



# TEAMCENTER

## Content Management on Active Workspace — Usage

Teamcenter 2412

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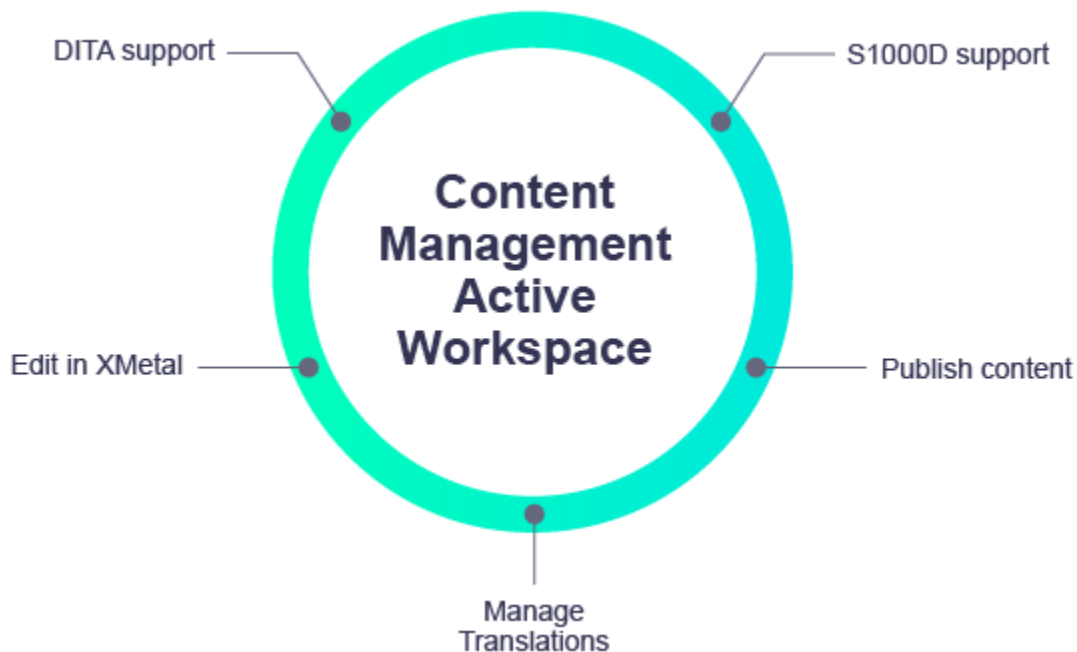
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# 1. Overview of Content Management

Content Management is a component content management system for the creation of technical documentation. Technical publications consist of XML and SGML text components, which are stored in the Teamcenter database along with any referenced graphics used in the publications. The structure and content of a publication is validated by schemas, such as DITA or Docbook. The publication layout is implemented with stylesheets, which allows the same content to be formatted for different media, such as print, web, or interactive applications. Content developed as individual topics may be reused by reference in multiple publications.



Content Management works in conjunction with several XML editing and publishing tools, which enable publications to be generated for both online and print formats. Content Management includes support for multiple language versions and includes the ability to manage topics through translations and release cycles.

In Active Workspace, support for general XML schemas, the DITA standard, and the S1000D standard is available. The DITA administrative data available out of the box enables management of documentation for the DITA standard through version 1.3, including specialization and support for DITA Open Toolkit (OT) version 2.4.6.5. Several versions of S1000D administrative data are available, including 4.0, 4.1, 4.2 and 5.0.

 Administrator	Install and setup Content Management
 Business User	
Author using DITA	See <a href="#">how to author DITA content</a> .
Author using S1000D	See <a href="#">how to author S1000D content</a> .

Publish content	See <a href="#">how to publish content</a> .
Manage translations	See <a href="#">how to manage translations</a> .

## 2. Authoring DITA content

### Overview of DITA content

Darwin Information Typing Architecture (DITA) is an XML-based architecture for developing technical publications. It includes an architectural specification, language specification, and DTD and schema implementations of the language. If you have installed the DITA Content Management solution, you can manage documentation for the DITA architecture. For more information about DITA, see [OASIS Standards](#).

Content Management provides DITA administrative data and authoring objects through DITA version 1.3:

Note:

DITA publishing is supported only on Linux and Windows.

The contents of **anchorref** elements are not included in documents published with DITA Open Toolkit 2.4.6 publishing tools.

- **DITA maps**

A *DITA map* is an object that contains references to DITA topics and organizes the topics into hierarchies, tables, or groups. These maps can be used to generate outlines or the table of contents. A map can contain any combination of references to DITA topics, DITA tasks, DITA concepts, DITA references, and other DITA maps. A DITA map includes metadata to describe properties such as the audience, platform, and product. Maps are used to create documents that result in separate XML files while processing the output.

The `<map>` element is used in the XML to define a map. You can import existing DITA maps to the Content Management application, which includes any references to DITA topics they may contain. You can work with two types of maps:

- **DITA Dynamic Map**

You can add, delete, and organize topics in a DITA dynamic map in Content Management and edit the contents in an editing tool. A *DITA bookmap* is a special type of dynamic map, used to organize DITA content into a book format. The `<bookmap>` element is used in the XML to define a bookmap.

- **DITA Static Map**

You can edit topic references in a *DITA static map* in an editing tool but not in Content Management. Starting in versions 9.0 and later, static maps are primarily used only for content migrated from earlier versions.

- **DITA Base**

A *DITA base* object, also referred to as a DITA composite object, is a top-level container for multiple topics used to create documents that result in a single XML file in output processing. A composite is typically reused as is and is not modified when referenced from different DITA maps.

A DITA base object can contain any combination of DITA topics, DITA tasks, DITA concepts, and DITA references. It can be opened for editing XML content. The content opens in the editing tool as a single XML file containing all its related files. The `<dita>` element is used in the XML to define a DITA base object.

- **DITA topics**

A DITA topic is a single unit of content that contains the information on a single subject. The DITA architecture includes the following four topic types:

- **DITA Topic**

A DITA topic, also referred to as a *generic* or *unspecialized* topic type, provides the base for specialized topic types and does not meet the definition of a concept, reference, or task topic.

- **DITA Concept Topic**

A DITA concept topic is a specialized topic type that provides background information to aid in the understanding of a product, interface, or task.

- **DITA Reference Topic**

A DITA reference topic is a specialized topic type that provides quick access to facts.

- **DITA Task Topic**

A DITA task topic is a specialized topic type that provides step-by-step instructions for completing a task.

## Create a DITA topic

1. Go to any folder and choose **More Commands ... > New** ✨ **> Add**. Alternatively, you can click **Add** ⊕ in the work area.
2. In the **New** tab of the **Add** panel, search for the term **DITA** from the **TYPE** list.
3. Choose from the list of DITA topic types:

DITA topic type	Description
<b>DITA Abstract Map</b>	This is a behind-the-scenes object. Users must not use this topic type.
<b>DITA Base</b>	This is a top-level container for multiple topics used to create documents that result in a single XML file during output processing.
<b>DITA Concept Topic</b>	This is a specialized topic type that provides background information to aid in the understanding of a product, interface, or task.
<b>DITA Dynamic Map</b>	This is used for organizing topics in a map.
<b>DITA Embedded Topic</b>	This is a topic type that is embedded within a parent topic.
<b>DITA Reference Topic</b>	This is a specialized topic type that provides quick access to facts.
<b>DITA Static Map</b>	This is used for organizing topics in a map. It is mainly used for content migrated from previous versions.
<b>DITA Task Topic</b>	This is a specialized topic type that provides step-by-step instructions for completing a task.
<b>DITA Topic</b>	This is a generic or unspecialized topic type.


- From the **Topic Type** list, select the topic type to associate with. The topic type determines which schema is used to validate the DITA topic and which stylesheets are used when a tool is launched to edit or publish the content.

Note:

The topic type may already be selected or the options may be limited to a specific topic type group, depending on how the **ctm0TopicTypeGroup** preference is set.

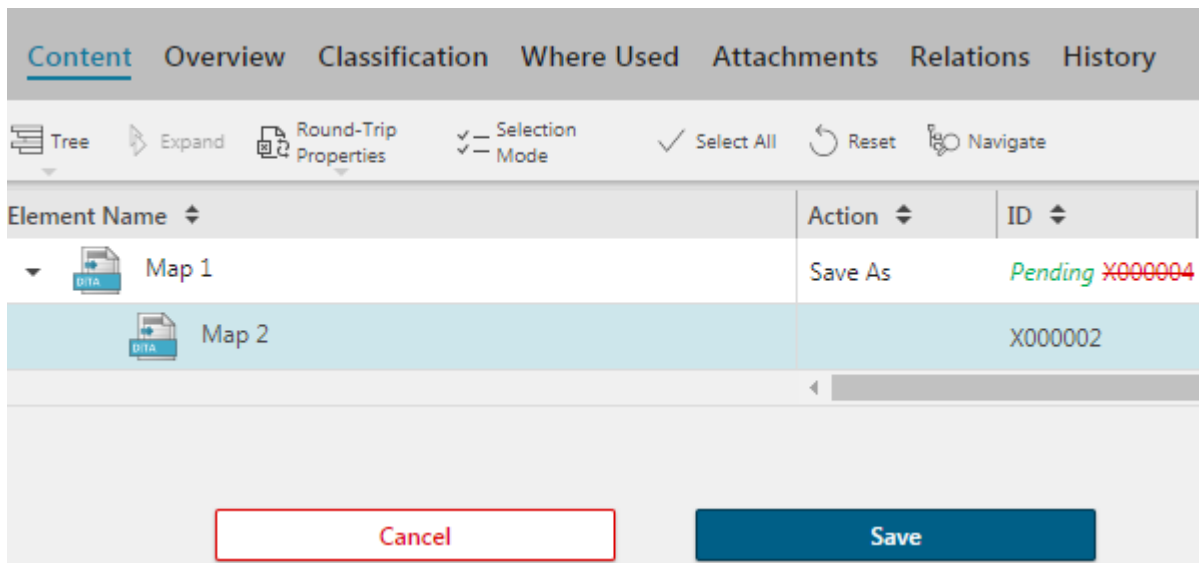
- Specify the **Revision**, **Name**, and **Document Title** and other properties of the topic.
- Select the **Template** check box to specify whether the DITA topic is to be used as a template.
- Select the **Reference Only** check box to specify whether the DITA topic must be referenced when it is referenced by another topic that is used as template. If this check box is not selected, the DITA topic is copied.
- Click **Add**.

