	Centered V	Source	Remember to press so that your modifications are saved in the properties panel.
ů	Find your icon	Selected: 😍 🛛 🗸	ő	Date Filter		Initial Value	So	
				Creation	Update	From 🗸		Step 5 of 5 ⊀
				✓ Editable	✓ Visible	04/03/2020		
				User Filter				
				Creation	Update 🗸	Owner		
				Editable	Visible	All Value		

Steps of the Modeling Wizard



The "Credit Request" form from which the data displayed in the chart is taken should be selected.





2. Define the data you want to display 🗸

Series*

departmention(ageDenge), ours/requested(mount)		
description(ageRange), sum(requestedAmount)	1	

First the "ageRange" field of the form visualized on each chart portion is indicated. And lastly the "sum(requestedAmount)" function to determine the total amount of loans requested by age range is used.

For fields that use value lists, the "description()" function must be used to display every list value with its descriptive text, otherwise the numerical code is displayed.

0 0 0 0 *

3. Define display criteria

Select by

equal(creditStatus, 1)	

A condition is added to display all requests with "creditState=1" where "creditState" corresponds to a value list with numerical code "1" and descriptive text "Approved".



4. Define how to group the results

Group by

ageRange

Grouping the results by the same form fields that were modeled in step 2 is defined.

In this step, the names of fields must be used without the "description()" function, despite being value lists.







5. Good job!

 It's over.
 Remember to press ✓ so that your modifications are saved in the properties panel.

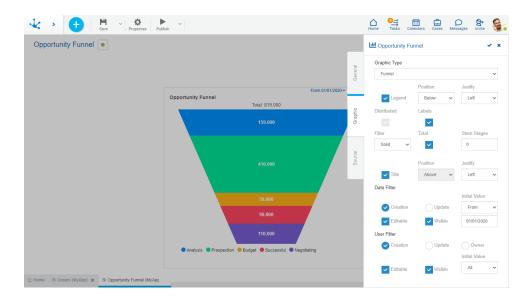
Step 5 reporting that all steps are met is completed .

3.7.9.2.2.6. Funnel

Widgets of funnel type show values in gradually decreasing proportions. In this type of charts the data is shown as a value for each stage.

To the properties shared by all the widgets are added those specific to funnels.

This chart type also incorporates <u>stages modeling</u> to identify each represented value and define its location.



Properties

Legend

Indicates the entry of data series description.

If this property is selected, also indicate:

Position

Select above, below, left, right.

Justify

If above or below position is selected, it allows to justify right, center or left.

If right or left position is selected, the legend is displayed top right or left as indicated.



Distributed

Indicates whether the series are grouped or interleaved.

Labels

Allows to indicate whether the labels corresponding to the data series are displayed.

Filler

Allows to highlight the area of data series in a gradient or solid way.

Total

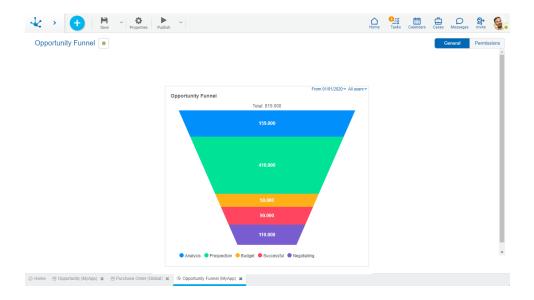
Indicates whether or not the total of all series is displayed.

Stem Stages

Indicates the number of stages or bars that are displayed in the stem of the funnel. If this property is zero the stages are part of the funnel and it does not have a stem.

Example of Use

In this funnel widget the estimated total amount of CRM opportunities grouped by Sales stage is displayed, during a selected period and for the users indicated in the filter.

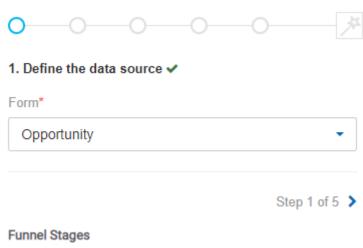


The source code to model this chart is detailed.



Deportunity Funnel 🗸 🗙				Let Opportunity Funnel 🗸 🗙				Deportunity Funnel			
2	Descriptive Name			10	Graphic Type			E.	Source		
	Opportunity Funnel OpportunityFunnel			General	Funnel			General	forms/CRM_OPPORTUNITY_V1/data-source? select=cdSaleStage,SUM=qTrotal/amount&search=cdSaleSt		
	Identifier	Application			_	Position	Justify		age=nin:5%7c7&group=cdSaleStage		
	7c566fc6-d5b4-46d4-8e8c	MyApp - MyApp	~		 Legend 	Below 🗸	Left 🗸		A		
	Description		Graphic	Distributed	Labels		Graphic	0-0-0-0 🦻			
				ō		~		G	5. Good job!		
					Filler Solid V	Total	Stem Stages		(i) It's over.		
	Icon			8	Solid V	~	0	8	Remember to press v so that your modifications are saved in the properties panel.		
	Find your icon	Selected:	~	Source		Position	Justify	Source	in the properties parter.		
					✓ Title	Above 🗸	Left 🗸		Step 5 of 5		
					Date Filter				Funnel Stages		
							Initial Value				
L					Creation	Update	From 🗸		11 Analysis		
					✓ Editable	✓ Visible	01/01/2020		II Budget		
					User Filter						
					Creation	Update	Owner		11 Successful		
							Initial Value		II Negotiating		
					 Editable 	Visible	All 🗸				

Steps of the Modeling Wizard



Funnel Stag	jes		
🗄 Analys	is		
# Budget	1		
# Succes	sful		
III Negoti	ating		
# Prospe	ction		

The "Opportunity" form is selected from which the data displayed in the chart is taken. And the order of the stages of the funnel is defined.





2. Define the data you want to display 🗸

Series*

cdSalesStage, sum(qtTotalAmount)	

First the "cdSalesStage" field of the form visualized on each funnel stage is indicated. And finally the function "sum(qtTotalAmount)" is used to determine the total amount estimated for each stage.

In this step, the names of the fields must be used without the "description()" function, despite being values lists.

0-0-0-/*

3. Define display criteria

Select by

notIncluded(cdSaleStage, 5,7)

The condition to display all opportunities is added, excluding the stages with numerical code "5" and "7" and descriptive text "Lost" and "Stand-By".



4. Define how to group the results

Group by

cdSaleStage

Grouping the results by the same form fields that were modeled in step 2 is defined.

In this step, the names of fields must be used without the "description()" function, despite being value lists.







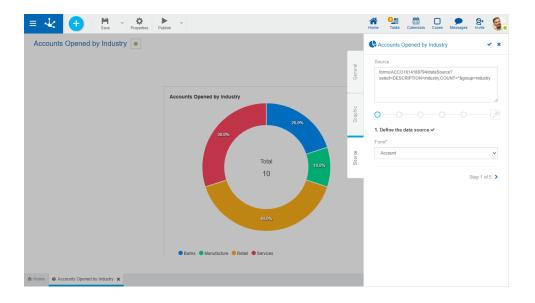
5. Good job!

 It's over.
 Remember to press ✓ so that your modifications are saved in the properties panel.

Step 5 reporting that all steps are met is completed .

3.7.9.2.3. Source

The third tab of the side panel corresponds to the Rest API for obtaining the data of the selected chart and the modeling wizard for its automatic generation, following a series of steps.



Properties

Source

Corresponds to the URI on the Rest API to obtain the data displayed on the selected chart. It can be codified or automatically generated through the modeling wizard steps.

Wizard for Widgets Modeling

Allows to automatically generate the URI of the Rest API in the area of the source following the sequence of steps represented by the lines of circles.

Each step is identified by a number and accompanied by an informative paragraph, represented by the "i" icon.



The required steps are represented by the red circle and once they are completed they are displayed in light blue, indicating that the part corresponding to the source code has been completed. The circles corresponding to the steps not yet completed are displayed in grey.

The pre-established order must be respected and advance by selecting the next circle or by pressing the paging icon, located at the bottom of the wizard. The completed steps can be navigated through by pressing the circles or by using the paging icon.

Wizard Steps for Widgets Modeling

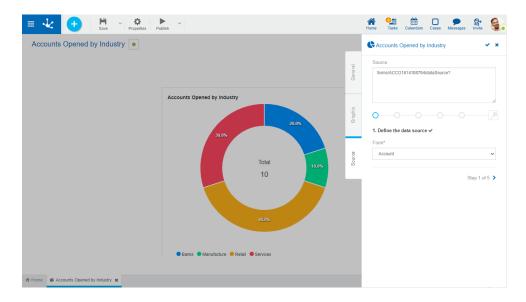
Step 1: Define the data source

This step is required.

Form

Allows to select the entity from which the data to be displayed on the chart will be taken. Once it is selected there is a check mark to the right of the step description, indicating that it was completed successfully. When finishing the step, the generated code is displayed on the source.

When expanding the available form list a search field is activated. As the user enters characters into it, the number of forms displayed is reduced to those whose names contain such characters.



Step 2: Define the data you want to display.

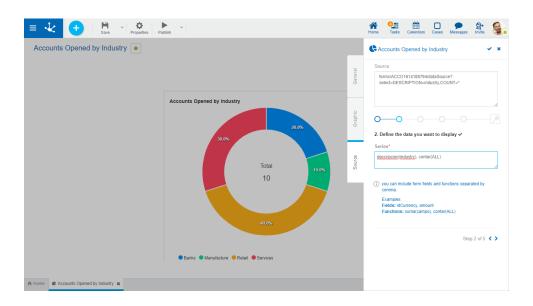
This step is required.

Series

It must be indicated which <u>elements</u> are going to be displayed on the chart, being able to use the help of the <u>wizard</u>. Once the series are entered, there is a check mark to the right of the step description,



indicating that it was completed successfully. When completing the series, the added code is displayed on the source.

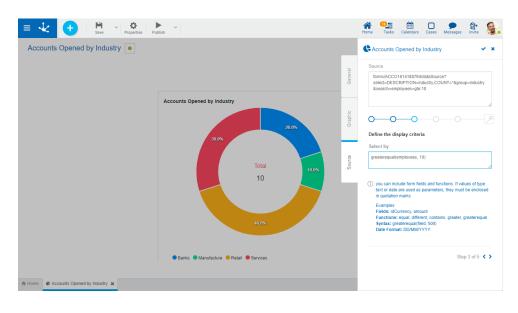


Step 3: Define the display criteria.

This step is optional.

Select by

Allows to indicate with the help of the <u>wizard</u> the <u>elements</u> that must meet a condition for the data to be displayed on the chart. When completing this step, the added code is displayed on the source.



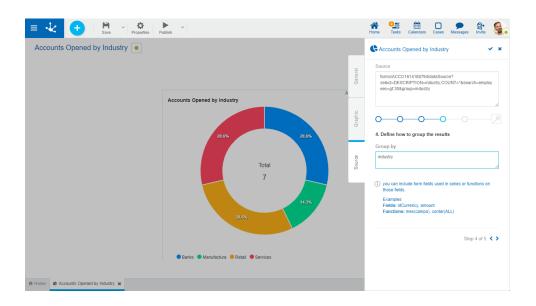
Step 4: Define how to group the results.

This step is optional.

Group by

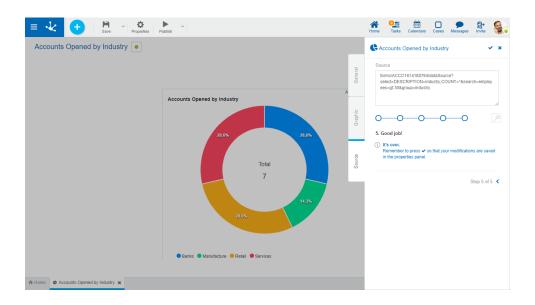


Allows to indicate with the help of the <u>wizard</u> the <u>elements</u> of the series, by which the results will be grouped. When completing this step, the added code is displayed on the source.



Step 5: Good job.

Informs that all the steps have been completed, and reminds that changes made on the widget properties panel must be saved.



Stages in the Funnel Type Widget

When modeling a funnel type widget a form must be selected where the value of one of its fields <u>ori-</u> <u>ginates in a value list or a rule</u>. Once the series field is indicated, the stages are displayed as a list in all the steps of the wizard, being able to sort or delete them.



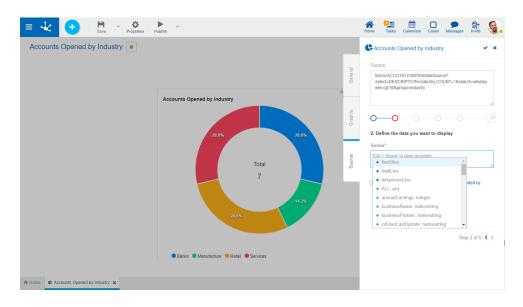
↓ → + H · ☆ Properties ► · Publish ·		🛆 🚉 🛱 🖨 🔎 🛠
	Res 010122102 Alue Mumber of Employees by Origin Tett: 70 0 0 0 0 0 0 0 0 0 0 0 0 0	Wundber of Employees by Origin V Source fmm:ALCOLOIS118875444adsdorer? setect-origin_SUM-valorization/group-origin Outcome 2. Define the data you want to display v Series* origin_suma(valorization) ?* You can include form fields and functions separated by comma. Exergins Piedds: idCorreror, amoutt Fredds: idCorreror, amoutt Steps in the Funnel Widget Type If Campaign If Direct
♠ Home ● Number of Employees by Origin ★		H Web

3.7.9.2.3.1. Editing Wizard

In the editing area of each of the steps you can use a wizard for the automatic generation of the source.

Such wizard is activated pressing the "Ctrl + Space" keys, using the functionality of autocompleting, that is, as text is entered in the wizard, only are shown the <u>elements</u> which names start with the text the user writes.

In case of not using autocomplete the complete list of elements available for the step you are working on opens.



3.7.9.2.3.2. Elements Used in the Wizard

The steps can be composed by different types of elements, separated by a ".".

• Form field



Form fields are used identifying them by the property <u>Name</u>. In the wizard they are displayed with • in their left.

• Iterative containers

The property <u>Name</u> of the container is shown. Whenever an iterative container is used, then the field separated by a "." must be indicated. In the wizard they are displayed with • in their left. Example: Items.Number

• Functions

In the wizard they are displayed with • in their left.

In every case it is indicated on the right, the data type they represent and in the case of the functions, the data type they receive as a parameter.

In case of a syntax error, a message is displayed indicating the problem.

Wizard Functions

These functions are displayed in the wizard, for each of them it is indicated a brief description of its functionality and in which steps of the wizard it is suggested.

Function	Description	Wizard (Step)	Return Type
count(field)	Counts the occurrences of a certain field.	Series and group	Numeric
descrip- tion(field)	Returns the field description.	Series	Text
max(field)	Returns the maximum value.	Series and group	Field type used
month(field)	Month of the year. It is used for date type fields.	Series	Numeric
min(field)	Returns the minimum value.	Series and group	Field type used
average(field)	Returns the average value.	Series and group	Numeric
sum(field)	Sums the values entered from the field.	Series and group	Numeric Deci- mal
equal(field, field or value)	Compares by equality the first field with the other field or value.	Display criteria	Boolean



Function	Description	Wizard (Step)	Return Type
diffe- rent(field, field or value)	Compares by inequality the first field with the other field or value.	Display criteria	Boolean
contains(field, value)	Checks if the field contains a determined value.	Display criteria	Boolean
starts- With(field, value)	Checks if the field starts with a determined value.	Display criteria	Boolean
doesNotStar- tWith(field, value)	Checks if the field does NOT start with a de- termined value.	Display criteria	Boolean
greater(field, field or value)	Checks if the first field is greater than the second field or value entered.	Display criteria	Boolean
greaterE- qual(field, field or value)	Checks if the first field is greater than or equal to the second field or value entered.	Display criteria	Boolean
lower(field, field or value)	Checks if the first field is lower than the se- cond field or value entered.	Display criteria	Boolean
lowerE- qual(field, field or value)	Checks if the first field is lower than or equal to the second field or value entered.	Display criteria	Boolean
inclu- ded(field, value1, va- lue2,)	Checks if the field value exists in the value list separated by a comma.	Display criteria	Boolean
notInclu- ded(field, value1, va- lue2,)	Checks if the field value does not exists in the value list separated by a comma.	Display criteria	Boolean

3.7.10. Value Lists Modeling

The value list modeler allows to define a set of possible values for a field, grouped under some criteria. These values can be associated to form fields.



Modeler 90 2				Search	Q 74 9
Name	Application	Туре	State	Update 🗸	Update User
Address Type	Global	Value List	•	18/11/2022 17:22	۹.
Account	Global	💮 Formulario Ágil	٠	18/11/2022 17:20	9
State of the Accounts	Global	Value List	•	18/11/2022 17:20	9
Social Network	Global	 ✓ Value List 	•	18/11/2022 17:20	9
Phone Types	Global	 ✓ Value List 	•	18/11/2022 17:20	9
Mail Types	Global	✓ Value List	•	18/11/2022 17:20	8
Origins	Global	✓ Value List	•	18/11/2022 17:20	9
Industries	Global	✓ Value List	•	18/11/2022 17:20	۹.
Customer	МуАрр	🖽 Form	•	18/11/2022 17:19	9
Opportunity	МуАрр	🕮 Form	•	18/11/2022 17:19	9
					0 2

The value list modeler allows to administer each list, respecting their progress through the different states of a modeling object.

- Save
- Publish
- Delete
- Export
- Delete Publication

The general characteristics of the list of values modeling environment are described in the topics:

- Modeling Facilities
- <u>Value List Properties</u>

A new value list can be created from the:

- <u>Context menu</u> 🙂.
- The icon 回
- The menu displayed with the "Value List" option.
- The form modeler, in the "Relation" tab of a field selecting the value list option of a <u>form</u> or of an agile form.
- The form modeler, through the control Value List.
- The agile modeler, through the control Value List.

An already existing value list is modified by selecting it from the grid with the "Open" button.

3.7.10.1. Modeling Facilities

General characteristics of this modeler are specified below.



New Value List

The IT modeler user can design a new value list, available to be used from any form after being published.

Steps for Creating a New Value List

Step 1: Assign the name and press the "Create" button.

New Value List o	New Value List	×		Q :
	Descriptive Name		_	
New Value List	Enter descriptive name			Add to the list
Enter new value				
		Cancel New		

Step 2: Enter a new value and press the accent mark icon or the enter key. Repeat this step until all the desired values are entered.

Media o				ßearch	Q
Media					Add to
Enter new value					<i>li</i>
III Internet					
III Magazine					
II Newspaper					
II TV					

🕈 Home 🛛 (GLOBAL) Media 🗙



Workspace Sections

- <u>Top Toolbar</u>
- Value List Information
 - Name - • <u>State</u>
- Q Allows to filter values from the list based on the characters entered. If a list is very long it helps users to easily visualize the desired values.
- Enables an option that allows to visualize the internal code from the list values. If the property Internationalize is active the available languages are enabled. When selecting a language <u>a column is added</u> for the entry of the value list translations.
- Design Options
- Modeling Area

Home Tasks Calendars Cases Messages
Values
Search Q
Show

A Home 🕑 (GLOBAL) Media 🗙

3.7.10.1.1. Top Toolbar

This toolbar contains icons and submenus from which you can perform operations on the object. Depending on its <u>state</u>, some options may be disabled.

The bar is displayed on the toolbar of **Deyel**.



Media 🔸				Search	Q
Media					Add to
Enter new value					
III Internet					
II Magazine					
II Newspaper					
∷ TV					

A Home	🗉 (GLOBAL) Media	×				
--------	------------------	---	--	--	--	--



This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". If certain conditions are met, the modeler user receives a message indicating that the operation was performed correctly, otherwise they receive an explanatory message.

Main Conditions

- The application of the object must exist.
- The name must be unique in the application.
- The object's permissions must exist if you select the property Models Security in the "General" tab of the properties panel.

To the right of the icon the option to open the submenu.



Open the value list properties.



By means of this icon the object goes to "Published" state, after verifying a set of additional conditions to those of the "Save" operation. The modeling user receives the corresponding message, indicating the result of the operation.

To the right of the icon the option to open the <u>submenu</u>.

3.7.10.1.1.1. Save Submenu



This submenu is opened by pressing the icon immediately to the right of the icon corresponding to "Save".

준 Export				Values
Media •			Search	Q
Media				Add to
Enter new value				
II Internet				
III Magazine				
III Newspaper				
# TV				

🕆 Home 🖸 (GLOBAL) Media 🗙

🛍 Delete

Allows to delete the object only if it is in "Draft" <u>state</u>, closing the tab in which it is located and deleting it from the modeler's grid.

🛃 Export

This icon opens a window for the user to select and confirm the export of the object.

Media 🔹	Enter description				Search	۹
Media	Exported Objects					Add to
Enter new value	Name	Application	Туре	^		
III Internet	V Media		Value List	- 11		
II Magazine				- 84		
III Newspaper			Cancel	Export		
	_			_		

Description



In this property a text explaining the reason for the operation can be entered. This text can be modified upon import and is displayed in the description column of the <u>export record</u>.

Exported Objects

By expanding the container, the object being exported is displayed.

You must press the "Cancel" button to leave the export without effect or the "Export" button to finish the operation.

3.7.10.1.1.2. Publish Submenu

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Publish".

Media •		Search	٩
Media		 	Add to
Enter new value			li.
# Internet			
II Magazine			
II Newspaper			
II TV			

A Home 🖻 (GLOBAL) Media 🗙

Delete Publication

Allows to leave the value list unavailable for use by returning it to the "Draft" state.

3.7.10.1.2. Modeling Area

The modeling area is the space where the values can be entered, modified or deleted from the lists.

Once it has been published, the updates to its values are reflected in the value lists:

- Used in the execution of forms from the user portal.
- Used in the forms modeler.
- From the menu option "Configuration", "Value Lists".



Mardia -					~
Media •			Search		٩
Media (English)				Ad	d to
Enter new value					
TV TV					
Newspaper					
Magazine					
St Internet					

Operations on Values

- Allows adding each entered value to the list of values.
- It is displayed if the list has the <u>lcons property</u> modeled. It allows to associate icons to the list values.
- Double click: Allows to modify a value in the list.
- Move: Allows to change the position of a value within the list by dragging the value with the mouse.

Hovering the cursor over each of the values entered, a set of icons is displayed and this allows to perform different operations.

- In Allows to delete a value from the list of values. Once deleted, it is displayed in gray and crossed out.
- Allows to restore a previously deleted value.

Display the Selected Line

- > Hides the icons that are displayed.
- **Shows hidden icons**.

Values Internationalization

If the value list has the <u>Internationalize</u> property active, the language configured for the user is displayed in the header of the list. For each <u>language selected from the icon</u> **i** a new column is added.

The user can load the corresponding translation for each value.

Removing the check mark of a language deletes the column corresponding to that language.



Colors •			Search Q
Colors (English)	Spanish	Portuguese	Show o
Enter new value	Enter new value	Enter new value	✓ Portugi
- Blue	Azul	Azul	
- Red	Rojo	Vermelho	
- Yellow	Amarillo	Amarelo	

Once the internationalization has been modeled, it is suggested to load values to the list in all the selected languages.

3.7.10.1.3. Design Options

When creating or modifying a value list, it allows to enter the values that are going to be displayed in it.

These options are presented on the upper right margin.

Media	Search
Media	Ac
Enter new value	
III Internet	
II Magazine	
II Newspaper	
II TV	

A Home 🖻 (GLOBAL) Media 🗙

• Values

From this design option the value list is displayed and new values can be added in it in the <u>modeling</u> <u>area</u>.



• Permissions

This option is displayed if the property Models Security is selected in the <u>properties panel of the value</u> <u>list</u>.

3.7.10.1.3.1. Permissions

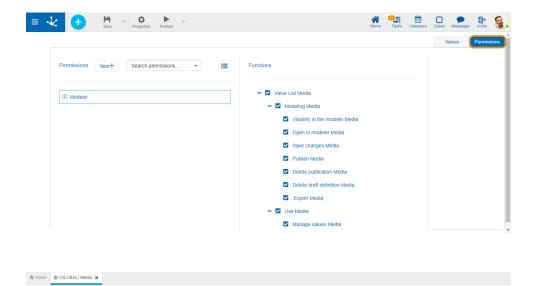
Allows to assign the <u>security functions</u> for use and modeling of the object to the existing permissions or to new permissions that the user creates, without having to go to the <u>permission</u> settings option from the menu.

Sections

- Permissions: Permissions to which object functions are assigned.
- Security Functions: Represents the total set of security functions, modeling and use of the object. Those that are marked are the ones included in the selected permission.

By default, all security functions for a new object are assigned to the permission Modeler.

Users who are assigned the permissions have access to the functions included in it.



New+ Opens a panel to create a new permission and once created, the security functions included in it must be selected .

Search permissions... Allows to select a permission from a list and enables the input of characters to filter the values in the list.



Copens the wizard to select a permission and once chosen, the necessary object security functions must be checked.

To unrelate a permission from the object, hover the cursor over the permission and press the icon X. If there are functions selected for that permission, they must be unchecked in order to delete it.

Security Functions to Model the Value List

- Visibility: Allows to display the object in the Deyel modeler.
- Open: Allows to show the object from the Deyel modeler.
- Save: Enables the operation of saving modifications made to the object.
- Publish: Enables the operation of publishing the object leaving its state as "Published".
- Delete publication: Enables the operation of deleting the object publication leaving its state as "Draft".
- Delete draft definition: Enables the operation of deleting the object.
- Export: Enables the operation to export the object from the save submenu of the top toolbar.

Security Functions to Use the Value List

Security functions to use the value list are available if the value list is in "Published" state.

• Manage values: Enables the operation to enter, modify or delete values in the list.

The design option "Permissions" is only displayed if the property <u>Models Security</u> has been selected.

3.7.10.2. Value List Properties

The properties of the value list can be entered both at the time of their creation and when modifying an existing one.

Entering the value list properties panel is done using the icon which is in the <u>Top Toolbar</u>.



			Value List	×
Media		-	Descriptive Name	Name
		General	Media	Media
Media (English)		Ť	Identifier	Application
Enter new value			f6e22b49-dd7d-4449-9d1f-0	
TV			Icon	
Newspaper			Description	
X Magazine				
nternet				
			Sorted Alphabetically	Descending
			Models Security	Cons
			Internationalize	
			Filtered by	

General Tab

Properties

Descriptive Name

It is the name used by the user to reference the value list.

Name

It is used internally to reference the value list. No blanks or special characters allowed. It is unique and required.

Identifier

It identifies unequivocally the value list. It is generated automatically.

Application

Allows to define the application to which the object belongs. If no application is reported, the object is assigned to the application "Global".

Description

Text which defines the value list and its respective content.

Sorted Alphabetically

Checking this property indicates that the values in the value list are sorted alphabetically, and allows to select if the order will be descending.

Descending

Indicates that the order of the values in the value list is descending. This property can be selected if it was previously indicated that the list is sorted alphabetically.

Models Security

Allows to add security to the value list, creating the security functions of modeling and of use to be assigned in the design option "<u>Permissions</u>" or in the permission configuration.



Icons

Allows to associate an icon to each value list when such values are incorporated.

Currency •	Search	(
Currency		
Enter new value	ICON	COLOR
🗄 🕹 U.S. Dollar	Search	٩
🗄 🧯 European Euro	5 X X I	o 🛝 🖬
III ¥ Yen		a 🗠 a
E Pound	ا های های در انتخاب از منابع از منابع می از می از منابع از منابع می از می از منابع می از می از می از می از می م از می از م	
	No. 1000 2005	
🗄 💽 Franc	D 🖬 🙆 😔 I	
		₿ \$

Internationalize

If this property is deactivated, the value list can be used in one language only. If activated values can be entered in <u>different languages</u> available in **Deyel**.

- When activating it: The property Language of Existing Values is enabled to select the language in which the values were entered or in which they will be entered if the list were new.
- When deactivating it:

The property Language of Existing Values is enabled to select the language in which the value list are going to be kept.

Filtered by

Allows to select the value list to be related to the list being modeled. When a value is entered in the modeled list its corresponding is indicated in the list selected in this property.

Example: If the modeled list it Provinces and the list selected in the property Filtered by is Countries, when entering a province you must indicate which country it corresponds to.



States •		Search	٩
States			
Arizona	Belect Countries		
III Alabama	United States		
	Canada		
	Mexico		

Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🔀 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.11. Reports Modeling

The reports modeler allows to easily and intuitively model application reports in order to get detailed information on one or more <u>related entities</u>.

Each business user can design their own reports from the <u>portal</u>, using personalized information and their preferred output format.

Modeler 90 2				Search	Q 🕅 🤋
Name	Application	Туре	State	Update 🗸	Update User
Address Type	Global	Value List	•	18/11/2022 17:22	9
Account	Global	🚿 Formulario Ágil	٠	18/11/2022 17:20	G
State of the Accounts	Global	Value List	•	18/11/2022 17:20	G
Social Network	Global	Value List	•	18/11/2022 17:20	8
Phone Types	Global	 Value List 	•	18/11/2022 17:20	8
Mail Types	Global	Value List	•	18/11/2022 17:20	8
Drigins	Global	Value List	•	18/11/2022 17:20	8
ndustries	Global	Value List	•	18/11/2022 17:20	8
Customer	МуАрр	🗒 Form	•	18/11/2022 17:19	8
Opportunity	МуАрр	同 Form		18/11/2022 17:19	9

🛆 Home



The general characteristics of the reports modeler and the main elements that compose it are described in the following topics:

- Modeling Facilities
- <u>Report Properties</u>

3.7.11.1. Modeling Facilities

General characteristics of this modeler are specified below.

New Report

The modeler user defines a new report, which after being published is available to be used in the portal by business users.

A new report can be created from the icon 🛨 corresponding to the <u>context menu</u> in the modeler.

- From the icon 🙂.
- From the expanded menu using the "Report" option.

When the report is created, a panel opens and allows to enter its name.

	< → 🕕	Save V Properties	Publish V	Home Tasks Calendars Cases Messages Invite
Defention Ether descriptive name I. Complete the report definition ID utrical 7 as fash-48% decore ID utrical 7 as fash-48% decore <	New Report		New Report	
D Cancel Nor D Sci2x372 of Ash-4375 decot 1th Cancel Nor Description Name * Norme * Norme is type upon an decipient optical in this report last. Description value in this report and the in this report last. Description value in this report last.<	Definition			
ID Cancel New Description Name *	1. Complete the rep	oort definition		Introduction
Description Name * - Name: name with which you will find it ints report list. New Report - Beacription: equipations y detail of the report content. Name * - Againatory detail of the report you are despined before. Name * - Beacription: equipations the report you are despined before. Description * - Beacription: equipations description. Description * - Beacription: equipation before. New Report - Beacription: equipation before. Application * - Beacription: equipation before. Application * - Beacription: equipation becacription before. Application * - There, in excessive description equipation. Obchal X Export Format * 2. Optionality or or exercipation equipation becacription. Export Format * 3. Determine the fields you and the result.			5-8cce-10	Cancel New With Deyel you can design reports on the information of any of the entities and their related entities.
New Report - Description: explanatory detail of the report content: - Application: application to which the report you are description: - Application: application to which the report you are description: New Report - Report Format of description: - Report Format of formation the report you are description: New Report - Report Format of the Name of the Na				
Application explicit the report you are application application				
Name * designing belongs. NewReport - Coport Format: deferming in what format to format to the result can be downloaded. You must jetic tal least one of them. In sheer case, the output find will conside the Name pub the advectories associated with the format. Description * By example: New Report By example: Application * Then, in successive tags, you can: Octobal Name example constructed entities. 1. Choose the main entity. 2. Optionale entities. 2. Optionality, construct entities. 3. Determine the fields you want to become part of the report.		New Report		
NewNeport - Export Format - determine in what formad is the intermine or formad is the them. Description * - Export Format - determine in what formad is the them. Description * - Export Format - determine in what format is the orage in court of the Name plus the othersion associated with the format. Description * - Export Format - determine in what format is contrast the othersion associated with the format. Description * - Export Format - determine in what format is contrast the othersion associated with the format. Application * - Export Format - determine in what format is contrast the determine in what format is contrast the othersion associated with the called Account List as Name and Export as contrast. Obcal - Then, naccessive attent, sociated and entities. Export Format * - Determine the fields you want to become part of the report.		News		
Description* By example: New Report If you choose Account List as Name and Excel* as Output Format, when downloading the results, the file will be called Account List as Name and Excel* as Output Application* Then, in accessive steps, you can: Global X Export Format* 3. Determine the fields you want to become part of the neport.				result can be downloaded. You must select at least one of them. In either case, the output file will consist of the Name
Application * Application * Application * Dobal X Export Format * Application * Concernment the field spource or deveral related entities. Subtract or dever		Description *		
Global x 1. Choose the main entity. 2. Optionally, choose one or several related entities. 3. Determine the fields you want to become part of the report.		New Report		Format, when downloading the results, the file will be called
Export Format* 2. Optionally, choose one or several related entities. 3. Determine the fields you want to become part of the report.		Application *		Then, in successive steps, you can:
2. Optionally, choose one or several related entities. Export Format* 3. Determine the fields you want to become part of the report.		Global	×	1. Choose the main entity.
				2. Optionally, choose one or several related entities.
4. If you wish, define the finters to be applied at the time of				
				4. If you wish, define the filters to be applied at the time of
ne 🖯 (GLOBAL) NewReport 1 🗙				



An existing report is updated by selecting it from the <u>modeler's objects grid</u> using the "Open" button.

Workspace Sections

- <u>Top Toolbar</u>
- Modeling Wizard

3.7.11.1.1. Top Toolbar

This toolbar contains icons and submenus from which you can perform operations on the object. Depending on its <u>state</u>, some options may be disabled.

The bar is displayed on the toolbar of **Deyel**.

√ → 🔁	Save Properties Publish			Home Taska Calendars Cases Messages Invite	۹.
Customers w	ith sales opportunities 💿			① Design Guide	
Definition	O O Entity Fields	O Filters	Publish		
1. Complete the re				Introduction	
	ID b02a37ad-faab-4895-8ccc-1b11cf93b63b			With Deyel you can design reports on the information of any of the entities and their related entities.	
	Descriptive Name *			To define it, you must indicate: - Name: name with which you will find it in its report list.	
	Customers with sales opportunities			 Description: explanatory detail of the report content. Application: application to which the report you are designing belong 	
	Name *			 Application: application to which the report you are designing before - Export Format: determines in what format or formats the result can 1 downloaded. You must select at least one of them, in either case, the 	be
	Customerswithsalesopportunitie			output file will consist of the Name plus the extension associated with the format.	
	Description *			By example:	
	Customers with sales opportunities			If you choose 'Account List' as Name and 'Excel' as Output Format, wh downloading the results, the file will be called 'Accounts List.xlsx'	aen
				Then, in successive steps, you can:	
	Application *			1. Choose the main entity.	
	МуАрр	×		2. Optionally, choose one or several related entities.	
				Determine the fields you want to become part of the report.	
	Export Format *			If you wish, define the filters to be applied at the time of their generation	
	x csv			Berneran	
	Excel CSV				
A Home (MYAPP) Custo	merswithsalesopportunitie 🗴				



This icon allows to save the object in the repository of **Deyel**, leaving its state as "Draft" or "Modified". If certain conditions are met, the modeler user receives a message indicating that the operation was performed correctly, otherwise they receive an explanatory message.

Main Conditions

- The application of the object must exist.
- The name in the application must be unique.
- The object's permissions must exist.

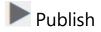
To the right of the icon, the option to open the <u>submenu</u> is displayed.





Opens the report properties panel.

To the right of the icon, the option to open the <u>submenu</u> is displayed.



By means of this icon the object goes to "Published" state, after verifying a set of additional conditions to those of the "Save" operation. The modeling user receives the corresponding message, indicating the result of the operation.

This option is equivalent to the step of publishing in the wizard.

Condition

• Related entities must be published.

To the right of the icon, the option to open the <u>submenu</u> is displayed.

3.7.11.1.1.1. Save Submenu

This submenu is opened by pressing the icon immediately to the right of the icon corresponding to "Save".

🕹 > 🕂 💾 v	Properties Publish		🛆 🚉 🛗 🖨 🔎 😫
Customers wi [●] [∨] Velidate [□] Delete <u>₽</u> Export	ties 🔳		① Design Guide
Definition Entity		O Publish	
1. Complete the report definition	×		Introduction
	D DEcorption Assessment 1911 (#5386.0% Decorptio		 With Repair you can design resorts on the information of any of the entities and device devices. To define it, you must indicate: Ansen some with which you that it is its report late. Assention is called a strate. Assention is a strate of the strate o
A Home 🕞 (MYAPP) Customerswithsalesoppor	turitie x		

✔ Validate

This icon validates if the object is ready to be published, that is, the validations performed are applied at the moment of <u>publication</u> and the result of the same is reported.



