Importing relationships

On this page

- Main conditions
- Preparing the Excel file to import relationships
- Relationships import procedure

Main conditions

You can create relationships between existing model elements by importing them from Excel/CSV files. For this the following conditions must be met:

- ° The source/client and target/supplier elements you want to create relationships between must exist in the project.
- The Excel/CSV source and target columns must be mapped with the Client/Source and Supplier/Target properties in the mapping area of the Excel/CSV Import dialog.
- The source and target elements must be legal in terms of Metamodel, DSL and code rules, e.g., the satisfy relationship client must be a requirement.

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Preparing the Excel file to import relationships

When creating relationships in the model by importing them, you need to make sure the Excel file contains the source and target columns. The source column contains the names of elements that are the client of the relationship. The target column contains the names of the elements that are the suppliers of the relationship. In the example below, the Source column contains the names of the Blocks and the Target column contains the names of Requirement s.

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	A		В			<u>-</u>	Mode	el			
1	Source		Target					Relations			
2	Brake		Rotor Diameter			÷		Excel/CSV imports			
3	Brake		Pad Center length			<u> </u>		Relationships			
4	Brake		Pad Center Thickness			P		Requirements			
5	Pad		Pad Center length					R 1 Stopping Distance «R R 2 Brake Heating «Requ			
6	Pad		Pad Center Thickness					R 3 Brake Pad Life «Requ			
7	Rotor		Rotor Diameter				[R 4 Vehicle Weight «Requ	uirement»		
8	Tire		Tires					R 5 Tires «Requirement»			
9	Vehicle		Vehicle Weight	Requir nan	em	en	• : •	R 6 Rotor Diameter «Req	· · · · · · · · · · · · · · · · · · ·		
10	Vehicle		Tires					R 7 Pad Width «Requirement» R 8 Pad Center length «Requirement»			
11	Vehicle		Rotor Diameter					R 9 Pad Center Thickness			
12	Vehicle		Pad Center length			÷		Structure			
13	Vehicle		Pad Center Thickness				ſ	Brake «Block»			
14	Wheel		Tires					Caliper «Block»			
15	Wheel		Rotor Diameter					Engine «Block» Pad «Block»			
16	Wheel		Pad Center length					Rotor «Block»			
17	Wheel		Pad Center Thickness					Tire «Block»			
								Transmission «Block»			
								Vehicle «Block»			
	Block names							Wheel «Block»			
L											

The Excel file content prepared with element names for the relationships import.

How to import Blocks and their properties >>

How to import Requirements >>

If you have to deal with a large a scope of information, the elements are not under the same target scope, or you want to increase the import speed, use the following:

- Select to search elements and references in the Target Scope Only in the Excel/CSV Import dialog when importing data.
- Define your source and target columns in the Excel file with qualified names of elements. In the example below, the Source column contains the qualified names of the Blocks and the Target column contains the qualified names of Requirements.

	А	В				
1	Source	Target				
2	Structure::Brake	Requiremnets::Rotor Diameter				
3	Structure::Brake	Requiremnets::Pad Center length				
4	Structure::Brake	Requiremnets::Pad Center Thickness				
5	Structure::Pad	Requiremnets::Pad Center length				
6	Structure::Pad	Requiremnets::Pad Center Thickness				
7	Structure::Rotor	Requiremnets::Rotor Diameter				
8	Structure::Tire	Requiremnets::Tires				
9	Structure::Vehicle	Requiremnets::Vehicle Weight				
10	Structure::Vehicle	Requiremnets::Tires				
11	Structure::Vehicle	Requiremnets::Rotor Diameter				
12	Structure::Vehicle	Requiremnets::Pad Center length				
13	Structure::Vehicle	Requiremnets::Pad Center Thickness				
14	Structure::Wheel	Requiremnets::Tires				
15	Structure::Wheel	Requiremnets::Rotor Diameter				
16	Structure::Wheel	Requiremnets::Pad Center length				
17	Structure::Wheel	Requiremnets::Pad Center Thickness				

The The Excel file content prepared with qualified element names for the relationships import.

Relationships import procedure

To import relationships

- 1. Prepare the Excel file for relationships import. How to prepare the Excel for the relationships import >>
- Open the project in the modeling tool.

Wake sure the elements you want to create relationships between exist in the project.

How to import Blocks and their properties >>

3. In the top-left corner of the modeling tool, click the File > Import From > Excel/CSV File > Import Using New Map.

element import via tables, use the Exce/CSV Sync functionality.

- 4. In the Excel/CSV Import dialog, select the Excel file. How to >>
- 5. Specify the mapping options:
 - Import Type select the Element value.
 - Element Type select the relationship type you want to create.
 - Properties to Map the Client and Supplier properties are selected by default.
 - Target Scope select the Package you want to contain imported relationships. If the Owner property is selected as the Properties to Map option value, the data is imported according the owner.

bu can specify more mapping options according to your needs. Learn more about mapping options >>

- Create the mapping between Excel file columns and element properties by dragging the Source column on the right to the Client property on the left. Do the same with the Target and Supplier or other columns/properties. Learn more about mapping area >>
- 7. (Optional) Click the Save Map button to save your map options as the Import Map. Learn more how to save Import Map >>
- 8. Click the Import button

The relationships are imported. If any of the imported relationships already exist in the model they are updated. To avoid duplication of elements

specify Identification Property value or Identify Relationship (End) Source by and Identify Relationship (End) Target by values. Learn more about mapping options in the Excel/CSV Import dialog>>

igoplus relationship import can fail due to the following reasons:

In the following example, you can see specified import options in the Excel/CSV import dialog before the import. After the import the Satisfy relationships are created between the defined severe and target elements. Blacks and the environments and the any.

Excel/CSV Import Specify import options This tool allows you to spec options.	ify settings before importing content from	an Excel/CS\	/ file to the model. Select the Excel or CSV fil	e and specify element mapping	×	Bit Containment Bit Diagrams Bit Structure Containment C ♥ × Containment C ♥ × C ♥ ※ C ♥ ↓ C ● ↓ ↓ C ● ↓ ↓ C ● ↓ ↓ C ● ↓ ↓		
Select Excel/CSV file From file system From model Excel/CSV File: file://C:/Users/Desktop/C	ect Excel/CSV file From file system From model							
Mapping Options Import Type: Element Type:	Element		Sheet: First Cell:	Sheet1 A1	~	 Satisf/Red -> Pad Center Thickness] Satisf/Rotor -> Rotor Diameter] Satisf/Vire -> Tres] Satisf/Vire -> Pad Center length] Satisf/Vire -> Pad Center Thickness] 		
Stereotypes: Properties to Map: Target Scope:	Client, Supplier Relationships		CSV Delimiter: Identification Property: (1) Identify Relationship (End) Source by: (1)	, Default	~			
Search for Elements In: Search for References In:	Target Scope Only Target Scope Target Scope Only Entire Mode	e Recursively	Identify Relationship (End) Target by: 1	Default	V	 Satisfy[Wheel -> Pad Center length] Satisfy[Wheel -> Pad Center Thickness] Satisfy[Wheel -> Rotor Diameter] Satisfy[Wheel -> Tires] 		
Element Properties Client Supplier Save Map		Drag column	s from right or left to map	Excel/CSV Columns Source (A1) Target (B1)	cel Help	⊕- ☐ Requirements ⊕- ☐ Structure		

The import of Satisfy relationship.

Related pages

- Importing data from Excel or CSV filesSaving an Import Map

- Managing Map Groups
 Excel and CSV Import dialog
 Sync with Excel or CSV files