## Create a DITA topic based on an existing topic

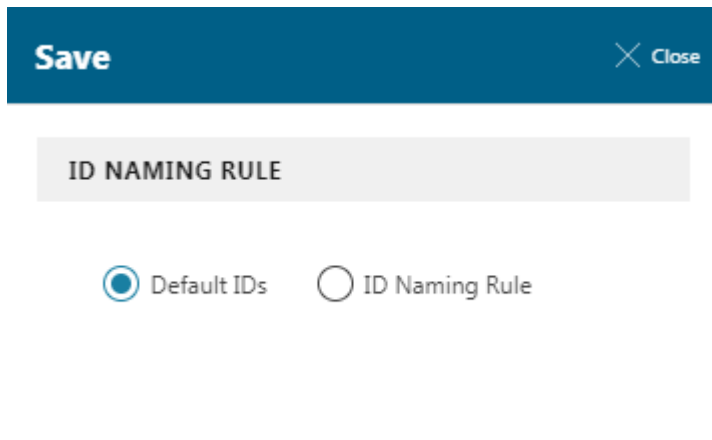
- Open a DITA topic and choose **More Commands** **...** > **New**  > **Save As**.
- In the **Save As** panel add the required information as follows:

For this option	Do this
<b>Name</b>	Type the name for the topic.
<b>Document Title</b>	Type the name for the new DITA document.
<b>Is a Template</b>	Select the <b>Template</b> check box to specify whether the DITA topic is to be used as a template.
<b>Reference only</b>	Select the <b>Reference Only</b> check box to specify whether the DITA topic must be referenced when it is referenced by another topic that is used as template. If this check box is not selected, the DITA topic is copied.
<b>DITA Audience</b>	Select the audience to assign to this topic.
<b>DITA Importance</b>	Select the level of importance to assign to this topic.
<b>DITA Other Properties</b>	Select other properties to assign to this topic.
<b>DITA Platform</b>	Select the platform to assign to this topic.
<b>DITA Product</b>	Select the product to assign to this topic.

3. If the DITA topic has child topics, you can also save the child topics. To save the child topics:
  - a. Select the **Specify children to duplicate** check box and click **Select**.
  - b. Select the child topics you wish to save and click **Save**.



- c. In the **Save** panel choose the **ID Naming Rule**.



4. Click **Save**.

To view the new topics, search for the topic in Teamcenter.

## Create child topics for DITA topics

1. Open a DITA topic, go to the **Content** tab, and choose **Add** ⊕ > **Child**.

In the **Add Child** panel, you can create a new topic, or you can add an existing topic as a child.

2. Create a new topic.
  - a. Click the **New** tab and select the DITA topic type from the **TYPE** list.

The topic type determines which schema is used to validate the DITA topic and which stylesheets are used when a tool is launched to edit or publish the content.

**Note:**

By default, the parent topic type is selected. The topic type options may be limited to a specific topic type group, depending on how the **ctm0TopicTypeGroup** preference is set.

- b. From the **Topic Type** list, select the type of reference to create between the parent topic and the child topic.
  - c. Select the master language from the **Master Language** list.
  - d. Specify the **Revision**, **Name**, **Document Title** and other properties of the topic.
  - e. Click **Add**.
3. Add an existing topic:

Click the **Palette** or **Search** tabs and select or search for an existing DITA topic.

Click any of the following options to add the topic as a child topic:


- **Add:** A reference is added to the original topic, and the topic appears as a child.
- **Add Copy:** A copy of the original topic is created and referenced. The new topic appears as a child.

## Import a DITA map

Note:

When importing, if your property values contain non-ASCII characters, you may get an error about exceeding the allowed length even though your property value is within the length limit. This is due to the fact that non-ASCII characters may take more storage space depending on the encoding used, for example, if you use the UTF-8 encoding, all ASCII characters are one byte but most Japanese characters are three bytes.

You can import a DITA map with all its child topics as follows:

1. Select or open a topic or a publication and choose **More Commands ... > Import/Export**  **> Import DITA Map**.
2. Update the **DITA Map** panel as follows:

For this option	Do this
<b>Choose File</b>	Select the DITA map which is in a ZIP format.
<b>DITA Map File Name</b>	The file name is automatically assigned based on the ZIP file that you selected in the previous step.
<b>Graphic Attribute Mapping</b>	Select how the graphic file names are mapped: <ul style="list-style-type: none"> <li>• <b>Default Graphic Attribute Mapping</b> Select this option to map the graphic file name as is.</li> <li>• <b>Default Graphic Attribute Mapping without suffix</b></li> </ul>

Caution:

Ensure that the **DITA Map File Name** has the same as the name of the DITA map you are importing. If the file names are different, the import fails.

- **Default Graphic Attribute Mapping**

Select this option to map the graphic file name as is.

- **Default Graphic Attribute Mapping without suffix**

**For this option****Do this****GRAPHIC MODE**

Select this option to map a part of the importing graphic file name, excluding the suffix.

Select this option if the file names contain more than one separator, for example, wheel.right.jpg.

If the topic contains references to graphics, select one of the following options to indicate how the topic references the graphic names:

**Note:**

You must import the graphics to be referenced before importing the topic that refers to the graphics. How these graphics are imported and named determines which option you choose.

- **Public ID**

The public identifiers of the graphics are used by the topic to reference graphics.

- **Original Name**

The original names of the graphics are used by the topic to reference graphics.

- **XML Number**

The XML numbers of the graphics are used by the topic to reference graphics.

- **Graphic Name**

The names of the graphics with or without the file extensions are used by the topic to reference graphics.

**REUSE EXISTING TOPIC**

Select the following options to indicate how the import searches for and handles topics already existing in the database or if you want to use the ID or XML number of the imported topic as its item ID in Teamcenter.

**For this option****Do this****Note:**

If none of these options are selected, all topics are imported as new topics, regardless of whether identical topics or content already exist in the database.

- **Find by XML Number**

Select this option to search the database for a topic with the same ID as the ID or XML number of the topics you are importing. If a topic with the same ID is not found, the ID or XML number of the topic is used as the ID instead of an auto-generated ID.

If your documents use content references, you must select this option to ensure content references are preserved because content references use item ID/XML numbers.

- **Find by Content**

Select this option to search the database for topics with the same content as that in any of the topics you are importing. When a topic is found with the exact content (including tags and the attribute values) as the one being imported, the topic is not imported.

3. To assess the impact of the DITA map and its associated topics, and to see what changes will occur, click **Preview Impact**.

This command generates an impact report that shows the item ID, the item type, the items impacted by the import, the changes, and an explanation of the changes that will occur.

After the report is generated, you can download it in HTML format. You can access the report in the **Alerts** section, and it is also timestamped and saved in the **Newstuff** folder.

**Note:**

If you do not see the report in the **Alerts** section, contact your system administrator to configure Teamcenter Dispatcher for asynchronous processing.

4. To incorporate the changes shown in the impact preview report, click **Import** in the **Preview** section.

The **Import Content** panel appears with the options that you selected previously.

5. Click **Choose File** to reselect the DITA map files to import, and then click **Import**.

The DITA map and its associated topics are imported to the folder you selected.



# 3. Authoring S1000D content

## Overview of authoring S1000D content

S1000D is an international specification for technical publications that use a Common Source Database (CSDB). To download sample content that you can view or import, see [www.S1000D.org](http://www.S1000D.org), which includes the sample XML content and illustrations for a fictional bike.

Content Management supports these objects for S1000D:

- **Data Module**

A data module is a self-contained information unit. Every data module contains an identification and status section and a content section that contains text and illustrations. Content Management supports the standard S1000D data module types, including Business Rules Exchange (BREX), procedural type, and descriptive type.

- **Data Module List**

A data module list (DML) identifies the data modules in a project. It contains an identification and status section and the data module requirement list content. The DML object can be related to data module objects, but it is not required. When you relate data modules to it, the DML can be used to group data modules together in a compiled dataset.

- **Data Dispatch Note**

A data dispatch note (DDN) contains information about the sender, receiver, and content of a dispatch. It can be related to several data modules. When related to a data module, additional SGML or XML code is automatically added to the DDN about the data module. A data module can be related to multiple DDNs.

- **Publication Module**

A publication module defines the content and the structure of a publication. It contains an identification and status section and a content section that contains references to data modules, other publication modules, and legacy technical publications. The publication module for S1000D content is not the same type of object as the publication topic type used in Base Content Management.

- **Commentary**

A commentary, or comment, is used to report issues on data modules during the verification process and the in-service phase of the product. It contains an identification and status section and a content section that contains the original comment and may include a response to a comment. A comment can be related to a data module, publication module, DML, or DDN. It is important to note that it must have at least one of these relations.

- **Illustration Control Number**

The illustration control number (ICN) is used to manage graphics and to ensure that the graphic is compliant with S1000D graphic guidelines.

- **In-Process Review Form**

An in-process review form contains the review of the data modules provided by the customer or the contractor.

- **Sharable Content Object Reference Model Content Package**

A package that contains the content and metadata for e-learning developed in accordance with the Sharable Content Object Reference Model (SCORM) standard.