🛍 Delete

Allows to delete the object only if it is in "Draft" <u>state</u>, closing the tab in which it is located and deleting it from the modeler's grid.

🛃 Export

This icon opens a window for the user to select and confirm the export of the object and the related objects included in it.

istomers wit	th sales opportuniti	Export Report: Customers with sales opportur	ities	×	① Design Guide
0	0	Enter description			
efinition	Entity	Field			
		Exported Objects		~	
. Complete the repo	ort definition 🖌	Name	Application	Type	Introduction
	ID	Rane	Application	Type	
		-Bccc-1b1 Customers with sales opportunities	MyApp	Report	With Deyel you can design reports on the information of any of the entities and their related entities.
					To define it, you must indicate:
	Descriptive Name *				- Name: name with which you will find it in its report list.
	Customers with sales	s opportur	Cance	Export	- Description: explanatory detail of the report content.
			Curre	Export	 Application: application to which the report you are designing belongs.
	Name *		_		- Export Format: determines in what format or formats the result can
	Customerswithsaleso	opportunitie			be downloaded. You must select at least one of them. In either case, the output file will consist of the Name plus the extension associated with the format.
	Description *				By example:
	Customers with sales	s opportunities	II.		If you choose 'Account List' as Name and 'Excel' as Output Format, when downloading the results, the file will be called 'Accounts List.xis:
	Application *				Then, in successive steps, you can:
	MyApp	×			1. Choose the main entity.
					Optionally, choose one or several related entities.
	Export Format *				 Determine the fields you want to become part of the report. If you wish, define the filters to be applied at the time of their
	x sv				 If you wan, define the filters to be applied at the time of their generation
	Excel CS	V			

Description

In this property a text explaining the reason for the operation can be entered. This text can be modified upon import and is displayed in the description column of the <u>export record</u>.

Exported Objects

By expanding the container, the object being exported is displayed. Objects not meant to be exported can be unchecked.

Press the "Cancel" button to undo export or press the "Export" button to finish.

3.7.11.1.1.2. Properties Submenu

This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Properties".



🔽 → 🕂 H × 🔅 × 🕨 v Save Properties v Publish	Active Taska Caberdara Cases Messages Invite 🍕
Customers with sales opportunities ●	① Design Guide
Definition Entry Fields Fibers	Pullan
1. Complete the report definition	Introduction Note: The set of th
Eccel CGV (MVAPP) Costonerswithsalesopportunite x	

Permissions

Allows to assign the <u>security functions</u> for use and modeling of the object to the existing permissions or to new permissions that the user creates, without having to go to the <u>permission</u> settings option from the menu.

Sections

- Permissions: Permissions to which object functions are assigned.
- Security Functions: Represents the total set of security functions, modeling and use of the object. Those that are marked are the ones included in the selected permission.

By default, all security functions for a new object are assigned to the permission Modeler.

Users who are assigned the permissions have access to the functions included in it.



ustomers	Report Permissions		×
O	Permissions New+ Search permissions •	Functions	
I. Complete the	(i) Modeler	- Zustomers with sales opportunities	
		 Modeling of Customers with sales oppor 	formation of any (
		Visibility of Customers with sales opp	
		Open Customers with sales opportu	is report list.
		Save Customers with sales opportun	t content. t you are designin
		Publish Customers with sales opport	
		 Delete Customers with sales opport 	or formats the at least one of sist of the Name
			iat.
		Delete Customers with sales opportu	xcel' as Output
		Export Customers with sales opportu	file will be called
		 Use of Customers with sales opportunities 	
		Execute Customers with sales oppor	entities.
			part of the report

New Opens a panel to create a new permission and once created, the security functions included in it must be selected .

Search permissions... Allows to select a permission from a list and enables the input of characters to filter the values in the list.

• Opens the wizard to select a permission and once chosen, the necessary object security functions must be checked.

To unrelate a permission from the object, hover the cursor over the permission and press the icon X. If there are functions selected for that permission, they must be unchecked in order to delete it.

Modeling Security Functions

- Visibility: Allows to display the object in the Deyel modeler.
- Open: Allows to show the object from the Deyel modeler.
- Save: Enables the operation of saving modifications made to the object.
- Publish: Enables the operation of publishing the object leaving its state as "Published".
- Delete publication: Enables the operation of deleting the object publication leaving its state as "Draft".
- Delete draft definition: Enables the operation of deleting the object.
- Export: Enables the operation to export the object from the save submenu of the top toolbar.

Use Security Functions

• Execute: Allows to execute the object from the portal.

3.7.11.1.1.3. Publish Submenu



This submenu can be opened by pressing the icon immediately to the right of the icon corresponding to "Publish".

stomers v	vith sales	Opportunities			1 Design Guide
finition	O	O Fields	O Filters	OPublish	
Complete the n	eport definition	~			Introduction
		ID b02a37ad-faab-4895-8ccc-1b11cf93b63b			With Deyel you can design reports on the information of any of the entities and their related entities.
		Descriptive Name *			To define it, you must indicate: • Name: name with which you will find it in its report list. • Description: explanatory detail of the report content.
		Customers with sales opportunities			Application: application to which the report you are designing belongs. Export Format: determines in what format or formats the result can be
		Customerswithsalesopportunitie			downloaded. You must select at least one of them. In either case, the output file will consist of the Name plus the extension associated with the format.
		Description *			By example: If you choose 'Account List' as Name and 'Excel' as Output Format, when
		Customers with sales opportunities		1	downloading the results, the file will be called 'Accounts List.xlsx'
					Then, in successive steps, you can:
		Application *	-		 Choose the main entity. Optionally, choose one or several related entities.
		МуАрр	×		 Determine the fields you want to become part of the report.
		Export Format *			4. If you wish, define the filters to be applied at the time of their
		X CSV			generation
		CSV CSV			

Delete publication

This icon allows to remove the report from use by turning it back to the state "Draft".

3.7.11.1.2. Modeling Wizard

The reports modeler uses a wizard that guides the user by indicating the necessary steps for modeling. First, enter the report name, then complete the necessary steps for modeling and finally publish it.

; >	ublish ~	tome Tasks Calendars Cases Messages Brite	1
lew Report	New Report	① Design Guide	
O O O O O O O O O O O O O O O O O O O	False description and a		
1. Complete the report definition		Introduction	
ID	.00	Cancel New With Devel you can design reports on the information of any of the entities and their related entities.	
		To define it, you must indicate:	
Descriptive Name *		- Name: name with which you will find it in its report list.	
New Report		- Description: explanatory detail of the report content.	
		 Application: application to which the report you are designing belongs. 	
Name * NewReport		 - Export Format: determines in what format or formats the result can be downloaded. You must select at least one of them. In either case, the output file will consist of the Name plus the extension associated with the format. 	
Description *		By example:	
New Report		If you choose Account List' as Name and "Excel" as Output Format, when downloading the results, the file will be called 'Accounts List visy.'	
Application *		Then, in successive steps, you can:	
Global	×	1. Choose the main entity.	
olong -		2. Optionally, choose one or several related entities.	
Export Format *		3. Determine the fields you want to become part of the report.	
X sv		 If you wish, define the filters to be applied at the time of their generation 	

In each step of the wizard, useful information for each step of the modeling is displayed in the right panel, indicating how the requested fields should be completed.



The set of wizard steps is displayed by a bar where each step is represented by a circle. Once each step has been completed, a checkmark appears to the right of the description, indicating that it was completed successfully.

It is possible to advance to the next step by pressing the next circle only if the previous steps have been completed, it is also possible to go back to the previous ones.

3.7.11.1.2.1. Definition

In addition to the descriptive name that is entered at the time of report creation, the required <u>proper-</u> <u>ties</u> must be entered, in addition to its output format.

Output Format

Determines the format(s) in which the report result can be downloaded. They can be Excel or CSV and at least one of them must be selected.

tomers v	vith sales	opportunities •		
nition	Entity	-OOO	Publish	
Complete the r	eport definition	~		Introduction
		ID		With Deyel you can design reports on the information of any of the
				entities and their related entities.
				To define it, you must indicate: - Name: name with which you will find it in its report list.
		Descriptive Name * Customers with sales opportunities		- Name: name with which you will find it in its report list. - Description: explanatory detail of the report content.
		Customers with sales opportunities		- Application: application to which the report you are designing belongs.
		Customerswithsalesopportunitie		 Export Format: determines in what format or formats the result can be downloaded. You must select at least one of them. In either case, the output file will consist of the Name plus the extension associated
		Description *		with the format. By example:
		Customers with sales opportunities	h	by example: If you choose 'Account List' as Name and 'Excel' as Output Format, when downloading the results, the file will be called 'Accounts List.xis
				Then, in successive steps, you can:
		Application *		1. Choose the main entity.
		МуАрр 🗙		2. Optionally, choose one or several related entities.
		Export Format *		Determine the fields you want to become part of the report.
		X csv		 If you wish, define the filters to be applied at the time of their generation

An asterisk "*" on the label indicates that the property is required.

3.7.11.1.2.2. Entity

To start designing a report, the origin of the information included in it must first be determined. For this, select the <u>entity</u> for which the report is generated, by clicking on the row that contains it. If the selected entity has related entities, they are displayed on the right. One or more entities can be included within the same report, by clicking on the rows of the desired related entities.

For each related entity, the name of the field that establishes the relation is displayed on the same line.

To delete a selection, click on the line.

Only entities from <report application>

If this property is checked, only the entities of the application to which the report belongs are displayed.



Customers with sales opportunitie			Hor	ne Tasks Calendars	Cases Messages Invite
Customers with sales opportunite	0	actOpportunity	Lies from MyApp	origin of the information yo To do this, select the Entity report by clicking on the ro If the selected Entity has R	ort, you must first determine the u are going to include in it. ron which you want to issue the w that contains the desired entity. elated Entities, you can include one way as before, by clicking on the
Home 🖯 (MYAPP) Customerswithsalesopportunitie 🗙					

3.7.11.1.2.3. Fields

Once the main entity has been selected along with those related to it, the fields that become report columns must be defined. The fields of all the entities chosen for the report are available on the left to be selected.

By clicking on the desired field(s), they go to the columns area of the report. While clicking on the column(s) that are to be excluded from the report, they go to the fields area.

The order of fields in the report corresponds to the order in which they are seen in the columns area. If the order of any of them has to be changed, just drag it to the chosen position.

stomers with sales opportunitie	s 🔍		① Design Guide
-OO	Fields	-OOOO	
Select the fields you want to include in the report	/		Introduction
elds		Columns	Having chosen the Entity Together with one or more of its Entidades Relacionadas Now you can define the fields you want to become part
earch	۹	Search	Q your report.
Account (MyApp - Opportunity)		II Business Name (MyApp - Customer - customerOpportur	To do so, you just have to click on the desired field(s). They will be added to the list of Columns, You can remove them from the list of Columns in the same way by clicking on the field(s) you want to exclude.
Annual Earnings (MyApp - Customer - customerOpportunity)		II Industry (MyApp - Customer - customerOpportunity)	The order of fields in the result will be the same as they have in the of Columns. If you want to change the order of any of them, you can so by dragging in from the list and dropping it in the desired position.
Business (MyApp - Opportunity)		Estimated Amount (MyApp - Opportunity)	
Business Partner (MyApp - Customer - customerOpportunity)			
Condition (MyApp - Customer - customerOpportunity)			
Contact (MyApp - Opportunity)			
Creation Date (MvApp - Customer - customerOpportunity)			

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3.7.11.1.2.4. Filters



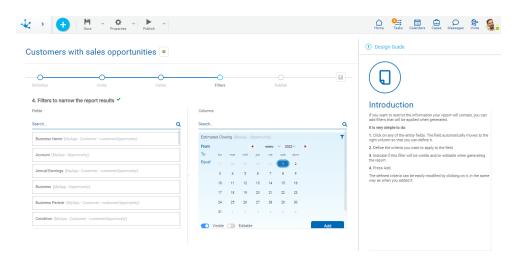
The fields of all the entities chosen for the report are available in the left area to be selected as filters, as in the previous step. For each selected field, conditions can be defined to filter the information shown in the report.

By clicking on the desired field(s), they go to the report columns area so that the conditions available for each field can be added.

For each filter, it is possible to indicate if it is visible at the time the user <u>generates the report</u>. Its editability by the user can also be configured in order to change the filter values.

The defined criteria can be easily updated by clicking on the filter line or deleted from the list by pressing the "X" icon.

Depending on the type of field, filter conditions are different and operators can be entered. Once the filter criteria have been defined, the "Add" button should be pressed so as to define the filter.



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Filter Conditions

Numeric Fields

The value entered should be numeric. Search criteria:

- Greater than
- Greater equal to
- Less than
- Less equal to
- Between
- With Data
- No Data

Alphanumeric Fields

Enter a text to search for. Search criteria:

• Contains



- Equal to
- Starts with
- Does not start with
- No Data
- With Data

Date Fields

A calendar opens to select the date and it can be filtered using different search criteria. Options:

- From
- Until
- Equal

DateTime Field

A calendar opens to select the date and time, it can be filtered using different search criteria.

- From
- Until
- Equal
- Range

Value Lists Fields

The list values are displayed. Search criteria:

- Included
- Not Included
- With Data
- No Data

3.7.11.1.2.5. Publish

Publishing a report allows users who have been assigned permissions to start using them.

The button to publish the form turns from red to green once the first publication has been made.

The icon \square can be used at any step in order to save what has been modeled without making a publication. In this case, the report remains in <u>state</u> "Draft".



Página | 748

\checkmark >	+ A V Properties	V Publish V			Ho	☆ ^Q ੁੜ ඕ 습 ♀ 않 Tasks Calendars Cases Messages Invite 🤹
Custo	omers with sales oppor	tunities 🔸			_	① Design Guide
Definition	n Entity	Fields	O Filters	Publish		
Publishin	lish Report ✓ ng the report allows participating and invited use ed to make improvements later, use this same w					Introduction Publishing the report is very simple. You just have to press the
_	iblish	izaro ano republismit.				Publish button The Publish button is shown in Red if the Report was never published. Instead, it is displayed in Green when it has already been Posted.
						You can use the button in any of the steps 同 To save what is already modeled to continue later. In this case, the report is in Draft state
A Home	(MYAPP) Customerswithsalesopportunitie 🗴					

3.7.11.1.3. Report Properties

Report properties can be entered both at the time of their creation and when updating an existing one.

To enter the report properties panel, use the icon 🕸 which is in the top toolbar.

istomers with	sales oppor	tunities 🔹					
					2	Descriptive Name	Name
0	0	0	0		General	Customers with sales opportunit	Customerswithsalesopportunitie
efinition	Entity	Fields	Filters	Publish		Identifier	Application
						b02a37ad-faab-4895-8ccc-1b11	МуАрр - МуАрр
Complete the report	definition 🗸					Description	
	ID					Get all active customers with leads	in the current year.
	Descriptive N	Jame *					
		with sales opportunities					
	Name*						
	Customers	withsalesopportunitie					
	Description *						
		ve customers with leads in the curr	ent year.				
	Application *						
	МуАрр		×				
	Export Form	at *					
	R	III h					
		CSV					

General Tab

Properties

Descriptive Name

It is the report name being displayed.

Name



It is the report name. No blanks or special characters allowed. It is unique and required.

Identifier

It is the report internal name. It is generated automatically.

Application

Allows to define the application to which the object belongs. If no application is reported, the object is assigned to the application "Global".

Actions

The icon \checkmark is used to confirm the modifications made in the properties panel.

The icon 🗙 is used to close the properties panel, if it was not previously saved, changes are discarded.

3.7.12. Export and Import

The modeler user can export their objects for different purposes.

- To move objects between environments, importing those objects into the target environment
- To make backup copies.

Exporting an object generates a compressed file containing the definition of the object and its selected related objects.

Export and import operations have different considerations depending on whether the objects have state or not.

- With state: when imported into the target environment, they have no impact until they are published.
- Without state: when imported into the target environment, they have an immediate impact.

Before moving objects from one environment to another, it is advisable to configure the target environment correctly in terms of organizational units, users, roles, and adapters.

Steps to Move Objects between Environments

Step 1: Import objects

- Applications and permissions are imported first.
- The order in which other objects are imported is indistinct.

Step 2: Publish objects

- It is recommended to publish objects that have no relation to other objects, first.
- First, rules, value list and indicators, followed by forms, dashboards and processes.



Export

Objects are exported from the icon in the top toolbar of each object modeler or from the <u>mode-</u><u>ler's grid</u>, with the exception of application, role and permission, which are exported only in the latter way.

Import

All the objects are imported from the <u>context menu</u> \checkmark of the modeler.

- From the icon 😃.
- From the expanded menu using the "Import" option

МуАрр			Search	Search		
^h Name	Application	Туре	Responsible	Last Update	≑ User	
1 Level Approval Example v1	МуАрр	Process	Alex Farías	9 Mar. de 2021 11:14	Alex Farías	
2 Levels Approval Example v1	MyApp	Process	Alex Farías	9 Mar. de 2021 11:23	Alex Farías	
Account	МуАрр	Form	Alex Farías	1 Sep. de 2021 17:12	Alex Farías	
Account Registration by Day and by Industry	MyApp	Widget	Alex Farías	1 Sep. de 2021 17:00	Alex Farías	
Accounting Operation Income v1	MyApp	Process	Alex Farías	22 Apr. de 2021 10:26	Alex Farías	
Accounts by Date of Registration and by Industry	МуАрр	Widget	Alex Farías	25 Aug. de 2021 15:21	Alex Farías	
Accounts Opened by Industry	МуАрр	Widget	Alex Farías	25 Aug. de 2021 12:20	Alex Farias	
Annual License Application v1	МуАрр	Process	Alex Farías	7 May. de 2021 12:48	Alex Farías	
Attention Tax Notifications v1	МуАрр	Process	Alex Farías	23 Mar. de 2021 16:42	Alex Farías	
Audit Report	МуАрр	Form	Alex Farías	20 Dec. de 2021 17:39	lex Farías	
Certificate Request v1	МуАрр	Process	Alex Farías	9 Apr. de 2021 12:45	Nex Farías	
Confirm novelty request v1	MyApp	Process	Alex Farías	7 May. de 2021 12:37	Alex Farías	

Import Panel

When import starts, a panel with information about the object being imported is opened.

Description

It is the description entered when exporting the object. This text can be modified upon import and is displayed in the description column of the <u>imports record</u>.

Imported Objects

By expanding this container, the related objects are displayed in a hierarchical order. They were included when the main object was exported. Check marks can be removed from objects that you do not want to import.

Application

It corresponds to the application in which each object is imported.

Type



The types of objects being imported are detailed.

Status before import

- In the case of objects with state, it indicates the state of the object in the environment in which it is being imported:
 - : Modified
 - : Published
 - : Draft
- For objects without state, it indicates if there is an object in the environment in which it is being imported or not:
 - ڬ : There is
 - 🕳 : There is not

By pressing the "Import" button, the selected objects become imported into the target environment and the panel displays information on the operation result.

me > Deyel Modeler > MyApp MyApp						- Q 2
	Import Form: Purchase Re	equest	×			
hame	Enter description				t Update	≑ User
2 1 Level Approval Example v1					de 2021 11:14	Alex Farías
2 Levels Approval Example v1	Imported Objects			^	de 2021 11:23	Alex Farías
Account	Name	Application	Type Situación	0	de 2021 17:12	Alex Farías
Account Registration by Day and by Industry	Purchase Request	МуАрр	Form Value List		de 2021 17:00	Alex Farías
Accounting Operation Income v1	Currency	тулрр			: de 2021 10:26	Alex Farias
Accounts by Date of Registration and by Indu	AnnexXMLForm_PURC161408772	3_20211228-162225-SELEC	TIVE zip		g. de 2021 15:21	Alex Farías
Accounts Opened by Industry			Back	Import	g. de 2021 12:20	Alex Farias
Annual License Application v1	МуАрр	Process	🌒 Alex Farías	7 N	lay. de 2021 12:48	Alex Farías
Attention Tax Notifications v1	MyApp	Process) Alex Farías	23	Mar. de 2021 16:42	Alex Farías
Audit Report	MyApp	Form) Alex Farias	20	Dec. de 2021 17:39	Alex Farias
Certificate Request v1	МуАрр	Process) Alex Farías	9 A	pr. de 2021 12:45	Alex Farías
Confirm novelty request v1	МуАрр	Process	Alex Farias	7 N	lay. de 2021 12:37	Alex Farías

By pressing the icon of the **1** column Status , the explanation of its content is displayed.

If the selected objects do not meet any of the conditions to import, the import is totally ineffective, that is, all or none of the objects are imported.

If exported objects imported in versions prior to 7.0, only the allowed related objects are displayed.

Status after import

- For objects with state:
 - If they were in the target environment with published
 or modified state
 , after importing
 they change into modified state
 - $\circ\,$ If they were in the target environment with draft state $\odot\,$ or did not exist, after importing they remain with draft state $\odot\,$
- For objects without state:
 - \circ If they were in the target environment $\mathbf{\underline{\vee}}$, the import updates them directly $\mathbf{\underline{\vee}}$
 - \circ If they did not previously exist —, the import creates them 🞽



Página 752

Conditions for Import

When importing objects, the same conditions apply as when performing the save operation for each object.

Additionally, the following conditions are verified depending on the object:

• Processes

In a process with cases already started, it cannot be imported if activities or gates have been deleted.

- Rules There should be an adapter.
- Roles

There should be a role application, actors and a coordinating user.

• Permissions

The permission application should be in the target environment. It may happen that some of the security functions contained in the permission do not exist in the target environment. In these cases, a warning is issued in the log file and the import is allowed. The imported permission is left without referencing these non-existent functions.

3.7.12.1. Export Registry

Deyel allows IT modeler users to show the executed exports. Thus, to <u>enable registration of exported</u> <u>objects</u>, the property should be selected in the environment. To show, use the menu quick search, entering "Export Registry".



Properties

Number



It is a consecutive number that uniquely identifies the export record.

Identifier

It is an identification of the record that results from the concatenation of the following data:

- Date and time of the export execution.
- Server name.

Date and Time

Date and time when the object was exported.

Server Name

URL of the environment where the export was executed.

Server IP Address

IP address of the computer where the Deyel environment is installed and where the object is exported from.

Customer IP Address

IP address of the user's computer that exports the object.

User

Code of the user that executed the export.

Selective

Indicates the selected export method. This selective option allows the user that exports to choose the objects that are included and that they cannot be updated when performing the import.

File

File generated on export.

Description

If the user entered remarks when exporting the object, they are displayed in this field.

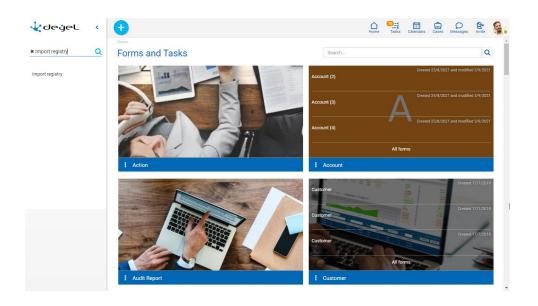
Root Object and Included Objects

The root object is the main object of the export. Whereas all the objects included in the export file are those related to the main object, which were indicated when exporting.

3.7.12.2. Import Registry

Deyel allows IT modeler users to show the executed imports. Thus, to <u>enable registration of imported</u> <u>objects</u>, the property should be selected in the environment. To show, use the menu quick search, entering "Import Registry".





Properties

Number

It is a consecutive number that uniquely identifies the import record.

Import Identifier

It is an identification of the record that results from the concatenation of the following data:

- Date and time of import execution.
- Server name.

Date and Time

Date and time when the object was imported.

Server Name

URL of the environment where the import was executed.

Server IP Address

IP address of the computer where the Deyel environment is installed and where the object is imported from.

Customer IP Address

IP address of the user's computer that imports the object.

User

Code of the user that executed the import.

Selective

Indicates the selected export method. This selective option allows the user that exports to choose the objects that are included and that they cannot be updated when performing the import.

Validated

Determines whether export is performed with a "hash" check.

Log File



In case an error occurs when importing, it defines the file where that error is recorded along with "stack trace".

File

File used in import.

Description

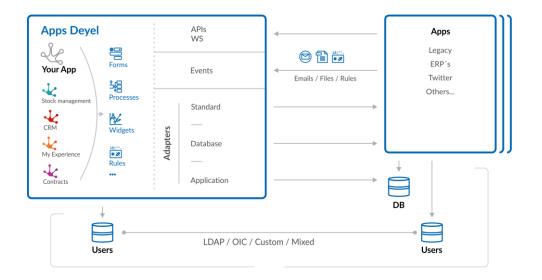
If the user entered <u>remarks</u> when importing, they are displayed in this field.

3.8. Integration

Applications developed with **Deyel** can interact with other applications, by using different tools and services of the platform.

On the one hand, **Deyel** allows to integrate its applications with external applications and existing data sources, that is, Legacy systems, databases, Twitter or other external applications, making use of adapters based on web services, Java and JDBC.

It also has a web services API based on the Richardson maturity model design guides, level 3, which allows any external application to **Deyel** to interact with applications developed with **Deyel**, or with solutions, such as CRM, Contracts or Stock Management, among others. It also allows the use of emails, rules, files and other events.



Applications developed with **Deyel** have their own user directory and if necessary they can be integrated through LDAP, OIC, in a personalized and mixed way, that is, allowing groups of users with different authentications.

Integration Facilities

Applications can be integrated using different platform tools and services.



Integration with External Applications

Applications developed with **Deyel** can be integrated with other applications by different means, either consulting or updating their information.

• Rules based on standard adapters

This integration is done using advanced rules that use the SDK facilities of Deyel and adapters that allow access to web services from external providers.

• Rules based on database adapters that use the Java JDBC protocol

This integration is done using adapters provided by **Deyel** for the most popular database engines on the market.

• Rules based on application adapters

This integration is done using adapters that allow defining access to applications on the market that expose services.

Integration from External Applications

Other applications can be integrated with applications developed with **Deyel**, mainly using Deyel Rest API. There are also other means that can be very useful, depending on the characteristics of the applications to be integrated.

• Use of web services API

Through the use of Deyel Rest API other applications can interact with applications developed with **Deyel**, having access to forms and cases through web services.

• Other media

Integration can be done by using emails, rules and files.

Authentication Schemas

The authentication procedure ensures that any use of **Deyel** and the use of its solutions are performed by "someone" or "something" that can be identified as a user, within the user registry.

Deyel uses different authentication schemas to respond to this request.

Using the Integration

Integration rules can be used from the different objects of the applications developed with **Deyel**.

• Rules in forms and processes

Advanced adapter-based rules can be used using embedded rules.

• Automatic actions of process activities

Advanced adapter-based rules can be used in the modeling of <u>automatic actions</u> of process activities.



• Scheduled tasks and events

Advanced adapter-based rules can also be used in the modeling of events and scheduled tasks.

3.8.1. Deyel Rest API

Deyel Rest API allows developers and external applications to programmatically interact with **Deyel** in a simple way, achieving fast integration at low coding cost.

The layout is modeled as a hierarchy where each node is either a single resource or a collection resource. By convention, the former is called "resource" and the latter is called "collection".

Resources are known as API nouns.

A collection contains a list of resources of the same type.

Example: The users collection contains a list of users where each user is a resource.

According to the REST architecture these resources can be used with a small number of methods.

Methods are known as API verbs.

With the HTTP protocol, resource names map naturally to URLs, while methods map via the HTTP protocol:

- GET method
- POST method
- <u>PUT / PATCH method</u>
- DELETE method

Security

The <u>Rest API security of Deyel</u> is implemented using the standard <u>OAuth 2.0</u>, which allows access to the provided resources, using a single Bearer type access token.

To start using Deyel Rest API, it is first necessary to obtain the access token, which is used in methods that access and interact with resources.

3.8.1.1. GET method

The GET method uses the URL path to determine the collection or resource to get with, optionally, additional parameters that determine the set of results to get for the request.

- It uses the HTTP GET verb.
- There is no request body, that is, the configuration does not declare a "body" clause.
- The displayed resource or resources are contained in the response body.
- Each resource contained in the response body contains hypermedia links (<u>HATEOAS</u>), which allows the API consumer to dynamically navigate to related resources.



In all the examples the "Account (CRM_ACCOUNT)" form of the CRM application is used.

Example: Get all "Account" form instances.

```
GET /forms/CRM ACCOUNT/instances/
```

Optional Parameters

If the request returns a collection of resources, the GET method URL may contain optional parameters that allow customizing the results obtained by that request.

None or several of these parameters may be included in each request, separated by the "&" sign. The general syntax is:

GET /collection-name?parameter=value[{¶meter=value}]

search

Through this parameter, the response content can be filtered using RHS notation. This notation is:

```
fieldName=operator:value
```

One or several filters separated by "," may be included within this parameter.

The "fieldName" value is that of the Identifier property of the resource on which the request is being made.

The possible values for "operator" are:

Value	Description
eq	Equal
neq	Not equal
like	Contains
sw	Starts with
nsw	Does not start with
ew	Ends with
new	Does not end with
gt	Greater than



Value Description	
gte	Greater than equal to
lt	Less than
lte	Less than equal to
in	Included in
nin	Not included in

Example 1: Search all "Account" form instances that have "JPerez" value in the field corresponding to the seller.

GET /forms/CRM ACCOUNT/instances?search=cdInstanceOwner=eq:JPerez

Example 2: Search all "Account" form instances that have "JPerez" value in the field corresponding to the seller and the value of the field corresponding to the company name that starts with the "Acme" value.

GET

```
/forms/CRM_ACCOUNT/instances?search=cdInstanceOwner=eq:JPerez,dsCompany=sw:
Acme
```

sort

This parameter allows sorting the response content according to the needs of the API consumer. The syntax is:

[+/-]fieldName

One or several sorting criteria separated by "," may be included within this parameter.

Prefixes "+" or "-" indicate whether it is an ascending or descending sorting. If omitted, the sorting is assumed to be ascending.

Example 1: Get the "Account" form instances in ascending sorting by the number of employees in the account.

GET /forms/CRM_ACCOUNT/instances?sort=qtEmployee

Example 2: Get the "Account" form instances in ascending sorting by the company name and within it, in descending sorting by the number of employees in the account.

GET /forms/CRM_ACCOUNT/instances?sort=dsCompany,-qtEmployee



per-page

The response to a request is paginated. It means that the API returns a page of the results obtained by the request.

The size of these pages can be determined using this parameter, that is, the maximum amount of resources that the request response contains. The syntax is:

per-page=20

This parameter, like the rest of them, is optional. If omitted, the API takes the following configurable property value <u>Number of lines per page when searching for forms</u>.

Example: Define the page size with value 20.

GET /forms/CRM ACCOUNT/instances?per-page=20

page-number

In combination with the per-page parameter, this parameter allows to determine the subset of results corresponding to a request that are included in the response. The syntax is:

page-number=3

As this parameter is also optional, if omitted, the default value is 1.

Example 1: Return page 2 with pages having 10 resources, that is, resources from 11 to 20.

GET /forms/CRM ACCOUNT/instances?page-number=2

Example 2: Return page 2 with pages having 30 resources, that is, resources from 31 to 60.

GET /forms/CRM_ACCOUNT/instances?per-page=30&page-number=2

HATEOAS

Each resource contained in the response to a given request includes hypermedia links (Hypermedia as the Engine of Application State) that allow the API consumer to dynamically navigate to resources and methods related to the resource being accessed.

In all cases, the response for each resource includes a list of the type:

- rel: HTTP verb to be invoked to access the related resource or method.
- label: Description of the related resource or method.
- href: URL of the related resource or method.

Example: Make a request to get data from instance 91 of the "Account" form.

GET /forms/CRM ACCOUNT/instances/91



The response to this request includes, in addition to properties of the requested form, the information to execute the methods of related resources.

```
"idForm": 91,
"cdStatus": "2",
"phone": null,
"cdUserLastUpdate": "GDIAZ",
"dtLastUpdate": "1605867184000",
"email": null,
"dsIndustry": "13",
"cdUserStore": "GDIAZ",
"dtStore": "1587510800000",
"dsOwner": "Diaz, Guillermo",
"dtOpening": "1587610000000",
"dsHolding": "ACME",
"links":[
        "label": "Edit",
        "href":
        "label": "PartialEdit",
        "href":
        "label": "Remove",
        "href":
```

This information dynamically allows:



- Editing instance 91 of the form PUT /forms/CRM_ACCOUNT/instances/91
- Updating instance 91 of the form PATCH /forms/CRM_ACCOUNT/instances/91
 - Deleting instance 91 of the form DELETE /forms/CRM_ACCOUNT/instances/91

3.8.1.2. POST method

The POST method is used to create a new resource to a collection.

- It uses the HTTP POST verb.
- The url only contains the name of the collection in which a new resource is created.
- The values of the new resource attributes are specified in the request body, that is, the configuration declares a "body" clause.
- The response body contains the information of the resource identifier created in the form: name: Name of the resource identifier attribute (idObjectName).
 value: Value of the resource identifier attribute (idObjectValue).
 dtLastUpdate: Resource creation date.

Example: Create an "Account" form instance.

POST /forms/CRM_ACCOUNT/instances

The request body ("body" clause) contains:





```
"dsState": "buenos aires",
       "tpAddress": "1"
 ],
 "webSiteLine":[
  {
        "dsWebsite": "www.tenaris.com",
        "tpWebsite": "1"
  }
],
 "phoneLine":[
   {
         "tpPhone": "1",
         "nrPhone": "01137489236"
   3
],
 "eMailLine":[
    {
         "tpEmail": "1",
         "dsEmail": "info@tenaris.com"
    }
]
```

3.8.1.3. PUT/PATCH Method

PUT and PATCH methods are used to update a resource. The difference between them is that the PUT method impacts all the attributes of the resource and the PATCH method impacts one or more of those attributes.

- They use the HTTP PUT and PATCH verbs respectively.
- The url contains the collection name and id of the resource to be updated.
- The new values of the resource attributes are specified in the request body, that is, the configuration declares a "body" clause.

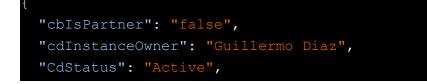
In the PUT method, all the values for all resource attributes must be specified. On the other hand, in the PATCH method, only the values of the attributes that are to be updated must be specified.

• There is no response body.

Example: Instance update with Id = 94 from the "Account" form.

PUT /forms/CRM ACCOUNT/instances/94

The request body ("body" clause) contains:





```
"cdType": "1",
"dsCompany": "Tenaris",
"dsDescription": "",
"dsHolding": "TECHINT",
"dsIndustry": "Manufactures",
"dsOwner": "Guillermo Diaz",
"dsSource": "Referred",
"flLogo": "url",
"idPartnerCompany": "",
"nuIdentifNumber": "30-00000000-5",
"gtAnnualRev": "1500000000",
"qtEmployee": "1000",
"qtScore": "90",
"lsAddress": [
   "dsAddress": "Della Paolera 333",
   "dsCity": "buenos aires",
   "dsCountry": "argentina",
   "dsState": "buenos aires",
   "tpAddress": "1"
],
"webSiteLine": [
   "dsWebsite": "www.tenaris.com",
   "tpWebsite": "1"
],
"phoneLine": [
   "tpPhone": "1",
   "nrPhone": "01137489236"
],
"eMailLine": [
   "tpEmail": "1",
   "dsEmail": "info@tenaris.com"
```



PATCH /forms/CRMACCOUNT/instances/94

The request body ("body" clause) contains:

```
"dsDescription": "Steel company",
"dsHolding": "TECHINT Co",
"dsIndustry": "Manufactures"
}
```

3.8.1.4. DELETE method

The DELETE method is used to delete a resource contained within the operation url.

- It uses the HTTP DELETE verb.
- The url contains the collection name and id of the resource to be deleted.
- There is no request body.
- There is no response body.

Example: Deletion of instance with Id = 94 from the "Account" form.

DELETE /forms/CRM_ACCOUNT/instances/94

3.8.1.5. Return Codes

All methods are implemented in such a way that the response contains not only the information returned by the request in the corresponding cases, but the return code that indicates the result, successful or not, of the operation performed.

If the result of the operation is not successful, in addition to the corresponding return code, a collection is returned with all the errors of **Deyel** that have occurred.

Although each method implements its own return codes for its operation, all possible HTTP return codes are described in the following table.

HTTP response code	Description
200	"OK" success code, for GET or HEAD request.
201	"Created" success code, for POST request.
202	"Updated" success code, for PUT request.
204	"No Content" success code, for DELETE request.



