Customizing or creating data mapping rules

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When importing data to a modeling tool, or exporting it to the Teamcenter repository, Teamcenter items are automatically converted to SysML elements or vice versa. Usually, data is converted by using predefined data mapping rules, but they can be customized if needed. You can customize existing data mapping rules or create new ones during data import and export.

Specifying mapping policy

You can customize data mapping rules in the **Copy Data with Sync** dialog when importing or exporting data. The **Copy Data with Sync** dialog opens by default during every import/export if there are any unmapped data types in the import/export scope. Before starting mapping customization, make sure that the **Copy Data with Sync** dialog is opened during import/export by specifying the desired mapping policy as described below.

To specify mapping policy

- 1. In the main menu, select Options > Environment. The Environment Options dialog opens.
- 2. Select Cameo DataHub in the option group list on the left side of the dialog.
- 3. In the option specification area on the right side of the dialog, specify the desired value of the Mapping policy option.

Environment Options		×
Cameo DataHub Options Change your various Cameo DataHu	p options and configurations.	
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Report Wizard		Reset to Defaults
		OK Cancel Help

4. Click OK, to close the Environment Options dialog.

Recommended mapping policy

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- If you want to specify custom mapping rules for both mapped and unmapped data types, select Always show the mapping dialog.
- If you want to specify mapping rules only for unmapped data types, select Show mapping for elements with an unknown data type.

Customizing or creating data mapping rules

When importing or exporting data, the **Copy Data with Sync** dialog allows you to customize existing data type mapping rules and map data types that are not yet mapped. In addition, you can customize the default mapping on a single property level.

To customize/create data mapping rules

- 1. Start your modeling tool and open the project for which you want to define custom mapping rules.
- 2. Connect to the Teamcenter server.
- 3. Start the importing or exporting procedure. The **Copy Data with Sync** dialog opens depending on the mapping policy you specified in the previous procedure.

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Copy Data with Sync X				
Copy Data with Sync Select all unmapped target types from the list and resolve them by defining the schema map. DataHub will create the DHLinks to maintain the nodes in the scope hierarchy.				
Sync Direction:	Two-way Sync	One-way Sync from MagicDraw One-way Sync to MagicDraw		
Mapping Mode: Grou	p Type Mapping 🗸 🗸 🗸 🗸 🗸 🗸			
MagicDraw Side		Siemens Teamcenter Side		
Block	Source ty	Part Revision Mapped target type Aguirement Revision System Block Revision V		
Exclude all unmapped nodes from DHLinks.				
Define Target Type	from Attribute Value	Select Attribute to Sync Block [MagicDraw::Car System Block Revision Transformation Rule		
Attribute: Element ID Default Priority Va	lue Target	Base Classifiers(Readonly) • Documentation • Element ID(Readonly) Date Proj Assignment N •		
	0 0	Is Abstract Date Released (Reador Is Active Description Is Final Specialization Digital Signature State Effectivity (Readonly) ExC0 - Explore Checke Exported To(Readonly) FMS Tickets (Readonly) OK Cancel		

- 4. In the source type area on the left side of the dialog, select the data type you want to map. Unmapped element/item types are marked with a red circle.
- 5. In the target type area on the right side of the dialog, select the data type to which you want to map the selected source type.
- 6. Optionally complete the following steps:
 - a. To map the properties of the selected data types, click the Edit button and select the target type property for the desired source type property as shown above.
- b. Select the Exlude all unmapped nodes from DHLinks check box, to exclude any unmapped data from the current import/export scope. 7. Click OK.

the finish importing or exporting data, you have to map all unmapped data types or select the Exclude all unmapped nodes from DHLinks check box.

Related pages

- Importing dataExporting data
- Default data mapping
- Mapping element properties