- **Standard Numbering System**

An S1000D standard numbering system (SNS) structure defines the numbering scheme, program, and organization data used in data modules for specific S1000D projects.


With the S1000D solution:

- Administrators can setup S1000D by installing S1000D support, creating or importing SNS structures, and other configurations. For more information, see *Content Management Administration* in the Teamcenter help collection.
- Authors can:
  - Administrators can set up S1000D by installing S1000D support, creating or importing SNS structures, and performing other configurations.
  - Authors can:
    - Create or import S1000D data module types. These data modules can be associated with an SNS. When you associate a data module with an SNS, many of the properties that make up the data module code (DMC), are automatically set for the data module.
    - Author content in an XML editor such as XMetaL.
    - Validate the data modules using BREX data modules.
    - Create and associate a publication module with data modules and SNS.
    - Publish S1000D content in a format such as PDF, HTML, or other formats. Note, that administrators have to set up the publication process.

- Create DML and DDN for exchanging data with partners.
- Import DMRL for importing data from partners.
- Use other Content Management and Teamcenter features such as translations, reviews, and workflows.

## Import illustrations

You can import illustrations (ICNs) so that they are available for reuse by publications.

1. Go to any folder and choose **More Commands ... > Import/Export**  **> Import Content**.
2. In the **Import Content** panel, from the **CONTENT TYPE** list select **Graphic**.
3. Update as follows:

For this option	Do this
<b>Choose File</b>	Select the graphics that you want to import.
<b>Graphic Attribute Mapping</b>	Select the applicable graphic attribute map that matches your standard.
<b>Graphic Classname</b>	Choose <b>S1000D Graphic</b> .
<b>OVERWRITE MODE</b>	Select one of the following: <ul style="list-style-type: none"> <li>• <b>Skip existing</b> <p>The graphics are not imported if they already exist in Teamcenter.</p> </li> <li>• <b>Overwrite existing</b> <p>If the graphics already exist in Content Management, they are overwritten.</p> </li> </ul>
<b>GRAPHIC USAGES</b>	Select the relevant option for the graphic based on its intended use:

For this option	Do this																
	<table border="1"> <thead> <tr> <th>If the graphic will be used for this purpose</th> <th>Select this option</th> </tr> </thead> <tbody> <tr> <td>High-resolution graphics in printed output</td> <td><b>PDF</b></td> </tr> <tr> <td>Image intended to appear on a web browser</td> <td><b>Web</b></td> </tr> <tr> <td>Graphics in a resolution appropriate for printing</td> <td><b>Print</b></td> </tr> <tr> <td>Low-resolution images, typically for viewing only</td> <td><b>View</b></td> </tr> <tr> <td>Icons in the published output</td> <td><b>Icon</b></td> </tr> <tr> <td>Small-scale images</td> <td><b>Thumbnail</b></td> </tr> <tr> <td>Original version of the graphic</td> <td><b>Source</b></td> </tr> </tbody> </table>	If the graphic will be used for this purpose	Select this option	High-resolution graphics in printed output	<b>PDF</b>	Image intended to appear on a web browser	<b>Web</b>	Graphics in a resolution appropriate for printing	<b>Print</b>	Low-resolution images, typically for viewing only	<b>View</b>	Icons in the published output	<b>Icon</b>	Small-scale images	<b>Thumbnail</b>	Original version of the graphic	<b>Source</b>
If the graphic will be used for this purpose	Select this option																
High-resolution graphics in printed output	<b>PDF</b>																
Image intended to appear on a web browser	<b>Web</b>																
Graphics in a resolution appropriate for printing	<b>Print</b>																
Low-resolution images, typically for viewing only	<b>View</b>																
Icons in the published output	<b>Icon</b>																
Small-scale images	<b>Thumbnail</b>																
Original version of the graphic	<b>Source</b>																
<b>LANGUAGE</b>	Select the languages for the graphics being imported.																


#### 4. Click **Import**.

The graphics are imported to the selected folder. You can view the graphic in the **Viewer** and use the **Markup** mode to add markup to the graphics.

## Import S1000D data modules against an SNS

Note:

Ensure that the administrator has imported or created the SNS structure.

1. Go to a folder and choose **More Commands ... > Import/Export**  **> Import Content**.
2. Update the panels as follows:

For this option	Do this
<b>Choose File</b>	Select the S1000D data modules that you want to import.
<b>Graphic Attribute Mapping</b>	<p>Choose a S1000D version from the list.</p> <p>Selecting one of these options ensures that the data module content is mapped to the Teamcenter object.</p>
<b>GRAPHIC MODE</b>	<p>If the topic contains references to graphics, select one of the following options to indicate how the topic references the graphic names:</p> <div data-bbox="695 575 1451 814" style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p><b>Note:</b></p> <p>You must import the graphics to be referenced before importing the topic that refers to the graphics. How these graphics are imported and named accordingly determines which of the following options you choose.</p> </div> <ul style="list-style-type: none"> <li data-bbox="678 852 829 884">• <b>Public ID</b></li> <li data-bbox="711 930 1451 999"> <p>The public identifiers of the graphics are used by the topic to reference graphics.</p> </li> <li data-bbox="678 1041 906 1073">• <b>Original Name</b></li> <li data-bbox="711 1119 1451 1188"> <p>The original names of the graphics are used by the topic to reference graphics.</p> </li> <li data-bbox="678 1230 889 1262">• <b>XML Number</b></li> <li data-bbox="711 1308 1451 1377"> <p>The XML numbers of the graphics are used by the topic to reference graphics.</p> </li> <li data-bbox="678 1419 902 1451">• <b>Graphic Name</b></li> <li data-bbox="711 1497 1406 1566"> <p>The names of the graphics with or without the file extensions are used by the topic to reference graphics.</p> </li> </ul>
<b>REUSE EXISTING TOPIC</b>	<p>Select the following options to indicate how the import searches for and handles topics that already exist in the database and whether to use the ID or XML number of the imported topic as its item ID in Teamcenter.</p>

**For this option****Do this****Note:**

If none of these options are selected, all topics are imported as new topics, regardless of whether identical topics or content already exist in the database.

- **Find by XML Number**

Select this option to search the database for a topic with the same ID as the ID or XML number of the topics you are importing. If a topic with the same ID is not found, the ID or XML number of the topic is used as the ID instead of an auto-generated ID.

If your documents use content references, you must select this option to ensure that content references are preserved because content references use item ID/XML numbers.

- **Find by Content**

Select this option to search the database for topics having the same content as the topics you are importing. When a topic is found with the exact content (including tags and the attribute values) as the one being imported, the topic is not imported.

3. Click **Import**.

The data modules are imported to your selected folder and associated with the SNS. Search for the SNS to see the data modules associated with it.

## Create an S1000D data module against an SNS

**Note:**

You can create a data module without associating it to an SNS. However, creating data modules against an SNS is more efficient as the data module properties are automatically filled in from the SNS.

1. Open the SNS and select a disassembly node.
2. Click **Add** ⊕ > **Child**.

3. In the **Add Child** panel, under the **Type** list, ensure that **S1000D Data Module 4.X/5.X** is selected.
4. Update the panels as follows:
  - a. In the **REFERENCES** section:
    - A. Choose the data module type from the **Topic Type** list.
    - B. Choose the language from the **Master Language** list.
  - b. In the **DATA MODULE CODE** section, fill in the data module code details that are not filled in automatically from the SNS.
  - c. In the **PROPERTIES** section, specify a name for the data module in the **Technical Name** box.
  - d. In the **OTHER DATA MODULES DETAILS** section, specify the remaining details.
5. Click **Add**.

The data module appears under the SNS node.

## Create an S1000D data module independently

1. Go to a folder and choose **More Commands ... > New ✨ > Add Content**.
2. In the **Add Content** panel, select **S1000D Data Module 4.X/5.X**.
3. Update the **Add Content** panel with the mandatory information and click **Create**.

The data module is created in the selected folder.

## Create an S1000D data module based on an existing module

1. Open a data module and choose **More Commands ... > New ✨ > Save As**.
2. In the **Save As** panel add the required information.
3. If the **Advanced Copy Options** section, select what information you want to keep, reference, or remove.

You can choose from the following options:

Option	Description
<b>Remove</b>	Removes the content.
<b>Save As</b>	Saves a copy of the content.
<b>Reference</b>	References the content.

#### ▼ Advanced Copy Options



Source	Relation	Action	ID
S1000DBIKE		Save As	<i>Pending 032015</i>
900 Miscellaneous	S1000D Standard Numb...	Save As	
921 Change = ...	Information Code Relati...	Save As	
<del>933 Accomplis...</del>	<del>Information Code Relati...</del>	Remove	
<del>930 Service Bull...</del>	<del>Information Code Relati...</del>	Remove	
<del>952 Generic lea...</del>	<del>Information Code Relati...</del>	Remove	
<del>941 Illustrated ...</del>	<del>Information Code Relati...</del>	Remove	
<del>934 Material inf...</del>	<del>Information Code Relati...</del>	Remove	
600 Repairs and lo...	S1000D Standard Numb...	Reference	

4. Click **Save**.

## Validate a data module using the business rules exchange data module

When authoring using the S1000D standard, you validate data modules against a business rules exchange (BREX) data module to verify that the data modules conform to a project's business rules. Content Management provides a validation tool with which you can validate a single data module, a group of selected data modules, or all data modules in a data module list (DML), data dispatch note (DDN), or publication module.

To validate a data module using BREX:

1. Select one or more data modules, a data dispatch note, or a publication module.
2. Choose **More Commands** **...** > **Manage** > **BREX Validation**.

- In the **BREX Validation** panel, choose **Run in Background** option to run the validation while you perform other tasks in Teamcenter. When the validation is complete, results are displayed in the **Alerts** panel, and they are attached to the data module in Teamcenter as an additional log file.