HTTP response code	Description
400	The request couldn't be understood, usually be- cause the JSON or XML body contains an error.
401	The session ID or OAuth token used has expired or is invalid. The response body contains the message and errorCode.
403	The request has been refused. Verify that the logged-in user has appropriate permissions. If the error code is REQUEST_LIMIT_EXCEEDED, you've exceeded API request limits in your org.
404	The requested resource couldn't be found. Check the URI for errors, and verify that there are no sharing issues.
405	The method specified in the Request-Line isn't allowed for the resource specified in the URI.
415	The entity in the request is in a format that's not supported by the specified method.
500	An error has occurred within Deyel Platform, so the request could not be completed. Contact Deyel Customer Support.
503	Service unavailable. Contact Deyel Customer Support.

3.8.1.6. Data Type

Data types available in **Deyel** are detailed, with its equivalent representation in the JSON schemas used by the API.

	Data type	Type in JSON	Example
Text	Alpha- nume- ric (len- gth)	String	"value"
	Alpha- nume-		



	Data type	Type in JSON	Example	
	ric Up- percase (length)			
	Large Alpha- nume- ric			
	Enri- ched Text			
lintererer	Num- ber	Number	10	
Integer	Large Integer	String	"10"	
	Decimal		"10.5"	
Time	Time	String (milliseconds from epoch)	"946748150000"	
Time	Local time	String (miniseconds from epoch)		
	Date			
Date	Date and Time	String (milliseconds from epoch)	"1606499064998"	
	Local Date			
	Date and Local Time			
lmage	lmage in Da- tabase	String	"&cdRepositorio=IDB&dsFilename=2p g&dsOriginalFilename=photo.jpg"	
File	File in	String	"&cdRepositorio=IDB&dsFilename=2p	



	Data type	Type in JSON	Example
	Data- base		g&dsOriginalFilename=photo.jpg"
Check	Check	Boolean	true / false

3.8.1.7. Swagger Reference Guide

Within the documentation tools available on the market, **Deyel** uses <u>Swagger</u>, a collaborative platform that has established itself as a benchmark.

All endpoints available in the API are documented in the reference guide, along with the definition and explanation of their parameters, request schemas and data structure of each of them.

This is an interactive documentation that allows to explore and test API calls from a browser, showing parameters, headers, request schemas, and response body, as well as the duration of the request and the URL command that can be used to send the same request from the command line.

3.8.1.8. Security

Deyel implements the <u>OAuth 2.0</u> standard to interact with its Rest API using a Bearer access token.

It is important to understand the concepts of authentication and authorization.

Authentication is defined as the process to verify who is connecting, that is, it refers to identification.

For example, when a user logs into an application by entering a username and password, the application authenticates that user. That is, the application verifies that the entered password matches the one associated with the user. As long as the password matches, the user can access the application. But if it doesn't match, the user is not allowed to log in because their ID could not be confirmed.

Authorization is defined as the process that verifies what the user has access to.

For example, in an application that offers different functionalities for free users and fee-paying users, free users are authorized to access only a limited set of functionalities until they pay the subscription and become users with better functionalities.

Registration of External Applications

In **Deyel**, applications that try to connect from an external environment are represented by a thing type user "<u>Rest API Client</u>". This means that in order to consume the resources exposed in Deyel Rest API, it is necessary to send the credentials of that user in order to authenticate and generate the corresponding access token, which must then be used for consumption by the different endpoints.



To configure a <u>smart thing type</u> user, it should be created from the "Configuration" option of the **Deyel** menu. A smart thing type user must be defined, configuring its properties to indicate name, user, type and permissions for each application.

k → 🔁			0 45 North Tax	a Calendara Cases Massages Invite
Smart Things			6	Uses 🛱 Invitations 👂 🔋 🌒
РА	Kott usual activities	Worked days	Constitute Wy Table Finite day Description	
Name * APIUSER		Email APIUSERg000000000.com	User* Allas PMBOT APUGER	
Labor Data				
 Delegations and Absences 				
Security				
 State and Expiration 			A Ucences	
User State Active	Expiration Data	Pessword Expires Never	Product * License Type * Dayel Perticipant	~ ₀⊚
Permissions			A Roles	
Application	Permission			
CRM	✓ Salesperson			
Deyel	✓ End User	~ ○ ⊙		
Personal Information				
Configuration				
Definition Vable	Type of Thing	ר		
No	Cliente API Rest			
		•		

The smart thing type user properties should be completed with the suggested values.

Name	APIUSER
User	APIUSER
Email	Email address where the user receives the password.
Туре	Rest API Client
Product	CRM
Type of License	Participant
Product	Deyel
Type of License	Participant
Application	CRM
Permission	Salesperson
Application	Deyel
Permission	End User

Access Token Request Endpoint



To request the new access tokens and to access the different endpoints, it is necessary to first access the endpoint:

https://<ambiente>/oauth/token

To request the access token, the following configuration should be used:

- POST verb.
- Add parameters using the format:

"application/x-www-form-urlencoded".

- Access credentials ("client_id" and "client_secret") must be sent in "Basic xxxxxx" format where the xxxxxx represent Base64 encoded values.
- The parameters to be sent vary depending on the <u>authorization flow</u>, but the "grant_type" parameter must always be sent.

Deyel has an <u>OAuth 2.0</u> module that is implemented internally and serves to perform user authorization and generates as a result a JWT token used to authorize.

Expiration and Renewal of Tokens

The generated access tokens are valid for 1 day, while the refresh tokens last for 14 days, users are asked to identify themselves again at the end of the period.

Information Stored in Tokens

The generated access token registers claims in the JWT body (payload): user code, organizational unit of the user and user permissions.

3.8.1.8.1. OAuth 2.0

OAuth 2.0 is an authorization protocol. It allows a third-party application to have access to an HTTP service, either on behalf of a resource owner, by arranging an approval interaction between the resource owner and the HTTP service, or by allowing the third-party application to have access on its own name.

OAuth 2.0 focuses on:

- Providing authorization flows to limit access to a service. Authorization flows are intended to be used by web applications, desktop applications, mobile phones, and room (bedroom, living room, etc) devices.
- Providing scopes to specify what access is requested by the application and what is authorized to be accessed by the owner of the accessed resource.

Authorization Flow (Flow Grant Types)



OAuth flows (grant types) refer to how an application obtains an access token that allows it to access resources exposed through an API. The standard uses these flows to solve all business scenarios that may arise in the consumption of APIs based on three variables:

- The type of consuming application.
- Its degree of confidence.
- How the resource owner interacts in the process.

Authorization Flows Available in Deyel

In Deyel, the following authorization flows are available:

• Client Credentials

This flow is used to consume the objects exposed in the Rest API. The client can request an access token using only their client credentials when requesting access to protected resources under their control.

• Resource Owner Password

Like the previous flow, it is used to consume the objects exposed in the Rest API. The flow is suitable for clients capable of obtaining the resource owner's credentials (username and password, typically via an interactive form) and working on their behalf with their protected resources.

Refresh Token

It is used to refresh access tokens. This means that those access tokens that expire or become invalid should be exchanged for a new one using this flow. It is used in authorizations with the Resource Owner Password flow.

3.8.1.8.1.1. Client Credentials

To make calls, the following configuration should be used:

- POST verb.
- Add parameters using the format:
- "application/x-www-form-urlencoded".
- Access credentials ("client_id" and "client_secret") must be sent in "Basic xxxxxx" format where the xxxxxx represent Base64 encoded values.
- Specify the "grant_type" parameter with "client_credentials" value.

Example of Use in Postman

• Specification of authorization with "Rest API thing" user keys.



POST ~	localhost/oauth/toker	ı				Send 🗸
Params Authoriza	ation • Headers (1	0) Body	Pre-request Script	Tests Se	ettings	Cookies
Туре	Basic Auth 🗸	Username			DEV	
The authorization hea automatically general the request. Learn more about aut	ted when you send	Password			Show Password	

• Specification of grant_type and parameter sending format.

POST	r v {{token_uri}}	/token		S	end ~
Paran	_	eaders (10) Body • Pre-request Script			Cookies
	KEY	VALUE	DESCRIP	TION 000	Bulk Edit
	grant_type	client_credentials			
	Key	Value	Descripti	ion	

Successful response of access token request:





Failed response of access token request:



3.8.1.8.1.2. Resource Owner Password Credentials

To make calls, the following configuration should be used:

- POST verb.
- Add parameters using the format:
- "application/x-www-form-urlencoded".
- Access credentials ("client_id" and "client_secret") must be sent in "Basic xxxxxx" format where the xxxxxx represent Base64 encoded values.
- Specify the "grant_type" parameter with "password" value.
- Specify the "username" parameter with the value of the resource owner's username.
- Specify the "password" parameter with the value of the resource owner's password.

Usage Example in Postman

The following is an example of an access token request from Postman.

POST v localhost:8080/oauth/token			Send 🗸
Params Authorization Headers (10) Body	Pre-request Script Tests Settings		Cookies
Type Basic Auth \checkmark Username	DEYE	BOT	
The authorization header will be Password automatically generated when you send the request.		••• wv Password	
POST v localhost:8080/oauth/token			Send V
Params Authorization Headers (10) Body • none • form-data • x-www-form-urlencoded			Cookies
KEY	VALUE	DESCRIPTION	••• Bulk Edit
grant_type	password		
username username	afarias		
password	deyel123		
Key	Value	Description	

The client makes the following HTTP request:

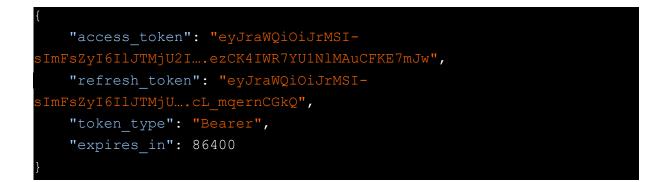
POST /oauth/token HTTP/1.1



```
Host: localhost:8080
Authorization: Basic REVZRUxCT1Q6Qk9UREVZRUwzMTIh
Content-Type: application/x-www-form-urlencoded
Content-Length: 54
grant_type=password&username=afarias&password=deyel123
```

If the access token request is valid and authorized, the authorization server issues an access token and a refresh token. If the client request failed authentication or is invalid, the authorization server returns an error response, such as for submitting a non-existent user.

Successful access token response:



Failed answer:



3.8.1.8.1.3. Refresh Token

In the event that a refresh token or access token is denied by an HTTP 401 code, the access token request endpoint must be invoked with the following configuration:

- POST verb.
- Add parameters using the format:

"application/x-www-form-urlencoded".

- The "client_id" access credential must be sent in "Basic xxxxxx" format where the xxxxxx represent Base64 encoded values.
- Specify the "grant_type" parameter with "refresh_token" value.
- Specify the "refresh_token" parameter with the value of the refresh token obtained when authenticating with **Deyel**.

Usage Example in Postman

• Authorization specification with user code.



POST ~	localhost:8080/oauth	n/token				Send ~
Params Authoriz	ation • Headers (10) Body	Pre-request Script	Tests Se	ettings	Cookies
Туре	Basic Auth 🗸 🗸	Username			SLOPEZ	
The authorization her automatically genera the request. Learn more about au	ted when you send	Password			Show Password	

• Specification of "grant_type", parameter sending format and refresh token value.

POS	OST ~ localhost:8080/oauth/token						
Params Authorization Headers (10) Body Pre-request Script Tests Settings Coo none form-data x-www-form-urlencoded raw binary GraphQL Coo Coo <td< th=""></td<>							
	KEY		VALUE	DESCRIPTION	000	Bulk Edit	
\checkmark	grant_type		refresh_token				
\checkmark	refresh_token eyJAIMUhTD7kJMi_EAchnsm7yguu4K2iOjTZFjBWcHd57bw						
	Кеу		Value	Description			

As a response, a new access token and the same refresh_token value are obtained.

Example of successful access token request:



Example of failed access token request:





3.9. Business Social Network - Tedis

Tedis is a business social network integrated to **Deyel**, aimed at improving communication and collaboration within the organization. It offers great potential when it comes to relating work teams, processes and cases with an agile, fast and highly intuitive messaging.

Through <u>chats</u>, users can exchange messages freely, receiving instant notifications and thus speeding up the exchange of information.

Associate <u>comments</u> to objects allows users to register comments in a group chat that is associated with the different objects of **Deyel**.

Comments associated with cases allow users to register comments on a particular case, leaving this information as part of the case and available to other interested users. The participation of multiple users that incorporate and share their comments constitutes a powerful tool that promotes collaboration and makes processes more efficient. This mechanism allows, for example, to inquire other users without the need to deliver the case to them so that they can intervene formally.

Comments related to the definition of processes enable a direct communication channel among the case participants and those users responsible for such processes, in order to improve their definition.

Form-related comments allow users to interact, collaborate, and discuss forms instances. In addition, conversations of cases associated with forms can be shown, in order to keep track of forms, learn about user interactions and also provide advice or opinions on their use.

Through subscriptions, each user may choose to receive news about comments related to the object of interest. This allows quick tracking of new comments without having to show a particular case or form.

By using <u>commands</u>, it is possible to start the execution of a process from a chat window, with the possibility of executing it entirely from a chat window using actionable messages. To do this, all you have to do is define a process with a start event by command, and then associate the process command with one or more system bots. Actionable messages allow interaction with the process, showing



the associated form fields in an instant message, so that the activities of a process can be executed from a chat window.

In case of losing connection with Tedis, the social networking goes offline and the messaging functions become available again when the connection is restored.

3.9.1. Chats

By pressing the icon corresponding to the messages on the <u>top toolbar</u>, the message panel opens. The number above this icon indicates the user's total number of unread messages.



Message Panel

Show/Hide Sidebar

This option allows to show or hide the <u>chat sidebar</u>, which contains conversations and users. Initially this bar is active.



It allows to configure the conversation notifications.

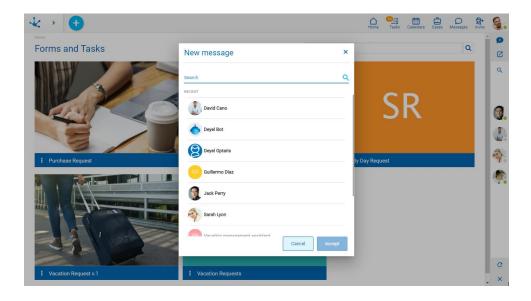
Recent Conversations

In the final part of the message panel, the last user's conversations are displayed, starting with the most recent ones. Through the "Load more conversations" option, previous conversations can be incorporated.

New Message



It opens a window to select the recipient of a new message, using a wizard.



Select the number of desired recipients, in this case a group chat is generated. Selecting more than one recipient enables entering a title for the new group chat, which is required.

Pressing the "Accept" button opens the chat window, to allow sending messages.

Another option to open a new message is to do it from the full screen feature.

Guest User Permission

In **Deyel** there is a permission called "<u>Guest user in Tedis</u>", which determines the actions that a guest user can perform in the business social network.

A guest user can only reply to messages from chats with previous messages from other users. The following actions are limited:

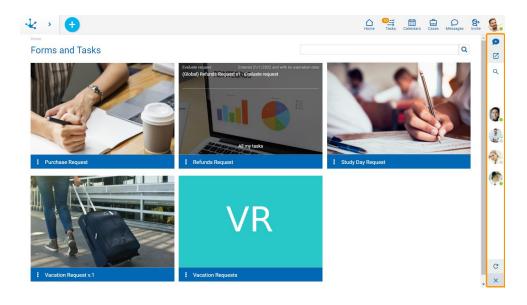
- See the list of users.
- Create new chats.
- Add and remove users in group chats.
- Modify the title of a group chat.

In case the guest user deletes the chat history, it cannot be accessed until they receive a new message.

3.9.1.1. Chat Bar



The chat bar contains users icons and the chats in which the user participates. The bar can be displayed expanded.

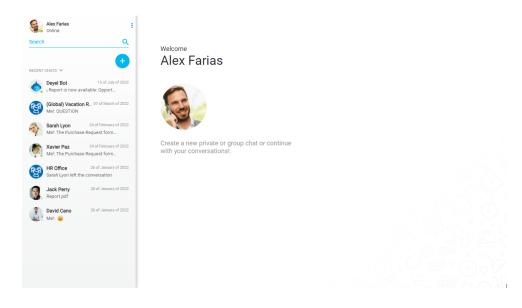


New Message 🗩

It allows to open a window to select the recipient to send a new message, by using a wizard.

Full Screen 🖸

It allows switching to the full screen Tedis interface, in a new browser tab. It has the same functionalities as the <u>chat window</u>.



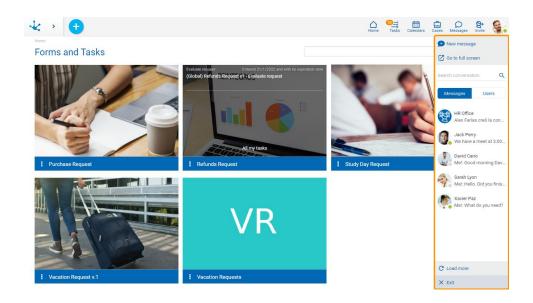


Expanded Bar

The chat bar can be displayed using the search icon \mathbf{Q} , enabling tabs for messages and users. The bar returns to its original state when the cursor is moved away from it.

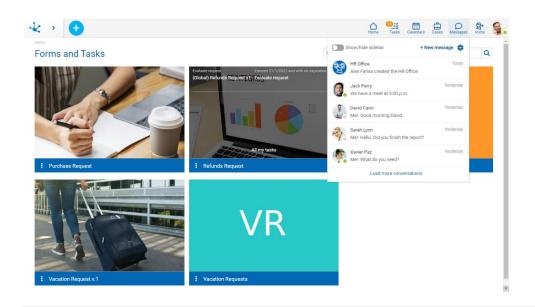
Messages

In this tab, users conversations can be displayed in chronological order, with the most recent ones at the top.



Users

This tab displays the users of **Deyel**, first those that are connected and then those that are not. In both groups, in ascending alphabetical order.





Connection State

Both in the messages tab and in the users tab, the connection state is displayed next to the user's name. The possible connection states are:

- Connected
- Not available
- Absent
- Disconnected

The connection state can be modified from the <u>user profile</u>.

Search Users/Chats Q

In the users tab, the icon allows users to be searched by first and last name, while in the messages tab, search can be done by message content or by the name of a group conversation.

The result of users or conversations is filtered as text is entered in the search line.

Load more Conversations C

In the users tab, the icon allows to add users to the bar, while in the messages tab it allows to add previous conversations.

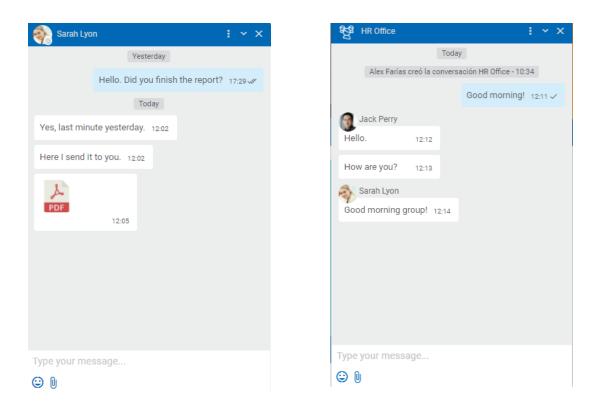
3.9.1.2. Chat Window

Users can exchange messages within a chat window. A separate window opens for each user's conversation. Conversations can be private or group.

Private Chat

Group Chat





Messages States

Each sent message has a state icon to its right that indicates whether it has been sent or already read.

Possible states are:

- Sending: the message has not been sent yet.
- Sent: The message has been sent and was received by the recipient.
- Read: the message has been read by the recipient.

In the case of group chats, state *«* will only appear once everyone in the group has read the message. Hovering over the state of the message allows to get information about who has already read the message.

Menu

Access by pressing the icon located in the top bar of the chat window.

Actions

Remove history

Deletes all messages in the conversation for the user. For a group chat, once its history is deleted, it cannot be accessed until a new message is received.





For a private chat, this option allows to add users to the conversation, thus creating a new group chat. The window for adding new users to a conversation is similar to the one used to create a <u>new messa-ge</u>, only one line is required to be added so as to give the group a title. For group chats, just add users to the chat. Any participant in the group can add new participants.

Group chats have some additional actions.

Show participants

It allows to see users participating in the conversation, indicating the connection state. Selecting a user's image opens that user's private chat window.

T Update title

Opens a window for modifying the title of the conversation.

- Remove user

It allows to remove one or more participants from a group chat by using a selection wizard. Only the creator of the chat can remove participants.

Leave conversation

It allows users to disassociate themselves from a group chat, not being able to access the conversation or its messages again.

Go to full screen

It allows to pass the conversation to <u>full screen</u>, in a new browser tab.

Reduce and **Expand**

The chat window can be displayed maximized, reduced or minimized.



	\delta Sarah Lyon	: × ^ ×
	Yes, last minute yesterday. 12	2:02
	Here I send it to you. 12:02	
	PDF 12:05	
	Per	fect! 12:17 🛷
	any other	news? 12:17 🖋
	Yes, we decided to change the today's meeting.	e time of 12:18
	It'll be at 4:00 p.m. finally. 12:	20
	Type your message	
🗞 Sarah Lyon 🔹 🔨 🗙	© ()	



	n		: ~ ×
	Hello. Did you	finish the report	t? 17:29 🛷
	Tod	ay	
Yes, last min	ute yesterday.	12:02	
Here I send i	t to you. 12:02		
PDF			
	12:05		
		Perfect!	12:17 🖋
		any other news	3? 12:17 🛷
Yes, we decid meeting.	ded to change t	he time of today	's 12:18
It'll be at 4:0	0 p.m. finally. 1	2:20	
Type your me	essage		
© ()			

It allows to reduce or minimize the chat window showing only the information of the top chat bar, depending on the current size.

For minimized windows, pressing this icon expands the window displaying messages again, while for reduced windows it maximizes them.

🗙 Close

It allows to close the chat window, removing it from the set of open conversations.

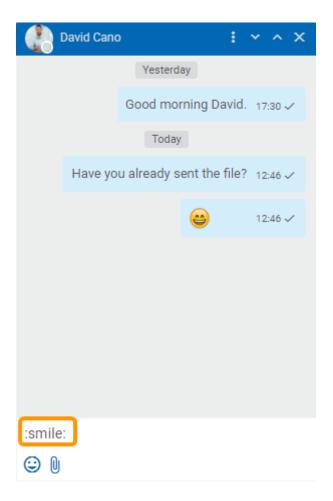
Other Facilities

At the bottom of the chat window there are icons that facilitate collaboration among users.



😉 Emoticons

It allows to include emoticons in messages, either by pressing the corresponding icon and selecting the emoticon from a palette, or by writing its code.



l Attach Files

It allows to associate one or more attachments to the conversation. To do this, you should press the corresponding icon and select the files to send. It is also possible to drag files from a local directory to the chat window, if the chat window is expanded.

Once the files have been attached, they are displayed associated with the message. A maximum of 6 files per message can be attached, they must have extensions other than .exe and .msi.

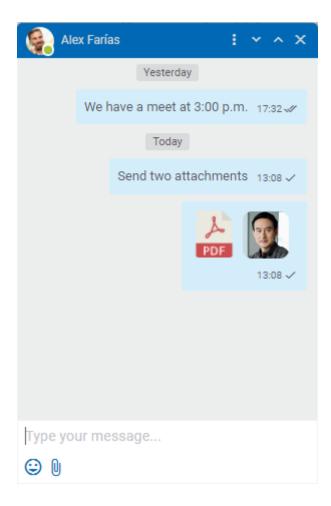
A message with attachments can be sent with or without text. Pressing the icon \bigotimes located to the right of each file allows its removal from the set to be sent.



Alex Farías	;	÷	~ ^ X
Yes,	last minute	yesterday.	12:02 🖋
	Here I ser	nd it to you.	12:02 🛷
		PDF	12:05 🖋
Perfect!	12:17		
any other new	S? 12:17		
Yes, we d today's m		hange the ti	me of 12:18 🛷
It'll	be at 4:00	o.m. finally.	12:20 🖋
Report.pdf			8
🔺 XPaz.png			8
Type your mes	sage		
⊖ ()			

Once a file is sent, an icon identifying its type is displayed. If an image file is sent, a preview of it is included.





If due to some error a file could not be attached, an icon is displayed to the right of it to try again.

The maximum size in MB for an attachment depends on the value of the variable <u>Maximum si-</u> <u>ze for attachments</u> defined for the environment.

Copying and pasting files to a Tedis conversation is allowed <u>full screen</u>.

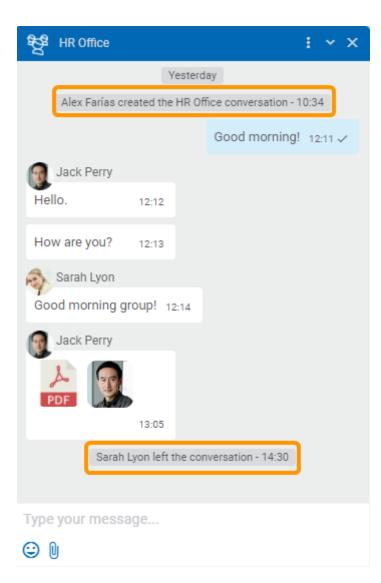
<> Commands

It allows the execution of commands previously defined.

3.9.1.2.1. Events

Events are a special type of messages that are generated in case of an occurence. These events are generated automatically when something happens that must be reported to the members of a chat, such as reporting that a user has left a conversation.





3.9.1.3. User Preferences

Deyel allows to modify user preferences when using Tedis business social network. The preferences window is opened by pressing the icon ² in the <u>chat</u> panel.

Preferences for the use of Tedis can also be defined when configuring the environment.



√ ∠ → (+)			Home	Tasks Ca	endars Case	وج Messages	8+ Invite	۶.
Forms and Tasks		× req				Q) 1	Ø
	Evaluate request Preferences	Entered 21/1/2022 and with no expiration date	×				I	ଅ ଦ
	Use of the Business Social Network - Tedis	General General appearance of conversations		SF	2			۵.
Purchase Request	General > Notifications	Conversation display size Reduced Image: Conversion of the second s						() .
								() () ()
		Cancel	Accept					() ()
Vacation Request v.1	Vacation I	Requests						×

Conversations display size

Allows the user to define the initial size of chat windows, they can be seen in reduced or expanded form, this last value being the default.

New message notifications

Allows the user to enable or disable notifications when receiving a new message. These notifications are enabled by default.

Enabling these notifications allows the user to receive a notification at the bottom right of the screen every time they receive a new message.

Connected user notifications

Allows the user to enable or disable notifications when a user connects to **Deyel**. These notifications are enabled by default.

Enabling these notifications allows the user to receive a notification at the bottom right of the screen every time a user connects to **Deyel**.

3.9.2. Comments Associated with Objects

When a user is running a case or updating a form instance, they may need to make a query to other users. This communication and exchange of additional information usually takes place without using applications, for example through phone calls, emails, etc. **Deyel** suggests to use a chat during the execution of processes cases and during the use of forms instances, in order to associate comments with the application.

These conversations have an additional behavior to the group conversations.



• Go to related object

It allows the user to show directly the object related to the conversation.

• Subscribe / Unsubscribe

A user that can show an object may participate in the comments on it. Those users that wish to be informed about any news added to the comments, can use the subscription function. A user that has subscribed to the comments of a case or form is notified every time a new message is entered in such chat. Besides, other users can be added to the chat so that they can also participate and be notified of new comments. A subscribed user may also leave the chat if they no longer want to receive notifications.

4 < → (•			Home	Tasks Calen	dars Cases	0 Messages	8+ Invite
Home Evaluate (Global) Refu	request nds Request v1 - Evaluate request			Ś	🤊 Case 🖂 Ema	ils 🗩		8 🖬
Applicant Name * Xavier		Sumame * Paz		Organizational Unit Sales Department				
 Expenses to be 	e reimbursed							
Date 21/01/2022 Additional Info	Concept Various expenses mation	Project Great clients	Currency U.S. Dollar	Amount Refunds Request	į,	Show pa	rticipants	8
Comments						T Update t		10
						Go to fu		pprove
				Type your message.				

Comments Associated with Cases

Having a case-specific conversation simplifies process modeling, as countless situations can be solved through user interaction rather than process modeling, as well as feeding the case with information used for decision making.

How to access comments associated with a case:

• Show of the case, selecting the "Case" option.



< → 🕂			⊢ ∰⊒ Home Tasks Cale	ndars Cases Messages Invite
Global) Notification of Absence v	1 - Evaluate request			9 📎 i 🗞 🖬
AbsenceName *		Surname *	Organizational Unit *	
Alex		Farias	System Departments	
Start Date *	Number of days *			
04/01/2022 <	1			
Reason *				
illness				
				1
Additional Information				
Voucher Select a file				

• From the last tasks panel.

4 🔸 🛨			Home	O Tasks	Calendars	Cases	Q Messages	8+ Invite	Ø
forme Correct request (Global) Refunds Request v1 - Correct request		Last Tasks			Emails	•		8	1
(Global) ketunas kequest v1 - Correct request Applicant		Correct request (Global) Refunds Request v1 - Correct request	1 m	inute ago.					
Name *	Surname *	Show Cancel	s	end					
Xavier	Paz	Determine treatment		5/5/2021					
Expenses to be reimbursed		(MyApp) Request for Contracting Services v1 - Determine treatment							
Date Concept I	Project	Show Cancel	Schee	iule					
21/01/2022 Various expenses	Great clients	Determine treatment	4	/21/2021	file		< 0	8	
Additional information		(MyApp) Request for Contracting Services v1 - Determine treatment							
Comments		Show Cancel	Schee	lule					
		All my tasks							

• From the tasks grid.



Case	Process	Description	Activity	Start Date	Responsible User	Expiration Da Priority
50	Consolidated Weekly Reimbursements	(MyApp) Consolidated Weekly Reimbursements v1 - Check Consolidated	Check Consolidated	26/10/2021 16:06	🜒 Alex Farías	4
9 0 49	Consolidated Weekly Reimbursements	(MyApp) Consolidated Weekly Reimbursements v1 - Check Consolidated	Check Consolidated	19/10/2021 16:06) Alex Farias	4
36	Refund with possible payment suspension	(MyApp) Refund with possible payment suspension v1 - Evaluate request	Evaluate request	18/10/2021 14:49) Alex Farías	4
25	Refunds with Budget Control	(Global) Refunds with Budget Control v1 - Evaluate application	Evaluate application	18/10/2021 14:49	😫 Alex Farías	4
D 18	Refund of reported pending expenses	(MyApp) Refund of reported pending expenses v1 - Check availability	Check availability	18/10/2021 14:49	😫 Alex Farías	4
0 26	Refunds with Budget Control	(Global) Refunds with Budget Control v1 - Evaluate application	Evaluate application	18/10/2021 14:49	🔮 Alex Farías	4
0 35	Refund with possible payment suspension	(MyApp) Refund with possible payment suspension v1 - Correct request	Correct request	18/10/2021 14:48) Alex Farías	4
37	Refund with possible payment suspension	(MyApp) Refund with possible payment suspension v1 - Correct request	Correct request	18/10/2021 14:48	ilex Farias	4

• From the cases grid

• •	(+)							Home	O Tasks	Calendars	Cases	O Messages	8+ Invite
Cases	;			Search					•	Q	New	Case Si	tuation
Case		Status	Description	c	Chat	Activity	Activity Start	Res Use	ponsible r	\$ Co	mpletion	Expiration Date	1
10	Refunds Request	•	(Global) Refunds Request v1	2	2	Request approved					15/02/2023	2	
9	Notification of Absence	•	(Global) Notification of Absence v1	Ş	P	Request approved					15/02/2023	2	
8	Vacation Request v1	•	(Global) Vacation Request v1 v1	S	P	Request approved				1	26/01/2023	2	
6	Refunds Request	•	(Global) Refunds Request v1	2	P	Request approved				1	21/01/2023	2	
5	Refunds Request	•	(Global) Refunds Request v1	Ş	P	Request approved				3	20/01/2023	2	
2	Refunds Request	•	(Global) Refunds Request v1	\$	P	Request approved				(06/01/2023	2	
39	Refund of reported pending expenses	•	(MyApp) Refund of reported pending	expenses v1	P					:	27/01/2023	2	
38	Refund of reported pending expenses	•	(MyApp) Refund of reported pending	expenses v1	P					1	31/08/202		
37	Refund with possible payment suspension	•	(MyApp) Refund with possible payme v1 - Correct request	nt suspension	P	Correct request	18/10/20	21 🔮 Fari	Alex				-
36	Refund with possible payment suspension	•	(MyApp) Refund with possible payme v1 - Evaluate request	nt suspension	P	Evaluate request	18/10/20	21 Sari				-	-
35	Refund with possible payment suspension	•	(MyApp) Refund with possible payme v1 - Correct request	nt suspension	Q	Correct request	18/10/20	21 Sari	Alex				

Events Generation

As the case progresses within the activities, events are generated informing of such progress.



(Global) Vacation Reques : • • • ×
Today
The case 'Notification of Absence of: Sandra Lopez for the day: 26/01/2022' has progressed to the activity 'Cancel?' - 10:36
The case 'Notification of Absence of: Sandra Lopez for the day: 26/01/2022' has progressed to the activity 'Evaluate request' - 10:36
Type your message

Comments Associated with Cases

Within the continuous process improvement cycle, it is important for the responsible user or the <u>owner</u> of the process to be in contact with its users. For this, there is an exclusive chat for each process where its users can record messages related to modeling, thus allowing the modeling responsible users to receive these comments.

me E Evaluate request (Global) Notification of Absence v1 - Evaluate request		Home Tasks Calendars Case	Messages Invite
Absence			
iame *	Sumame *	Organizational Unit *	
Alex	Farías	System Departments	
tart Date * Number of days *			
04/01/2022 <	1		
eason *			
illness			
			li
Additional Information			
oucher			
ouchei			



Comments Associated with Forms

Deyel allows to create conversations associated with forms instances, so that users who use them can interact and collaborate on specific topics of the form. Users who have <u>permissions</u> on the form may subscribe to the conversation.

How to access comments associated with a form instance:

• Show of the form instance.

Full name				
-ull name	Demonstration			
Full name	Provide the			
	Request date			
Xavier Paz	20/01/2022 <			
Description				
				Delete Update
	Description	Description	Description	Description

• From the grid of form instances.

 Identificator Full	name	Request date	Description				
3 Jack	< Perry	12/01/2022					
2 Sara	ih Lyon	04/01/2022					
1 Xavi	er Paz	20/01/2022					

3.9.3. Bots and Comands



A command is a specific instruction defined for a user or for a "Chatbot" type thing, which allows to start the execution of a specific business <u>process</u>. To do this, the start of process should have been modeled with a <u>start event by command</u>.

A <u>chatbot</u> or bot is a special type of user that is used for the execution of commands through a chat window.

3.9.3.1. Actionable Messages

An actionable message is an instant message from a chat, which in addition to text contains fields of a form associated with the process, where the user can enter information to execute an activity.

Actionable message fields have validations specified both in the modeling of the form and in the process activity in which it is located.

If the logic gateways of the process define buttons, these are shown in the chat window.

There is an additional button that is displayed in actionable messages, which allows to show the case being executed.

3.10. BAM and Process Analysis

Phase 7: BAM

Deyel has a set of predefined reports that allow analyzing the operation of processes and their tasks, both historically (Analysis) and in real time (BAM). The information in these reports is updated through the scheduled system tasks.

Through these reports, it is possible to observe and understand the operation of processes and detect possible improvements.

Predefined reports summarize the behavior of processes and their tasks. They allow identifying what was done on time, behind schedule, deviations against maximum and expected durations, trends, participants performance, bottlenecks, etc.

The behavioral information is displayed in the form of a grid and through charts, always having the reference of the expected trend curves to contrast against reality. In this way, behavior can be graphically monitored. In all cases, the information can be drilled down, to reach the process level, task, executor, date range, case, etc.

Although the reports are predefined, multiple views of the information can be generated, when analyzing it by applying search criteria, such as time, priorities, participants, initiators, cases states and tasks, among others.

In the case of real time analysis, in addition to identifying the cases and tasks that are on time and behind schedule, those that are at risk are identified, providing tools to proceed on what is actually happening in the organization.



In addition to the predefined reports, user-defined reports can be incorporated based on existing or supplement them with specific characteristics of the organization.

Reports are accessed through the different menu options that are displayed by pressing "BAM and Analysis".

3.10.1. Process Analysis - Process Behavior

Phase 7: BAM > Process analysis

In this report, the behavior of processes is quickly displayed, indicating the cases that were completed on time, those behind schedule and the real average duration compared to the maximum duration.

The information can be displayed by applying the search filters shown in the upper section of the report.

