

Siemens PLM Software

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A circular inset image showing a low-angle view of a modern glass skyscraper with curved windows, reflecting the sky and surrounding environment.

# Administration Guide

## IMM CATIA Integration

Siemens PLM Software

**On behalf of Sphera Solutions GmbH and its subsidiaries**

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# List of Acronyms

IMM	Integrated Material Management
TC	Teamcenter
TEM	Teamcenter Environment Manager

# 1. IMM CATIA Integration

After deploying IMM CATIA integration, the material administrator needs to check and configure the material property mapping as well as the Unit mapping between TC and CATIA.

## 1.1. Material Property mapping

The material property names in TC should match the CATMaterial property name supported in CATIA. For example:

A material property name called "**Young's Modulus\_5**" in Teamcenter will not be recognized by CATIA if it is not **mapped** to the CATMaterial property name "**SAMYoungModulus**".

Prior to any use of IMM Catia integration the administrator should check and map the IMM properties' names with the CATMaterial properties' names. From either client side (**catmaterial\_matml\_properties\_mappings.xml**) or server side (**Mapping\_CatiaMatml.xslt**) or from **both** sides.

**Client mapping:** A mandatory mapping file is shipped with the IMM Catia integration **client** package. The mapping file is called "**catmaterial\_matml\_properties\_mappings.xml**". After deployment, the mapping file should exist in the IMM Catia integration installation folder under the path **\\win\_b64\\resources\\imm\_work\_dir**.

**Server mapping:** An extra layer of property mapping could be done from the Teamcenter server side, by customizing the **Mapping\_CatiaMatml.xslt** stylesheet provided in the IMM for CATIA installation kit under Teamcenter\\xslt\_transformations\\export and then importing it to a dataset. This will export a Matml file while assigning the material in CATIA, with the property names that should match the names which are in the **catmaterial\_matml\_properties\_mappings.xml**.

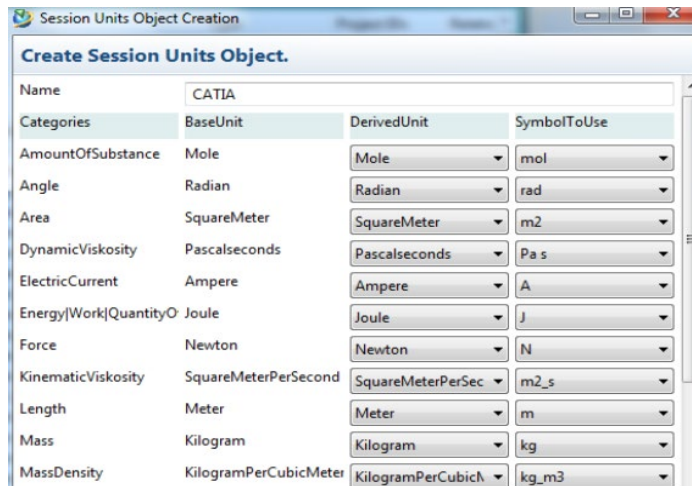
### Notes:

- ✓ All mapped property names are case sensitive.
- ✓ If the TC material property name is not in the mapping file, it **will not be set** in CATIA and the CATMaterial Property name will not be set.
- ✓ The material property name to be considered and mapped is the name on the **Property Descriptor** of the material property defined by the TC **object\_name** attribute.

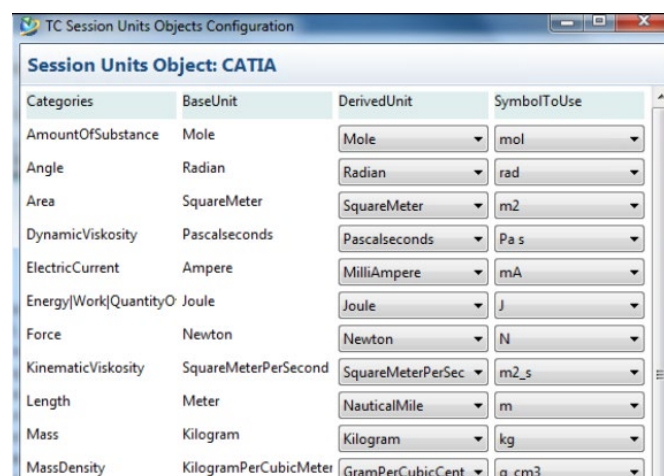
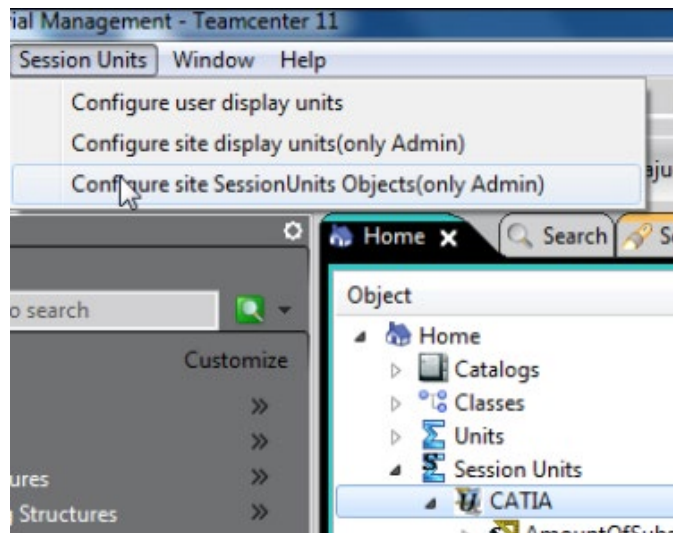
## 1.2. Unit mapping

By selecting and assigning a Material from IMM in CATIA, a **MATML** xml file will be generated by TC server and transferred to CATIA to be parsed.

To ensure that the Material Property values are converted properly in the right unit expected by CATIA a **Session Units** Object called **CATIA** should be **created** in IMM(File→New→Session Units), select the proper Units needed by CATIA and press OK



Once create the administrator could **re-configure** the Session Units for CATIA by selecting the Session Unit Object called **CATIA** and then go to the menu item **Session Units** → “**Configure site SessuinUnits Objects(only Admin)**”



Assigning a material in **CATIA** will generate a MATML in the %temp% folder, the units are retrieved from the configured **Session Units object** and the values of the properties are converted accordingly.

### 1.3. Changing the IMM CATIA Display Language

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By default, the IMM CAD interface picks the windows system display language.

To be able to modify the display language of IMM CAD interface, the environment variable **IMM\_CAD\_DISPLAY\_LANGUAGE** could be defined and set to the desired language in a special format for instance **en-US** or **de-DE**.

This environment variable is not mandatory unless to force changing the display language.