If you do not choose this option, the validations runs while you wait for it to be completed. You cannot perform other tasks in Teamcenter while it is running. The results are displayed after the validation.

Click **Validate**.

Depending on the validation option you choose, the validation results are either displayed or you are notified about the results in the **Alerts** panel.

## Import publication modules

- Go to a folder and choose **More Commands ... > Import/Export**  **> Import Content**.
- Update the panels as follows:

### For this option

### Do this

#### Choose File

Select the publication modules that you want to import.

#### Graphic Attribute Mapping

Select the attribute map that corresponds with your version of S1000D.

#### GRAPHIC MODE

If the module contains references to graphics, select one of the following options to indicate how the topic references the graphic names:

#### Note:

You must import the graphics to be referenced before importing the module that refers to the graphics. How these graphics are imported and named accordingly determines which option you choose.

- **Public ID**

The public identifiers of the graphics are used by the module to reference graphics.

- **Original Name**

The original names of the graphics are used by the module to reference graphics.

**For this option****Do this****REUSE EXISTING TOPIC**

- **XML Number**

The XML numbers of the graphics are used by the module to reference graphics.

- **Graphic Name**

The names of the graphics with or without the file extensions are used by the module to reference graphics.

Select the following options to indicate how the import searches for and handles topics that already exist in the database and whether to use the ID or XML number of the imported topic as its item ID in Teamcenter.

**Note:**

If neither of these options are selected, all modules are imported as new modules, regardless of whether identical topics or content already exist in the database.

- **Find by XML Number**

Select this option to search the database for a module with the same ID as the ID or XML number of the topics you are importing. If a module with the same ID is not found, the ID or XML number of the module is used as the ID instead of an auto-generated ID.

If your documents use content references, you must select this option to ensure content references are preserved because they use item ID/XML numbers.

- **Find by Content**

Select this option to search the database for modules containing the same content as any of the modules you are importing. When a module is found with the exact content (including tags and the attribute values) as the one being imported, the module is not imported.

3. Click **Import**.

The publications modules are imported to the folder you selected, and the data modules and illustrations related to the publication module are also created.

## Create a publication module

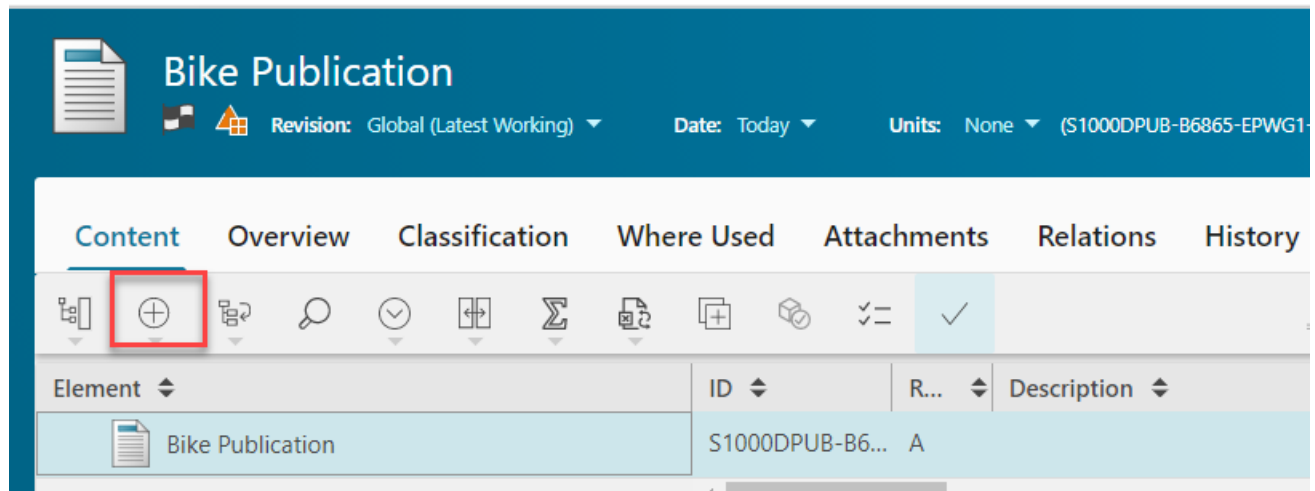
1. Go to a folder and choose **More Commands ...** > **New** ✨ > **Add Content**.
2. In the **Add Content** panel, select **S1000D PUBLICATION MODULE 4.X/5.X**.
3. Update the **Add Content** panel with the mandatory information and click **Create**.

The publications module is created in the folder you selected. You must associate data modules and illustrations with this publication module to create a publication.

## Building a publication by associating data modules to the publication module

You can associate a data module to a publication module in one of the following ways:

- Paste a data module to a publication module.
- Use the **Add** command and create a child by searching for or pasting a data module.



Adding data modules to a publication structure follows the rules of the XML schema for that publication module. Specific types of data modules can only be pasted in certain areas. Check with your administrator if you are having problems creating relationships between data modules and pmEntry objects.

## Publish S1000D content

1. Select a data module or a publication module, and choose **More Commands ...** > **Share** 🔗 > **Publish Topic**.

2. Update the **Publish Topic** panel as follows:

For this option	Do this
<b>Tool</b>	Select the publishing tool for the type of output you are generating. The selection depends on the tools installed on your computer and set up in the system by your application administrator.
<b>Style Type</b>	Select the style type (collection of style sheets) to be used to publish the content. The style types are set by your application administrator.
<b>Language</b>	Select the language in which to publish the resulting output.
<b>Translation Version</b>	<p>Select the translated version of the content to be published when a language other than the master language is selected:</p> <ul style="list-style-type: none"> <li data-bbox="732 852 976 882">• <b>Latest Received</b></li> <p data-bbox="764 930 1468 1100">The latest received translation in the selected language is selected for publishing regardless of the content version in the master language. However, if no translation exists for the selected language, the master language is used.</p> <li data-bbox="732 1146 927 1176">• <b>Match Topic</b></li> <p data-bbox="764 1224 1430 1356">If the latest content version in the master language is the same as that in the translation, the translation is selected for publishing. Otherwise, the master language is used.</p> <li data-bbox="732 1402 886 1432">• <b>Received</b></li> <p data-bbox="764 1480 1422 1787">The latest received translation in the selected language with a content version older than or as current as the master language version is selected for publishing. If all translation content versions are newer, or if no translation exists for the selected language, the master language is used. This option is typically used when you publish an older version of the content and you do not wish to include translations that have newer content.</p> </ul>
<b>Register Result</b>	If you want to create a composed document or a reviewer document, select the type accordingly:

**For this option****Do this**

- **Composed Document**

A composed document contains the full content of the document. It can be exported, sent for publishing again, or stored as a final document.

- **Reviewer Document**

A composed document that can be submitted to a workflow for review.

**Transformation Policy**

To apply an XML transformation policy to the content you are publishing, select the policy from the list.

A transformation policy can be used to modify content when it is published or exported. For example, it could convert units of measure, such as US standard to metric. Your administrator must create a transform policy before it is available for you to use.

3. To display the estimated size of the published file before you publish it, select **Check to calculate the estimated size after publish** check box.

The size is estimated based on the sizes of the XML content and any included graphic files. This may be different from the final output size as different file formats have different compression schemes.

4. In the **Schema Validation** section depending on how your administrator has setup how publication should be done based on the schema validation results, a schema validation option will be enabled automatically or you can select from the following options:

Validation option	Result
<b>Publish with validation errors</b>	Publish the content even if schema validation errors exist. A log is provided with errors to support correcting content.
<b>Do not publish on validation errors</b>	If validation errors exist, publish will not complete. A log is provided with errors to support correcting content.
<b>Publish without validation</b>	Publish without checking schema validation on content. Publish will complete unless other errors prevent compilation and publish.

5. Click **Publish**.

Refresh your browser to see the published results. The published files appear in the **Viewer** section.

**Overview** Classification Where Used Attachments Relations History

**PROPERTIES**

Topic Type Reference: PM-4-2

Type: S1000D Publication Module Revision 4.0/4.1/4.2

ID: S1000DLIGHTING-B6865-EPWG1-00

Revision: A

Name: Publication for all S1000DLIGHTING data modules

Master Language Reference: English US

Document Title: Publication for all S1000DLIGHTING data modules

---

Extension Producer:

Extension Code:

Model Identification Code: S1000DLIGHTING

Issuing Authority: B6865

**VIEWER**


CMS-R-018848-PDF\_Reference-pdf PDF

08 Apr 2024 112 KB

## Create Data Module Lists and export them to partners

A data module list can be used to share the data modules with partners.

### Create a data module list

1. Go to a folder and choose **More Commands** **...** > **New**  > **Add Content**.
2. In the **Add Content** panel and select **S1000D DATA MODULE LIST 4.X/5.X**.
3. Update the **Add Content** panel with the mandatory information and click **Create**.

The data module is created in the folder you selected.

## Associate data modules and other content to the data module list

You can associate a data module or a data dispatch note to a data module list in one of the following ways:

- Paste a data module to a publication module.
- Use the **Add** command and create a child by searching for or pasting a data module.

## Export a data module list

1. Open a data module list and choose **More Commands...** > **Import/Export**  > **Export Topic**.
2. Update the panels as follows:

For this option	Do this
<b>Language</b>	Select the language you want to use for the exported content.
<b>CONTENT</b>	<p>Select any of the following to choose the contents of the .zip file:</p> <ul style="list-style-type: none"> <li>• <b>Include Main Content</b> Includes the XML files for the topic content.</li> <li>• <b>Include Supporting Data</b> Includes the schemas for the exported topics.</li> <li>• <b>Include Graphic Data</b> Includes the graphics embedded in the topics.</li> </ul>
<b>Transformation Policy</b>	<p>To apply an XML transformation policy to the content you are exporting, select the policy from the list.</p> <p>A transformation policy can be used to modify content when it is published or exported. For example, it could convert units of measure, for example, from US standard to metric. Your administrator must create a transform policy before it is available for you to use.</p>
<b>REFERENCES</b>	Select any of the following to choose the content to include in the export:

**For this option****Do this**

- **Include Content References**

Includes topics that are referenced by the topic or the publication you are exporting.