Process	Home		Completion	
Priority	Initiator		Owner	
· · · · · · · ·		•	•	
75 🖌 2440	1292	4307 💼	28.59 - 6.5	P
Time No Maximun Dura	ation With Delay	Total Cases	Average Durat. (Days) Max, Dur	at. (Days)
Iration		Ended Cases		
erage (Days)	28.59			
ximum (Days)	6.5		On Time	575
			No Maximun Duration	2440

3.10.2. Process Analysis - Monthly Duration

Phase 7: BAM > Process analysis

The report on distribution of cases by duration must show a chart similar to a Gaussian bell, where the center of the bell is the average duration, provided that the behavior of the processes is adequate. To analyze behavior in detail, drill down on the values of the grid in order to reach the cases that make up each value.



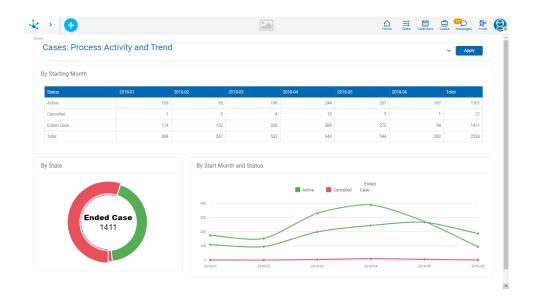
																									Hor	ne	Taska	Calenc	Jero C		Messages	
inded	Cases	: Mo	onth	ly D	urat	ion																								^	Appl	y
Process										Но	me											Comple	ion									
				•																												
Situation										Init	iator											Owner										
				~												•											•					
	- ()- D		Del este																													
Duration	n (in Days) and	Priorit	у																												
												Urgent		Hight		Med	dia	Lov	N													
2000																																
1500																																
1500																																,
1500			;																		•											
1500 1000 500	1 2	3	4	5		8	7	8	8	0 10	11	12	13	14	15	18	17	18	3 1	19 2	20	21	2 2	3	4 25	2	6	27	28	29	30	+31
1500 1000 500 0	1 2	3	8 4	5		5	7	8	9	10	11	12	13	14	15	18	17	18	3 1	1 9	20	21 :	2 2	3	4 25	2	8	27	28	29	30	+31
	1 2 n (in Days		4	5		5	7	8	0	10	11	12	13	14	15	18	17	18	3 1	19 2	80	21 :	2 2	3 ;	4 25	2	6	27	28	29	30	+31
1500 500 0 0 0 0 0 0 0 0 0 0 0 0	n (in Days					3	7	8		10																						
1500 800 0 0 0 0 0 0 0 0 0 0 0 0	n (in Days) 1	2	3	-	5	6	8 8 7 30	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22 2	3 2	4 25	26	27	28	3 25)	30 +31	1
1500 100 1000 1	n (in Days o 214) 1 98	2 52	3 52	42	32	6 30	8 8 7 30	8 26	9 25	10 14	11 18	12 15	13 13	14 14	15 11	16 15	17 8	18 12	19 13	20 14			3 2 5	4 25 8 11	26	6 2 7			8	30 +31 10	293
1500 100 1000 1	0 214 869) 1 98 7	2 52 4	3 52 2	-	32 1	0	0	8	9 25 4	10 14 2	11 18 4	12 15 0	13 13 3	14 14 4	15 11 0	16 15 0	17 8 1	18 12 12	19 13 2	20 14 0	21 15 1	22 2 7 1	3 2 5 3	4 25 8 11 0 0	26 1	27 6 0	2 28 15 1	9 29 1	8	30 +31 10 :	293 30
1500 100 1000 1	n (in Days o 214) 1 98	2 52	3 52	42	32			8 26 0	9 25	10 14	11 18	12 15	13 13	14 14	15 11	16 15 0	17 8	18 12	19 13	20 14	21 15	22 2 7	3 2 5 3	4 25 8 11	26 1 2 5	27 6 0	28	9	8	30 +31 10 : 0 :	293

3.10.3. Process Analysis - Process Activity

Phase 7: BAM > Process analysis

In this report, the activity carried out by the processes is displayed, showing the values of cases initiated by periods, how many were completed, how many remain in execution, and the cases suspended and canceled.

If the information on process activity for the last months is analyzed, it should be observed that as months go by, the cases in execution tend to increase, and the cases already completed tend to decrease. In other words, during the first months, a greater number of completed cases should be observed, while during the last months, there are more cases in execution. Any anomaly, that is to say that the chart shows a different trend, can be investigated by drilling down on the values.



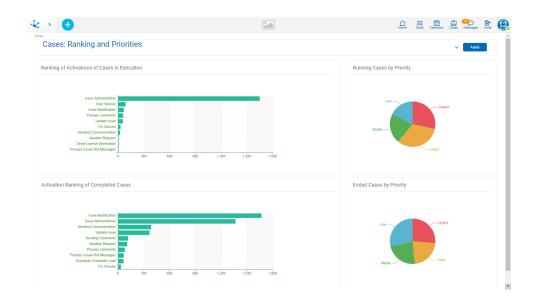


3.10.4. Process Analysis - Activation Ranking

Phase 7: BAM > Process analysis

This report shows a ranking of processes, through the number of cases initiated for each one, also considering their execution priority.

The information can be displayed by applying the search filters shown in the upper section of the report.



3.10.5. Process Analysis - Case Details

Phase 7: BAM > Process analysis

In this report, cases with their actual, maximum and expected duration can be displayed, together with comparisons of duration with maximum duration and duration with expected duration.



Case detail					Apply
Process	Home		Complet	ion	
× License Request					
Duration	Initiator		Owner		
· · · ·		•			•
Situation	Priority		Expiratio	n Date	
~		~			
Status					
~					
Case			Desviation Duration	Expected Duration	Desviation Duration
uase 	in Days in Day	s	vs Maximum Duration	in Days	vs Expected Duration
Day License Application - Status:	630,49	2,00	31425 %	1,00	62949 %
JULIO MECA 2-day License Application - Status: AUTHORIZED	25,49	2,00	1174 %	1,00	2449 %
2-day JPAZ License Application - Status: AUTHORIZED	2,04	2,00	2 %	1,00	104 %
2-day 3FAZ LICENSE Application - Status, A01HORIZED					Previous Next
2-day 3FAZ License Application - otatus, Ao i HonizEb					

3.10.6. Activity Analysis - Activity Behavior

Phase 7: Activity BAM - Activity analysis

In this report, the behavior of a process completed activities can be analyzed (including or not all its versions). The amount of activities on time and behind schedule is detailed for each of them. Additionally, the average duration, the maximum duration and the deviation between both of them is mentioned.

The information can be displayed by applying the search filters shown in the upper section of the report.

Ended Activit	ies: Behavio	r					A Apply
							А Афру
Process	lle Load	н	ome			Completion	
	lie Load		1.1. 8.4			Finalización Act.	
Situation	*	In	icio Act.			Finalizacion Act.	
Delecter	*					Ant. Destiniount	
Priority	*	R	esponsible		•	Act. Participant	•
	*						•
Defenden Ant							
Priority Act.							
Priority Act.	~						
Priority Act.	~						
Priority Act.	v On Time	No Duration Maximum	With Delay	Total	Durat. Average in Days	Durat. Maximum in Days	Duration Deviation vs Durat. Maximum
		Maximum					vs Durat. Maximum
Activity	On Time	Maximum 61	5 0	66	in Days	in Days	vs Durat. Maximum
Activity Enter schedule file	On Time	Maximum 61 0 61	5 0	66	in Days	in Days O	vs Durat. Maximum 0 % 0 %
Activity Enter schedule file View Results	On Time	Maximum 0 61 0 61 0 61	5 0 5 0 5 0	66	in Days 0 0,24	in Days 0	vs Durat. Maximum 0 % 0 % 0 %

3.10.7. Process BAM - Load Analysis





Ŧ

In this report, the current workload can be analyzed, considering the distribution of cases by process. For each process, it also shows how many cases are on time, how many at risk and how many are behind schedule.

The information can be displayed by applying the search filters shown in the upper section of the report.

*	>		Ð																Home	⊟¥ Tasks	Calendars	Cases	Messages	8+ Invite	8
Hom	Run	nin	g C	ase	es: L	oad	d Ar	naly	sis													^	Apply	7	Î
	Pric							•				itiator					•	Owner				•			
-	By Situ 100 - 80 - 60 - 40 - 20 -	Jatio	n		On Tim	e 📖	Sin Du	ración I	đáxima		En Ries	igo 📕	With	Delay		1		By Process	Issu		nistration				
	0-	User Service	Tickets	Timers	Ernail Sender	Deyel License Generation	Issue Administration	Process Issues Bot Messages	Fix Closure	Update Issue	Sending Comments	Process comments	Issue Modification	License Request	Vacation Request	Absence Communication	Suggestions and Queries			165	50				*

3.10.8. Process BAM - Work in Progress

Phase 7 > Process monitoring

This report shows the status of the cases that are in execution, together with their distribution according to their expected due date in periods of time.

Regarding the status of the cases, it is graphically displayed how many are on time, how many at risk and how many are behind schedule.

Regarding the distribution of cases according to due date, the chart indicates how many are scheduled to expire in the time period indicated, and it may or may not count those that are behind schedule. If those behind schedule are counted, they are shown in the first period considered in the chart.



Expiration Day												
Situation	02	03	04	05	06	09	10	11	12	23	24	Total
On Time	0	0	0	0	9	10	11	14	4	10	3	61
At Risk	0	0	27	9	0	0	0	0	0	0	0	36
With Delay	3	21	0	0	0	0	0	0	0	0	0	24
Total	3	21	27	9	9	10	11	14	4	10	3	121
Situation and Priority	ý			Expiration	Day							
			3									

3.10.9. Activity BAM - Load Analysis

Phase 7 > Activity monitoring

In this report, the behavior of activities in progress of a process can be analyzed (including or not all its versions). The amount on time, at risk and behind schedule is detailed for each activity.

	Home		Priority			
▼ Vacation Request.v2 ▼					~	
Situation	Start Act.		Responsible			
~						
Participant Act.	Priority Act.					
•			~			
Activity		On Time	No Maximum Duration	At Risk	With Delay	Total
Approve request		0	3	0	0	3
Review Request		0	2	0	0	2
Complete the application		0	2	0	0	2
Communicate to the administration that it should interven	10	0	1	0	0	1
			1	0	0	1
Authorized request		0				



3.10.10. Activity BAM - Work in progress

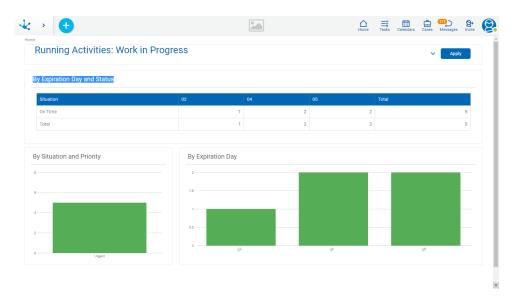
Phase 7 > Activity monitoring

This report shows the status of the activities that are in execution, together with their distribution according to their expected due date in periods of time.

Regarding the status of the activities, it is graphically displayed how many are on time, how many at risk and how many are behind schedule.

Regarding the distribution of activities according to due date, the chart indicates how many are scheduled to expire in the time period indicated, and it may or may not count those that are behind schedule. If those behind schedule are counted, they are shown in the first period considered in the chart.

The information can be displayed by applying the search filters shown in the upper section of the report.



3.11. Configuration

Phase 8: Configuration

Configuration of **Deyel** is realized through the different menu options which are displayed by pressing "Configuration".

Organization

Allows to manage the organizational structure, defining the hierarchical relations between the different areas.

Security

Allows to define and administer the security scheme of **Deyel** through users, job positions, roles, agents, permissions and security functions.

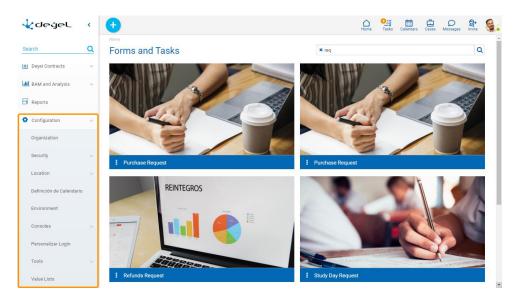


Environment

Allows to define the preference settings for the use of **Deyel** through properties, that adapt the product operation to the specific requirements of the company.

List of Values

Allows to visualize the names on the lists of values of different applications and manage its values.



3.11.1. Organization

Phase 8: Configuration > Organization

The organizational structure of Deyel defines the areas or the offices from the company and the relation of hierarchy between them.

Such areas or offices correspond to the organizational units that can be defined such as owner, initiator and participant when <u>modeling a process</u>.

When defining the <u>users</u> the organizational unit in which each one belongs must be indicated.



\checkmark \rightarrow \bigcirc		Home Tasks Calendar	rs Cases Messages Invite
Home > Unidades Organizacionales		TRUTTE TASKS Caterinal	
Descriptive Name * Logistics	Name * Logistics	Code * 0000000123	
Administrator Jack Perry	Superior Organizational Unit Demo Company Departments		
Description	Email		
	Work Calendar Calendario Estándar		
Private Data Access - Permissions for the Unit Administrator	Private Data Access - Permissions Unit Users		
Show Update Delete	Show Update Update		
			Delete Update

An asterisk "*" on the label indicates that the property is required.

Properties

Descriptive Name

Complete name of the organizational unit. This text is the one visualized in the organizational structure and as a grid column.

Name

It is an abbreviated or reduced name. It is used when referring to the unit in an error message or when there is the need to abbreviate the descriptive name. No blank spaces admitted. This name must be unique.

Code

Identification code of the organizational unit. This property is visible if the environment property <u>Or-ganizational unit coding type</u> takes values "Manual" or "Semi Automatic", while it is not visible if the value is "Automatic".

Administrator

Optionally an user that performs as coordinator or head of the unit can be indicated.

Superior Organizational Unit

Allows to identify the superior organizational unit inside the hierarchical structure.

Description

Property where the use of the organizational unit can be detailed so as to extend what is expressed in the Descriptive Name.

Email

Email associated to the organizational unit.

Work Calendar



Allows to select the work calendar associated to the organizational unit. If a calendar is not defined for the organizational unit, **Deyel** uses the one of the closest higher-level unit with a defined calendar. The root unit of all the hierarchy has defined a calendar by default.

In the query of an organizational unit, when hovering over this property, a legend is displayed informing if the calendar is defined in the unit or in one of its superior units, or if it uses the default calendar.

Private Data Access - Permissions for the Unit Administrator

For the unit administrator, the access permits to the private data of their work teams are established. Show

Can the unit administrator see the private data of their subordinates? (Yes/No) Modify

Can the unit administrator modify the private data of their subordinates? (Yes/No) Delete

Can the unit administrator delete the private data of their subordinates? (Yes/No)

Private Data Access - Permissions Unit Users

For a user that is part of the unit which establishes the access permits to private data of their colleagues.

Show

Can a unit user see the private data of their colleagues? (Yes/No) Modify

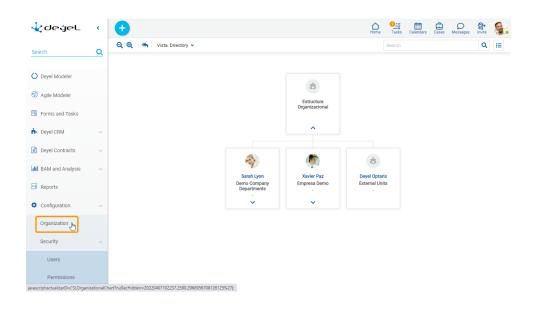
Can a unit user modify the private data of their colleagues? (Yes/No) Delete

Can a unit user delete the private data of their colleagues? (Yes/No)

3.11.1.1. Organizational Structure

The Deyel menu can be accessed, to create and administer the organizational units.

- From the "Configuration" option, selecting "Organization".
- From the search facility.





Sections

- <u>Top Bar</u>
- <u>Grid</u>

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		盎								
		Estructura Organizacional								
		^								
	Rep .	()	恣							
	Sarah Lyon	Xavier Paz	Deyel Optaris							
	Demo Company Departments	Empresa Demo	External Units							
	· ·	~								

3.11.1.1.1 Top Bar

From the top bar different options related to the content and presentation of the organization chart can be selected.

Zoom Out

Decreases the display size of the diagram.

🔍 Zoom In

Increases the display zoom of the diagram.

Return to Initial State

The selected view is returned to the initial display, the search is cleared and the expanded units are closed.



🎽 View

A panel to select the view is displayed.

View: Directory 💙	
Directory	
Structure	
Search	Q Fast Search
	Fast Search

When entering a text in the bar and pressing the icon **Q** or "enter" key, all the organizational units that contain in the Descriptive Name the entered text, are displayed in the list.

The chosen unit is highlighted with a blue border and with its dependent units expanded.

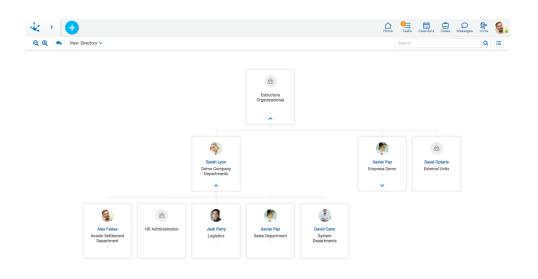
E Change to Grid Mode

Allows to change the display to grid mode.

3.11.1.1.2. Organization Chart

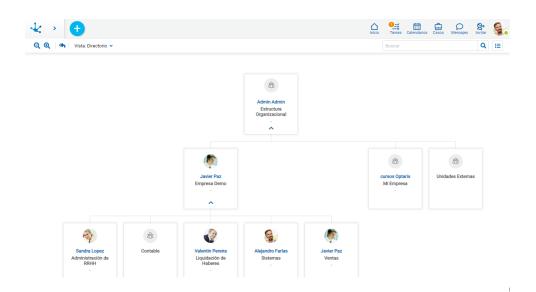
The organizational units are displayed hierarchically. In the superior panel the "Structure" and "Directory" view types can be selected. The location within the structure depends on the definitions made in the <u>Superior Organizational Unit</u> property of each unit.

In the "Structure" view, each unit is identified by its **Descriptive Name**.





In the "Directory" view, the name and surname of the administrator of each unit, with their profile image, are also included.



Allows to display the superior level of the structure, when an element is selected as a search result.

- Allows to display the direct dependent units.
- Allows to hide the direct dependent units.

Allows to access the detailed query of the organizational unit properties.

The organizational chart image can be enlarged or reduced using the mouse wheel. The organizational chart can be moved by clicking and dragging it.

3.11.1.2. Grid

The grid of organizational units allows to visualize them with standard presentation of <u>results grids</u>, with facilities of:

- Sorting
- Search Bar and Filters
- Download Data
- Operations

The icon allows to change the display to grid mode.



rch C	Organizational Units 13	1 1		Search Q T
Deyel Modeler	Descriptive Name	Name	Administrator	Superior Organizational Unit
Agile Modeler	Logistics	Logistics	Jack Perry	Demo Company Departments
Forms and Tasks	HR Administration	HRAdministration		Demo Company Departments
Deyel CRM	Assets Settlement Department	AssetsSettlementDepartment	Alex Farias	Demo Company Departments
Deyel Contracts	System Departments	SystemDepartments	David Cano	Demo Company Departments 🛛 🥑 🍵 🕻
BAM and Analysis	Sales Department	SalesDepartment	Xavier Paz	Demo Company Departments
Reports	Demo Company Departments	DemoCompany	Sarah Lyon	Estructura Organizacional
Configuration	System	System	Alex Farias	Empresa Demo
-	Liquidation of Assets	LiquidationofAssets	Valentine Pearson	Empresa Demo
Organization	Administración de RRHH	AdministracionDeRrhh	Sarah Lyon	Empresa Demo
Security	Sales	Sales	Xavier Paz	Empresa Demo
Users	External Units	ExternalUnits	Deyel Optaris	Estructura Organizacional
Permissions	Empresa Demo	EmpresaDemo	Xavier Paz	Estructura Organizacional

The following properties of the organizational units are visualized as grid columns:

- Descriptive Name
- Name
- Administrator
- Superior Organizational Unit

Filters can be applied by the following properties:

- Descriptive Name
- Name
- Administrator
- Superior Organizational Unit

It is possible to make operations on each grid row of the organizational units. By clicking on the row a query of the selected unit can be made and through the icons \checkmark and \square it can be modified or deleted respectively.

3.11.1.3. Operations

Both from the organizational chart and from the grid operations can be done on each organizational unit.

Hovering the cursor over each element of the <u>organization chart</u> displays the icon that allows to show the properties of the selected unit. While hovering it over each of the lines of the grid icons corresponding to the operations available for each unit are displayed.

Create

The operation "Create" can be done from the <u>context menu</u> in different ways.



- Hover over the icon $\stackrel{\bullet}{=}$ and select the icon on its right $\stackrel{\boxdot}{=}$, corresponding to the option "Organizational Units".
- Click on the icon 🙂 and select the option "Organizational Units" on the vertical panel displayed.

Opens properties panel of the new organizational unit with all the properties as editable. The creation is done by pressing any of the buttons available and the user receives a message indicating that data have been saved.

Code

Depends on property configuration <u>Organizational unit coding type</u>, if the value is "Manual" the code is mandatory, if it is "Semi Automatic" the code is optional and if it is "Automatic" the code is not visible.

Buttons

- Accept: Confirms the creation of a new organizational unit.
- Accept and Create: Confirms the creation of an organizational unit and opens a new panel to create another one.

Show

Opens the properties panel of the selected organizational unit, where properties are not editable. Depending on the <u>security permissions</u> of the user, buttons available to operate with that organizational unit are enabled.

Buttons

- Update
- Delete

Update

Opens properties panel of the selected organizational unit, with those properties that can be modified as editable. The update is done by pressing the button "Accept" and the user receives a message indicating that data have been saved.

Administrator

When the unit has an administrator defined and the unit has been modeled as owner or participant in a process that is in use, this property can be modified entering a new administrator but cannot be defined with no value.

Delete



Opens the properties panel of the selected organizational unit, where properties are not editable. The deletion is done by pressing the button "Accept" and the user receives a message indicating that data have been deleted.

There should be no user belonging to the unit. The unit should not be actor in any role. The unit should not be owner nor participant in any process that is in states "Published" or "Modified".

3.11.2. Security



Phase 8: Configuration > Security

Deyel uses a security scheme based on in two concepts:

- Authentication of the users, that allows to control who uses the product.
- <u>Authorization</u> for the specific functions that each user can use.

3.11.2.1. Authentication

Deyel keeps a register of all the users that are enabled to use the product, collecting their identifying data (user code, alias, email address) their personal and labor data, their state, etc.

The procedure of authentication ensures that all use of **Deyel** and its solutions are made by "someone" or "something" that can be identified as a user, inside the user register.

Also, to ensure that "someone" or "something" is who they say they are, their user or alias and their password must be informed.

Deyel uses different authentication methods but in each context only one of them should be used.

The mechanism of authentication to be used is defined in the <u>configuration</u> of the **Deyel** execution environment.

Native Authentication

This is the predetermined method of authentication. **Deyel** verifies that the user exists in its register and verifies the password, which is stored encrypted in its database.

LDAP Authentication

When an organization uses directory services to register its users, **Deyel** can be configured to delegate in LDAP the authentication process.



Federated Authentication IDM

Deyel implements this type of authentication by integrating with an external Identity Manager and delegating user authentication to it.

Federated Authentication

Deyel implements this type of authentication integrating with Google. When an organization uses Google accounts for their users, the authentication process can be delegated to Google.

Custom Authentication

This kind of authentication delegates on an <u>advanced rule</u> the users authentication.

Mixed Authentication

Allows an organization to use simultaneously different types of authentication.

Azure AD Authentication

Deyel implements this type of authentication integrating with Microsoft Azure Active Directory. When an organization uses Microsoft accounts for their users, the authentication process can be delegated to Azure Active Directory.

3.11.2.1.1. Native Authentication

This is the predetermined mechanism of authentication.



The user enters the user code or alias and the password on the user portal access page.



de je	
Login Welcome to Deyel User Password Forgot your password? Sign In	

Deyel verifies that a user exists in its register, with the user code or alias informed and verifies the password. Access keys persist in **Deyel** database encrypted with SHA3.

If the user or the password are incorrect, the access to the product is denied.

3.11.2.1.2. LDAP Authentication

When an organization uses directory services to register its users, **Deyel** can be configured to delegate the authentication process to LDAP.



The user enters the user code or alias and the password on the user portal access page.



Login Welcome to Deyel User Password Forgot your password? Sign In	

Deyel verifies that a user exists in its register, with the user code or alias entered and delegates the authentication to LDAP. If the user is registered in **Deyel** and LDAP reports a correct authentication, then the access is allowed.

IMPORTANT

Before activating LDAP authentication it must be ensured that a registered user exists in Deyel and can authenticate correctly in LDAP.

If none of the users meet these conditions, it is not possible to enter the portal.

Deyel verifies that the administator that is configurating the environment can authenticate correctly in LDAP.

When LDAP is used as one of the Mixed authentication methods, this last verification is not done.

When Deyel can not establish communication with LPAD server, an administrator is allowed to enter the portal by using Native authentication.

In these cases, the user does not have all administration options available, but can only access to the environment configuration, to reconfigure the mechanism of authentication.

With this mechanism of authentication the option "Forgot your Password" is not available. If the user does not remember their password, they must observe the procedures that the organization determines to solve the problem.

In the configuration of the execution environment of **Deyel**, different aspects of the <u>integration with</u> <u>LDAP</u> can be configured.

LDAP - Server Connection

Configuration of access to LDAP server. All properties are required to activate LDAP authentication.



LDAP - User Search

Configuration of users search in LDAP Directory. Establishes the search subtree, LDAP attributes which are considered search keys and additional user selection filters.

LDAP - Attribute Synchronization

Configuration of **Deyel** user properties that are synchronized with LDAP attributes

Attribute Synchronization

Deyel allows certain properties of the users can be recovered from attributes of LDAP directory, avoiding that these properties can be modified in **Deyel**.

When **Deyel** connects correctly and determines that the user exists in LDAP, it is marked as a "Synchronyzed User". This indicates that some of their attributes have been obtained from LDAP and can not be modified in **Deyel**. In the same way, **Deyel** automatically removes the "Synchronized User" mark when it determines that the user does not exist in LDAP. This way its attributes can be modified in **Deyel**.

There are different moments in which these attributes synchronization is done.

Login

When the user authenticates correctly against LDAP, attributes are synchronized. If **Deyel** detects an error that does not enable to do this synchronization, a register of this is left in the logs console and log in to the portal is not allowed.

User Creation

When a user is created, by informing the user code or the alias, the existence in LDAP is verified. If the user exists in LDAP, attributes are obtained and remain protected. They can not be modified in **Deyel**. If the values recovered from LDAP are incorrect or the user does not exist in LDAP, creating the user in **Deyel** is not allowed.

User Modification

When a user is modified, **Deyel** syncs again the attributes before showing the information on the screen. If **Deyel** detects an error that does not enable to do this synchronization, a register of this is left in the logs console and the synchronization is not done. Then, there is access to the user information, but the synchronized properties can not be modified from **Deyel**.

Query and Deletion of Users

When these operations are executed, an attributes synchronization is also done before showing the user information on the screen. If **Deyel** detects an error that does not enable to do this synchronization, a register of this is left in the logs console and the synchronization is not done.



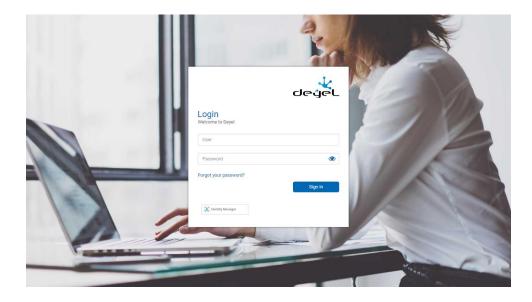
3.11.2.1.3. Federated Authentication IDM

An organization can use the services of an Identity Manager to do the authentication of its users. This way a single access mechanism is granted to the applications, preventing users from having to remember multiple access credentials.

Within **Deyel** use of this type of authentication can be made.



The access page to the user portal presents a button that allows to redirect users to the login configured in the IDMAuthorizationCode adapter to enter their credentials.



Pressing the "Identity Manager" button takes the user to the login panel where they enter their credentials.

When the user logs in, the Identity Manager informs **Deyel** that the user has been successfully authenticated and it gives back a token needed for the subsequent execution of a business rule that is configured in the mentioned adapter.

Deyel invokes such business rule to which the previously obtained token is passed as a parameter. Then, **Deyel** verifies that a user exists in their register, whose user name or alias coincides with the one obtained through the rule.



Only when the user is successfully authenticated and is registered in **Deyel** the product is allowed to be used.

3.11.2.1.4. Federated Authentication

An organization can use the services of an identity provider (IDP) to do the authentication of its users. In this way it grants a single access mechanism to the applications, avoiding users having to remember multiple login credentials.

Deyel implements this type of authentication integrating with Google. When an organization uses Google accounts for its users, the authentication process can be delegated to Google.



In the access page to the user portal there is a button that allows to redirect users to Google login in order to enter their credentials.

When users enter their account, Google informs **Deyel** that they have been successfully authenticated and the access code is never informed to **Deyel**.

Deyel only verifies that a user exists in its register, whose email account is the Google account entered. Users can use the product only when they are correctly authenticated to Google and they are defined in **Deyel**.





By pressing the button "Enter with Google" the users go to the login panel where they enter their credentials.

	S	Sign in			
	to contin	ue to deyel.	com		
Em	ail or phone				
Forgo	t email?				
Creat	e account			Next	

When users enter their account, Google informs **Deyel** that they have been successfully authenticated. **Deyel** verifies that the users are defined and their emails are the Google accounts they entered.

3.11.2.1.5. Custom Authentication

This kind of authentication uses an advanced rule to authenticate users.



The user informs their user code or their alias and password, in the access page to the user portal. **Deyel** invokes this advanced rule, passing the data entered by the user. The advanced rule implements the authentication logic and returns if it is correct or not.

When **Deyel** receives that the authentication is correct, it is verified that the user exists in **Deyel** and allows entry.Passwords do not persist in **Deyel**.

3.11.2.1.6. Mixed Authentication

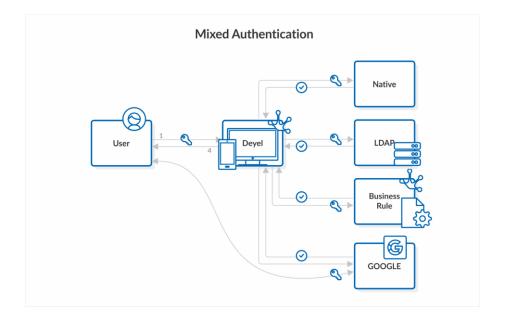
The mixed authentication allows to combine multiple schemes of authentication, in a predetermined order.



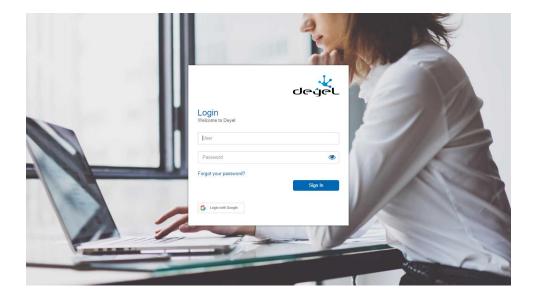
Let's consider for example an organization that delegates in LDAP the authentication of its internal users, but needs to use additionally the native authentication and the federated authentication (Goo-gle), to authenticate other groups of external users, which are not registered in the directory services.

This situation is solved by using the mixed authentication, indicating in the environment configuration which are the <u>supported authentication methods</u> and in what order should they be applied:

- First Method of Mixed Authentication = LDAP
- Second Method of Mixed Authentication = Native
- Third Method of Mixed Authentication = Google



The access page to the portal allows to use the different alternatives.





If the user presses the button "Enter with Google", they are redirected to the Google login. The user can use the product only when they are correctly authenticated in Google and registered in **Deyel**.

If the user informs their user code or their alias and password, then **Deyel** tries to authenticate them first in LDAP and then by Native authentication.

When a mechanism authenticates correctly, **Deyel** allows the login of the user if it exists.

If a mechanism fails, it continues with the next one and if every configurated mechanism fails, the user receives an authentication error and the product can not be used.

3.11.2.1.7. Autenticación Azure AD

An organization can use the services of an Identity Manager to do the authentication of its users. This way a single access mechanism is granted to the applications, preventing users from having to remember multiple access credentials.

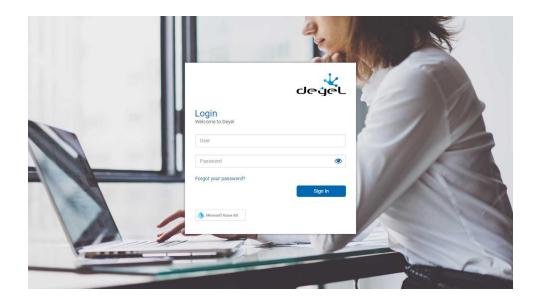
Deyel implements this type of authentication integrating with Microsoft. When an organization uses these type of accounts for their users, the authentication process can be delegated to Microsoft Azure AD.



When users login, Microsoft informs **Deyel** that the user has been successfully authenticated and the access key is never informed to **Deyel**.

Deyel only verifies that a user exists in its register, whose email account is the Microsoft entered account. Users can use the product only when they are correctly authenticated in Microsoft and registered in **Deyel**.





Pressing the "Microsoft Azure AD" button opens the login panel where users enter their credentials.

Microsoft Sign in Email, phone, or Skype No account? Create onel Sign in with a security key ③	
🔍 Sign-in options	
	Terms of use Privacy & cookies ····

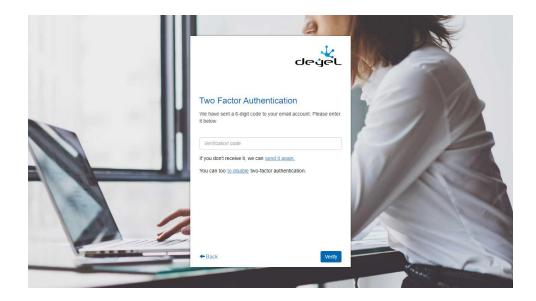
3.11.2.1.8. Multiple Factor Authentication

For the Native and Custom authentication methods, it is possible to use a second authentication factor called 2FA, based on the input of TOTP keys (Time-based One-Time Password algorithm).

When the user successfully authenticates with his username and password, he manages to pass the first authentication factor. Immediately, if that user has activated the double authentication factor, they must overcome it by entering one of these TOTP keys.

The Administrator from **Deyel** can enable or disable the use of the environment variable <u>2FA</u> in the installation and each user can configure how to use <u>such variable</u> to access the portal.





When the user configures:

- using Google authenticator can enter the verification code that the authenticator generates. It is shown as the first alternative to avoid sending emails to the user.
- after the verification codes are sent to your institutional mailbox, they receive a new code in it.
- an alternative account to receive the verification codes, receive a code to the account recovery email.
- that wants to use the recovery code and the code entered is correct, the 2FA is validated and access is allowed.

By pressing the "disable" option to deactivate two-step verification, the user is asked to confirm the operation. Once confirmed, the following message is received:





And the administrator receives a request to disable the use of 2FA for that user, which is done by accessing the user's profile and modifying its configuration. These are manual user management procedures that can take time, so the applicant is prompted to try to identify themselves later.

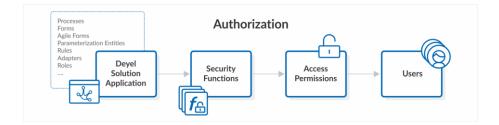
3.11.2.2. Authorization

The concept of authorization implies to verify which specific <u>security functions</u> each user can execute, preventing unauthorized actions to be carried out.

In the users profile they have predefined the <u>access permissions</u> and a user can only execute a security function, only if it is contained within their access permissions.

Modelers use **Deyel** to develop the applications the organizations needs and each application is modeled as a set of processes, business entities based on forms, rules, adapters, and roles, among other objects related to each other, with the objective of solving a determined requirement.

The design methodologies focused on the user contemplate the definition of the characters, to represent user groups that use the application similarly. Modelers can identify the characters in each application and determine which security functions they need to use. From this the access permissions assigned to the users are defined.



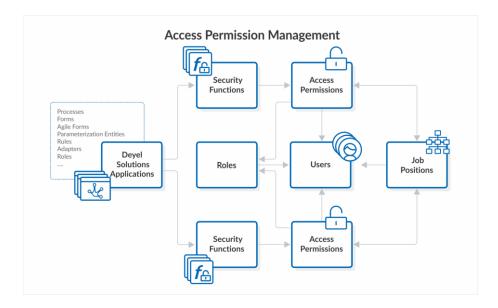
Access Permissions Management

Access permissions of each user need to adjust dynamically. The appearance of new applications, new features or changes on the user work assignments, imply that the access permissions that the user has assigned must be redefined.

