CATIA FLXML Exporter

The CATIA FLXML Exporter plugin allows you to transform a UML/SysML/UAF model to functional and logical structures supported in the 3DEXPERIENCE platform. The plugin uses the FLXML Generation Engine and the element transformation schema to generate an FLXM file from the selected model elements. The conversion of CATIA Magic data to 3DEXPERIENCE platform data with lifecycle management is based on element mapping.

You can later import the generated FLXML file to the 3DEXPERIENCE platform while ensuring the digital continuity and master interfaces of system architecture (with sub-systems developed in 3DEXPERIENCE Platform, CATIA Magic, or other tools). The CATIA FLXM Exporter plugin also helps to initiate the transition from the conceptual to the design layer.

For detailed information about the CATIA FLXML Exporter plugin, see CATIA FLXML Exporter Plugin User Guide.pdf



The schema displaying how the CATIA FLXML Exporter plugin works.



Using the CATIA FLXML Exporter plugin ensures the digital continuity and master interfaces of the system architecture.

Prerequisites able to export the selected part of a model to an FLXML file, you need to install the CATIA FLXML Exporter Plugin in your modeling tool. It is a nocost plugin, and you can download it from the 3DEXPERIENCE download page.

To export a model to an FLXML file

1. In the main menu of a modeling tool, go to 3DEXPERIENCE > CATIA FLXML Exporter > Generate FLXML. The CATIA FLXML Exporter dialog opens.