- **Include Compose References**

Includes topics that are referenced by composable reference relations. Composable topic references are created by relating topics in Teamcenter. This reference type is typically used to enable the creation of DITA Dynamic Maps and publication modules.

**GRAPHIC MODE**

Select one of the following to indicate how the content references the graphic names:

Note:

- The way you export graphics impacts whether the references to graphics can be resolved when the exported content is imported into another system.
- To include graphics in the export, select either **Public ID** or **Import Original Name**. If you select **XML Number** or **Graphic Name**, graphics are not exported.
- The characters `/|~`';:!"*?<>` are invalid when used in the public ID or in the original import name of the graphics. When you export a topic containing graphics with these characters, they are converted to an underscore (`_`).

- **Public ID**

The public identifiers of the graphics are used by the topic to reference graphics.

- **Original Name**

The original names of the graphics are used by the topic to reference graphics.

- **XML Number**

For this option	Do this
<b>Graphic Priority</b>	<p>The XML numbers of the graphics are used by the topic to reference graphics.</p> <ul style="list-style-type: none"> <li>• <b>Graphic Name</b></li> </ul> <p>The names of the graphics with or without the file extensions are used by the topic to reference graphics.</p> <p>Select the graphic priority to determine in what order the topic's graphic options are selected in the output. This is based on the graphic usage options that you selected when you imported the graphic.</p>

### 3. Click **Export**.

The data module list is downloaded through your browser as a ZIP file. Save the data module list and send it to the translator.

## Filter the S1000D structure using closure rules


You can filter your S1000D structure using closure rules.

### Procedure

1. Open your S1000D structure.
2. From the **Expansion** list, choose any of the following closure rules:
  - **ContMgmt\_Skip\_BREX\_and\_Applicab**  
Hides BREX rules and applicability.
  - **ContMgmt\_Skip\_BREX**  
Hides BREX rules.
  - **ContMgmt\_Skip\_Applicability**  
Hides applicability.

The S1000D structure is filtered using the closure rule that you selected.

## Import Data Module Lists (DML)

1. Go to a folder and choose **More Commands ... > Import/Export**  **> Import Content**.
2. Update the panels as follows:

### For this option

### Do this

#### Choose File

Select the Data Module Lists that you want to import.

#### Graphic Attribute Mapping

Select the attribute map that corresponds with your version of S1000D.

#### GRAPHIC MODE

If the module contains references to graphics, select one of the following options to indicate how the topic references the graphic names:

#### Note:

You must import the graphics to be referenced before importing the module that refers to the graphics. How these graphics are imported and named accordingly determines which option you choose.

- **Public ID**

The public identifiers of the graphics are used by the module to reference graphics.

- **Original Name**

The original names of the graphics are used by the module to reference graphics.

- **XML Number**

The XML numbers of the graphics are used by the module to reference graphics.

- **Graphic Name**

The names of the graphics with or without the file extensions are used by the module to reference graphics.

#### REUSE EXISTING TOPIC

Select the following options to indicate how the import searches for and handles topics that already exist in the

**For this option****Do this**

database and whether to use the ID or XML number of the imported topic as its item ID in Teamcenter.

**Note:**

If neither of these options are selected, all modules are imported as new modules, regardless of whether identical topics or content already exist in the database.

- **Find by XML Number**

Select this option to search the database for a module with the same ID as the ID or XML number of the topics you are importing. If a module with the same ID is not found, the ID or XML number of the module is used as the ID instead of an auto-generated ID.

If your documents use content references, you must select this option to ensure content references are preserved because they use item ID/XML numbers.

- **Find by Content**

Select this option to search the database for modules containing the same content as any of the modules you are importing. When a module is found with the exact content (including tags and the attribute values) as the one being imported, the module is not imported.

3. Click **Import**.

The Data Module Lists are imported to the folder you selected.

## Import a data management requirement list

A data management requirement list (DMRL) identifies the data modules planned for a specific project. When you import a DMRL, data modules specified in the DMRL are created in Teamcenter. The data modules are imported to the folder you selected or associated with a standard numbering system (SNS) structure.

To import a DMRL:

1. Prepare the .csv file.

2. Import the DMRL.

### Prepare the .csv file

1. Use a text editor to create a .csv file to create a DMRL that lists the data modules you want to create in Content Management. Microsoft Office Excel is not recommended for this as it may remove leading zeros.

A sample .csv file is included in the administration data provided with the Content Management installation:

`TC_ROOT\contmgmts1000d40_data\data\admin\bulk\ImportDataModule.csv`

2. Include the following values in the order listed. Use a comma for any optional value that is blank.

Model identification code

System difference code

System code

Subsystem code

Sub-subsystem code

Assembly code

Disassembly code

Disassembly code variant

Information code

Information code variant

Item location code

Language

Extension code (optional)

Extension Producer (optional)

Learn Code (optional)

Learn Event Code (optional)

Technical Name

Information Name (optional)

Security classification

Topic type

Originator name

Originator CAGE code

Responsible partner company name


Responsible partner company CAGE code

Example:

This is a line representing a data module:

```
S1000DBIKE, TEMP, DA2, 0, 0, 00, 00, AB, 042, A, A, English US, , , , ,
Temp System,
Temp Description, 01, Description-4-1, ORG Name, ORG41, RPC Name, RPC41
```

## Import the DMRL

1. Go to any folder and choose **More Commands ... > Import/Export**  **> Import Content**.
2. In the **Import Content** panel, choose **DMRL**.
3. In the **Import Content** panel click **Choose File** and select the .csv file.
4. Click **Import**.

The DMRL is imported to the folder you selected or associated with an SNS.



# 4. Using Oxygen XML Editor and Oxygen XML Author

## Overview of using XML Editor and XML Author with Teamcenter

You can open DITA content from Teamcenter in XML Editor and XML Author.

**Note:**

You can find the supported versions of XML Editor and XML Author in the *Teamcenter Integrations Availability Matrix*. For more information, refer to the Hardware and Software Certifications knowledge base article on <https://support.sw.siemens.com>.

To do this, you must integrate XML Editor and XML Author with Teamcenter as follows:

- Install the Teamcenter plugin for Oxygen XML.
- Configure XML Editor and XML Author to connect to Teamcenter.
- Ensure that your administrator enables the **Open in Oxygen** command.

This integration allows you to:

- Open Teamcenter XML topics and data modules in XML Editor and XML Author from Teamcenter.
- Author content in XML Editor and XML Author and save the content back to Teamcenter.
- Create a topic in XML Editor and XML Author.
- Add topic and graphic references in XML Editor and XML Author.
- Remove a topic reference in XML Editor and XML Author.
- Create content references for reuse between DITA topics in XML Editor and XML Author
- Reference a graphic from Teamcenter in XML Editor and XML Author
- Log on to Teamcenter from XML Editor and XML Author.
- Log out of Teamcenter from XML Editor and XML Author.

## Install and configure the integration with XML Editor and XML Author

### Integrate XML Editor and XML Author with Teamcenter by installing the Teamcenter plugin for Oxygen

To integrate XML Editor and XML Author with Teamcenter, you must install the Teamcenter plugin for Oxygen on your desktop.

#### Prerequisites

Ensure that XML Editor and XML Author is already installed on your desktop.

You can find the supported versions of XML Editor and XML Author in the *Teamcenter Integrations Availability Matrix*. For more information, refer to the Hardware and Software Certifications knowledge base article on <https://support.sw.siemens.com>.

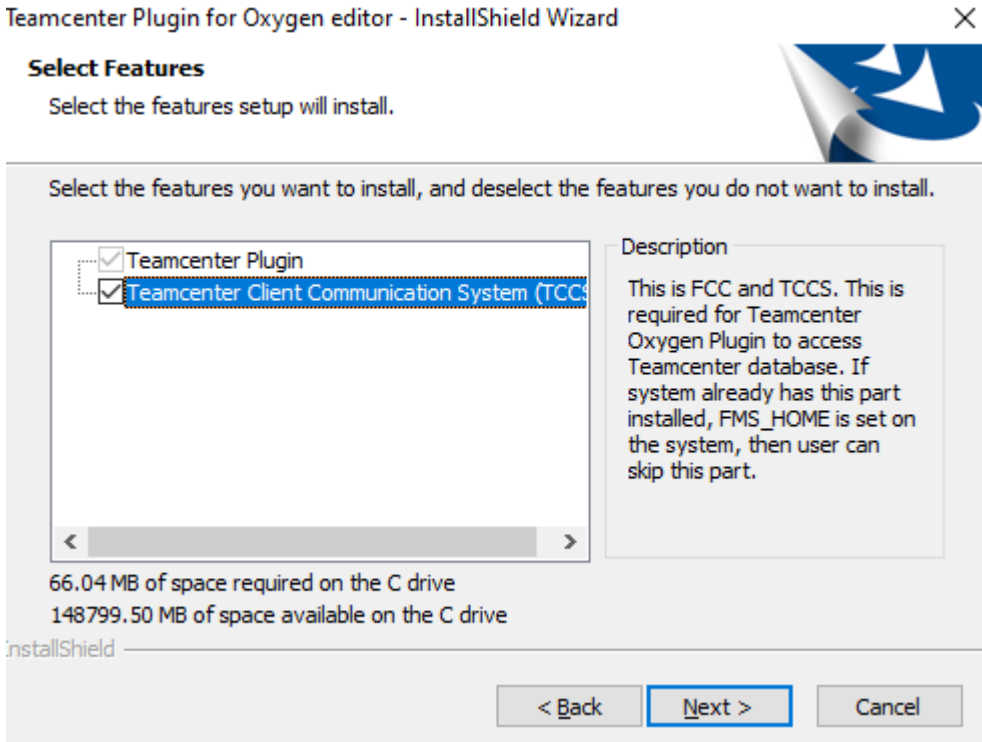
#### Procedure

1. Download and unzip the *Teamcenter-install-kit\additional\_applications\oxygen\_install.zip* file.

Open the *oxygen\_install* folder and run the *setup.exe* executable.