The security administrator can add or remove access permissions to each of the users individually.

In organizations with great number of users or applications, this task can be complex. The concepts of roles and job positions allow to simplify it, assigning permissions to multiple users and not individually.





Predefined Access Permissions

Deyel and its solutions have a set of <u>predefined access permissions</u>, designed so that the different characters can use the feature they require.

For example, **Deyel** has access permissions defined for end users, for business modelers, for IT modelers and for security administrators, among others. In the same way, **CRM** has access permissions designed for sellers and sales managers.

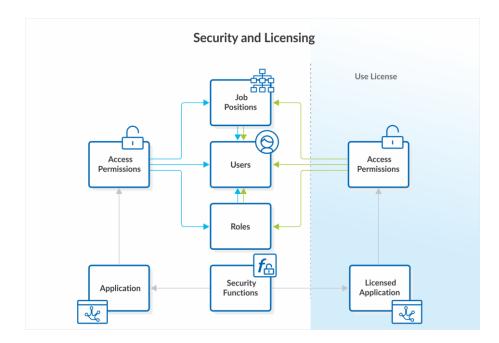
Predefined access permissions cannot be modified, in case of needing it a copy of them can be made.

3.11.2.3. Security and Licensing

Phase 8: Configuration > Licensing

The licensing scheme uses different concepts and affects the operation of the security scheme.





Licensed Application

A licensed application is the one that requires a use license to be used.

Use License

A use license is generated by the manufacturer and distributed in an XML file digitally signed. Each **Deyel** environment must import the corresponding use license.

A use license determines:

- The name of the company for whom the license is defined.
- Its identification.
- The platform or modality (Cloud, On Premise).
- The license type (Subscription, Perpetual, MyWay).
- The environment (Development, Test, Production, Trial).
- The validity period, with its issuance and renewal dates.
- The licensed applications can be used in the environment and for each one, the number of user licenses available.

User License

Each of the licensed applications defines different types of user licenses. The use license defines for each licensed application, the maximum quantity of user licenses of each type, that can be assigned in the environment.

In the case of **Deyel** the user license types are the following:

• Participant



A participant user uses **Deyel** to participate in the defined processes, as well as using forms, calendars, chats, etc. either initiating a case or performing some subsequent activity inside that same case.

• Agile Modeler

An agile modeler is a business user that uses **Deyel** platform to define their web forms from predefined templates or doing its complete design. They can adequate them to the business needs, by adding a process or defining access permissions and its visibility, to finally publish them for its use.

• Deyel Modeler

A Deyel modeler is an IT user that uses **Deyel** platform to design and build their object models for the development of applications of low code. Uses tools of graphic processes modeling and forms to build, document and implement the process and business entities of the organization. This type of modeler also defines the roles and agents, and can implement more complex business logic using assistants that allows them to incorporate Java components.

They can implement the integration with other applications or basis of external data, behavior or more complex validations in the forms, using the advanced edition of the scripting. Uses tools to export and import their models and information of the environment.

In the case of solutions as CRM, Stock Management or Contracts, the user license types are the following:

- Participant A participant user can use the solution according to the access permissions they have assigned.
- Administrator An administrator of the solution is a user that uses **Deyel** platform to extend the solution.

Example:

- Enable the use of **Deyel**, considering up to 100 users of participant type, up to 50 of agile modeler type and up to 10 of Deyel modelers type.
- Enable the CRM use considering up to 100 participant users.

Access Permissions - Required User License

The access permissions of a licensed application establish what type of user license is required. In the case of **Deyel** there exist predefined permissions that require a license of Deyel modeler type, others require a license of an agile modeler and others only require a license of participant type.

Assignment of User Licenses and Access Permissions

On the profile of each user, it is indicated:

- The licensed applications that can be used and the type of user license that they are assigned to use them.
- The assigned access permissions.

When access permissions of a licensed application are assigned, it is controlled that:



- The licensed application can be used by the user.
- The type of user license is compatible with the required one by the access permission.

To authorize the execution of a security function, it is verified if it is in any of the access permissions assigned to the user.

The corresponding permissions to a licensed application, are ignored when:

- The use license does not enable the use of such licensed application.
- The use license does not enable the user license type required by the security permission.
- The user does not have the user license type required by the security permission.

MyWay Use License

All **Deyel** solutions have a licensing modality that allows them to be fully customized. Installing a "MyWay" type of license allows to transform the solutions available in the environment into nonlicensed applications, so they can be modified as any other own application.

The solutions with use license from this type cannot be automatically updated when the version of **Deyel** is updated, but the adaptations made in the environment are strictly respected.

When a "MyWay" type of license is installed:

- All the solutions that the environment has licensed adopt the "MyWay" modality.
- Any user that has the "Global.Modeler" permission can model objects of the environment solutions to adapt them freely.
- Once this license type has been installed, the environment must remain in this licensing modality.

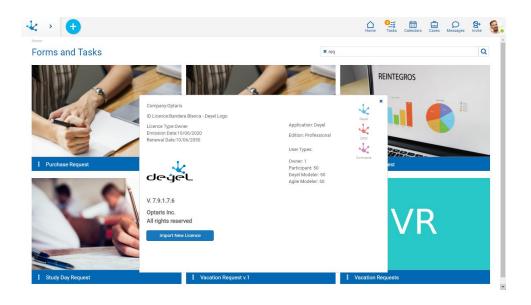
3.11.2.3.1. Showing Use License

The information contained in the current use license can be shown from the functionality "<u>About</u>" on the top toolbar of the users portal.

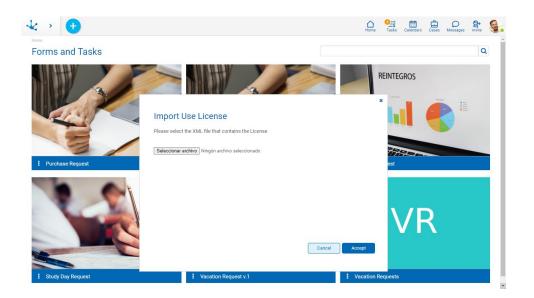
About Deyel

When opening this panel the information about the use license can be seen.





When the user has access permission "Administrator", they can import a new use license. Date and time when the user imported the current license are informed under the button "Import". When pressing this button, a window which allows to upgrade the use license of the environment is displayed.



The XML file that contains the use license must be selected before pressing the button "Accept".

Deyel verifies the digital signature of the XML file to ensure its integrity and verifies that the new license has been generated in the environment and that it has the correct validity.

After importing the use license, a button that allows to restore the previous license is temporarily enabled. This option allows to restore situations where the use license was improperly imported.

3.11.2.3.2. Licensing Controls

Deyel controls the environment licensing and sends out alerts when users enter it.



Non-existent License

If the use license is not detected, a panel is opened to initially load the license.

Invalid License

The use license exists but the validity of the digital signature is not verified, then the license is invalid and the user is notified when entering the portal.

User Level Licensing

It is verified that the connected user has user licenses granted and are compatible with the use license. If the user has not user licenses assigned, they receive a message informing them of the situation.

Number of Licensed Users

For every licensed application it is controlled that the number of user licenses assigned do not exceed what is defined in the use license. This control is performed for each type of user license.

Expired Licenses

The use license has a specified renewal date. It is considered that the license expires the day after such date.

3.11.2.4. Users

Every person using **Deyel** or any of its applications based on this platform are called users. As such, they have a code that uniquely identifies them, an access key which allows them to authenticate and initiate the work session and a user profile, that collects their personal information, working information, their preferences, additional data, etc.

There is a type of user that does not represent a person, called "Smart Thing". It is about devices, virtual or physical, that have the capacity of communicating with other devices, reacting to events and executing specific functions. Smart things can participate of the business processes, as initiators of such or as responsible users of executing activities, so as to optimize the execution of such processes. For example, the execution of daily tasks or calculus tasks can be delegated to them.

Smart Thing

Chatbots

Among the "Smart Thing" type user there exists a specific type that is the chatbot.



A chatbot can communicate with other users using Tedis, interpreting specific messages. Each chatbot can define a process to model the way in which it responds to each of the messages received. The response can be simple, for example responding with a predefined phrase, or it can be more complex and shoot the execution of a business process.

Chatbots are defined to interact with users through the messages, delegating this way the execution of tasks. Human users can use the chatbots as their assistants, so that they automate the actions the user wants and reply to their messages.

Rest API Client

Other "Smart Thing" type user is the Rest API Client.

A Rest API client is used so that the external applications can be integrated with a **Deyel** environment. To consume the resources exposed in <u>Deyel Rest API</u> it is necessary to send the credentials of such user to do the authentication and generation of the corresponding access token.

Properties

For each user a profile is kept with the following information:

- User Identification
- Labor Data
- Districts and Absences
- <u>Security</u>
- Personal Information
- <u>Configuration</u> For "Smart Thing" type users, this group of properties must be defined.
- Invitations



Users Alex Farías					🖁 Users 🚔 Invitat	ions 🔎 ? 🔇
	Most usual activities Refinit Repet	Worked	davs	Current Year V My Tasks Worked days Consolitated Weekly Reinburstements Reind of reported Reind of reported Reind of reported Reind with possible Reind Request Without reducity	100% 100% 100%	
lame*	Sumame *	Email 💩 *	User*	Alia	5	
Alex	Farías	AFARIAS.FA@GMAIL.COM	AFARIAS	AF	ARIAS.FA@GMAIL.COM	
Cabor Data		Authorizer Type your search	<	Calendar Type your search		<
 Job Position 			Assistants			
Job Position			Assistant			
Type your search		< 🛇 🕲				* 0 8
	ences					

An asterisk*on the label indicates that the property is required.

User Identification

Profile Image

Each user can upload to their profile an image from a file. In case of not informing it, an image with the user's initials is automatically generated.

User

Code that uniquely identifies the user.

Alias

The value entered in this property works as an alternative code for the user. For example, email address can be used or any other coding that uniquely identifies the user. **Deyel** checks that there are not two users with the same alias.

When entering the portal, the user can enter either his code or his alias to authenticate.

Behavior Indicators

Information about usual tasks, days worked and the last tasks of the user are displayed in a chart.

- With the indicator "Most usual activities" a ranking of the most executed activities is displayed.
- With the indicator "Worked days", it is seen how was their workplace attendance. When clicking on this indicator, the profile form is displayed so that absences and licenses with their type and period covered are expanded.
- With "My tasks" a summary of the assigned tasks is displayed, together with their state regarding their due date. By clicking on these tasks, the grid of the task with its cases can be displayed.

Cover Image

It can be personalized selecting an image to use as background from the icon **E**.

Name - Surname

These properties may not be informed for smart things.

Email



The value entered in this field works as an alternative code for the user. **Deyel** checks that there are not two users with the same email.

If a user shows their profile the icon is displayed to the right of the Email property. By pressing it a field is enabled that allows the entry of the password their email address. This configuration is necessary so that the user can do the <u>email sending</u> when they use the forms.

Labor Data

Organizational Unit

Indicates the organizational unit in which the user works.

Authorizer

Indicates the one in charge of authorizing or approving the processes started by the user. It is an optional property, that makes reference to another user belonging to the same organizational unit or to a different one.

This property can be recovered from the business processes so as to set the participant responsible to those activities that require an authorization, by using an agent <u>Authorizer</u>.

Calendar

Identifies the calendar that establishes the dates and working hours of the user.

This property can be defined for each user individually.

When the user has not a special calendar defined, then the current calendar at the level of the organizational unit to which they belong is considered. If there is no definition of a calendar in such unit, it is sought at the higher levels of the organizational structure, until detecting the calendar to apply. The root organizational unit of all the hierarchy has a predetermined calendar defined.

Job Position

Optionally the job positions which correspond to the users can be indicated.

Position

Defines the job position occupied by the user.

Assistants

Optionally the chatbots can be selected to work as assistants of the user.

Assistant

A user can define one or more chatbots as their assistants.

Each time the user receives a message, each of their assistants verify if they recognize that message as a command they can execute.

Each chatbot exposes the commands they can execute and defines which participants can invoke their execution.

On the other hand, those who communicate with this user can see the commands they can use by pressing the command icon on the chat window.

Districts and Absences

Delegates



The list of delegated users is indicated and the period during which the delegations of tasks is effective.

When the user is inactive or absent then those current delegates can:

- $\,\circ\,$ Do the tasks assigned to the user.
- $\,\circ\,$ Initiate the processes authorized for the user.

Delegate of

Informs the list of users that have delegated tasks in the user and the corresponding period. This list is dynamic and is completed at the moment of opening the user profile.

Absences

Each element of the list indicates the type of absence and the corresponding period. During these periods of absence the mechanisms of tasks districts are activated.

Absences can be indicated considering a start and end time.

Security

State and Expiration

User State

Indicates if the user is active or not. An inactive user cannot enter the environment as their account is deactivated.

Expiration Date

The user account is automatically deactivated when the date entered in this property is reached. This automatic inactivation does not use the <u>tasks delegations</u> scheme. This property can be used when users <u>authentication</u> is performed by **Deyel**.

Password Expires

It allows to establish a term of validity of 30, 60 or 90 consecutive days, starting to count from the last update made on the user data.

After that deadline, when the user logs into the portal it is required they renew their key. It can also be stated that the key does not expire.

This property can be used when users <u>authentication</u> is performed by **Deyel**.

Licenses

Each environment of **Deyel** has <u>use licenses</u> that enable the use of licensed applications during a period of time and by a certain number of users.

In this section the list of licensed application the user can use is indicated and which type of user license they have assigned to do this.

Product

Indicates the licensed application the user can use.

License Type

Indicates the type of user license that is assigned to the user to use the product.



Two Step Authentication

When the use of <u>double authentication factor</u> is enabled in the environment, this section is visualized.

If the "Double Factor Authentication" configurable property is set to "Optional", the user can decide whether to use 2FA to authenticate. On the other hand, if the value is Mandatory, the user must configure the use of 2FA. When the user is authenticated for the first time, **Deyel** sends a first TOTP code by email and in turn generates an account recovery code.

› 🕕				Home Tasks Messages Invite Conection
B Users Javier Paz				🖞 Users 🗏 Posts 💐 Invitation (1) 🔎 🕐 📎
				Current Year +
1000		vities colones tunidad 4	Worked days	Worked days
K	Re	uniones 3 upuesto 2		
me*	Sumame *	Email 🐣 *	User*	Alias
	Sumame * Paz	Email @* candegonce@hotmail.com	User * JPAZ	Alias JPAZ.AUTO@GMAIL.COM
Labor Data	Paz			
wier Labor Data Delegations and Absence Security State and Expiration	Paz	candegunce@hotmail.com		
me * viver Labor Data Labor Data Delegations and Absence Security State and Expiration Two Step Authentication Enable Two-Factor	Poz.	candegunce@hotmail.com	JPAZ	
wer Labor Data Delegations and Absence Security State and Expiration Two Step Authentication	Poz.	candeguice@hotmail.com	JRK2	JPAZAUTO@GMANLCOM

For security, to prevent improper access to this information by an unauthorized person, the user is required to confirm his identity by entering his password correctly to display this information.

Enable two step authentication

The user can enable or disable the use of 2FA. If it is enabled, it indicates how it want to receive the TOTP codes, being able to choose any of the following options:

Send codes to my email box

If this option is selected **Deyel** sends the access codes to the user's email account, which has been reported in the profile.

Use the Google authenticator.

If the use of the Google authenticator is selected, a panel is displayed that tells the user how to configure said application.



> +	Re	ogene Receipt Henry	100.0%	Construction of Annual Stress
Name * Javier	Surname * Paz	Google Authenticator First, download the Google Authenticator from the Play Store		Alias JPAZ AUTO@GMAIL.COM
Labor Data Delegations and Absences Security State and Expiration Two Step Authentication Two Step Authentication Delegation State State State State State Security Enable Two-Factor Authentication	ion	The statistication of the second of the seco	Can't you scan It? In the Authenticator, tap the + icon and choose Enti- Confrg Key and set he following Key as 'Your Key', the key type select Time Based Setup Key XVIDFUZGRESIONEXONGANGADELTZ20 Google Verification Code	
Recovery Code 2 8 Permissions Application Global Global Global	~		Cancel Save	cation of Absence - Applicants Request for Refunds - Applicants V
Global	~	Completo de Cm/Cuentas v	Global v	Vacation Request - Applicants

A QR code can be scanned or enter a key that is generated by **Deyel**.

The user must follow the indicated steps and to confirm that they have correctly installed and configured the authenticator, they are asked to enter a TOTP code generated by that application. Only when the code is verified correctly is it possible to save the configuration of the use of the authenticator.

When the authenticator has been configured and is in use, a configuration icon is displayed next to the field. By clicking, the same panel that allows to configure the use of the application on the same or another device is accessed.

The security administrator cannot access a user's 2FA settings. The user can only disable 2FA to contemplate particular situations but not re-enable it, only the user himself can do it.

Recovery Code

When the user cannot complete their two-step authentication because they do not receive their TOPT verification codes, it is necessary to offer a mechanism that allows them to overcome this inconvenience, using a recovery code.

When the user activates 2FA, a recovery code is generated. that can be consulted only by the user himself. To visualize the value, the icon .

The icon $\stackrel{\frown}{=}$ must be used, which allows to generate a new recovery code, the previous one is no longer valid.

The icon $\hat{\mathbf{a}}$ allows to remove the recovery code, indicating that this mechanism is not going to be used.

On the home page, when the user needs to pass 2FA, they can request access with this recovery code. If the correct code is reported, the 2FA is validated and the user can enter.

Account Recovery Email



When the user does not receive the TOTP verification codes and also does not remember his recovery code, another mechanism is provided for him to receive the access codes.

The user can optionally register an alternative email address, which must be different from the institutional account of the same.

To verify that the user has access to the email account, an email is sent to that address, containing a TOPT validation code that must be entered in an attached field.

When accept is pressed and there was some change in the recovery email, it is verified that the code is valid. Otherwise, it is not allowed to register the indicated email account.

Permissions

The access permissions the user has assigned are listed. Each element from the list indicates the name of the permission and the application they belong to.

In the first positions the permissions the user inherits for belonging to an organizational unit, to a role or to a job position are displayed. These elements are displayed protected and it is not possible to delete them from the list. Hovering over each of these elements, it is displayed from which object the permission is inherited.

Following the inherited permissions, the permissions assigned directly to the user are shown. When creating or modifying the user the elements from the list can be added of deleted.

First the application is selected and then the permission of such application to be assigned to the user is selected.

When permissions from a licensed application are assigned, this one must be able to be used by the user. If the application is not available in the use license of the environment, the permission is protected and it is possible to delete it from the permissions list, but not modify the element

The permission "Account Manager" can only be assigned to a unique user. In On-Premise installations of **Deyel**, this permission can be assigned or removed from a user by the security administrator. In Cloud installations, the site of **Deyel** must be used to change the user defined as "Account Manager".

In every installation there exists a set of predefined permissions that can be assigned to the users.

Roles

The <u>roles</u> the user performs are listed. The list is dynamically conformed when accessing the user profile, recovering the roles where the user or their organizational unit are actors. Each element indicates the role name and the application it belongs to.

In the first positions the roles the user inherits for belonging to a unit are displayed and then the roles where the user is an actor.

Personal Information



The user profile includes the following properties:

Nationality Birth Date Identification Type / ID Number Phone Number / Extension

Addresses

The user can have multiple addresses, with the following properties for each of them:

Country State City Postal Code Street Number Department

Social Networks

The user profile includes information about the identity of the user in the different social networks (LinkedIn, Twitter, Facebook, YouTube y Skype).

In the case of Twitter, when publishing the <u>corresponding adapter</u> "Sign in with Twitter" option is enabled.

If the user has their Twitter session opened in the browser, they can grant permission to **Deyel** to publish tweets directly on behalf of the user. If not logged in, the user is redirected to the Twitter site to log in first.

When the authorization process is finished, from the user profile the authorized account is displayed, below their image.

Users can unlink their Twitter account in different ways:

- From their profile, clicking on the icon **X** visualized to the right of the Twitter property.
- From Twitter, the authorization for **Deyel** to publish tweets on behalf of the user is removed.

Additional Information

Remarks

Allows to load complementary data of the user.

Configuration

This section is only available for "Smart Thing" type users.



∠ → 🕂			Home Tasks Calendars Cases Messages Invite
Home > Usuarios Smart Things Vacation management assistant			🚯 Usuarios 📽 Invitaciones 👂 🕐 🃎
W	lorked days	Current Year V My Tasks Worked days	
PA °			Without results
Name *	Email	User *	Alias
	assistant@gmial.com	PMBOT	Vacation management Bot
Vacation management assistant	assistant@gmial.com	РМВОТ	Vacation management Bot
Vacation management assistant	assistant@gmial.com	PMBOT	
Vacation management assistant		Calenda	
Vacation management assistant Labor Data Organizational Unit * english/4	Authorizer	Calenda	r
Vacation management assistant Labor Data Organizational Unit *	Authorizer	Calenda	r

Definition

Visible

Indicates if the chatbot is visible in the users list of the business social network Tedis. When a chatbot is not visible, it can work as an assistant, but it is not possible to send it messages directly in a chat. For "Rest API Client" type this parameter cannot be modified.

Thing Type

Indicates the smart thing type that represents the user. It can take "Chatbot" or "Rest API Client" values.

Message Processor

This property is exclusive for "Chatbot" smart thing type. The business process that implements the processing of the messages the chatbot receives can be defined. Each time a chatbot receives a message, it starts a case of this process to generate the corresponding response.

Commands

This section is exclusive for the "Chatbot" smart thing type and defines the list of <u>commands</u> the chatbot can interpret and respond to.

Executing a command implies executing the business process that implements it.

Participants

This section is exclusive for "Chatbot" smart thing type and defines the participants that can use the chatbot as an assistant.

If an organizational unit is selected, then any user from that unit can use the chatbot.

WebHooks

This section is exclusive for "Chatbot" smart thing type. Webhooks are interfaces that allow to integrate applications, that is, they allow to connect and exchange data between applications.

A chatbot can use multiple webhooks, each of them defines the URL used to contact other application, sending it data in JSON format.

When a chatbot receives a message, it forwards it to each of its webhooks.



Invitations

In the upper right section the user relation with the invitations that they have done is displayed and it is allowed to <u>show</u> those invitations.

System User

To make internal operations automatically, **Deyel** uses a predefined user called SYSTEM USER (SYSUSER).

This user is displayed in the user grid, it is not possible to modify or deactivate it and it does not require user licenses.

The initial load of the use license or its subsequent update or the execution of scheduled tasks, among others, are operations whose execution is made using this user and so it remains registered in the audit trails.

It is not possible for someone to enter the user portal authenticating as the system user. **Deyel** uses it only for the doing and registration of internal tasks.

3.11.2.4.1. Grid

To do the creation and administration of users, the grid can be accessed from **Deyel** menu.

- From the option "Configuration", selecting "Security" and then "Users".
- From the <u>search</u> facility.

The users are visualized as a grid with the standard presentation of results grids, with facilities of:

- Sorting
- Search Bar and Filters
- Download Data
- Operations

earch	Q	Users 10 🕲	0		Search	۹ 🔽 🛓 ۱
		User Type✔ User State▼	v User∨ Alias∨ Name∨ Surname∨ Er	nail V Organizational Unit V J	ob Position V Application V P	ermission v Product v Licence Type v
BAM and Analysis	~	User	Alias	Name	Surname	Organizational Unit
Reports		PMBOT	Vacation management Bot	Vacation management assi	stant	english74
Configuration	-	DCANO	DCano@gmail.com	David	Cano	Sales Department
Organization		deyel	deyel@deyel.com	Deyel	Optaris	english74
Security	~	DEYELBOT	DEYELBOT	Deyel Bot		Organizational Structure
Users		GDIAZ	GDIAZ.AUTO@GMAIL.COM	Will	Thompson	Sales
Permissions		AFARIAS	AFARIAS.FA@GMAIL.COM	Alex	Farias	System Departmen 🧪 👕 >
Job Positions		VPEREIRA	VPEREIRA.AUTO@GMAIL.COM	Valentine	Pearson	Liquidation of Assets
Roles		SLOPEZ	SLOPEZ.AUTO@GMAIL.COM	Sarah	Lyon	HR Administration
Agents		JPEREZ	JPEREZ.AUTO@GMAIL.COM	Jack	Perry	Sales
Security functions		JPAZ	XPAZ.AUTO@GMAIL.COM	Xavier	Paz	Sales Department



The following properties of the users are visualized as grid columns:

- User
- Alias
- Name
- Surname
- Organizational Unit

Filters can be applied by the following properties:

- User Type
- User State
- User
- Alias
- Name
- Surname
- Email
- Organizational Unit
- Job Position
- Application
- Permission
- Product
- License Type

It is possible to perform <u>operations</u> on each line of the users grid. By clicking on the line the display of the selected user is done, while by means of the icons \checkmark and \square its modification or elimination is done, respectively.

3.11.2.4.2. Operations

It is possible to do operations on each user, depending on the <u>security permissions</u> that the connected user has defined. When hovering over each of the lines of the <u>grid</u> the icons with available operations are visualized.

The exception is the operation "Create" that can be executed from the <u>context menu</u> in different ways.

- Hover the cursor over the icon $\stackrel{\textcircled{\bullet}}{=}$ and select one of the icon on its right $\stackrel{\textcircled{\bullet}}{=}$ or $\stackrel{\textcircled{\bullet}}{=}$ corresponding to the option "Users" or "Smart Things".
- Click on the icon 🛨 and select the option "Users" o "Smart Thing" on the vertical panel displayed.

Create

Opens properties panel of the new user or smart thing with all properties as editable. The creation is done by pressing any of the buttons available and the user receives a message indicating that data have been saved.



Deyel can do <u>users authentication against LDAP directory</u>, in this case some of the user properties can be disabled, as such information can be recovered from LDAP directory.

Buttons

- Accept: Confirms the creation of a new user or smart thing.
- Accept and Create: Confirms the creation of a user or smart thing and opens a new panel to create another one.

Considerations

When creating users some considerations are applied to entered properties.

Name - Surname

These properties are not informed for user type "Smart Thing".

Email

There cannot be more than one user with the same email. This property is optional for user type "Smart Thing".

User

The user code is made up automatically based on the name and surname. It is made up of the first initial of the name followed by a maximum of nine letters of the surname. It can be modified by the security administrator. There cannot be more than one user with the same code.

Alias

Takes the same value the property Email does. It can be modified by the security administrator. There cannot be more than one user with the same alias.

Profile Image

The profile image is entered by the users themselves. It is not a property that the security administrator can define when creating the user. **Deyel** assigns by default an image with the user's initials.

Labor Data

Organizational Unit.

The organizational unit "My Company" is proposed by default. It can be modified by the security administrator.

Security

State and Expiration

Due Date

It must be greater than or equal to the current date.

User Licenses

In the properties Product and License Type the first product available in the use license is initially proposed. The security administrator can change this proposed value.



The list of applications only includes licensed applications available in the use license. When creating a new user, **Deyel** verifies that the amount of enabled users in the use license is not exceeded.

Permission

Considering the values entered for the properties Product and License Type, the initial permission is proposed by **Deyel**.

Type of Use License	Initially Proposed Permission			
Deyel - Participant	Deyel.EndUser			
Deyel - Agile Modeler	Deyel.AgileModeler			
Deyel - Deyel Modeler	Deyel.DeyelModeler			
CRM - Administrator	CRM.Administrator			
CRM - Participant	CRM.Seller			
Contracts - Administrator	Contracts.Administrator			
Contracts - Participant	Contracts.Seller			

The security administrator can change the permission initially proposed.

The list of applications only includes licensed applications if they are available in the use license. The list of license types only shows the ones available in the use license.

When permissions of a licensed application are assigned, it is verified that:

- The licensed application is in the list of applications the user can use.
- The type of the user license is compatible with the one required by the access permission.

The permission "Account Manager" can only be assigned to a unique user.

Show

Opens the properties panel of the selected user, where properties are not editable. Depending on the <u>security permissions</u>, buttons available to operate with that user are enabled.



- <u>Update</u>
- <u>Delete</u>

Update

Opens properties panel of the selected user, with those properties that can be modified as editable. The update is done by pressing the button "Accept" and the user receives a message indicating that data have been saved.

Deyel can do <u>users authentication against LDAP directory</u>, in this case some of the user properties can be disabled, as such information can be recovered from LDAP directory.

Considerations

Users can update their profile, modifying <u>properties</u> like their profile image, their delegated users and inform absences, among others. However some properties can only be modified by the security administrator, who has permission to execute the security function "Deyel - Modify users data".

Name - Surname

These properties are not informed for user type "Smart Thing".

Email

There cannot be more than one user with the same email. This property is optional for user type "Smart Thing".

Alias

There cannot be more than one user with the same alias.

Profile Image

The profile image is entered by the user themselves. It is not a property that the security administrator can define when modifying the user.

Delegations and Absences

Delegates

When a user is modified:

- Delegations occurred in the past, cannot be modified nor deleted.
- Current delegations, that is the ones that have the current date within the period, can be modified but the date must be kept within the period.
- Future delegations can be freely deleted or modified.

Absences

This list can be administrated by the users themselves or by the administrator user. Each element contains the absence type and its period.

Only the absences occurred during the last year are visualized, however the administrator user can see all of the absences.

When a user is modified:

• The absences occurred in the past can be modified or deleted only by the security administrator.



- Current absences, that is the ones that have the current date within the period, can be modified but the date must be kept within the period. The security administrator can delete or modify current absences.
- Future absences can be freely deleted or modified.

Security

State and Expiration

Due Date.

It must be greater than or equal to the current date.

User Licenses

Elements from the list of licensed applications can be added o deleted when modifying a user.

If an element is created or modified, only licensed applications available in the use license can be selected.

Those elements from the list that make reference to applications not available in the environment are displayed protected, it is possible to delete them from the list but it is not possible to modify them.

Deyel verifies that the amount of enabled users in the use license are no exceeded..

Permissions

Elements from the list can be added or deleted when modifying the user.

The Application must be selected first and then the Permission for such application.

When permissions of a licensed application are assigned, it is verified that:

- If the application is not available in the environment at the moment of the modification, the permission is seen as protected and it is possible to delete it from the permissions list, but not modify it.
- If the application is available in the environment at the moment of the modification, it is verified:
 - The licensed application is one of the products the user can use.
 - The type of user license is compatible with the one required by the security permission.

The permission "Account Manager" can only be assigned to a unique user.

Delete

Opens the properties panel of the selected user or smart thing, where their properties are not editable. The deletion is done by pressing the button "Accept" and the user receives a message indicating that data have been deleted.

Considerations

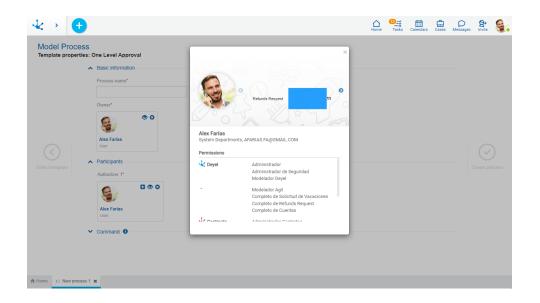
When deleting users some verifications are made.



- The administrator of an organizational unit cannot be deleted.
- A coordinator or actor of a role cannot be deleted.
- A user with permission "Account Manager" cannot be deleted.
- Responsible or participant users of a process in use cannot be deleted.
- A logged in user cannot delete its own profile.

3.11.2.4.3. Show User Profile

From the different modelers, as well as from execution of processes and forms the query of the user profile can be made by pressing the icon $\textcircled{}^{\textcircled{}}$ and an informative panel is displayed.



Panel Elements

Some of the properties which were defined for the <u>user</u> are displayed, such as <u>Name</u>, <u>Surname</u>, <u>Organizational Unit</u>, <u>Email and Permissions</u>. These last are seen within a container where the scroll bar can be used.

At the top of the panel behavior indicators are seen, the icon solution allows to advance to the following indicator and the icon allows to return to the previous indicator.

3.11.2.5. Permissions

An access permission is an object that groups security functions.

Each user has assigned one or more security permissions that indicate which functionality they can execute within each application. This way, the operations that a user can execute are determined by the access permissions that they have been assigned.



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Home > Permisos				^
Permissio My new applic	alon			- 1
Descriptive Name *		Name *	Application * Licence Type	- 1
My new applicaion		MyNewApplication	MyApp	
Description				. 1
— МуАрр		1		
+ MyAj	qc			
+ Widg	ets de MyApp			
+ Dash	boards de MyApp			
+ Form	ularios de MyApp			
Func	lones de MyApp			. 1
Lista	s de Valores de MyApp			- 1
Repo	rtes de MyApp			
Tabla	as de MyApp			*

An asterisk "*" on the label indicates that the property is required.

Properties

Descriptive Name

Complete name of the permission. This text is the one visualized on the permissions grid.

Name

It is an abbreviated or reduced name. It is used when referring to the permission in an error message or in any mention that needs to abbreviate the descriptive name. This property does not admit blank spaces.

Application

Defines the application the permission belongs to, through the selection grom a list of available applications. The permission is made up of security functions of such application.

The <u>licensed applications</u> are included in such list only if the <u>use license</u> in the environment allows their use.

Access permissions of a licensed application, can only be assigned to users that have user license of such application. When a permission is created or modified, **Deyel** verifies that the authorized security functions are compatible with the license type required by the permission. For example, a permission that requires only a participant license cannot authorize functionalities that are typical of an agile modeler or a **Deyel** modeler.

When a permission belongs to a not licensed application, it can include functionalities of **Deyel** or of a solution, but they can be executed by a participant user.

Any permission can contain security functions of **Deyel** application. Any permissions of **Deyel** application can contain global security functions.

Description

Details the information about the permission, extending what is expressed in the property Descriptive Name. Allows to enter a description of the facilities that the permission grants, without analyzing in detail the list of authorized functions.



Functions

Panel in which the set of <u>security functions</u> defined by the permission are authorized. They are visualized with the defined hierarchical structure.

Search

On top of the panel the bar of search of functions is visualized, from where filters can be applied to the function names.

The icon allows to delete the defined selection criteria and all lines on the panel are displayed again without highlighting.

🛨 Expands the hierarchical structure of security functions.

Reduces the hierarchical structure of security functions only to higher level ones.

3.11.2.5.1. Grid

For creating and managing permissions, it is posible to access the grid from the menu of **Deyel**.

- From the option "Configuration", selecting "Security" and then "Permissions".
- From the search facility.

Permissions are visualized as a grid with the standard presentation of results grids, with facilities of:

- Sorting
- Search Bar and Filters
- Data Download
- Operations

		Home			Home Tasks	Calendars	Cases Me	ssages	8+ Invite
Search	Q	Permissions 98 🗐 🕯	3		Search		Q	T	*
		Descriptive Name Vame Vescription	✓ Application ✓ Licence Type ✓ Secutity —	Function ~					
III BAM and Analysis	~	Descriptive Name	Name	Description	Application		Licence Ty	pe	
Reports		My new application	MyNewApplication		МуАрр				
Configuration	-	Update of Purchase Request	PermissionUpdatePurchaseReques	Update of Purchase Request	Global				
Organization		Show of Purchase Request	PermissionShowPurchaseRequest	Show of Purchase Request	Global	Ð		1	•
Security	^	Completed of Purchase Request	PermissionCompletedPurchaseRec	Completed of Purchase Request	Global				
Users		Delete of Purchase Request	PermissionDeletePurchaseRequest	Delete of Purchase Request	Global				
Permissions									
Job Positions									
Roles									
Agents									
Security functions									
Location									@ 20

The following properties of permissions are visualized as grid columns:



- Descriptive Name
- Name
- Description
- Application
- License Type

Filters can be applied by the following properties:

- Descriptive Name
- Name
- Description
- Application
- License Type
- Security Function

It is possible to perform <u>operations</u> on each line of the permissions grid. By clicking on the line the display of the selected permissions is done, while by means of the icons and its modification or elimination is done, respectively.

3.11.2.5.2. Operations

It is possible to perform operations on each permission, depending on the <u>security permissions</u> that the connected user has defined. When hovering over each of the lines of the <u>grid</u> the icons with available operations are visualized.

The exception is the operation "Create" that can be executed from the <u>context menu</u> in different ways.

- Hover over the icon $\stackrel{\bullet}{\bullet}$ and select the icon on its right $\stackrel{\boxdot}{\bullet}$, corresponding to the option "Permissions".
- Click on the icon 🙂 and select the option "Permissions" on the vertical panel displayed.