Specify	te FLXML the scope elements, export schema to use to generate the FLXML	
Please	specify also a destination folder for the files generated.	
	Scope elements:	
	List of available schemas:	
	SysML to FL 🗸	
	Destination folder:	
	C:\Users\	
	OK Cancel	
a. mult	e Tree view of the Select scope elements dialog, select the elements you want to export. (Pr iple elements.)	ess and hold the Ctrl key t
b. Click c. Click	Ite Tree view of the Select scope elements dialog, select the elements you want to export. (Principle elements.) to add the elements to the Selected elements list. K OK to close the dialog.	ess and hold the Ctrl key t
b. Click c. Click	<pre>te Tree view of the Select scope elements dialog, select the elements you want to export. (Pr iple elements.) to add the elements to the Selected elements list. CoK to close the dialog.</pre>	ess and hold the Ctrl key t
 a. In the mult b. Click c. Click Select scop 	Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.)	ess and hold the Ctrl key t
b. Click c. Click Select scop	<pre>te Tree view of the Select scope elements dialog, select the elements you want to export. (Pr iple elements.)</pre>	ess and hold the Ctrl key t
a. in th mult b. Click c. Click Select scop elect, search type the narrist view. For ilter to narri	<pre>te Tree view of the Select scope elements dialog, select the elements you want to export. (Pr iple elements.) to add the elements to the Selected elements list. OK to close the dialog. </pre>	ess and hold the Ctrl key t
a. in the mult b. Click c. Click Select scop lect, search set to name	<pre>te Tree view of the Select scope elements dialog, select the elements you want to export. (Pr iple elements.)</pre>	ess and hold the Ctrl key t
a. in fill mult b. Click c. Click Select scop sect, search gype the nar ist view. For ilter to narro	It is the select scope elements dialog, select the elements you want to export. (Principle elements.) to add the elements to the Selected elements list. Kok to close the dialog. It is to add the elements to the Selected elements list. Kok to close the dialog. It is the selected elements was a select matches found in the Tree or an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. It is the selected element was a select matches found in the Tree or an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a for you down the search scope.	ess and hold the Ctrl key t
A. In the mult mult b. Click c. Click c. Click Select scop elect, search for:	e Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.) to add the elements to the Selected elements list. Co K to close the dialog. e elements th for, or create elements me representing the model element you are searching for and select matches found in the Tree or r an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. Type and Package O Property Any Element Selected elements: 1 Climate Control System Assemt	ess and hold the Ctrl key t
a. In fill mult b. Click c. Click Select scop elect, search Type the narri- list view. For iller to narri- earch for: 文 定 Tre 文 写 平	e Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.) to add the elements to the Selected elements list. K OK to close the dialog. c elements x of to close the dialog. x of the elements of the selected elements list. x of to close the dialog. x of the elements of the selected elements list. x of to close the dialog. x of the elements x of the elements of the selected elements of the select matches found in the Tree or r an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. I of Type and Package O Property O Any Element x e HE List Climate Control System Assemt	ess and hold the Ctrl key t
a. In the mult b. Click c. Click Select scop elect, search Type the narr ist view. For "ilter to narro earch for:	e Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.) to add the elements to the Selected elements list. c OK to close the dialog. e elements th for, or create elements me representing the model element you are searching for and select matches found in the Tree or r an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. Image of Type and Package Origination Property Any Element Elements Climate Control System Assemt	ess and hold the Ctrl key t
a. in fill mult b. Click c. Click Select scop elect, search Type the narri- list view. For iller to narri- earch for:	e Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.) to add the elements to the Selected elements list. Kok ok to close the dialog. c elements x of to close the dialog. x of the elements of the selected elements list. x of the elements of the selected elements found in the Tree or r an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. I of Type and Package O Property O Any Element x e fill List O Climate Control System Assembly x of the elements of the element	ess and hold the Ctrl key t
a. In the mult mult b. Click c. Click Select scop elect, search fype the narri- list view. Foo filter to narri- earch for:	e Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.) to add the elements to the Selected elements list. c OK to close the dialog. c elements to close the dialog. c elements th for, or create elements me representing the model element you are searching for and select matches found in the Tree or r an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. Type and Package O Property O Any Element Selected elements: 1 Climate Control System Assembly Add as many scope Climate Control System Assembly Add as many scope Climate Control Hardware Assembly	ess and hold the Ctrl key t
a. In the mult mult b. Click c. Click Select scop elect, search Type the narri- list view. For filter to narri- earch for: Click earch for: Click En Tree Select Scop	e Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.) to add the elements to the Selected elements list. (CK to close the dialog.) c elements c elements c elements c widdands for and select matches found in the Tree or r an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. I Type and Package O Property O Any Element c limate Control System Assembly Add as many scope C Climate Control System Assembly Add as many scope C Climate Control System «Block» you want	ess and hold the Ctrl key t
a. In fill mult b. Click c. Click Select scop elect, search fype the narri- sist view. Foo iliter to narri- earch for:	er Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.) to add the elements to the Selected elements list. OK to close the dialog. elements to add the elements to the Selected elements list. OK to close the dialog. * h for, or create elements me representing the model element you are searching for and select matches found in the Tree or an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. * Type and Package O Property Any Element Selected elements:7 Climate Control System Assembly Add as many scope elements as you want Dimate Control System Assembly Climate Control System Assembly Climate Control System eBlocke you want Dibrary ML Standard Profile [UML_Standard_Profile.mdzip]	ess and hold the Ctrl key t
a. In the mult mult b. Click C. Click Select scop elect, search Type the narri- ist view. For itter to narri- earch for: C Click rearch for: C C Click rearch for: C C Click rearch for: C C Click rearch for: C C C Click rearch for: C C C Click rearch for: C C C C C C C C C C C C C C C C C C C	e Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.) to add the elements to the Selected elements list. CoK to close the dialog. e elements th for, or create elements me representing the model element you are searching for and select matches found in the Tree or r an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. Image: Type and Package O Property O Any Element Selected elements: 1 Climate Control System Assembly Climate Control System assembly<	ess and hold the Ctrl key t
a. In the mult mult b. Click C. Click Select scop elect, search fype the narrist view. For "ilter to narro earch for: C Click rype the narrist iter to narro c Click rype the narrist c Click rype the narr	er Tree view of the Select scope elements dialog, select the elements you want to export. (Priple elements.) to add the elements to the Selected elements list. OK to close the dialog. se elements me representing the model element you are searching for and select matches found in the Tree or r an advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. Type and Package O Property Any Element e BE List Climate Control System Assembly Climate Control System Assembly Climate Control System Assembly Climate Control System Assembly Climate Control System eBlocks you want ML Standard Profile [UML_Standard_Profile.mdzip] KEP Profile [RFLP Profile.mdzip] Sereetypes sysML [SysML Profile.mdzip]	ess and hold the Ctrl key t
a. In fill mult b. Click c. Click Select scop elect, search fype the narrist view. Foo iliter to narri earch for:	<pre>te Tree view of the Select scope elements dialog, select the elements you want to export. (Pr iple elements.) to add the elements to the Selected elements list. CK to close the dialog. e elements</pre>	ess and hold the Ctrl key t
a. In the mult mult b. Click C. Click Select scop elect, search Type the narrist view. For itter to narrist earch for: C Click rype the narrist itter to narrist earch for: C Click rype the narrist earch for: C Click rype the narrist earch for: C Click rype the narrist itter to narrist c C Click rype the narrist c C Click rype the narrist c C C Click rype the narrist c C C C C C C C C C C C C C C C C C C C	<pre>te Tree view of the Select scope elements dialog, select the elements you want to export. (Pr iple elements.) to add the elements to the Selected elements list. OK to close the dialog. se elements me representing the model element you are searching for and select matches found in the Tree or a advanced search, use the exact match, camel case, or wildcards (*,?). You can also apply a ow down the search scope. Type and Package O Property O Any Element selected elements: 1 Climate Control System Assembly elements as you want ML Standard Profile [UML_Standard_Profile.mdzip] KtP Profile [RELP Profile.mdzip] Steretypes ysML [SysML Profile.mdzip] Single Selection</pre>	ess and hold the Ctrl key t

⚠

- By default, all elements owned by the selected scope element are included when generating an FLXML file.
 - If the selected scope element is a diagram, the scope of the FLXML file generation will be the elements displayed in the diagram.
- 3. In the List of available schemas box, select the default system to be schema. The elements of this type are excluded when
- generating an FLXML file. next to the **Destination folder** box and select the folder where the generated FLXML file should be stored. 4. Click
- 5. Click OK.
- 6. If you get the message saying that some validation errors were found, do one of the following:
 a. Click Yes to ignore the validation errors and generate an FLXML file anyway.
 - - b. Click No to correct the errors in the open validation results panel. Then try exporting your model to an FLXML file again.

After completing the above steps, an FLXML file is generated for the selected scope of a model and saved in the destination folder.

Additional resources

- CATIA FLXML Exporter Plugin.mp4
- CATIA FLXML Exporter Plugin Effectivity.mp4