2. Click **Next** until you reach the **Select Features** dialog box.

In the **Select Features** dialog box, select the **Teamcenter Client Communication System (TCCS)** option to install FCC and TCCS.



Select this option only if FCC and TCCS do not already exist on your machine or you want a new instance of FCC and TCCS.

3. Click **Next**.
4. In the **Choose Destination Location** dialog box, type or browse to the JRE folder.

You can find supported versions of JAVA in the *Teamcenter Integrations Availability Matrix*. For more information, refer to the Hardware and Software Certifications knowledge base article on <https://support.sw.siemens.com>.

Click **Next**.

5. In the **Teamcenter FCC Parent Settings** dialog box, click **Add** and type FSC details such as the host and port values.

Click **OK**.

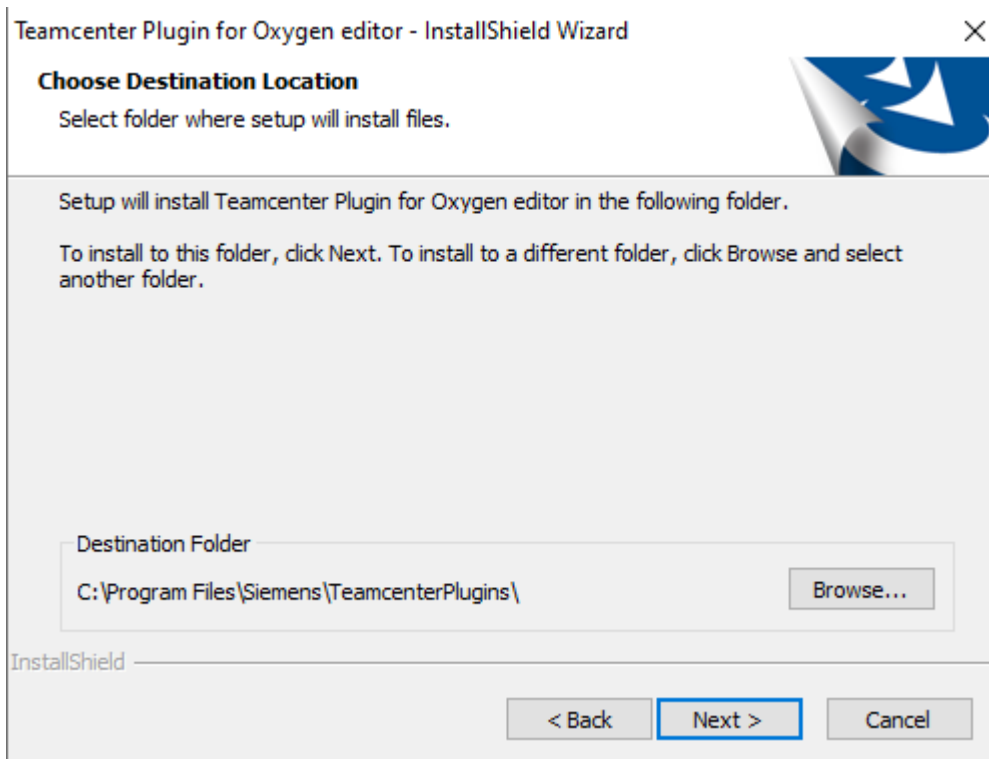
**Teamcenter Plugin for Oxygen editor - InstallShield Wizard** ✕

Enter this FCC's parent FSC's information. The FSC's will be used based on the defined priorities. FSC's path is optional and its general form is tc/fms/<site\_id>.

Protocol	<input type="text" value="HTTP"/>
Host	<input type="text" value="10.134.65.15"/>
Port	<input type="text" value="4544"/>
Path	<input type="text"/>
Priority	<input type="text" value="0"/>

InstallShield

6. In the **Teamcenter FCC Parent Settings** dialog box, verify the FCC parent settings and click **Next**.
7. Choose the folder where the Teamcenter plugin for Oxygen Editor must be installed.  
Click **Next**.



8. In the **Start Copying Files** dialog box, click **Next**.

## Results

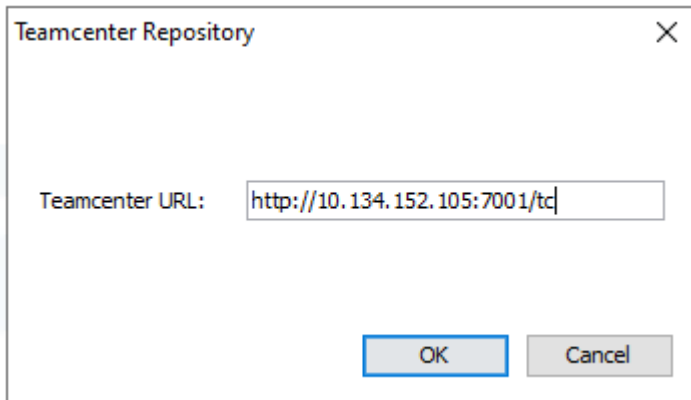
After you finish running the installer, a Teamcenter menu becomes available in XML Editor and XML Author.

## Configure the connection between XML Editor and XML Author and Teamcenter

You can configure the connection to Teamcenter in XML Editor and XML Author by specifying the Teamcenter server URL information.

## Procedure

1. In XML Editor and XML Author, click **Teamcenter**> **Configure Repository**.
2. Type the Teamcenter server URL in the Teamcenter URL box and click OK.



## Configuring schemas in Oxygen

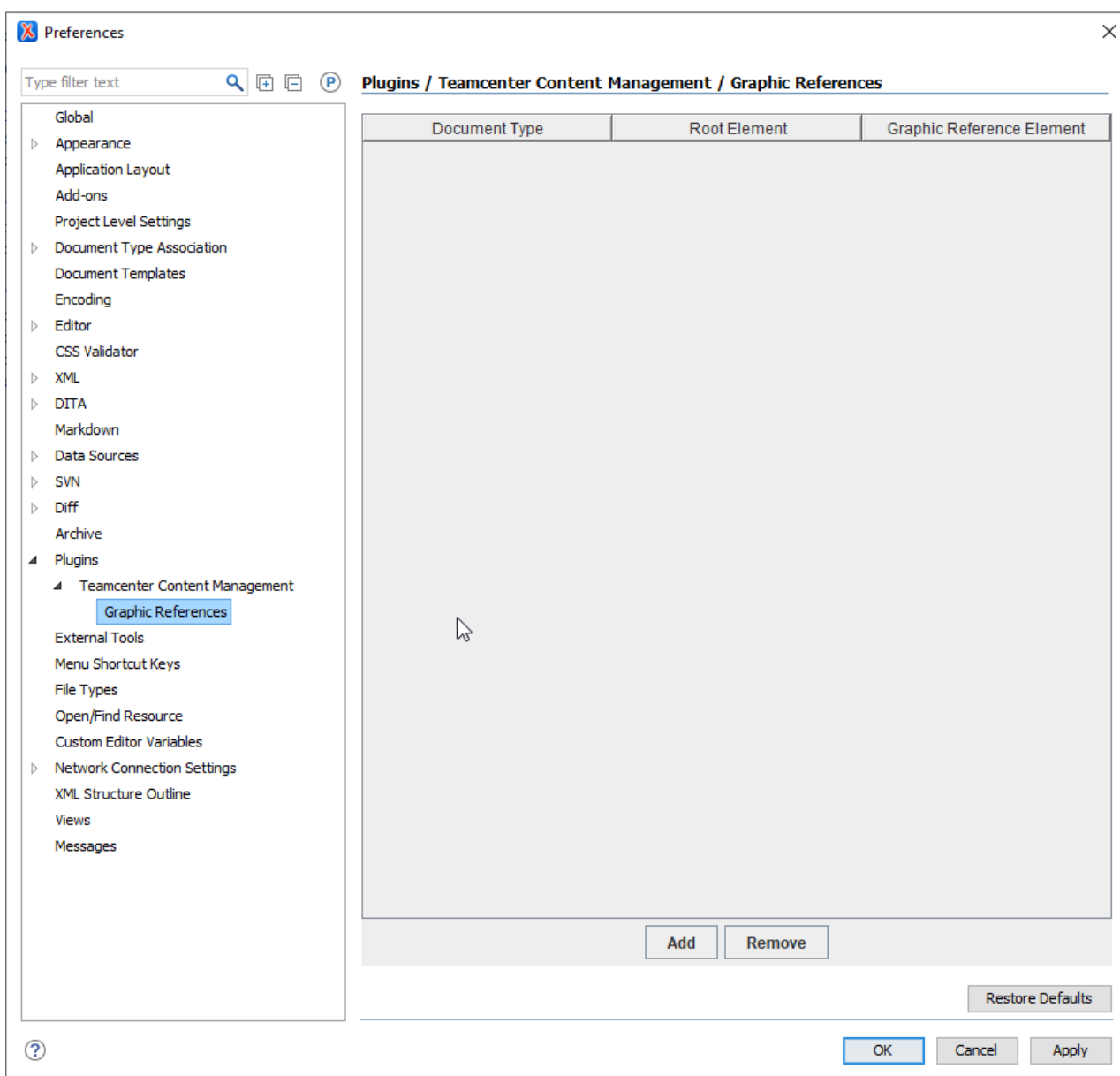
To ensure all users are working with the right schemas, administrators must ensure that the same schemas that are used in Teamcenter are also accessible in XML Editor and XML Author.