Create

Opens properties panel of the new permission with all properties as editable. The creation is done by pressing any of the buttons available and the user receives a message indicating that data have been saved.

Functions

In the panel in which the set of <u>security functions</u> authorized through the permission is defined, functions included in the panel can be selected.

Buttons

- Accept: Confirms the creation of a new permission.
- Accept and Create: Confirms the creation of a permission and opens a new panel to create another one.



Show

Opens the properties panel of the selected permission, where properties are not editable. Depending on the <u>security permissions</u> of the user, buttons available to operate with that permission are enabled.

Buttons

- Update
- •Copy
- Delete

Update

Opens properties panel of the selected permission, with those properties that can be modified as editable. The update is done by pressing the button "Accept" and the user receives a message indicating that data have been saved.

Сору

Opens a panel with the same properties of the selected permission, with its properties as editable. The necessary modifications must be done and when pressing the button "Accept", the user receives a message indicating that data have been saved. When the permission corresponds to a <u>licensed application</u>, it can only be copied if its license is valid.

Descriptive Name

This property takes the value of the origin permission, adding a suffix indicating the number of copy generated. However this value can be modified.

Name

This property takes the value of the origin permission, adding by default a suffix indicating the number of copy generated. However this value can be modified.

Delete

Opens the properties panel of the selected permission, where the properties are not editable. The deletion is done by pressing the button "Accept" and the user receives a message indicating that data have been deleted.

The permission cannot be deleted if there are users or roles who have it assigned.. The permission "Account Manager" is a protected permission and it cannot be deleted.

3.11.2.5.3. Predefined Permissions

There are security permissions predefinded in **Deyel** with different features.



These predefined permissions are protected by **Deyel** and cannot be modified, imported or deleted.

Deyel

End User

- Accesses the users portal, where they find tools which allow them to initiate cases, show the state of the cases they have initiated, show their pending tasks list and execute them, use messages, etc.
- Uses forms to manage business entities, being able to show or modify each entity according to the access rights they have on the entity.

Agile Modeler

- Includes end user features.
- Uses forms modeling wizard to build, document and implement forms, processes and business entities of the organization.
- Defines roles and parameterization entities.
- Defines business rules to include logic in their processes.
- Uses tools to export and import their models and information of the environment.

Deyel Developer

- Includes end user features.
- Uses tools of graphical forms modeling and processes modeling to build, document and implement process and business entities of the organization.
- Defines roles, agents and parameterization entities.
- Implements more complex business logic using wizards that allow them to incorporate Java components.
- Implements the integration with other applications or external data bases.
- Implements behavior or more complex validations in forms, using the advanced edition of scripting.
- Uses tools to export and import their models and information of the environment.

Tester

- Includes end user features.
- Has tools that allow them to define and maintain test plans of different processes, record individual test cases and define random scenarios.
- Uses tools to automate execution of test plans and monitors the results.

BAM

• User of BAM module of Deyel.

Guest in Tedis

• Includes end user features.



• It is used to limit the use of this collaborative platform. For example, a guest user can participate in conversations, but not initiate them.

Security Administrator

- Includes end user features.
- It has tools that allow them to manage organizational structure, users and roles they play.
- It can define functions and security permissions and assign them to users and roles.

Administrator

- Includes end user features.
- Uses tools to configure:
 - Properties of the installation (DB connection, integration with mail server, etc.).
 - The use and upgrade of cache memories.
 - Parameterization entities of **Deyel**.
 - Holiday calendars and particular dates.
 - Glossaries
- Uses habitually the following features:
 - Monitoring and reboot of programmed tasks.
 - Events console and logs.
 - System log download.
 - Execution of tuning tools, such as case debugging.
 - Tools to export and import information of the environment.

Environment Configuration

count Manager".

• It only allows entry to the environment configuration.

Global

Account Manager

Allows to identify the user that performs as " Account Manager". This is a protected security permission, that cannot be removed from the installation or modified.

Only one user can have this security permission assigned. This is controlled in the creation and in the modification of users.

In On-Premise installations, this permission can be assigned or removed from a user by the security administrator. In Cloud installations, the site of **Deyel** must be used to change the user that performs as " Ac-

Besides, this permission cannot be assigned to roles or job positions.

Modeler



Groups all <u>modeling</u> and <u>usage</u> security functions of the objects, giving agility to the assignment of permissions particularly at the moment of creating objects. Every created object has its security functions assigned to this permission.

CRM

Seller

- Includes the features of **Deyel** end users, without the access to agile forms.
- Includes access permissions for CRM sellers.

Sales Manager

- Includes the features of **Deyel** end users.
- Includes access permissions for CRM sales managers.

Administrator

- Includes the features of **Deyel** end users.
- Includes access permissions for security and CRM administration features.

3.11.2.6. Job Positions

Phase 8: Configuration > Roles and job positions

A job position defines in **Deyel** the activities that a user or group of users develop within the organization.

Each job position can have assigned a set of <u>security permissions</u>, that are inherited by the users who occupy that position, which allows to simplify assigning permissions to users.

This concept is used to associate users to the job position they occupy and know which are their skills. From a job position it can be visualized the relation with the users in the upper right section, with the number of users that are associated to the job position consulted. If you click on the name of the relation "Users", a grid with the users associated to the job position is visualized if the number is greater than 1, or the properties panel of the user in case that such number is 1.



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Description										
Sales area employees										
		11								
Permissions										
Application	Permission									
CRM	Seller									
										_
							Del	ete	Update	

An asterisk "*" on the label indicates that the property is required.

Properties

Descriptive Name

Complete name of the job position. This text is the one visualized on the grid of job positions.

Name

It is an abbreviated or reduced name. It is used when referring to the job position in an error message or in any mention that needs to abbreviate the descriptive name. This property does not admit blank spaces.

Description

Details the information about the job position, extending the property Descriptive Name. Allows to include a detailed description of the tasks that the user occupying that job position does.

Assigned permits

Security permissions can be added to the job position.

Application

Allows to define the application list that can be used by the users who have the job position assigned within their profile.

Permits

Allows to define a predefined <u>security permission</u> for each application entered in the property Application.

3.11.2.6.1. Grid

For creating and managing job positions, it is posible to access the grid from the menu of **Deyel**.

- From the option "Configuration", selecting "Security" and then "Job Positions".
- From the search facility.

Job positions are visualized as a grid with the standard presentation of results grids, with facilities of:



- Sorting
- Search Bar and Filters
- Data Download
- Operations

ϟ degel	<	+		Home Tasks Cal	endars Cases Messages Invite
Search	٩	Home Job Positions 3 (2) Name Descriptive Name - Description - Application	n v Permission∨	Search	۹ 🕇 🛓 :
III BAM and Analysis	~	Descriptive Name	Name		
🖽 Reports		Scrum Master	ScrumMaster		
Configuration	^	Sales manager	SalesManager		
Organization		Seller	Seller		
Security	^				
Users					
Permissions					
Job Positions					
Roles					
Agents					
Security functions					
Location					@ 3

The following properties of job positions are visualized as grid columns:

- Name
- Descriptive Name

Filters can be applied by the following properties:

- Name
- Descriptive Name
- Description
- Application
- Permission

It is possible to perform <u>operations</u> on each line of the job positions grid. By clicking on the line the display of the selected job position is done, while by means of the icons \checkmark and $\overline{}$ its modification or elimination is done, respectively.

3.11.2.6.2. Operations

It is possible to perform operations on each job position, depending on the <u>security permissions</u> that the connected user has defined. When hovering over each of the lines of the <u>grid</u> the icons with available operations are visualized.

The exception is the operation "Create" that can be executed from the <u>context menu</u> in different ways.

- Hover the cursor over the icon
 and select the icon on its right
 corresponding to the option
 "Job Position".
- Click on the icon 🛨 and select the option "Job Position" on the vertical panel displayed.



Create

Opens properties panel of the new job position, where properties are editable. The creation is done by pressing any of the buttons available and the user receives a message indicating that data have been saved.

Buttons

- Accept: Confirms the creation of a new job position.
- Accept and Create Confirms the creation of a job position and opens a new panel to create another one.

Show

Opens the properties panel of the selected job position, where properties are not editable. Depending on the <u>security permissions</u> of the user, buttons available to operate with that job position are enabled.

Buttons

- Update
- Delete

Update

Opens properties panel of the selected job position, with those properties that can be modified as editable. The update is done by pressing the button "Accept" and the user receives a message indicating that data have been saved.

Delete

Opens the properties panel of the selected job position, where its properties are not editable. The deletion is done by pressing the button "Accept" and the user receives a message indicating that data have been deleted.

3.11.2.7. Roles

Phase 8: Configuration > Roles and job positions

While the organizational structure of **Deyel** defines the areas or offices of the company, the hierarchical relations between them and the actors that make it up, the roles allow to define groups of actors that have activities and common responsibilities, but are cross or parallel to the organizational structure.



The actors of a role can be users, organizational units or users that belong to these units. Each role can have defined a set of <u>security permissions</u>, that are assigned to the users comprising such role or to the users whose organizational unit integrates the role.

In the modeling of business processes, this concept is used to define that an activity can be executed by any of the members of the role. In agile forms, roles can be used to define who can do operations on form instances.

An organizational unit and a user can belong to multiple roles.

tive Name * into - Consult			Name * AccountsConsult	Application * Global	
tion Inte - Consult			Coordinator User Type your search		
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			+ #Sales Department		
			≝Assets Settlement Department		
			+ HR Administration		
ssions -					

An asterisk "*" on the label indicates that the property is required.

Properties

Descriptive Name

Complete name of the role. This text is the one visualized on the roles grid.

Name

It is an abbreviated or reduced name. It is used when referring to the role in an error message or in any mention that needs to abbreviate the descriptive name. This property does not admit blank spaces.

Application

Defines the application the role belongs to, through the selection of a list of available applications. The <u>licensed applications</u> are included in such list only if the <u>use license</u> of the application is valid in the environment.

Description

Details the information about the role, extending the property Descriptive Name. Allows to document the purpose for which the role has been generated, in which process is used, etc.

Coordinator User

A coordinator user of the role is optionally defined, doing the selection from the user search.



Current Actors

Panel in which the users and organizational units that are role actors, can be defined and visualized as a grid.

The role must have at least a current actor, that is the list of current actors cannot be empty. On top of the panel a <u>search bar</u> of actors is visualized, from where filters can be applied to the user names and organizational units to reduce the grid.

It is possible to move elements from this panel from or to the panel Available Actors, as detailed under the title <u>Transfer of Actors</u>.

Available Actors

Panel from where you can select users and/or organizational units available to be defined as role actors.

On top of the panel a bar of <u>search of actors</u> is visualized, from where filters can be applied to the user names and organizational units to reduce the grid.

It is possible to move elements from this panel from or to the panel Current Actors, as detailed under the title <u>Transfer of Actors</u>.

Permissions

This property allows to define security permissions to the role actors, that is that actors who integrate the role or that play in units which are role actors, inherit the security permissions defined here. It is an indirect way of assigning security permissions.

It is not allowed for the permission "Account Manager" to be associated to roles.

Actors Transfer

The transfer of actors between the panels Current Actors and Available Actors is done by selecting the actors to transfer in the source panel and pressing the icon corresponding to the direction.

Transfers the selected actors in the panel of available actors to the panel of current actors.

ightarrow Transfers the selected actors in the panel of current actors to the panel of available actors.

The icon 📶 allows to select all the actors of the corresponding panel, or remove the selection.

Actors Search

The search of actors is done by clicking on the selected lines, or using the search facility of each panel of actors. If a text is entered and the key "Enter" is pressed, the panel is updated showing only the actors whose name contains the text entered. The results are highlighted in yellow.

The icon eilows to delete the defined selection criteria and all lines are displayed again on the panel.

3.11.2.7.1. Grid

For creating and managing roles, it is posible to access the grid from the menu of **Deyel**.

- From the option "Configuration", selecting "Security" and then "Roles".
- From the <u>search facility</u>.



Roles are visualized as a grid with the standard presentation of results grids, with facilities of:

- Sorting
- Search Bar and Filters
- Data Download
- Operations

		Home		Home Tasks Caler	ndars Cases Messages Invite
Search	Q	Roles 10 S Descriptive Name v Name v Application Coordinating	user v Permission v Actor Name v	Search	۹ 🕇 🛓 :
III BAM and Analysis	~	Descriptive Name	Name	Application	Coordinating user
Reports		Purchase Request - Total access	PurchaseRequestTotalaccess	Global	
Configuration	~	Purchase Request - Applicants	PurchaseRequest	МуАрр	
Organization		Account - Account - Consult	AccountAccountConsult	Global	
Security	~	Accounts - Consult	AccountsConsult	Global	لى 🖌 🔊
Users		Vacation Request - Consult	VacationRequestConsult	Global	Q
Permissions		Refund Request - Authorizing	RefundRequestAuthorizing	Global	
Job Positions		Request for Refunds - Applicants	RequestForRefundsApplicants	Global	
Roles		Refund Request - Consult	RefundRequestConsult	Global	
Agents		Communication of Absence - Authorizing	CommunicationOfAbsenceAuthorizing	Global	
Security functions		Communication of Absence - Applicants	CommunicationOfAbsenceApplicants	Global	

The following properties of roles are visualized as grid columns:

- Descriptive Name
- Name
- Application
- Coordinator User

Filters can be applied by the following properties:

- Descriptive Name
- Name
- Application
- Coordinator User
- Actor Name

It is possible to perform <u>operations</u> on each line of the roles grid. By clicking on the line the display of the selected role is done, while by means of the icons \checkmark and $\overline{\bullet}$ its modification or elimination is done, respectively.

3.11.2.7.2. Operations

It is possible to do <u>operations</u> on each role, depending on the <u>security permissions</u> that the connected user has defined. When hovering over each of the lines of the <u>grid</u> the icons with available operations are visualized.

The exception is the operation "Create" that can be executed from the <u>context menu</u> in different ways.



- Hover the cursor over the icon 🛨 and select the icon on its right 🔲 corresponding to the option "Roles".
- Click on the icon ڬ and select the option "Roles" on the vertical panel displayed.

Create

Opens properties panel of the new role with all properties as editable. The creation is done by pressing any of the buttons available and the user receives a message indicating that data have been saved.

Buttons

- Accept: Confirms the creation of a new role.
- Accept and Create: Confirms the creation of a role and opens a new panel to create another one.

Show

Opens properties panel of the selected role, where properties are not editable and the icons for the <u>transfer of actors</u> are not visualized, however the search of actors <u>is enabled</u>. Depending on the <u>security permissions</u> of the user, buttons available for operating with the role that is being consulted are enabled.

Buttons

- Update
- Delete

Update

Opens properties panel of the selected role, where properties that can be modified are editable. The update is done by pressing the button "Accept" and the user receives a message indicating that data have been saved.

Application

It is not allowed to modify the role if the <u>application is licensed</u> and its <u>use license</u> is not valid. Coordinator User

When the role is responsible or participant of a process that is in use, it is not possible to delete the definition of the coordinator, although it is possible to define a new one.

Delete

Opens properties panel of the selected role, where properties are not editable and the icons for the <u>transfer of actors</u> are not visualized, however the search of actors <u>is enabled</u>. The deletion is done by pressing the button "Accept" and the user receives a message indicating that data have been deleted.



A role cannot be deleted if it is responsible or participant of a process in use.

3.11.2.8. Agents

An agent is a type of participant that allows to dynamically determine a user, an organizational unit or a role, based on certain logic during the execution of a process.

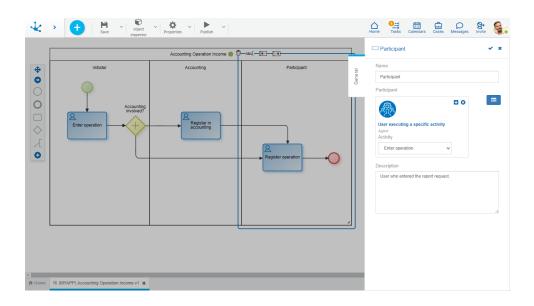
Predefined Agents

When modeling processes, a set of predefined agents can be used to establish who can execute the activities found in a lane.

User Executing a Specific Activity

This agent returns the user that executed a specific activity. This agent is used when there is the need to indicate that an activity is made by the same user that executed the activity defined.

Usage Example: The activity "Register operation" is executed by the same user that executed the activity "Enter operation".

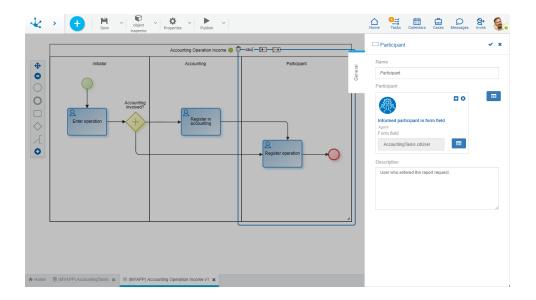


Participant Informed in Form Field

This agent returns the participant from a form field. This agent is used when there is the need to indicate that an activity is made by the user indicated in the defined field of a form related to the process.

Usage Example: The activity "Register operation" is executed by the user shown in field "cdUser" of the form "TareasContables".





Administrator of the User OU

This agent returns the user that is <u>administrator of the organizational unit</u> the executing user of the last activity belongs to.

Any User

This agent returns the the user that is currently logged in. If a process has this agent as the participant of the initial lane, every **Deyel** user can initiate the case.

Authorizer

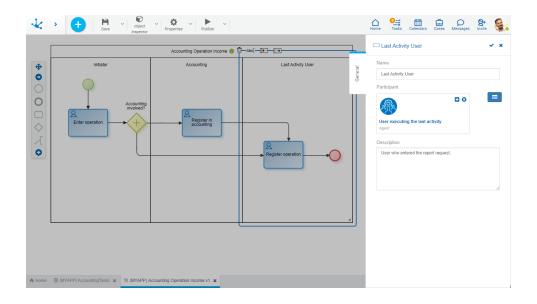
This agent returns the user defined as <u>authorizer</u> in the profile of the user that executed the last activity.

User Executing the Last Activity

This agent returns the user that initiated the execution of the last activity. This agent is used when there is the need to indicate that an activity is made by the same user that executed the activity that goes before.

Usage Example: The activity "Register operation" is executed by the user that initiated the case or by the user that executed the task "Register in accounting", if the case involved the accounting department.

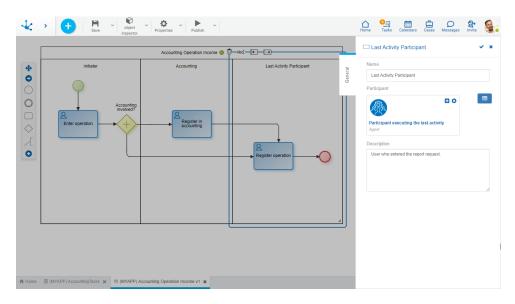




Participant Executing Last Activity

This agent returns the participant that initiated the execution of the last activity. It is used to indicate that an activity is done by the same participant..

Usage Example: The activity "Register operation" is executed by the same user that initiated the case or by the organizational unit "Accountant", if the case involved the accounting department.



Initiator

This agent returns the user that executed the first activity of the process. It cannot be used in the first lane of a process.

CRM User

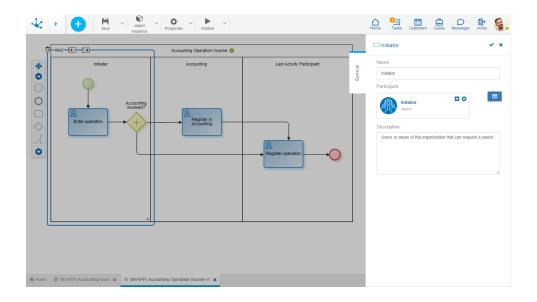


Returns the user that is currently logged in as participant only if they have CRM Solution license. If a process has this agent as participant of the initial lane, every user with CRM license can initiate the case. It is recommended to use this agent only to define the participant of the initial lane of the process.

Initiator Restricted by Function

This agent evaluates if the current user has in their permissions the security function "Initiate Process" corresponding to the current process. This agent can only be used in the first lane of the process.

Usage Example: The activity "Register operation" must be executed by a user that has a permission permit with the security function "Start by agent Entering Accounting Operation" enabled.



3.11.2.9. Security Functions

A security function represents an operation that can be done on an object. It can be included in one or more <u>permissions</u> thus authorizing the users that have those permissions to do such operation.

Every operation available in **Deyel** or in its solutions has a corresponding security function defined. Besides, every object that is modeled has a set of security functions that are automatically created when saving and publishing the object.

Security functions can be shown or assigned to permissions from the option "Permissions" on the menu and particularly security functions of the modeled objects, from the object modeler as well.

Of Modeling

They authorize the execution of the modeling operations, such as save, publish, export, delete. They are generated when saving the object and their assignment to permissions has an immediate impact when saving or publishing an object.



Of Use

They authorize the execution of the operations on the instances of the objects, like create, modify, delete, show, when they are used from the portal. They are generated when the object is published. The modifications in the assignment of use functions do not have a real impact on the use of the object, until it is published.

√ ∠ → +				lome	10 Tasks	Calendars	Cases	8+ Invite	٩.
Home Security functions Process Refunds Request									
Descriptive Name *			Name *		Applicati	ion *			
Process Refunds Request			RefundsRequest		Global				
Description Process Refunds Request				li	Edition	Туре			
Main Function *			With sublevels						
Global		<	Yes						
Error Audit	Access Audit								
No	No								
								Update	

An asterisk "*" on the label indicates that the property is required.

Properties

Descriptive Name

Complete name of the security function. This text is visualized on security functions grid.

Name

It is an abbreviated name. It is used when referring to the security function in an error message or in any mention that needs to abbreviate the descriptive name.

Application

Indicates the applications to which the security function belongs to, it is the same as the one his Father Function.

Edition

It indicates the edition of **Deyel** or of the licensed application required for the execution of the function. Some functions are available only in the edition "Enterprise" of **Deyel** or "Professional" of the solutions.

License Type

Indicates the type of license the user needs to have assigned in order to execute the function. It is used for **Deyel** functions or licensed applications functions.

Description

Details information about the security function, extending what is expressed in the property Descriptive Name.



Superior Function

Allows to identify the superior security function inside the hierarchical structure. There exists a father function for each available solution and for each modeled application.

With Sublevels

Indicates that the security function has subordinated functions.

Audits for Access

When the value "YES" is defined an entry is generated in the audit registry each time a user executes the security function. Using the Logs Console these audit trails can be recovered and evaluated the use of the different security functions.

Audits for Errors

When the value "YES" is defined an entry is generated in the audit registry each time an error occurs during the execution of the security function. Using the Logs Console these audit trails can be recovered and evaluated the occurrence of these type of errors.

3.11.2.9.1. Functional Structure

For creating and managing security functions, it is possible to access the functional structure from the menu of **Deyel.**

- From the option "Configuration", selecting "Security" and then "Security Functions".
- From the <u>search</u> facility.

Security functions are identified from its property Descriptive Name and automatically generated when objects are modeled. They can be visualized as a hierarchical view or as an object grid.

It is possible to perform <u>operations</u> on each security function from hierarchical view and from the grid mode by using buttons.

Hierarchical View

Father element, which name is the name of the application, is located as sublevel of the top element "Security Functions" and security functions of the application and its objects are visualized under it. For each modeled object, its corresponding modeling security functions and of use are created.

The icon \blacksquare allows to change the visualization to grid mode.



• • •			Home	Tasks	Calendars Case	A D Messager	s Invite
ecurity functions	=	Search					Q
- Funciones de Seguridad							
+ Administration							
+ Capacitación							
+ Contracts							
- CRM							
+ CRM							
+ Dashboards de CRM			0-		Sho	v Uį	pdate
+ Formularios de CRM			Ð				
Funciones de CRM							
+ Listas de Valores de CRM							
+ Reglas de CRM							
Reportes de CRM							
Tablas de CRM							
+ Widgets de CRM							
+ Deyel							

Grid

Security functions are visualized as a grid, with the standard presentation of <u>results grids</u>, with facilities of::

- Ordering
- Search Bar and Filters
- Data Download
- Operations

The icon 📥 allows to change the visualization to hierarchical view mode.

🖌 degel		Home				Home Ta	sks Calendars Cases Messages I	nvite
Search	٩	Security function		I ► Licence Type	✓ System Function Secutity	Search	۹ 🕇	¥
III BAM and Analysis	~				^			
Reports		Use within the modeler Obtener procesos	Name RctrGetFollowUpProcess1v	Application Global	Superior Function Modeling Obtener procesos seguimiento	Licence Type	Code RctrGetFollowUpProcess1V002	
Configuration	^	Visibility in the modeler Obtener procesos	RctrGetFollowUpProcess1v	Global	Modeling Obtener procesos seguimiento		RctrGetFollowUpProcess1V001	
Organization		Publish Rest rule Obtener procesos seguimiento	RctrGetFollowUpProcess1S	Global	Modeling Obtener procesos seguimiento		RctrGetFollowUpProcess1ST7	
Security	^	Publish WS rule Obtener procesos seguimiento	RctrGetFollowUpProcess1S	Global	Modeling Obtener procesos seguimiento		RctrGetFollowUpProcess1ST6	
Users		Lock/Unlock rule Obtener procesos seguimiento	RctrGetFollowUpProcess1S	Global	Modeling Obtener procesos seguimiento	€	RctrGetFollowUpProcess1ST5	>
Permissions		Delete rule Obtener procesos seguimiento	RctrGetFollowUpProcess1S	Global	Modeling Obtener procesos seguimiento		RctrGetFollowUpProcess1ST4	
Job Positions		Delete publication Obtener procesos seguimiento	EliminarPublicacionReglact	Global	Modeling Obtener procesos seguimiento		RctrGetFollowUpProcess1ST3	
Roles		Publish Rule Obtener procesos seguimiento	RctrGetFollowUpProcess1S	Global	Modeling Obtener procesos seguimiento		RctrGetFollowUpProcess1ST2	
Agents		Save Changes Obtener procesos seguimiento	RctrGetFollowUpProcess1S	Global	Modeling Obtener procesos seguimiento		RctrGetFollowUpProcess1ST1	
Security functions		Modeling Obtener procesos seguimiento	RctrGetFollowUpProcess1N	Global	Obtener procesos seguimiento		RctrGetFollowUpProcess1MODELEF	

The following properties of security functions are visualized as grid columns:

• Descriptive Name



- Name
- Application
- Superior Function
- License Type
- Code

Filters can be applied by the following properties:

- Name
- Descriptive Name
- Application
- Superior Function
- Edition
- License Type
- System Function
- Security Function
- Code

It is possible to perform operations on each line of the security functions grid. By clicking on the line the display of the selected security function is done, while by means of the icon 🖍 the modification is done.

3.11.2.9.2. Operations

It is possible to perform operations of show and modification from hierarchical view and from grid mode, depending on the security permissions that the connected user has defined. When hovering over each of the lines the buttons or icons with available operations are visualized, depending on the visualization mode.

Show

Opens properties panel of the selected security function. Properties are visualized as not editable and depending on the security permission of the user, the button to modify that security function is enabled.

Update

Opens properties panel of the selected security function, with those properties that can be modified as editable. The update is done by pressing the button "Accept" and the user receives a message indicating that data have been saved.

When the security function belongs to a licensed application, only the attributes that define the audits for access and audits for errors can be modified.

3.11.2.10. Security in Entities

Phase 2: Form Modeling > Advanced Tips > Entities Privacy



Security in an <u>entity</u> is related to the access the users have to the instances of such entity, through their user interface which is named <u>form</u>. An instance of an entity corresponds to a created form, that contains data in its fields.

Entities Classification According to the Security Level

Public

The only security that controls the access to a public entity is the one given by the user profile.

Private

An entity is private when in addition to the security definded in the user profile, there is one additional check per entity instance.

The verification takes into account the following concepts:

Instance Owner

Identification of the user that has access permissions to show, modify and delete the particular instance of an entity.

• Access according to Hierarchy

The access to instance data in addition to the owner, takes into account the definition of the organizational unit which the owner user belongs to. If a user belongs to a unit that has private data access properties defined, the coordinator of such unit can have any of the accesses defined for the instances of his subordinates.

• Security to Functions

Allows a user that is not an instance owner to access these instances despite being private, through security functions assigned to a permission. The user is allowed to show, modify or delete private instances.

• Access from a Process

Allows access to the instances of a form from a case even if the user does not have the necessary security functions for the form or the form has privacy defined

3.11.3. Environment

In the **Deyel** environment, a set of properties can be defined to adapt the operation of the product according to specific needs of the client.

The environment properties can be set from the menu of **Deyel**.

- From the "Configuration" option, select "Environment".
- From the <u>search</u> facility.

Each user may select the values for some properties using the facility "My Preferences".



Precedence for properties is as follows:

- Preferred value of the connected user.
- Value configured in the environment.
- Default value of the property.

Categories

The tabs at the top right define the groups into which the configurable properties are categorized.

- Installation
- <u>General</u>
- Workflow
- Portal
- Modeler
- Tedis
- <u>CRM</u>

Selecting each tab expands a menu for each category, containing options that group properties by theme.

√ → 🔁						Home	O Tasks Ci	alendara Case	s Messages	8+ Invite	.
Home Environment Cor	figuration	Search	Q	Installation General	Workflow	Portal	Model	er Tedis	CRM	Contracts] Î
Installation	Send mail Send mail										
Send mail > Mail Receipt LDAP Connection	Server identification smtp.gmail.com										
LDAP Search LDAP Synchronization JAVA	Access port										
	Using the SSL protocol Yes										
	User authentication Yes V										
	User or account to establish the connection devel.notificacion@optaris.com	0									
	Password to authenticate the user										
	Send with blind copy	● 8									
	•										
	Maximum size of attached files										¥

Configurable Properties

For each property, its descriptive name and current value are displayed, which can be modified by the user. In some cases this value can be entered and sometimes it is selected from a list of possible values.

All properties have a default value, which can be null.

When the user updates a property value, they can press the "Undo Change" button to cancel the modification. This option to undo a change is available until the "Apply Configuration" button is pressed.



This is when all the properties are stored in the repository of **Deyel** and the user is notified with a successful operation message.

When a property has a value other than the default value, the "Remove preference" button is displayed in order to change the current value to the default value.

Some properties that can be updated dynamically but in other properties the new value is applied when the environment is restarted.

Properties that require the environment to be restarted are identified by the icon \mathcal{C} .

Some properties are encrypted and their content is displayed protected. They are displayed with the icon $\stackrel{\frown}{=}$, for example user passwords.

Pressing the icon ① gives access to a detailed description of the property.

Search

The search facility can be used indicating the code, name or description of the property sought, in full or in part.

A breadcrumb is displayed on each one of the properties that indicates to which category the property belongs. This breadcrumb can be used for positioning in the indicated category.

10								Q Messages	
vironment Configuration	×port	×	Installation General	Workflow	Portal	Modeler	Tedis	CRM	Contract
istallation > Send mail									
ccess port									
587 1									
istallation > Mail Receipt									
IAP - Server access port									
993									
stallation > Mail Receipt									
DP3 - Server access port									
110 0									
ieneral > Tools									
nable registration of imported objects.									
No 🗸 🕄									
ieneral > Tools									
nable registration of exported objects									
No 🗸 3									
ortal > General									
ser portal name									
Portal Usuarios 8									
Portal Usuarios									

Java VM Properties

They are displayed by pressing the "Java VM Properties" button and correspond to the Java Virtual Machine of the application server in use, for example: IBM Websphere or Apache Tomcat. These properties cannot be updated and depend on the Java version that is being used, for example Java for Linux, Java for Windows, etc.



3.11.3.1. Installation

It allows configuring the execution environment properties of Deyel.

These are properties that establish how the product is installed and how it integrates with other software components, for example, with the email server or with an LDAP server.

Options

- Sending Mail
- <u>Receiving Mail</u>
- LDAP Connection
- LDAP Search
- LDAP Synchronization
- <u>Java</u>

k > 🕂							Home	O Taska	Calendara	Cases	O Messages	8+ Invite
Home Environment Cor	figuration	Search	Q	Installation	General	Workflow	Porta	i Mod	ieler	Tedis	CRM	Contracts
Deyel Runtime Environment	Send mail Send mail											
Send mail > Mail Receipt LDAP Connection	Server identification smtp.gmail.com											
LDAP Search LDAP Synchronization JAVA	Access port 587											
	Using the SSL protocol Yes •											
	User authentication Yes •											
	User or account to establish the connection deyel.notificacion@optaris.com	•										
	Password to authenticate the user	● 0										
	Send with blind copy											
	Maximum size of attached files											

3.11.3.1.1. Sending mail

Access to mail server and account used to send emails.

IMPORTANT.

If the **SendMailServer** property is not informed, **Deyel** does not send notifications by mail. When the property is informed, **Deyel** tries to connect to the mail server and authenticate using the indicated username and password. In this way, the administrator is assured that when configuring, access to the mail server work

In this way, the administrator is assured that when configuring, access to the mail server works correctly.

Configurable Properties



Server identification

Indicates the name or IP address of the mail server used for sending Emails. For example, your.domain.com

Name	ServerSendMail
Code	MAIL_SERVER
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	_
Dynamic	✓
Encrypted	-
Default Value	your.domain.com

Access Port

Indicates the access port to the mail server. For example, 25.

Name	PortSendMail
Code	MAIL_SERVER_PORT
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	_
Dynamic	✓
Encrypted	-
Default Value	25

Using the SSL protocol

Determines if you use SSL for sending emails (enable for Gmail or similar accounts).



Name	SSLEmail
Code	SMTP_USES_SSL
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	_
Dynamic	✓
Encrypted	-
Possible Values	YesNo (Predetermined)

User authentication

Indicates whether the mail server requires user authentication.

Name	AuthenticationSendMail
Code	MAIL_SERVER_ AUTHENTICATE
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	Yes (Predetermined)No

User or account to establish the connection

User or account with which the mail is sent.

Name	UserSendMail
Code	MAIL_SERVER_USER



Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	<u>your@user.com</u>

Password to authenticate the user

Password used to authenticate the user.

Name	PasswordSendMail
Code	MAIL_SERVER_PASSWORD
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	_
Dynamic	✓
Encrypted	✓
Default Value	

Send with blind copy

Enter the email addresses (separated by ';') to which a blind copy of each email sent by **Deyel** should be sent.

Emails sent to deliver portal access keys to users are excluded.

Name	SendWithBlindCopy
Code	BCC_ADDRESSES_FOR_OUTGOI NG_MAIL
Configuration Levels	



Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

Maximum size of attached files

Sets the maximum size in MB of the attached files in an email. If multiple files are attached, their total size cannot exceed this value. The maximum value allowed for this property is 50MB.

Name	MaximumSizeOfAttachedFiles
Code	EMAIL_ATTACHMENT_SIZE_LIMI T
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	25 Mb

Sending emails

When email sending is enabled, **Deyel** records every email in a mailing list. The scheduled task of sending emails is responsible for connecting to the server and sending each of the emails registered in the list. When sending is disabled, **Deyel** does not update the list and therefore no new emails are sent.

This property is intended to be used in development environments in which sending emails is not necessary.

Name	SendingEmails



Code	EMAIL_SENDING
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	_
• User	_
Dynamic	✓
Encrypted	-
Default Value	Yes (Predetermined)No

3.11.3.1.2. Receiving Mail

Access to mail server and account used to receive emails.

Configurable Properties

Protocol used by the incoming mail monitor to connect to the server

Name	MailReceptionProtocol
Code	MAIL_SERVER_MONITOR_PROTOCOL
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	IMAP (Predetermined)POP3

IMAP - Server Identification

Name	IMAPServerReceptionMail
Code	MAIL_SERVER_IMAP



Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	your.domain.com

IMAP - Server access port

Name	IMAPPortReceptionMail
Code	MAIL_SERVER_PORT_IMAP
Configuration Levels	
• Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	993

IMAP - Account username

Name	IMAPUserReceptionMail
Code	MAIL_SERVER_USER_IMAP
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓



Encrypted	
Default Value	

IMAP - Account User Password

Name	IMAPPasswordReceptionMail
Code	MAIL_SERVER_PASSWORD_IMAP
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	✓
Default Value	

POP3 - Server Identification

Incoming POP3 mail server identification

Name	POP3ServerReceptionMail
Code	MAIL_SERVER_POP3
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	pop.your.domain.com

POP3 - Server access port



Name	POP3PortReceptionMail
Code	MAIL_SERVER_PORT_POP3
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	YesNo (Predetermined)

POP3 - Password to authenticate the user

Name	POP3
Code	MAIL_SERVER_PASSWORD_POP3
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	✓
Default Value	

POP3 - User or account to establish connection

Name	POP3UserReceptionEmail
Code	MAIL_SERVER_USER_POP3
Configuration Levels	
Installation	✓
Application	-



Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

POP3 - Use of SSL protocol for user authentication

It determines if it uses SSL for the reception of mails (enable for accounts type Gmail or similar).

Name	POP3SSLProtocol
Code	POP3_SSL_PROTOCOL
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

3.11.3.1.3. LDAP Connection

Configuration of access to LDAP server. All properties are required to be able to activate the <u>LDAP</u> <u>authentication</u>.

Configurable Properties

URL to connect to the LDAP server

It is required in order to enable LDAP authentication. Example: Idap: // localhost: 389 /

Name	LDAPUrl
Code	LDAP_PROVIDER_URL
Configuration Levels	
Installation	✓



Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

User to connect to LDAP

Identification of the user with which Deyel accesses LDAP to make the queries. The distinguished name (DN) of that user is indicated. Example: cn

Name	LDAPUser
Code	LDAP_USER
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

Password for connection to LDAP

Name	LDAPPassword
Code	LDAP_PASSWORD
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓



Encrypted	
Default Value	

3.11.3.1.4. LDAP Search

Configuration of user search within the LDAP directory.

Sets the search subtree, the LDAP attributes that are considered search keys, and additional user selection filters.

Configurable Properties

LDAP directory root node

Sets the root node of the LDAP tree considered by **Deyel** for user search. Example: ou

Name	LDAPDirectoryRoot
Code	LDAP_ROOT_DIR
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

User search filter

Deyel uses the user code and/or alias as default search fields. This property allows to establish additional conditions to the search criteria. To enter a condition in which operators and user attributes participate. The value must be indicated according to the LDAP standard. For example: (objectClass=inetOrgPerson)

Installation	✓
Configuration Levels	
Code	LDAP_USER_FILTER
Name	LDAPUserFilter



Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

User code

Indicates the LDAP attribute whose value is mapped to the **Deyel** user code. The informed attribute must uniquely identify the user within the LDAP directory. If this property is not informed, then the user code must be entered in **Deyel**.

Name	LDAPUsercode
Code	LDAP_USER_FIELD_cdUsuario
Configuration Levels	
Installation	✓
Application	
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

User aliases

Indicates the LDAP attribute whose value is mapped to the **Deyel** user alias. The informed attribute must uniquely identify the user within the LDAP directory. There cannot be two users with the same alias. If this property is not informed, then the user alias can be entered in **Deyel**.

Name	LDAPAliasUser
Code	LDAP_USER_FIELD_dsAlias
Configuration Levels	
Installation	✓
Application	-



Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

3.11.3.1.5. LDAP Synchronization

Configuring properties of **Deyel** users that are <u>synchronized with attributes of</u> LDAP.

Configurable Properties

Surname

Indicates the LDAP attribute whose value is mapped to the **Deyel** user last name. If not informed, then the user last name must be entered in **Deyel**.

Name	LDAPSurnameUser
Code	LDAP_USER_FIELD_dsApellido
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	sn

Name

Indicates the LDAP attribute whose value is mapped to the **Deyel** user name. If not informed, then the user name must be entered in **Deyel**.

Name	LDAPUsername
Code	LDAP_USER_FIELD_dsNombre
Configuration Levels	
Installation	✓



E-mail

Indicates the LDAP attribute whose value is mapped to the **Deyel** user email. There cannot be two users with the same email. If this property is not informed, then the user email can be entered in **Deyel**.

Name	LDAPEmailUser
Code	LDAP_USER_FIELD_dsEmail
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	email

Condition

Indicates the LDAP attribute whose value is mapped to the **Deyel** user state. If not informed, then the user state can be entered in **Deyel**.

Name	LDAPUserState
Code	LDAP_USER_FIELD_dsActivo
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-



• User	-
Dynamic	✓
Encrypted	-
Default Value	

Telephone

Indicates the LDAP attribute whose value is mapped to the **Deyel** user phone. If not informed, then the user phone can be entered in **Deyel**.

Name	LDAPPhone
Code	LDAP_USER_FIELD_dsTelefono
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

Organizational Unit

Indicates the LDAP attribute whose value is mapped to the **Deyel** user organizational unit. The value must be an existing unit code in **Deyel**.

If not informed, then the user unit must be entered in **Deyel**.

Name	LDAPUnitUser
Code	LDAP_USER_FIELD_cd_oRG_Unit
Configuration Levels	
Installation	✓
Application	
Organizational Unit	_
• User	-
Dynamic	✓



Encrypted	
Default Value	

3.11.3.1.6. JAVA

Java virtual machine used by **Deyel** to compile advanced rules.

Configurable Properties

JDK Installation Directory

Used for online compilation of advanced rules.

Name	DirectoryInstalationJDK
Code	JDK_HOME
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

3.11.3.2. General

It allows configuring properties that define the general behavior of **Deyel**.

Options

- <u>Tools</u>
- Organization
- Scheduled Tasks
- Logs



ironment Co	onfiguration	Search	Q	Installation General	Workflow	Portal	Modeler	Tedis	CRM Co	ontracts
General I General Behavior	Tools Tools use									
; > nization duled Task	Enable registration of cases executed during automated tests No									
	Enable registration of imported objects.									
	Enable registration of exported objects No									
						Java VM	properties	Арр	oly Configura	tion

3.11.3.2.1. Tools

Configuring properties related to the use of **Deyel** tools.

Configurable Properties

Enable registration of cases executed during automated tests

When the automated test cases are executed, this property determines whether the information of each executed case should be saved in the User Case Execution (UEC) form.

Name	EnableCaseExecutionRegister
Code	ENABLE_STRESS
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	YesNo (Predetermined)

Enable registration of imported objects

By enabling this property, each import operation that is carried out is recorded in the Import Registration form and can be viewed in detail.



Name	ImportRegistration
Code	REGISTER_IMPORTS
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	YesNo (Predetermined)

Enable registration of exported objects

By enabling this property, each export operation that is carried out is recorded in the Export Registration form and can be viewed in detail.

Name	EnableRegisterExported Objects
Code	REGISTER_EXPORTS
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	YesNo (Predetermined)

3.11.3.2.2. Organization

Configuring properties related to the administration of the organizational structure.

Configurable Properties

Organizational unit coding type



It allows to choose the way in which the code of the organizational units is generated.

Name	TypeCodingUnits
Code	AUTOMATIC_ORG_UNIT_ID
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	ManualSemi AutomaticAutomatic (Default)

Possible Values

- Manual: Must be informed by the user.
- Semi Automatic: Can be informed by the user. If it is not informed it is coded automatically.
- Automatic The code is assigned by the **Deyel**.

3.11.3.2.3. Scheduled Tasks

These properties define the automatic start of scheduled tasks and the parameters used by specific scheduled tasks of **Deyel**.

Configurable Properties

Automatic start of scheduled tasks

Defines whether when starting the execution of **Deyel** automatically starts the execution of scheduled tasks.

When No is indicated, scheduled tasks must be started manually, by accessing the scheduled tasks monitor.

Configuration Levels	
Code	TASK_SCHEDULER
Name	HomeAutomaticProgrammedTasks



Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	Si (Predeterminado)No

Activation period for the debugger for temporary files associated with forms and cases

Activation interval (expressed in seconds) of the debugging process for files uploaded to the repository.

This is one of the system's scheduled tasks, whose execution periodicity is defined with this property.

Name	PeriodActivationDebuggerArchives
Code	CLEAN_UPLOADED_FILES_PROCESS_ PERIODICITY
Configuration Levels	
Installation	✓
• Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	18.000 (5 hours)

Minimum backup time considered by the debugger for temporary files associated with forms and cases

Minimum time (expressed in seconds) during which a file uploaded to **Deyel** cannot be deleted. Even if the file purging process detects that the file is not related to any case or form, will not be deleted until the time indicated in this property has elapsed.

Name	MinimumTime
Code	UPLOADED_FILES_MIN_TIME
Configuration Levels	



• Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	3.600 (1 hour)

3.11.3.2.4. Logs

Configures the automatic generation and debugging of log files.

Configurable Properties

Maximum execution time for SQL queries

Defines the maximum time in milliseconds that is considered allowable for an SQL query. If the execution of a query exceeds this time, the executed sentence is registered in a log file. If the defined value is 0, the query time is not controlled.

SQLMaximumQueryTime
LOG_SQL_MAX_TIME
✓
-
-
-
✓
-
100

Types of logs enabled

Establishes the types of logs that are reported in the log file. For production environments, it is recommended to use the default configuration. Values are entered separated by ";".

Name LogsTypesEnabled



Code	ENABLED_LOG_TYPES
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	 ERROR SERVLET SERVLET_TIME RULE_TIME RULE_ERROR SQL SQL_TIME CORRECT_PROCESS Predetermined Value: ERROR;SERVLET_TIME;SQL_TIME;CORREC T_PROCESS;RULE_TIME;RULE_ERROR

• ERROR

Records execution errors.

• SERVLET

Records the parameters received by all servlets.

It should be activated only when analyzing an error situation, to visualize the data transferred between the servlets.

• SERVLET_TIME

Logs execution times of servlets that exceed the defined threshold.

• RULE_TIME

Records all rules whose execution time exceeds the threshold set in the property <u>RulesTimeMaxi-mumExecution</u>.

• RULE_ERROR

Logs errors related to rules.

• SQL

Records the SQL statements together with the time that elapses when they are executed.

• SQL_TIME

Records all SQL statements whose execution time exceeds the threshold set in the property <u>SQLMaxi-mumQueryTime</u>.



• CORRECT_PROCESS

Records the results of the execution of the session pool corrector process.

Log files persistence

The generated log files are automatically deleted by the system's log purging process. This property sets the number of days that should persist, in order to delete them.

> In Cloud environments, this property must assume values greater than zero and less than 30. In On-Premise environments, a value greater than 30 days can be indicated. If the value is zero, files are never deleted.

Name	LogFilesPersistence
Code	LOG_FILES_DAYS_OLD
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	15

Log level enabled

Indicates the type of information that **Deyel** records in the log console.

Name	LogLevelEnabled
Code	LOG_DATA_LEVEL
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-



Default Value	NONE
	• ERROR
	WARNING
	INFO (Predeterminado)

NONE

No information is logged.

• ERROR Errors are logged.

• WARNING Errors and warnings are logged.

• INFO

Errors, warnings, and event information are logged.

Maximum execution time of business rules

Defines a time, expressed in milliseconds. When the execution of a business rule exceeds this threshold, input and output parameters are saved in a log file. If the defined value is 0, the execution time of the rules is not controlled.

Name	RulesTimeMaximumExecution
Code	LOG_LOGIC_MAX_TIME
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	
• User	-
Dynamic	✓
Encrypted	-
Default Value	1000

Information persistence in the logs console

The information stored in the logs console is automatically removed by the environment log console scrubbing process. This property defines the amount of hours that the information must persist, before being deleted. If the value is zero, the information is never deleted.

Name LogConsolePersistence



Code	LOG_DATA_OLD
Configuration Levels	
• Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	372

3.11.3.2.5. Content Security Policy

Additional security layer that helps prevent and mitigate some types of attacks, including Cross Site Scripting.

All configurable directives can be filled according to specification <u>https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Content-Security-Policy/Sources#sources</u>

Configurable Properties

Directive default_src

The default-src directive serves as a fallback for the other CSP directives. For each missing directive, the user agent looks up the directive and uses its value.

DirectiveDefault_Src
DEFAULT_SRC
✓
-
-
-
✓
-

Directive style_src

The directive specifies valid sources for style sheets. If this directive is absent, the user agent will look for the default-src directive. One or more sources are allowed for the style-src directive.



Name	DirectiveStyle_Src
Code	STYLE_SRC
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

Directive font_src

The directive specifies valid sources for the loaded text fonts. If this directive is absent, the user agent will look for the default-src directive. One or more sources are allowed for the font-src directive.

Name	DirectiveFont_Src
Code	FONT_SRC
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	
• User	-
Dynamic	✓
Encrypted	-
Default Value	

Directive script_src

The directive specifies valid JavaScript sources. If this directive is absent, the user agent will look for the default-src directive. One or more sources are allowed for the script-src directive.

Name	DirectiveScript_Src
Code	SCRIPT_SRC
Configuration Levels	



Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

Directive img_src

The directive specifies valid image sources. If this directive is absent, the user agent will look for the default-src directive. One or more sources are allowed for the img-src directive.

Name	DirectiveImg_Src
Code	IMG_SRC
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	data

Directive frame_src

The directive specifies valid sources for loading nested browsing contexts using elements like <frame> and <iframe>. One or more sources are allowed for the frame-src directive.

Name	DirectiveFrame_Src
Code	FRAME_SRC
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-



• User	-
Dynamic	✓
Encrypted	-
Default Value	

Directive frame_ancestors_src

The directive specifies valid sites that can embed the **Deyel** portal using <frame>, <iframe>, <object>, <embed> o <applet>. It differs from the frame-src directive as the latter specifies where iframes can be loaded from in the **Deyel** portal. One or more sources are allowed for the frame-ancestor-src directive.

Name	DirectiveFrame_ancestors_Src
Code	FRAME_ANCESTORS_SRC
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	
• User	
Dynamic	✓
Encrypted	-
Default Value	

Directive form_action_src

The directive determines the URLs that can be used from **Deyel** as destination in the <form> tags of HTML. One or more sources are allowed for the form-action-src directive.

Name	DirectiveForm_action_Src
Code	FORM_ACTION_SRC
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓



Encrypted	-
Default Value	*.google.com

Directive connect_src

The directive determines the URLs that can be loaded via script interfaces. The APIs not allowed in the directive are: <a> ping, fetch(), XMLHttpRequest, WebSocket,EventSource and Navigator.sendBeacon(). If this directive is absent, the user agent will look for the default-src directive. One or more sources are allowed for the connect-src directive.

Name	DirectiveConnect_Src
Code	CONNECT_SRC
Configuration Levels	
• Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	https://www.cloudflare.com/cdn- cgi/trace data

3.11.3.3. Workflow

It allows configuring the properties related to the workflow engine.

Options

• Notifications



/ironment Con	figuration	Search	Q Installati	on General Workflow	Portal Modeler	Tedis CRM C	ontract
How Engine Configuration	Notifications Issuance of automatic notifications						
ifications >	Notify overdue tasks, after the alert period. Yes Image: The second						
	Value of the functionMotorWorkflow()						
	Deyel						
				I	Java VM propertie:	Apply Configura	ation

3.11.3.3.1. Notifications

Configuring automatic notifications sent by the workflow engine.

Configurable Properties

Notify overdue tasks, after the alert period.

Indicates if an email should be sent for overdue or expired alerts. When the scheduled task for sending alerts runs because it detects an overdue task whose warning period has expired and which has not been previously processed, it sends an email only if this property is activated.

Name	NotificationAutomaticActionsCancelled
Code	ADDRESSES_FOR_CANCELED_ACTIVITY
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

Value of the emailWorkflow() function



When defining automated email actions or alerts, the emailWorkflow() function can be used to model the notification sender. When the mail is received, the modeled value is displayed as sender, instead of displaying the actual sender, which is the one configured in the UserSendEMail property. It may happen that some mail servers, such as Google for example, do not allow displaying a different value from the actual sender.

Name	EmailWorkflow
Code	WORKFLOW_MAIL
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	deyel@deyel.com

Value of the functionMotorWorkflow()

The functionWorkflowMotorName() returns an alphanumeric value indicating the name of the Workflow engine. It is commonly used in notification modeling. The default value is Deyel Workflow Engine, but a different value can be set if necessary.

Name	workflowEngineName
Code	WORKFLOW_NAME
Configuration Levels	
• Installation	✓
Application	-
Organizational Unit	
• User	-
Dynamic	✓
Encrypted	-
Default Value	Deyel Workflow Engine

3.11.3.4. Portal

It allows configuring properties that define the general appearance and behavior of the user portal.



Options

- <u>General</u>
- Work Session
- <u>Cases Grid</u>
- Tasks Grid
- Internationalization

wironment C	onfiguration	Search	Q	Installation General	Workflow	Portal	Modeler	Tedis	CRM	Contracts
Portal ers portal	General General appearance and conditions of use of the user portal									
eneral > fork Session rid of Cases	User portal name Portal									
ask Grid ternationalization terfaz	Maximum size for attachments 5									
	Number of lines per page when searching for forms									
	Default order for the form grid Upward									
	Default order field for the form grid Form identifier	~ 8								
						Java VM p	operties	Ар	ply Configu	ration

3.11.3.4.1. General

General appearance and use conditions of the user portal.

Configurable Properties

User portal name

Text displayed in the browser tabs, preceding the user data. For example, **Deyel** or Deyel Portal. It allows to quickly identify the browser tabs that are accessing the portal.

Name	PortalName
Code	SYSTEM_NAME
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	_
Dynamic	✓



Encrypted	
Default Value	Portal

Maximum file size stored in database

When the user attaches files to the system, either as form fields or as documents attached to a case, their size is controlled not to exceed the limit established in this property. A number is indicated, expressed in MB, which must be between 0 and 20.

Name	UploadDocumentsMaximumSize
Code	MAX_UPLOAD_SIZE
Configuration Levels	
Installation	✓
• Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	
Default Value	5

Number of lines per page in form search

Sets the number of lines per page when form instances are shown.

Name	SearchFormsQuantityLinesPerPage
Code	DEFAULT_PAGE_SIZE
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	13



Default order for forms grid

Allows to define the default order for the forms grid.

Name	OrderForms
Code	BROWSE_FORM_ORDER
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	 Apward Descending (Default)

Default order field for the forms grid

Allows to define the field used for the default order of the forms grid.

Name	FieldOrderForms
Code	BROWSE_FORMS_ORDER_FIELD
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	
Possible Values	Creation Date (Default).Last modification.Form identifier.

Connection monitor



Activate the connection monitor. This property is configured from the user preferences.

Name	ConnectionMonitor
Code	CONNECTION_MONITOR
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	YesNo (Predetermined)

Maximum file size stored in AWS S3

When the user uploads files to Amazon S3 repository, either as form fields, in Tedis conversations, or as documents attached to a case or form, the size of the file should be checked not to exceed the limit established in this property.

A number expressed in MB is indicated. The maximum value is 5000MB.

Name	MaximumUploadSizeForFilesInAmazonS3
Code	MAX_UPLOAD_SIZE_AS3
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	500

Expiration time for Amazon S3 pre-signed URL

When the user uploads or downloads files from the Amazon S3 repository, pre-signed links are generated with an expiration time set in this property.



A number expressed in seconds is indicated. The maximum value is 21600.(6 hours).

Name	ExpirationTimeForAma- zonS3PreSignedUrl
Code	PRESIGNED_EXPIRATION_AS3
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	10

Maximum file size to process in the environment

When files from the Amazon S3 repository are processed within the server, either to be used in a rule or downloaded from the file download endpoint, the size of the files should be checked not to exceed the limit set in this property.

A number expressed in MB is indicated. The maximum value is 25.

Name	MaximumFileSizeInAma- zonS3ToBeProcessedInTheEnvironment
Code	MAX_PROGRAMATIC_SIZE_AS3
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	
Dynamic	✓
Encrypted	-
Default Value	10

3.11.3.4.2. Work Session

Work session characteristics.



Configurable Properties

Authentication type

Defines the <u>authentication method</u> used by **Deyel**.

Name	AuthenticationType
Code	TP_AUTHENTICATION_LOGIN
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	 <u>Native</u> (Predetermined) <u>LDAP</u> <u>Google</u> <u>Personalized</u> <u>Federated IDM</u> <u>Mixed</u> <u>Azure AD</u>

Maximum inactivity time

Maximum inactivity time, expressed in minutes, to keep the user session active in the browser. If that time is exceeded, the session expires and the user has to access the portal again. The value -1 must be indicated so that the session does not expire.

Name	MaximumIdleTime
Code	MAX_SESSION_INACTIVITY_TIME
Configuration Levels	
Installation	✓
Application	
Organizational Unit	_
• User	
Dynamic	✓



Encrypted	-
Possible Values	-1 (Default), indicates that sessions do not expire due to inactivity.
	It may contain numeric values that repre- sent a number of minutes.

Allow multiple user sessions with the same browser

When this property is enabled, it is possible to maintain multiple work sessions, with different users, within the same browser.

Name	AllowMultipleSessions
Code	ALLOW_MULTISESSION
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	YesNo (Predetermined)

Mixed authentication method

These properties are used to configure the mixed authentication mechanism. They establish which authentication methods are enabled and the order in which they should be used.

There are 3 properties that work in a similar way:

- First mixed authentication method
- Second mixed authentication method
- Third mixed authentication method

Name	AuthenticationMixta1 AuthenticationMixta2 AuthenticationMixta3
Code	AUTHENTICATION_MIXTA_1 AUTHENTICATION_MIXTA_2 AUTHENTICATION_MIXTA_3



Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	 Native LDAP Google Personalized Federated IDM Azure AD

When configuring the use of mixed authentication, the following should be validated:

- At least one of these properties is indicated.
- There are no repetitions in the established values.
- If any property assumes the value:

"IDM Federated", the adapter "IDMAuthorizationCode" is validated as published.

"LDAP", all LDAP related properties are validated.

LDAP - Server Connection LDAP - User Search LDAP - Attribute Synchronization

"Google", all Google related properties are validated.

"Customized", all properties related to custom authentication are validated.

"Azure AD", the "Azure AD" adapter is validated as published.

Configuration can only be applied when all validations are correct.

Google authentication - OAuth Credentials - Client identification

To use Google's authentication services, **Deyel** must present credentials that identify it as an OAuth 2.0 client.

This property sets the Client ID, which is part of those credentials.

It can only be configured in On-Premise environments



Name	GoogleClientID
Code	GOOGLE_CLIENT_ID
Configuration Levels	
• Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	✓
Default Value	

Google authentication - OAuth credentials - Client Secret

To use Google's authentication services, **Deyel** must present credentials that identify it as an OAuth 2.0 client.

This property sets the Client Secret, which is part of those credentials.

It can only be configured in On-Premise environments

Name	GoogleClientSecret
Code	GOOGLE_CLIENT_SECRET
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	
Dynamic	✓
Encrypted	✓
Default Value	

Custom authentication

Name of the rule defined to run Custom authentication.



Name	CustomAuthentication
Code	CUSTOM_AUTHENTICATION
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Default Value	

The existence of the rule is validated by configuring the type of custom or mixed authentication that contains it.

If the rule exists, it is validated to have the required input and output parameters.

Authorized domains to send user invitations

The email addresses to which invitations are sent must belong to one of the domains reported in this property. Several domains can be indicated, separated by semicolons. For example: 'mycompany.com ; optis.com'. If no value is reported, then invitations can be sent to any email address.

Name	AuthorizedDomains
Code	AUTHORIZED_DOMAINS
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	They must be valid domain names. They can be separated by semicolons.

Require password change



When a user uses 'Forgot your password' and logs in for the first time with the assigned password, **Deyel** may require a password change depending on the value of this property:

Not Required - Deyel allows the user to continue using the assigned password.

Optional - The password change screen is presented prompting the user to update it. You can do so or indicate that you keep the assigned password.

Required - The user is forced to change the password in order to continue.

Name	RequireChangePassword
Code	PASSWORD_CHANGE
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	✓
Possible Values	Not Required (Default)OptionalRequired

Maximum duration of user session

Maximum duration of user session, expressed in minutes. If that time is exceeded, the session expires and the user has to log in again. By indicating the value -1 the sessions do not expire.

Name	MaximumSessionDuration
Code	MAX_SESSION_EXPIRATION_TIME
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-



Possible Values	-1 (Default), indicates that sessions do not expire for a maximum time.
	It may contain numeric values that repre- sent a number of minutes.

Maximum number of simultaneous sessions per user

Allows to limit the number of simultaneous sessions that a user can have active. Indicating the value -1 the number of sessions is unlimited.

Name	NumberofSimultaneousSessions
Code	MAX_SESSIONS_BY_USER
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	-1 (Default), indicates that the number of simultaneous sessions is unlimited.

Maximum number of failed logins

Sets the maximum allowable number of failed authentications due to incorrect passwords. When the user exceeds this number of consecutive failed attempts, their account becomes inactive. If the value - 1 is set, there is no limitation on the number of failed logins.

This control only applies when using the <u>native authentication</u> mechanism, in which **Deyel** is responsible for verifying the user's password.

Name	MaximumAmountOfFailedAccesses
Code	INVALID_PASS_ATTEMPTS
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	



Dynamic	✓
Encrypted	-
Possible Values	-1 (Default), indicates that there is no limitation on the number of failed logins.

Maximum user locked time

The account locking by number of failed logins is set for a maximum period of time, indicated in minutes, in this property. After that time, the user will be able to access again, if they enter correctly with their password.

If -1 is indicated then the account remains locked indefinitely until one of the planned unlocking mechanisms is executed:

- The security administrator activates the account again.
- The user receives an email with a link that allows them to activate their account again.

Name	MaximumUserLockoutTime
Code	MAX_USER_BLOQUED_TIME
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	
• User	-
Dynamic	✓
Encrypted	-
Possible Values	-1 (Default), indicates that the account remains blocked.

Two-Step Authentication

When using Native or Custom authentication, it is possible to enable two-step authentication. This property sets the desired behavior.

Name	TwoFactorAuthentication
Code	2FA
Configuration Levels	
Installation	✓



Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	 Optional (Default) Required Not Enabled

3.11.3.4.3. Cases Grid

Set of properties that allow defining the columns that are initially displayed in the cases grid.

All of them have the following general characteristics.

Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-
Possible Value	Yes (Predetermined)No

Configurable Properties

Process name

Name	GridCaseProcess
Code	SHOW_PROCESS_CASES

Case description

Name GridCaseDescription



Code	SHOW_DESCRIPTION_CASES

Chat

Visualizar acceso a la conversación asociada al caso.

Name	GridCaseChat
Code	SHOW_CHAT_CASES

Name of the current activity

Name	GridCaseActivity
Code	SHOW_ACTIVITY_CASES

Case start date

Name	GridCaseHome
Code	SHOW_BEGIN_CASES

Responsible for current activity

Name	GridCaseResponsible
Code	SHOW_RESPONSIBLE_CASES

Expiration of the current activity

Name	GridCaseExpiration
Code	SHOW_EXPIRED_CASES

Case priority

Name	GridCasePriority
Code	SHOW_PRIORITY_CASES

Case completion



Fecha de finalización del caso.

Name	GridCaseEnd
Code	SHOW_ENDED_CASES

Start of current activity

Name	GridCaseHomeActivity
Code	SHOW_BEGINACT_CASES

Case status

Name	GridCaseState
Code	SHOW_STATE_CASES

Case identification

Name	GridCaseCase
Code	SHOW_CASE_CASES

3.11.3.4.4. Tasks Grid

Set of properties that allow defining the columns that are initially displayed in the tasks grid.

All of them have the following general characteristics.

Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-
Possible Value	Yes (Predetermined)No

Configurable Properties



Case identification

Name	GridTasksCase
Code	SHOW_CASE_TODOLIST

Process name

Name	GridTasksProcess
Code	SHOW_PROCESS_TODOLIST

Case description

Name	GridTasksDescriptionCase
Code	SHOW_DESCRIPTION_TODOLIST

Chat

Visualizar acceso a la conversación asociada al caso.

Name	GridTasksChat
Code	SHOW_CHAT_TODOLIST

Name of the homework

Name	GridTasksName
Code	SHOW_ACTIVITY_TODOLIST

Task start

Name	GridTasksHome
Code	SHOW_BEGIN_TODOLIST

Responsible for the task

Name	GridTasksResponsible
------	----------------------



Code	SHOW_RESPONSIBLE_TODOLIST

Task due

Name	GridTasksExpiration
Code	SHOW_EXPIRED_TODOLIST

Task priority

Name	GridTasksPriority
Code	SHOW_PRIORITY_TODOLIST

3.11.3.4.5. Internationalization

Properties that allow configuring the language and numeric fields or date formats that are most appropriate for you.

Configurable Properties

Deyel Language

Sets the language used by the Deyel platform tools. For example, user portal, modelers, etc.

Name	Language
Code	BTRB.Locale.language
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	_
• User	-
Dynamic	✓
Encrypted	-
Possible Values	Spanish (Default)EnglishPortuguese



Decimal Symbol - Editing Numeric Values

Indicates the symbol that separates the integer part from the decimal part for output format. For example: 10.99.

This property must be informed so that the numerical values can be displayed correctly.

Name	Decimal Symbol - Editing Numeric Va- lues
Code	DECIMAL_CHARACTER_SEPARATOR_IN
Configuration Levels	
Installation	✓
Application	✓
Organizational Unit	
• User	✓
Dynamic	✓
Encrypted	-
Possible Values	, (Predetermined)
	•

Thousands Symbol - Editing Numeric Values

Indicates the symbol that separates groups of thousands (1,000, 1,000,000, etc.) for input format. For example: 999,999.

The field value can be entered without typing a thousands separator, but if a separator is typed, must be the one specified in this property.

Name	Thousands Symbol - Editing Numeric Values
Code	THOUSANDS_CHARACTER_SEPARATOR_ IN
Configuration Levels	
Installation	✓
Application	✓
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-



Possible Values	,	
	. (Predetermined)	

Decimal Symbol - Display of numerical values

Indicates the symbol that separates the integer part from the decimal part for output format. For example: 10.99.

This property must be reported so that the numeric values can be displayed correctly.

Name	Decimal Symbol - Display of numerical values
Code	DECIMAL_CHARACTER_SEPARATOR_OUT
Configuration Levels	
Installation	✓
Application	✓
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-
Possible Values	, (Predetermined)

Thousands symbol - Display of numerical values

Indicates the symbol that separates groups of thousands (1,000, 1,000,000, etc.) for output format. For example: 999,999.

This property must be informed so that the numerical values can be displayed correctly.

• User	
Organizational Unit	-
Application	✓
Installation	✓
Configuration Levels	
Code	THOUSANDS_CHARACTER_SEPARATOR_ OUT
Name	Thousands symbol - Display of numerical values



Dynamic	✓
Encrypted	-
Possible Values	, . (Predetermined)

3.11.3.4.6. Interface

Set of properties that allow to configure the user interface.

Configurable Properties

Theme

Defines the theme used by the users portal.

Name	Theme
Code	THEME_DIR
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	 Red Green Blue White (Default) White y Green

Show tour modal

Show tour modal on login.

Name	ShowModalTour
Code	MODAL_TOUR_ENABLED
Configuration Levels	
Installation	✓



Application	-
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-
Possible Values	Yes (Default)No

Menu initial state

Initial state of the menu when the user enters the portal.

Name	estadoInicialMenu
Code	INITIAL_MENU_STATUS
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	✓
Dynamic	-
Encrypted	-
Possible Values	ExpandedCollapsed (Default)

3.11.3.5. Modeler

It allows configuring properties related to the modelers of **Deyel**.

Options

- Processes Modeler
- Applications Modeler



vironment Co	nfiguration	Search	Q	Installation	General Work	flow Por	tal Modeler	Tedis	CRM	Contracts
Modeler el Shaper	Process Modeler Usage preferences for the Process Modeler									
cess Modeler >	Show identifiers for symbols No									
	Grid size									
	View Minimap Yes V									
	View validations on figures Yes									
						Jav	a VM properties	A	opply Config	uration

3.11.3.5.1. Processes Modeler

Usage preferences for the process modeler.

Configurable Properties

Show identifiers for symbols

Activating this property, its unique identifier is displayed along with the name of each symbol.

Name	Showldentifiers
Code	SHOW_IDS
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-
Possible Values	YesNo (Predetermined)

Grid size

Number of pixels used to move symbols on the diagram.



Name	GridSize
Code	GRID_SIZE
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	
Possible Values	 1 (Predetermined) 10 20

View Minimap

View the minimap in the lower right of the modeling area.

Name	ViewMinimap
Code	SHOW_MINIMAP
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-
Possible Values	Yes (Predetermined)No

View validations on figures

Displays the exclamation point on the figures that have validation errors.

Name	ValidationsOnFigures
Code	INLINE_VALIDATIONS



Configuration Levels	
Installation	✓
Application	
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-
Possible Values	Yes (Predetermined)No

3.11.3.5.2. Applications Modeler

Usage preferences for the applications modeler.

Configurable Properties

Building Environment

Allows to update the path to the environment that executes the build service of a mobile application.

Name	BuildingEnvironment
Code	APPBUILDER_ENV
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	 https://appbuilder.deyel.com/ https://appbuilderdev.deyel.com/

Add KeyStore

Allows to update the Android KeyStore file defined in base64 format.

Name

AddKeystore



Code	KEYSTORE
Configuration Levels	
Installation	✓
Application	
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	File in user-defined Base64 format.

KeyStore Password

Allows to update the password in order to sign the application within the KeyStore.

Name	KeystorePassword
Code	KEYSTORE_PASSWORD
Configuration Levels	
• Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	User-defined text.

KeyStore Alias

Allows to update the alias associated with the KeyStore.

Name	KeystoreAlias
Code	KEYSTORE_ALIAS
Configuration Levels	
Installation	✓
Application	



Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	User-defined text.

Store Password

Allows to update the password that enables the use of the KeyStore file.

Name	StorePassword
Code	STORE_PASSWORD
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	User-defined text.

Google Service Android

Allows to update the configuration file for Google services on Android defined in base64 format.

Name	GoogleServiceAndroid
Code	GOOGLE_SERVICE_ANDROID
Configuration Levels	
• Installation	✓
Application	-
Organizational Unit	
• User	-
Dynamic	✓
Encrypted	-



Possible Value	File in user-defined Base64 format.

Apple ID

Allows to update the Apple identifier associated with the developer account.

Name	AppleID
Code	APPLE_ID
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	
• User	-
Dynamic	✓
Encrypted	-
Possible Value	File in user-defined Base64 format.

Apple Team Identifier

Allows to update the team identifier associated with the Apple developer account.

Name	AppleTeam
Code	APPLE_TEAM
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	User-defined text.

Password for Apple Services

Allows to update the password to use Apple services.



Name	AppleServicesPassword
Code	APPLE_SERVICES_PASSWORD
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	User-defined text.

Google Service iOS

Allows to update the password to use Apple services.

Name	GoogleServiceiOS
Code	GOOGLE_SERVICE_IOS
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	File in user-defined Base64 format.

Apple Certificate

Allows to update the Apple certificate file with p12 extension in base64 format.

Name	AppleCertificate
Code	CERTIFICATE
Configuration Levels	



Installation	✓
• Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	File in user-defined Base64 format.

Certificate Password

Allows to update the password associated with the Apple certificate.

Name	CertificatePassword
Code	CERTIFICATE_PASSWORD
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Value	User-defined text.

Provisioning Profile

Allows to update the Apple provisioning profile file with mobileprovision extension in base64 format.

Name	ProvisioningProfile
Code	PROVISIONING_PROFILE
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	
• User	-



Dynamic	✓
Encrypted	-
Possible Value	File in user-defined Base64 format.

3.11.3.6. Tedis

It allows configuring properties that define the appearance and behavior of Tedis Business Social Networking.

Options

- <u>General</u>
- <u>Notifications</u>

· · +						Home T	Fasks Calendari	Cases	O Messages	8+ Invite
nvironment Cor	nfiguration	Search	Q	Installation Gene	eral Workflow	Portal	Modeler	Tedis	CRM	Contracts
Tedis se of the Business Social etwork - Tedis	General General appearance of conversations									
eneral > otifications	Conversation display size Reduced V									
						Java VI	M properties	Aŗ	oply Config	uration

3.11.3.6.1. General

General appearance of conversations in Tedis.

Configurable Properties

Conversation display size

Initial size of conversations. Each of them can be initially displayed in a reduced or expanded window.

Name	SizeConversations
Code	INITIAL_CONV_SIZE
Configuration Levels	



Installation	✓
Application	-
Organizational Unit	-
• User	-
Dynamic	✓
Encrypted	-
Possible Values	Reduced (Default)Expanded

3.11.3.6.2. Notifications

Sending automatic notifications from Tedis.

Configurable Properties

Notification of new messages

Receive a notification when a new message is received.

Name	NotificationNewMessages
Code	ALERT_ON_NEW_MESSAGE
Configuration Levels	
Installation	✓
Application	-
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-
Possible Values	Yes (Predetermined)No

Notification of connected users

Receive a notification when a user connects to the portal.

Name	NotificationUsersConnected
------	----------------------------



Code	ALERT_USER_ONLINE
Configuration Levels	
Installation	✓
• Application	-
Organizational Unit	-
• User	✓
Dynamic	✓
Encrypted	-
Possible Values	Yes (Predetermined)No

3.11.3.7. CRM

It allows configuring properties that define specific behaviors and use preferences of the CRM solution.