## Configure graphic references for working with graphics in XML Editor and XML Author

You can specify graphic references in XML Editor and XML Author. This definition applies the appropriate tags for a specific topic type when you paste a graphic reference.

### Procedure

1. In XML Editor and XML Author, click **Options > Preferences**.
2. In the **Preferences** dialog box, navigate to *Plugins > Teamcenter Content Management > Graphic References*.



3. To add new graphic references, in the **Preferences** dialog box, click **Add**.

4. In the **New Graphic Reference** dialog box add the following information:

- **Document Type**

Specifies the publication standard such as Docbook or ATA.

- **Root Element**

(Optional) Specifies the root element of the document where the graphic reference element schema is applied. If you do not specify the root element the graphic reference element schema is applied to all documents in the document type.

If your document type has multiple graphic elements, you can use the root element to specify where the different graphic elements should be used.

- **Graphic Reference Element**

Specifies the graphic information to be used.

The format of specifying the graphic element data is:

```
<imagedata image-attribute="attribute-flag" />
```

Example:

```
<imagedata fileref="%f" />
```

You can use the following attribute flags

Attribute flag	Description
%f	Graphic URL of filename
%e	Graphic file extension
%s	Graphic option system ID

You can use multiple attributes in the graphic reference. Note that at least one attribute must contain the %f flag.

## Uninstall the Teamcenter plugin for Oxygen

You can uninstall the Teamcenter plugin for Oxygen by running the plugin again. Note that if you are running a new version of the plugin, the plugin is updated and not uninstalled.

### Procedure

1. Run the *setup.exe* executable.
2. In the dialog box that asks if you want to remove the application, select **Yes**.
3. Click **Finish**.

## Author content using XML Editor and XML Author

### Log on to Teamcenter from XML Editor and XML Author

To save the changes that you make in XML Editor and XML Author, you must first log on to Teamcenter from XML Editor and XML Author.

#### Procedure

1. Choose an option:
  - If you are not logged on to Teamcenter and you try to close a topic with changes, a dialog appears with the **Login** command. Click the **Login** command.
  - In XML Editor and XML Author, click **Teamcenter > Login**.
2. In the **Teamcenter Login** dialog box, type your Teamcenter credentials and click **OK**.

#### Results

A confirmation dialog box specifies that the logon to Teamcenter is successful.

### Open content in XML Editor and XML Author from Teamcenter

You can open content and its references from Teamcenter in XML Editor and XML Author.

The following topic describes how to open DITA content and its references in Teamcenter.

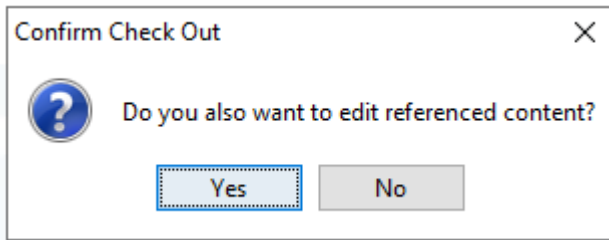
#### Procedure

1. Select a DITA topic and click **Open**  **Open in Oxygen**.

A file named *openinoxygen.awoctm* is downloaded on your computer. Depending on how your browser is configured, this file may automatically launch XML Editor and XML Author. Refer to your browser documentation on how to automatically open downloaded files.

If XML Editor and XML Author is not launched automatically, click the downloaded *openinoxygen.awoctm* file to open XML Editor and XML Author.

2. If the content you are trying to open has children, a dialog box appears, asking if you want to edit the child or the referenced content.



Click **Yes** if you want to check out this content or **No** if you only want to check out only the selected topic type and open the other content in read-only mode.

The topics are checked out and you can start authoring the topics that you have permission for.

Tip:

When you save the topic in XML Editor and XML Author, the topics are checked into Teamcenter. If you want to continue authoring content without checking in the content after every save action, you can work in offline mode by **logging out of Teamcenter**.

When you are ready to check in content, you can **log back into Teamcenter**.

## Check out content from XML Editor and XML Author

You can check out content that is in Teamcenter from XML Editor and XML Author.

### Procedure

1. Open a document or topic in XML Editor and XML Author.
2. Click **Check-out**.

The topic is checked out in Teamcenter.

## Cancel a checkout from XML Editor and XML Author

You can cancel a checkout from XML Editor and XML Author.

### Procedure

1. Select a topic that is checked out and close the document.
2. Choose an option:
  - In the **Save** dialog box, choose **Cancel Checkout**.

- Click the **Cancel Checkout** command.

The topic is no longer checked out in Teamcenter.

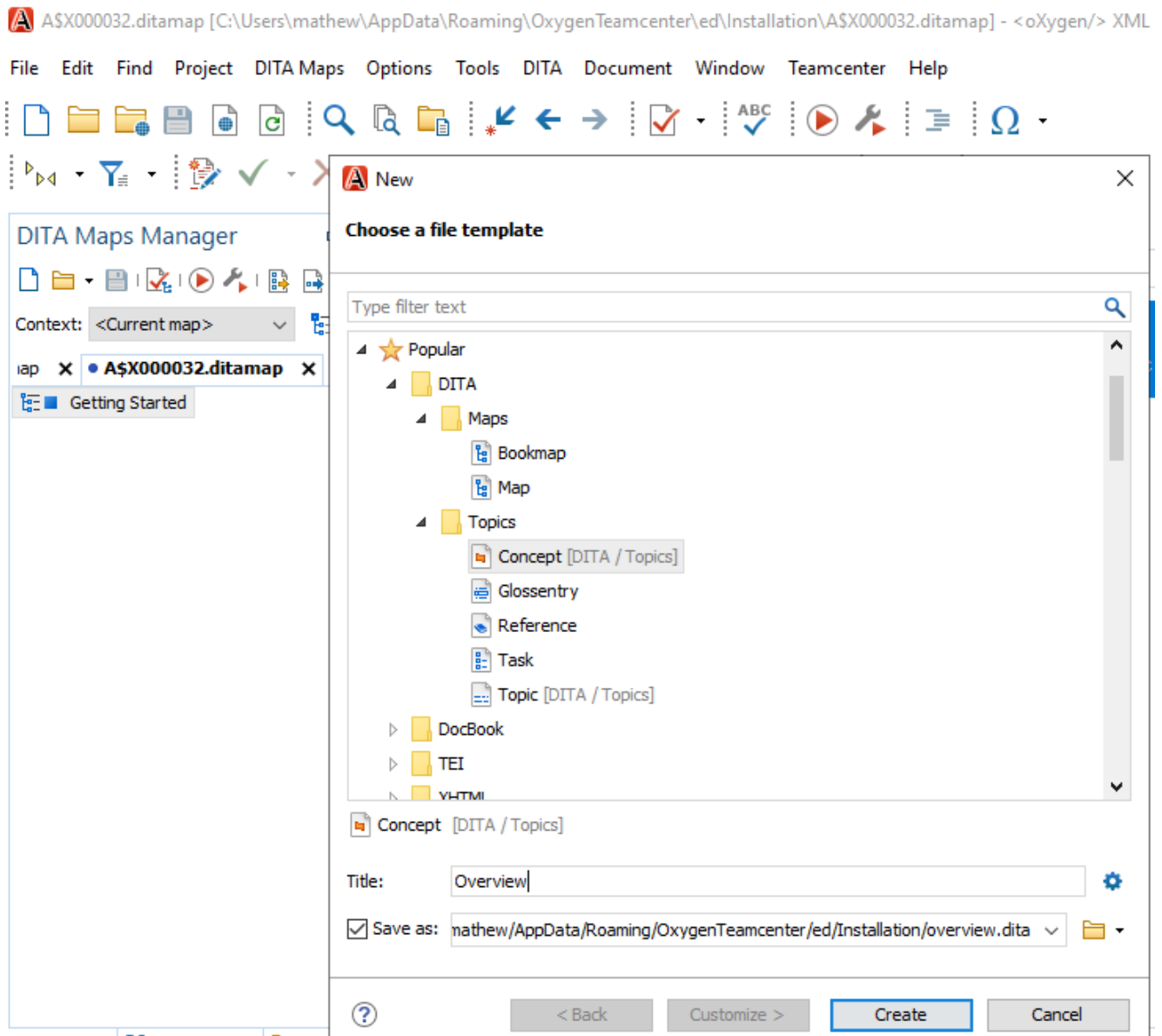
## Add a new topic in XML Editor and XML Author in a DITA map

You can add a new topic In XML Editor and XML Author, under a DITA map that was opened from Teamcenter.

### Procedure

1. In XML Editor and XML Author, open a DITA map, and select **File > New**.
2. In the **New** dialog box, choose a topic type, type a title, and choose a location to save the file.

Note that this location must be where the topic map is downloaded.



3. Click **Create**.
4. Update the topic and click **Save**.

## Results



The topic is created with a new topic ID. You can search for this topic in Teamcenter.

After creating this topic, you can add this topic as a reference to another topic or topic map.

## Add a reference to a topic or map in XML Editor and XML Author

In XML Editor and XML Author, you can add a reference to a topic or a map from Teamcenter.

### Procedure

1. In Teamcenter, select a topic or map and choose **More Commands ... > Manage  > Copy As Reference **.
2. Choose an option:
  - In the **DITA Maps Manager** navigation pane in XML Editor and XML Author, right-click a topic.
  - Right-click anywhere while working in a topic.
3. Choose an option:
  - **Paste from Teamcenter > Paste as link**

This option adds a link to the referenced item and the topic or map is added in Oxygen.
  - **Paste from Teamcenter > Paste as xref**

This option adds a reference to the topic or map and the topic or map is added in Oxygen.
4. Click **File > Save** to save the file.

### Results

The topic is added to the specified location in the topic map.