Options

• Budgets

ome Invironment Co	nfiguration	Search	Q Installation General	Home Calenda	rs Cases Messages Invite
CRM Preference Settings	Budgets Budget form setup				
Budgets >	Budget numbering Manual				
	Budget numbering rule				
				Java VM properties	Apply Configuration

3.11.3.7.1. Budgets

Configuring the CRM Quote form.

Configurable Properties



Budget numbering

It allows to choose the way in which the budget numbering is generated.

Name	NumberingQuote
Code	QUOTE_NUMBER
Configuration Levels	
Installation	✓
Application	
Organizational Unit	-
• User	✓
Dynamic	-
Encrypted	
Possible Values	Manual (Default)AutomaticRule

Possible Values

Manual

Must be informed by the user.

- Automatic
- Numbering is auto-increment

• Rule

Numbering is obtained from the rule entered in the Budget numbering rule property.

3.11.4. Value Lists

The "Value Lists" option of the menu allows application users to administrate the lists values, if they have the corresponding <u>permissions</u> assigned.

The names of the value lists in the different applications are displayed.



Jegel	<	+		Home	O Tasks	
	٩	Value List				
lysis	~	Search Q				
		Contacts Status				
	~	Industries				
ion	^	Origins				
		Address Type				
	~	Contacts Type	<			
	~	Countries		ect a lis ministr		
efinition		Contacts Type				
ent		Currency				
es		Entities				
ize Login						
Lists						

Allows to filter values from the list based on the characters entered. If a list is very long it helps users to easily visualize the desired values.

ϟ deģeL	<	•			Home	O Tasks	Calendars	Cases	0 Messages	8+ Invite	۹.
Search	٩	Value List									
BAM and Analysis	~	Media ×									
📴 Reports		Media									
Configuration	^										
Organization											
Security	~		<								
Location				to Adm	t a list inistra						
Calendar Definition											
Environment											
Consoles											
Customize Login											
Tools											
Value Lists											I

When selecting a value list, the values of the selected list are displayed in the right panel, thus making it possible to search, enter, delete and restore their values.

These updates are reflected in the value lists used:

- In the execution of forms from the user portal.
- In the forms modeler.
- In the value lists modeler.



ϟ degel	۲	•		Ĺ	∆ ome	O	rs Cases	Q Messages	8+ Invite	
Search	٩	Value List	N	Лedia		Search		Q 7	± :	
BAM and Analysis	Ŷ	Media X		Media (English) Enter new value				Ad	d to the list	7
📑 Reports		Media		₩ AP						
Configuration	^			Newspaper						
Organization				Magazine				Ð	ā >	
Security			<	Internet				0		
Location										
Calendar Definition										
Environment										
Consoles										
Customize Login										
Tools										
Value Lists										

÷

It allows to export the value list in an Excel file. This file contains the following columns:

- CODE: Internal code of the list values.
- VALUE: Contains the list values if the Internationalize property is not active.
- ORDER
- DELETED: Indicates if it has low logic.
- FILTER_CODE: Contains the code that establishes the correspondence between the value of the list being downloaded and the list that <u>filters</u> it.

If the <u>lcons</u> property is active, values are reported in the following columns:

- ICON_COLOR
- ICON

If the Internationalize property is active, values are reported in the following columns:

- VALUE SP-AR: Contains the values of the list in Spanish.
- VALUE EN-US: Contains the values of the list in English.
- VALUE PT-BR: Contains the values of the list in Portuguese.

1

It allows to import a value list from an Excel file. A panel opens where the location and name of the same is selected.

It enables an option that allows displaying the internal code of the list values. If the <u>Internationa-</u> <u>lize</u> property is active, this enables the available languages for which the translation of the values can be entered.

Conditions for Export and Import

• The download file format must be respected.



- New values must have a blank Code column.
- Blank rows must be ignored.
- Partial downloading and uploading of values is not allowed.

Operations on Values

- Allows adding each entered value to the list of values.
- It is displayed if the list has the <u>lcons property</u> modeled. It allows to associate icons to the list values.
- Double click: Allows to modify a value in the list.
- Move: Allows to change the position of a value within the list by dragging the value with the mouse.

Hovering the cursor over each of the values entered, a set of icons is displayed and this allows to perform different operations.

- Allows to delete a value from the list of values. Once deleted, it is displayed in gray and crossed out.
- Allows to restore a previously deleted value.

Display the Selected Line

- > Hides the icons that are displayed.
- Shows hidden icons.

Internationalization of Values

Using internationalized value lists enables to load their values in the different available languages, so that users with different language preferences configured can see list values in their own language.

If the value list has the <u>Internationalize</u> property active, the language configured for the user is displayed in the header of the list. For each <u>language selected from the icon</u> **i** a new column is added.

The user can load the corresponding translation for each value.

Removing the check mark of a language deletes the column corresponding to that language.

For each available language, a new column is added to the Excel file, which is used to import or export the list values.

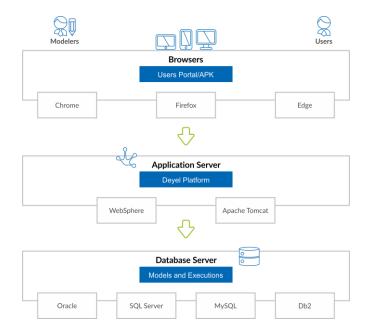


🕹 degel	۲	+					tome Case Calendars Case	s Messages Invite
Search	٩	Value List		C	Colors		Search	Q ± ± :
III BAM and Analysis	~	colors	×		Colors (English)	Spanish	Portuguese	Show code
		Colors			Enter new value	Enter new value	Enter new value	 Portuguese
Reports					- Blue	Azul	Azul	
Configuration	^				- Red	Rojo	Vermelho	
Organization					- Yellow	Amarillo	Amarelo	
Security	~							
Location								
Calendar Definition								
Environment								
Consoles								
Customize Login								
Tools								
Value Lists								

Once the internationalization has been modeled, it is suggested to load values to the list in all the selected languages.

3.12. Requirements

The following are the software requirements for the use and installation of **Deyel**.



Workstations (Cloud and On-Premise Modality)



HARDWARE	RAM	a minimum of 4 GB
	Screen resolution	End user: a minimum of 1024x768Modeler: a minimum of 1920x1080
SOFTWARE	Browser	 Chrome, a minimum of 79.0 Edge Chromium, a minimum of 79.0 Firefox, a minimum of 74.0 Safari 13.1.3 and 14.1.2 (Only for User Portal)

It is advisable to keep browser versions up-to-date, since security vulnerabilities are regularly corrected.

Application Server (On-Premise Modality)

HARDWARE	RAM	a minimum of 6 GB
	HD	a minimum of 5 GB free space.
	Processor	64-bit / 2 cores / at least 2.4GHz
SOFTWARE	Web Service	 WebSphere 8 / WebSphere 9 Apache Tomcat 8 / Apache Tomcat 9
	Java	Java 11

Database Server (On-Premise Modality)

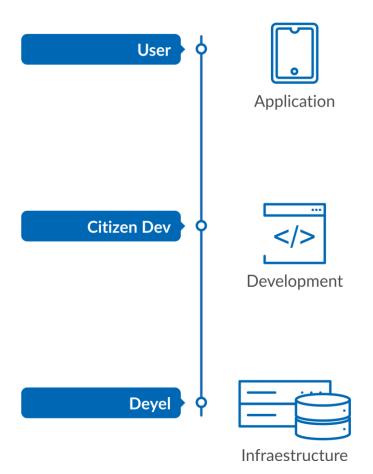
HARDWARE	RAM	a minimum of 4 GB
	HD	a minimum of 10 GB free space
	Processor	64-bit / 2 cores / a minimum of 2.4GHz
SOFTWARE	Database	 Mysql 5.7 DB2 9.5 or DB2 10.5 Sql Server 2012 Oracle 12c release 12.2

3.13. Cloud Service Operation



Deyel Cloud allows to develop, test, deploy, and execute web and mobile applications without worrying about the operational aspects of the platform technology.

Modeled and deployed applications are hosted directly on cloud infrastructure provided by **Deyel** Cloud.



The different features of Deyel Cloud installation are described below.

- Backups
- Disaster Recovery Plan (DRP)
- <u>Types of Deployments</u>

3.13.1. Backups

All the information and all the files uploaded in the applications and modeled objects are considered as data in the environment of **Deyel** Cloud. These data can be uploaded into the environment through the applications modeling, the use of both web and mobile applications, from massive imports, through advanced rules using the SDK or from the integration API.

The uploaded data is stored in an AWS Aurora MySQL service database and in a file repository hosted on the AWS S3 service.



Retention Period

The **Deyel** Cloud service performs a daily backup of the environment data for the last 7 days and a monthly backup for the last 3 months. These backups are performed daily at 3:00 am UTC.

Additionally, a backup copy of the environment data can be requested, recovering the information at a given time within the last 24 hours.

The generated backups are stored in an AWS S3 repository that is highly available, encrypted, and data redundant in more than one availability zone. This information is encrypted using AES 256.

Download

To obtain a backup, the complete database and stored files must be downloaded. The database downloading can be done from the daily automatic backup or from a backup generated at a given moment in time.

For the files uploaded to the environment, a compressed file is generated with all the files from the previous day, in this way the files can be downloaded for each working day. If required, the complete download of all existing files can be performed.

Depending on the type of plan contracted, a longer retention period can be modified and the number of daily downloads increased.

Restore

To restore the information from the database, the operation must be done on a Mysql database as described in the first step of the On Premise Installation.

3.13.2. Disaster Recovery Plan (DRP)

It is essential for a company to guarantee business continuity. To do so, it needs a robust disaster recovery plan that allows it to remain operational in the face of natural disaster or malicious attacks.

The Deyel Cloud infrastructure on AWS mainly bases its DRP strategy on the advantages offered by the AWS services on which it is mounted.

The two main axes of these advantages are the use of regions, availability zones and data centers distributed around the world, and the configuration of the services used to make use of this global infrastructure..

Use of AWS Regions, Availability Zones, and Data Centers

The Deyel Cloud infrastructure is based on AWS regions and availability zones.



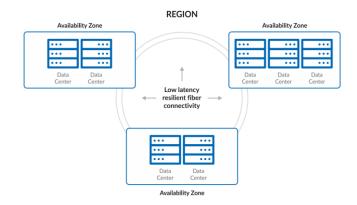
An AWS Region is a physical location in the world, which has multiple Availability Zones. These zones have one or more data centers, each with redundant power, networks and connectivity, housed in separate facilities.

These availability zones provide the ability to operate highly available, fault-tolerant, and scalable database and production applications. AWS has more than 60 availability zones and more than 20 geographic regions around the world.



https://www.infrastructure.aws/

Each AWS region is designed to be completely isolated from the other regions. This allows for greater fault tolerance and stability. Each availability zone is isolated, even though they are connected through low-latency links.



Each availability zone is designed as a separate fault zone, meaning that availability zones are physically separated within a typical metropolitan region and located on low-risk flood plains.

They also have uninterruptible power supplies (UPS) and onsite backups. Availability zones are connected with high-speed links (tier-1).

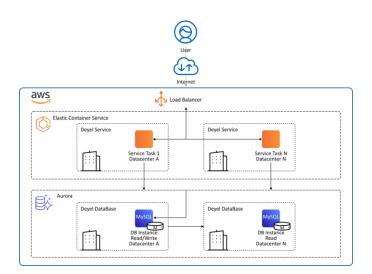


Configuration of AWS Services Used by Deyel Cloud to Use the Global Infrastructure

AWS services used in Deyel Cloud infrastructure are configured to use regions and availability zones.

Main Components of Deyel Cloud Infrastructure

The main components of Deyel Cloud infrastructure and how the AWS services that support them are configured are detailed below.



• Application data

Application data is stored in Amazon Relational Database (RDS) service Aurora clusters. These clusters are configured with read/write and read instances in different availability zones, which can be immediately swapped in the event of a failover.

To create backups, use the multiAZ option.

• Execution of applications

Applications are executed on AWS Elastic Container Service (ECS) clusters with EC2 instances distributed across availability zones, with autoscaling. Applications are executed on ECS services and can be multitask distributed across EC2 instances in different availability zones.

Clusters used by the Deyel Cloud infrastructure can be created in any AWS region globally in a matter of seconds.

• Critical infrastructure files replicated among regions.

All the files necessary for assembly and creation infrastructure and for a disaster recovery are stored with AWS S3 and Amazon ECR service, using replication among regions.

• Infrastructure as code (IaC)

The infrastructure and resources necessary for the execution of **Deyel** on AWS are created using the AWS CloudFormation service. Using this service complies with the good practices of standardizing infrastructure components and allows fast troubleshooting.

It provides applications resources in a safe and repeatable way, allowing you to create and recreate infrastructure and applications, without having to perform manual actions or write custom scripts.



Through this service, the Deyel Cloud infrastructure and its applications can be implemented in any AWS region globally.

RPO, RTO and failure events for Standard and Enterprise Editions

Tasks and database with their replica are in different availability zones (in one or more data centers) within a region.

Failure Event	Action	RPO	RTO
The server executing the appli- cation goes out of service. Example: hardware failure, motherboard, fonts, disks, etc.	If there are multiple application tasks, the load is shifted to the rest of the tasks. In all cases, an identical task is au- tomatically started on another server in the same data center.	0	In the Enterprise edition the RTO is 0. In the Standard edition the RTO is less than 90 seconds.
The data center that contains the servers executing the appli- cation goes out of service ser- vice. Example: catastrophe in the data center city.	If there are multiple application tasks, the load is shifted to the rest of the tasks. In all cases, an identical task is au- tomatically started on another server in the same data center.	0	In the Enterprise edition the RTO is 0. In the Standard edition the RTO is less than 90 seconds.
The server executing the data- base goes out of service. Example: hardware failure, motherboard, fonts, disks, etc.	The read-only instance is automatically converted to R/W.	0	In both editions the RTO is less than 90 seconds.
The R/W database goes out of service (structure breaks, engine problems).	The read-only instance is automatically converted to R/W.	0	In both editions the RTO is less than 90 seconds.

Read Replica Instance in a Region Different from the Main One

The read replica instance in a region different from the main one is another option for higher availability and fault tolerance.

When considering catastrophes of global magnitude where an entire region may stop operating, clusters are generated through the AWS CloudFormation service in another region while maintaining use



of the interregional database, achieving an active synchronization and a higher fault tolerance based on a better geographic dispersion.

The minimum essential RTO is 3 hours, although customer verification tasks are recommended before enabling the use of the platform again, which can raise the overall RTO.

As an example, to do lists for these cases are detailed.

Tasks	RTO < 8 hours
Assessing the situation, verification of the non-operating regions whe- re the platform was operating.	2hs
Generating the platform infrastructure in the third region.	Less than 30 minutes
Configuring the new infrastructure with the operational database in this region.	Less than 30 minutes
Customer verification of the platform.	Recommended. 3hs

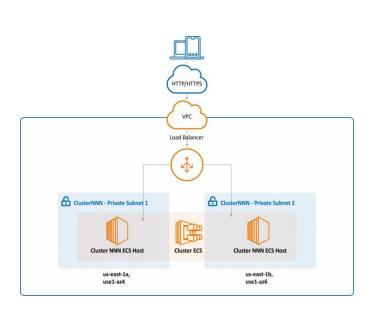
3.13.3. Types of Deployments

Deyel has several options to connect with the services of each company, which resolve the access mode to the service, based on security requirements. Each of these options is detailed below.

Web Access

Standard access to Deyel Cloud using the https protocol allowing access from any client connected to the Internet.





Access with Own Domain

To access **Deyel** a web address (url) is used for each environment, in the case of the productive environment this url can be defined with their own domain.

The access must be secure, therefore it is necessary to have an https certificate to perform this configuration.

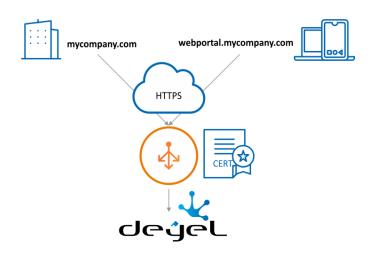
Such configuration requires tasks from the domain owner and **Deyel** technical team.

The tasks to be performed by the domain owner are:

- Register their domain and configure its route to Deyel Cloud server.
- Acquire a Single Domain or Wildcard type SSL certificate (TLS1.2) and provide it to **Deyel** technical team to access by the https protocol.

The tasks to be performed by **Deyel** technical team are:

- Install the SSL certificate on the load balancer of Deyel Cloud server.
- Deliver the load balancer data to the user so that they can be configured in their domain.





Access to two Applications

Optaris https://myportal.deyel.com https://myportal.deyel.com/myapp1 https://myportal.deyel.com/myapp2				wyapp1 myapp2
Customer				
https://mycompany.com	https://myapp1.m	ycompany.cor	m	https://myapp2.mycompany.com

Private Cloud

Configuration Private Connections (VPN) to Access Web Services

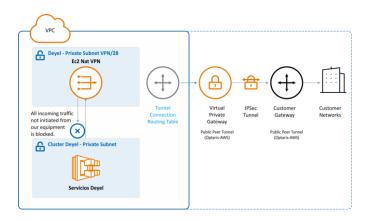
Deyel Cloud allows to establish "site-to-site" VPN connections to access from **Deyel** to web services located on customer's private network servers.

The VPN service includes initial configuration, connectivity testing and technical support.

To use the VPN service, the customer needs a compatible VPN device located at their corporate premises, with an assigned public IP (IPv4) address and with the capabilities to be configured using the IPsec protocol.

Deyel uses the AWS Virtual Private Gateway service to establish IpSec tunnels with its clients and thus enable access to its web services, for example by performing integrations when using a Rest API.

This service establishes a "site-to-site" tunnel between the client and **Deyel** AWS Virtual Private Gateway service using the Internet Key Exchange version 2 (IKEv2) protocol.



The configuration of this service supports different types of encryption:

AES 256-bit encryption, SHA-2 hashing.

Diffie-Hellman groups:



Phase 1 can now use DH groups 2, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

Phase 1 encryption algorithms AES128, AES256, AES128-GCM-16, AES256-GCM-16 Phase 1 integrity algorithms SHA-1, SHA2-256, SHA2-384, SHA2-512

Phase 1 can now use DH groups 2, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Phase 2 encryption algorithms AES128, AES256, AES128-GCM-16, AES256-GCM-16 Phase 2 integrity algorithms SHA-1, SHA2-256, SHA2-384, SHA2-512

Customer Data

- Customer Gateway (Public customer IP where to establish the tunnel).
- Local Customer IPv4 Network Cidr (Customer destination IP/Network to connect privately).
- Pre Shared Key to establish encryption.

Deyel Data

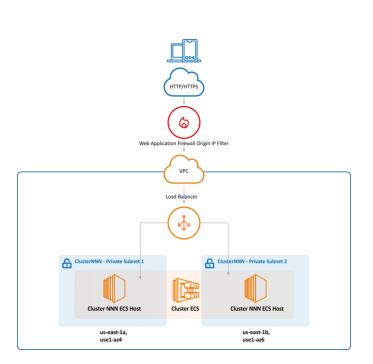
- Outside IP Address (**Deyel** public IP provided by AWS of "tunnel 1-2" from where the tunnel is established)
- Local IPv4 Network Cidr (Private network/IP within the VPC through which the customer receives the connections privately) *Network/IP of the EC2 Nat-VP.

Access Control Based on Enabling IP Addresses

Deyel Cloud offers the possibility of protecting access to its service by restricting access to only a specific IP address list. To perform this implementation, public access can be blocked using custom source IP filters and thus control the access points allowed using the https protocol.

Once the allowed access IP addresses are configured, users attempting to connect to **Deyel** from outside of these IP addresses receive an error message indicating that they must connect to the site through a VPN connection or from the company's corporate network.





3.14. On-Premise Installation

The following describes the steps to perform a new installation of **Deyel** or a <u>version update</u> in On-Premise modality.

Distribution

Deyel and its solutions are distributed through the following files:

Description	File
Web application	deyel- Version .war
Initial database	 Oracle: deyeldb-Version.dmp Mysql: deyeldb-Version.sql Sql Server: deyeldb-Version.bak DB2: deyeldb-Version.zip
License	license.xml

Version Each version of **Deyel** has the following VRFB structure where V - Version R - Release F - Fix B - Buil



Example: deyel-7.8.1.3.war

Step 1: Create the Initial Database for Deyel

- a. Install the database engine on which you want to install **Deyel**.
- b. Create a user with permissions that can create tables, views, functions, store procedures, and triggers. The following variables must be known:
 - **host**: engine ip address.
 - **port**: engine port.
 - **user**: user with the necessary permissions
 - password: key of the user with the necessary permissions
- c. Restore the initial base of **Deyel** with the following commands:

```
    Oracle
impdp user/password@host:port/deyel dumpfile=deyeldb-Version.dmp
```

- Mysql mysql -u user -p password -h host --port port --default-characterset=utf8 deyel deyeldb-Versión.sql
- SqlServer
 SqlCmd -S host -U user -P password -Q "RESTORE DATABASE deyel FROM DISK
 ='deyeldb-Version.bak' WITH REPLACE"
- DB2

Unzip deyeldb file-**Version**.zip Execute command from the folder where export files are located. db2move deyeldb import -io replace_create > restore_deyel.log

Step 2: Install Deyel on the Application Server

- Installation in Apache Tomcat
- Installation in WAS

Step 3: Configure Database

To configure the database, it is recommended to use the environment variable DE-YEL_DB_PROPERTIES_PATH. This variable is used to define the directory where the file with the connection data is located. If the environment variable is not defined, the file is used within the WEB-INF/classes/ConsistEnv_es_AR.properties context.

The environment variable should be created before performing the context implementation.



Instructions for Database Configuration

a. Enter https://server:port/deyel/Config.

Server: is the name of the server where the installation is performed or its IP address and access port. Example: http://**myserver**:8080/deyel

<section-header>

It is accessed without username and password until one is defined. It is recommended to define a username and password when first accessing.



Log in as an administrator	
	Name
	Key
	Confirm Password
	Data Base properties
Configuration File Path	
Computation rife ratin	
Driver	MYSQL V
LIDI	
URL	jdbc:mysqt:// <host>:<port>/<schema></schema></port></host>
URL User	jdbc:mysql:// <host>:<port>/<schema></schema></port></host>
User	<user></user>

- b. Complete the data of Database Properties section and apply configuration. If the DE-YEL_DB_PROPERTIES_PATH environment variable was defined, in the Configuration File Path property, the directory where the file with the connection data is located is shown. If this property is not reported, this means that the file is in the context.
- c. Restart the context.

Step 4: Import License

- a. Enter https://server:port/deyel.
- b. Import the <u>use license</u>.



Company:Optaris License ID:6692640f-c65e-4b9c-aa6d-905cdb4acf15 Modality:Cloud Licence Type:Subscription		Deyel
Environment:Test Emission Date:30/08/2021 Renewal Date:12/01/2025	Application: Deyel Edition: Standard User Types:	Contracts
Uegel V. 8.2.4.2.2	Participant: 100 Agile Modeler: 50 Deyel Modeler: 50	
Optaris Inc. All rights reserved Import new licence Valid license imported by: Alejandro Farías Date and Time: 30/08/2021 17:29:27		

c. Enter Deyel environment with https://server:port/deyel using the example user "afarias" with "deyel123" key.

Directories Structure 3.14.1.

Once the implementation of the file with war extension has been done, the following directory structure is defined.

Directory	Description
batch • log	Directory with Java classes that allow the execution of batch processes.log: Directory where the result of the execution of classes is saved.
businessRuleDeployment	Directory where files generated by business rule implementa- tions are temporarily stored.
businessRuleXML	Directory where business rules definitions are temporarily stored.
docGenerator • app • staticHTML • themes • themesDefault • themesResponsive	 All files related to forms definition are stored. app: Where the generated documents are located. Deprecated. staticHTML: Basic files used to compose screens. themes / themesDefault / themesResponsive / themes-ResponsiveMin: They correspond to the themes that are



Directory	Description		
 themesResponsiveMin 	used when modeling forms.		
eventFiles	Temporary directory of files linked to events that occur in processes (mails, File Reader files, etc.).		
export	Temporary directory where the exported files are stored.		
Import	Temporary directory where the imported files are stored.		
integrationDeployment	Directory to temporarily store files generated by integration rules implementations (SQL and web services).		
integrationXML	Directory to temporarily store integration rules definitions (SQL and web services).		
jasperReportFiles	XML files containing Jasper Report framework templates used in report printing and printing in general.		
logs	Storage directory of Deyel logs. When installing, log types and the number of days they are kept can be specified.		
META-INF	Information of Deyel version.		
modeler version	Files with images, JavaScript, and web modeler styles.		
script	JavaScript files that are used in the web portal.		
Temp	Temporary directory of Deyel .		
themes	Theme storage directory of Deyel .		
updaters	Directory containing the files necessary to update the version of Deyel .		
upload	Directory to temporarily store files uploaded to Deyel .		
vendors	Directory of libraries used by Deyel .		
WEB-INF	Storage directory of classes that define the operation of De- yel.		
widget	Directory with templates of widgets used by the web portal.		

Temporary directories (Temp, BusinessRuleDeployment, BusinessRuleXML, EventFiles, Export, Import, IntegrationDeployment, IntegrationXML, and Upload) are automatically removed every 24 hours. The 24 hours are calculated from the start time of the scheduled tasks.



3.14.2. Installation in Apache Tomcat

One of the options to install **Deyel** on an application server is under Apache Tomcat.

Apache Tomcat Configuration for Deyel

On Linux, Windows and on Dockerized Installations

The following minimum values can be defined in the setenv.sh file inside the Apache Tomcat bin folder:

- XX:+UseConcMarckSweepGC
- Dfile.encoding=ISO-8859-1

Use of Special Characters, Encoding and Post Size

Configure the following files with the lines indicated for each case.

Apache Tomcat 8.0

```
    conf/catalina.properties
        Include the line:
        tomcat.util.http.parser.HttpParser.requestTargetAllow=|
```

```
• conf/server.xml
    <Connector port="8080" protocol="HTTP/1.1"
    connectionTimeou="20000"
        maxHttpHeaderSize="32768"
        maxPostSize="-1"
        redirectPort="8443"
        URIEncoding="UTF-8" />
```

Apache Tomcat 8.5 and higher

```
• conf/server.xml
        <Connector port="8080" protocol="HTTP/1.1"
        connectionTimeout="20000"
        maxHttpHeaderSize="32768"
        maxPostSize="-1"
        redirectPort="8443"
        URIEncoding="UTF-8"
        relaxedPathChars ="[ \ ] { | }"
        relaxedQueryChars ="[ \ ] { | }" />
```

The maximum required post size is disabled with the maxPostSize=parameter"-1" to save or publish processes.



Clickjacking protection, HSTS header force and browser content sniffing

Enable the HTTPHeader security filter from Apache Tomcat in the conf/web.xml file. For Tomcat 8 and higher installations it should be:

```
<filter>
        <filter-name>httpHeaderSecurity</filter-name>
      <filter-
class>org.apache.catalina.filters.HttpHeaderSecurityFilter</filter-
class>
        <async-supported>true</async-supported>
        <init-param>
            <param-name>antiClickJackingOption</param-name>
            <param-value>SAMEORIGIN</param-value>
        </init-param>
        <init-param>
            <param-name>hstsEnabled</param-name>
          <param-value>true</param-value>
        </init-param>
</filter>
 <filter-mapping>
        <filter-name>httpHeaderSecurity</filter-name>
        <url-pattern>/*</url-pattern>
        <dispatcher>REQUEST</dispatcher>
</filter-mapping>
```

War file implementation

In order to implement in a context with the name "deyel", the file should be renamed with the extension war, assigning it the name "deyel.war".

Apache Tomcat has a default maximum for uploading files with a war extension of 50Mb, it should be increased to 500Mb in the <TOMCAT>\webapps\manager\WEB-INF\web.xml file.

```
</time-param/
J L
52
         -->
53 白
         <multipart-config>
54
          <!-- 500MB max -->
55
           <max-file-size>524288000</max-file-size>
56
           <max-request-size>524288000</max-request-size>
57
           <file-size-threshold>0</file-size-threshold>
58
         </multipart-config>
59
      </servlet>
60 白
      <servlet>
61
         <servlet-name>Status</servlet-name>
```





			Gestor de Apli	caciones W	eb de	Tomcat	
Mensaje:	FALLO - Ya existe la aplicación en la trayectoria /						
Gestor							
Listar Aplicaciones			Ayuda HTML de Gestor			<u>Ay</u>	ruda de Gestor
Aplicaciones Trayectoria	Versión	1	Nombre a Mostrar	Ejecutándos		Sesiones	Comandos
nayeciona	Version		Nombre a Mosual	Ljecutanuo	ye.	Sesiones	Arrancar Parar Recargar Replegar
L	Ninguno especificado	Welcome to Ton	icat	true		<u>0</u>	Expirar sesiones sin trabajar ≥ 30 minutos
							Arrancar Parar Recargar Replegar
<u>/manager</u>	Ninguno especificado	Tomcat Manager	Tomcat Manager Application			1	Expirar sesiones sin trabajar 2 30 minutos
							Arrancar Parar Recargar Replegar
(melody	Ninguno especificado	Archetype Creat	ed Web Application	true		Q	Expirar sesiones sin trabajar ≥ 30 minutos
Desplegar							
	rchivo WAR localizado en servidor						
			Trayectoria de Contexto (opcional):				
			URL de archivo de Configuración XML:				
			URL de WAR o Directorio:				
			De	splegar			
Archivo WAR a desplega	ır						
	Seleccione archivo WAR a cargar Examinar devel-6.5.2.11.war						
			Despleg	ar			
Diagnósticos							
Revisa a ver si una aplic	ación web ha causado fallos de memoria a	l parar, recargar	o replegarse.				
Halla fallos de memoria	Este chequeo de	diagnóstico dispa	ará una colección completa de basura. Utilízalo con extrem	o cuidado en sistemas	en produc	ción.	

Continue with installation step 3

3.14.3. Version Update

The following describes the steps to update the version of **Deyel** on On-Premise installations.

Distribution

The version update of **Deyel** and its solutions are distributed through the following files:

Description	File
Web application	deyel- Version .war

Version Each version of **Deyel** has the following V.R.F.B. structure where V - Version R - Release F - Fix B - Build Example: deyel-7.8.1.3.war

Step 1: Do Backup of Existing Database



- Oracle expdp deyel/password@host:port/deyel dumpfile=deyeldb.dmp schemas=deyel
- Mysql mysqldump -u root -p -h host --routines --skip-add-locks --singletransaction deyel > deyeldb.sql
- Sql Server BACKUP DATABASE deyel TO DISK = 'deyeldb.bak'"
- DB2 db2move deyeldb export -aw -sn deyel > deyel_export.log The export files remain in the folder where the command is executed. A compressed file called deyeldb.zip should be generated with all the generated files.

Step 2: Do Backup of the Existing Context

- Compress all files in the existing context and move them out of the application server.
- Perform "undeploy" operation of the existing context on the application server.

Step 3: Install Deyel on the Application Server

- Installation on Apache Tomcat
- Installation in WAS

Step 4: Configure Database

If the DEYEL_DB_PROPERTIES_PATH environment variable was defined with the directory where the file with connection data is located, it is not necessary to perform this step.

If the DEYEL_DB_PROPERTIES_PATH environment variable was not defined, the database properties configuration file is within the context. In this case, the configuration of **Deyel** should be entered so as to complete the values for the connection properties again.

Instructive

a. Enter a https://server:port/deyel/Config.

Where server: server name where the installation is performed or its IP address and access port. Example: http://**myteam**:8080/deyel



Γ	Configuration	
1	User Key	
	Sign In	

It is accessed without username and password until one is defined. It is recommended to define a username and password when first accessing.

	Deyel installation	
Log in as an administrator		
	Name	
	Key	
	Confirm Password	
	Data Base properties	
Configuration File Path		0
Driver	MYSQL ~	
URL	jdbc:mysql:// <host>:<port>/<schema></schema></port></host>	
User	<user></user>	
Password		
JDK HOME		

- b. Complete the data of the Database Properties section and apply configuration.
- c. Restart the context.



Step 5: Check if the Update is Successfully Performed

Enter a https://server:port/deyel/Config and check for any errors.

	Deyel installation	
Log in as an administrator		
	error updating the version: V.8.2.4.2.7 in the Updater: 905072019-7181 Name Key Confirm Password	
	Java VM properties	
Show properties		

If an error occurred while updating, do the following:

- Download the log of the update that fails and the complete log of the day (SystemOut*.log) to send them to the **Deyel** team.
- Restore the backed up database in step 1.
- Stop the application server and copy all the context files backed up in step 2.

3.14.4. High Availability

A high availability installation consists of having two or more installations of **Deyel** connected to each other, sharing the same database. Each of these installations is identified as a member and they all form a cluster, which is necessary to have a high availability installation.

Each member of the cluster includes internally a software that allows a high availability operation called Hazelcast. To make these members know each other and guarantee high availability, it is necessary to carry out a certain configuration.

Steps for the Configuration of each Member

Step 1: Activate the "HAZELCAST_USE_XML" property in the shared database

This property allows the configuration of Hazelcast in XML mode to specify the different ways of connecting among members.

To activate the property, it is necessary to include it in the "property_value" table using the following sentence:



insert into property_value (CD_PROPERTY, CD_LEVEL, CD_LEVEL_VALUE, DS_VALUE, CD_USER_STORE, DT_STORE, CD_USER_UPDATE, DT_LAST_UPDATE) values('HAZELCAST_USE_XML','OWNER','0','true',NULL,NULL,NULL,NULL);

Step 2: Configure the Hazelcast XML file

Within the installation of each cluster member, the XML file "hazelcast.xml" located in the path <milns-talacion>\ WEB-INF\classes\ should be configured.

Its configuration consists of:

 Set the name of the cluster for each member to connect to, optionally the password can also be specified.

 Configure member discovery on the network. There are several ways to do this, such as multicast, TPC-IP, etc. You can choose the most convenient way for each installation, following the recommendations of the Hazelcast guide on their site

https://docs.hazelcast.org/docs/3.11.7/manual/html-single/index.html#setting-up-clusters

Step 3: Restart

Once configured, members should be restarted so that they can connect to each other. To verify this, the application servers log should be shown and the connection of members should be verified.

Each member is considered to be installed on a full application server.

Example: In Tomcat, the cluster can be shown in the "catalina" log, visualizing the connection of 6 members.

For more details of Hazelcast configurations, show the documentation of its site <u>https://docs.hazelcast.org/docs/3.11.7/manual/html-single/index.html</u>.

3.14.5. Amazon S3 Adapter

Integration with this adapter is available in installations with On-Premise licensing.



Having an Amazon account, the AWS S3 service can be used. This service allows to store the files in the repository and download them directly from the form that uses them.

Properties

In addition to the properties shared by <u>adapters</u>, such as <u>Name</u> and <u>Description</u>, there are also properties specific to the file repository of **Deyel** on Amazon S3.

Repositorio de archivos de Deyel ype : Amazon S3	en Amazon S3			Integration Guide
ame * Repositorio de archivos de Deyel en Amazon S	Description * Utilizado para almacena repositorio Amazon S3	r archivos , imágenes de !	Adaptor Permissions ormularios, casos, y adjuntos en Tedis en el	(Y)
ccess Key *		Secret Access Key *		Integration with Amazon S3
Access Key		Secret Access Key		From the configuration of the adapter, the link is obtained to
egion *	Buckol *	<custor-ecs>/ambie</custor-ecs>	Directory *	download the files directly from the S3 from the browser withou aging through Deyel. First, the information necessary to establish the integration mu be completed. To do this, it is necessary to have the credential granted by AWS. 1. Enter the Access Key obtained 2. Enter the Sceret Access Key obtained 3. Select the Region where the repeatory to is located. 4. Configure the URL of the Bucket according to your S3 shou In AWS. 5. Enter the corresponding Directory . 6. Configure the URL of the Bucket according to your st structure in AWS. Press the Publish button to make the adapter available for use

An asterisk "*" on the label indicates that the property is required.

Access Key

Identification key given in the user security section of the Amazon account.

Secret Access Key

Secret key associated to the Access Key property, given in the user security section of the Amazon account. They are used together when requesting access to the resources provided by the platform.

Region AWS Region where the bucket is located.

Bucket

Bucket URL based on its S3 structure in AWS.

Directory

Name of the folder within the bucket.

Public Bucket

Public bucket URL based on its S3 structure in AWS.

3.15. Phased Learning



Training Phases

Training in **Deyel** consists of a set of phases that allow the user to model their applications and use the product to its full potential, without the need for prior knowledge.

The phases are made up of a set of self-study videos and exercise proposals to reinforce knowledge. Videos with advanced tips are also included, for more experienced users.

Training Phases

Introduction to Deyel
 Forms Modeling
 Portal
 Processes Modeling
 BAM
 Configuration





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