## Remove a topic reference in XML Editor and XML Author

You can remove a topic reference in a map from XML Editor and XML Author.

### Procedure

1. In the **DITA Maps Manager** navigation pane, right-click the topic reference that you want to remove and choose **Remove Reference(s)**.

## Create content references for reuse between DITA topics in XML Editor and XML Author

In XML Editor and XML Author, you can reuse content from elements, such as a paragraph, in other topics by using a content reference (conref).

You can reuse content from elements in other topics either by pasting the reused content as a content reference or by reusing the content.

### Procedure

1. Open the topic containing the source, which is the content you are reusing, and the target, which is the topic where you want to place the conref.
2. Reuse content in one of these ways:
  - **Paste the reused content as a content reference.**
  - **Reuse the content.**

### Results

The conref is created in the target topic.

## Reference a graphic from Teamcenter in XML Editor and XML Author

You can paste a graphic that is saved in Teamcenter from XML Editor and XML Author.

### Procedure

1. Select a Graphic option revision and choose **More Commands ... > Manage > Copy As Reference.**
2. In XML Editor and XML Author, open the topic in Author mode. Place the cursor where you want to add the graphic, right-click, and choose **Paste from Teamcenter > Paste as Image.**

### Results

The graphic image is downloaded to XML Editor and XML Author if the graphic image does not exist there, and a graphic reference is added to the topic at the selected location. Supported topics are DITA and S1000D. If the editor supports image viewing, the image is visible in the editor after pasting it.

## Save content from XML Editor and XML Author to Teamcenter without checking in the content

When working in XML Editor and XML Author, you can save your changes to Teamcenter without checking in content.

### Procedure

1. Update the content in XML Editor and XML Author.
2. Choose an option:
  - Click **File > Save**.
  - Close the tab in XML Editor and XML Author and click **Save** in the **Save** dialog box.

## Check in content from XML Editor and XML Author to Teamcenter

You can check in the document in the following ways:

### Procedure

1. Close the document.
2. Choose an option:
  - In the dialog box that appears, click **Check-in**.
  - Click the **Check-in** command.
3. If you have checked out child topics, a dialog box appears, asking if you also want to check in the referenced content.

Click **Yes** to check in referenced content or **No** to check in only the selected topic type.

## Log out from Teamcenter from XML Editor and XML Author

You can log out of Teamcenter from XML Editor and XML Author.

### Procedure

1. In XML Editor and XML Author, click **Teamcenter > Log Out**.



# 5. Creating and editing content using XMetaL

## Overview of using an editing tool to create and edit content


The XML content of topics is created and edited in an editing tool. The XMetaL Author editing tool is supported with Teamcenter.

To use this, you must install XMetaL Author on your local machine and also install the Teamcenter XMetaL Client.

**Caution:**

Once you install the Teamcenter XMetaL Client, you will not be able to use the Teamcenter rich client on your local machine because the Teamcenter XMetaL Client uses its own FMS.

## Create and edit content using XMetaL

1. Select or open a topic or a publication and click **Open**  > **Open in XMetaL**.

Depending on your browser, the content is downloaded and the **Login to Teamcenter** dialog box appears.

2. Log on to Teamcenter.
3. In XMetaL, choose **Repository** > **Check Out Document** or in the **Resource Manager** section, right-click a topic and choose **Check Out Document**.

In the **XMetaL Author Enterprise** dialog box, choose if you want to check out the structure as well.

4. Edit the content in XMetaL.
5. After editing the content, choose **Repository** > **Check In Document**.

In the dialog box confirming the change, click **Yes**.

6. In the **XMetaL Author Enterprise** dialog box, choose if you want to check in the structure.

**Note:**

You can perform other operations in the XMetal application such as creating a new topic and publishing the topic. For more information, in the XMetal application, click **Help** in the left-side navigation pane.

## 6. Delete a graphic





You can delete a graphic option that is not referenced by any topic. A graphic option contains the graphic and other associated elements such as translations. Note that you can only delete a graphic option and not a graphic option revision.

### Procedure

1. In Teamcenter, by default, you see the graphic option revision in the **Explorer** tab.

To get to the graphic option, select the graphic option revision and then click the **Where Used** tab.

The graphic option is available in the **References** section.

2. Select the graphic option and then click **Open** .
3. Select **More Commands**  > **Edit**  > **Delete** .


The graphic and its associated graphic options such as translations and datasets are deleted.

If the graphic is referenced by a topic, the graphic is not deleted and you get an error message.



# 7. Importing and exporting content types

## Import topics

1. Select or open a topic or a publication and choose **More Commands ... > Import/Export**  > **Import Content**.
2. Update the **Import Content** panel as follows:

For this option	Do this
<b>Choose File</b>	Select the topics to import.
<b>Graphic Attribute Mapping</b>	Select how the graphic file names are mapped: <ul style="list-style-type: none"><li>• <b>Default Graphic Attribute Mapping</b> Select this option to map the graphic file name as is.</li><li>• <b>Default Graphic Attribute Mapping without suffix</b> Select this option to map a part of the importing graphic file name, excluding the suffix.  Use this option if file names contain more than one separator, for example, wheel.right.jpg.</li></ul>
<b>GRAPHIC MODE</b>	If the topic contains references to graphics, select one of the following options to indicate how the topic references the graphic names: <div data-bbox="695 1333 1450 1570" style="border: 1px solid black; padding: 10px; margin: 10px 0;"><p><b>Note:</b></p><p>You must import the graphics to be referenced before importing the topic that refers to the graphics. How these graphics are imported and named determines which option you choose.</p></div> <ul style="list-style-type: none"><li>• <b>Public ID</b> The public identifiers of the graphics are used by the topic to reference graphics.</li><li>• <b>Original Name</b></li></ul>

**For this option****Do this****REUSE EXISTING TOPIC**

The original names of the graphics are used by the topic to reference graphics.

- **XML Number**

The XML numbers of the graphics are used by the topic to reference graphics.

- **Graphic Name**

The names of the graphics with or without the file extensions are used by the topic to reference graphics.

Select the following options to indicate how the import searches for and handles topics already existing in the database or if you want to use the ID or XML number of the imported topic as its item ID in Teamcenter.

**Note:**

If none of these options are selected, all topics are imported as new topics, regardless of whether identical topics or content already exist in the database.

- **Find by XML Number**

Select this option to search the database for a topic with the same ID as the ID or XML number of the topics you are importing. If a topic with the same ID is not found, the ID or XML number of the topic is used as the ID instead of an auto-generated ID.

If your documents use content references, you must select this option to ensure content references are preserved because content references use item ID/XML numbers.

- **Find by Content**

Select this option to search the database for topics with the same content as that in any of the topics you are importing. When a topic is found with the exact content, (including tags and attribute values) as the one being imported, the topic is not imported.

**For this option****Do this**

Topic content includes attributes, such as a revision. For example, if you import a topic with the same ID and choose **Find by Content** with a change in the revision attribute in the topic content, Teamcenter creates a new topic.

- To assess the impact of the topics and to see what changes will occur, click **Preview Impact**.

This command generates an impact report that shows the item ID, the item type, the items impacted by the import, the changes, and an explanation of the changes that will occur.

After the report is generated, you can download it in HTML format. You can access the report in the **Alerts** section, and it is also timestamped and saved in the **Newstuff** folder.

**Note:**

If you do not see the report in the **Alerts** section, contact your system administrator to configure Teamcenter Dispatcher for asynchronous processing.


- To incorporate the changes shown in the impact preview report, click **Import** in the **Preview** section.

The **Import Content** panel appears with the options that you selected previously.

- Click **Choose File** to reselect the topics to import, and then click **Import**.

The topics are imported to the folder you selected.

## Import graphics

- Select or open a topic or a publication and choose **More Commands ... > Import/Export**  **> Import Content**.
- Update the **Import Content** panel as follows:

**For this option****Do this****CONTENT TYPE**

Choose **Graphic**.

**Choose File**

Select the graphics to import.

**Graphic Attribute Mapping**

Select how the graphic file names are mapped:

- Default Graphic Attribute Mapping**

**For this option****Do this**

Select this option to map the graphic file name as is.

- **Default Graphic Attribute Mapping without suffix**

Select this option to map a part of the importing graphic file name, not including the suffix.

If file names contain more than one separator, for example: wheel.right.jpg, use this option.

**Graphic Classname**

Select **Graphic**.

**OVERWRITE MODE**

Select one of the following:

- **Skip existing**

The graphics are not imported if they already exist in Teamcenter.

- **Overwrite existing**

If the graphics already exist in Content Management, they are overwritten.

**GRAPHIC USAGES**

Select the relevant option for the graphic based on its intended use:

<b>If the graphic will be used for this purpose</b>	<b>Select this option</b>
High-resolution graphics in printed output	<b>PDF</b>
Image intended to appear on a Web browser	<b>Web</b>
Graphics in a resolution appropriate for the printer where it will be printed	<b>Print</b>
Low-resolution images, typically for viewing only	<b>View</b>

For this option	Do this								
	<table border="1"> <thead> <tr> <th>If the graphic will be used for this purpose</th> <th>Select this option</th> </tr> </thead> <tbody> <tr> <td>Icons in the published output</td> <td><b>Icon</b></td> </tr> <tr> <td>Small-scale images</td> <td><b>Thumbnail</b></td> </tr> <tr> <td>Original version of the graphic</td> <td><b>Source</b></td> </tr> </tbody> </table>	If the graphic will be used for this purpose	Select this option	Icons in the published output	<b>Icon</b>	Small-scale images	<b>Thumbnail</b>	Original version of the graphic	<b>Source</b>
If the graphic will be used for this purpose	Select this option								
Icons in the published output	<b>Icon</b>								
Small-scale images	<b>Thumbnail</b>								
Original version of the graphic	<b>Source</b>								
<b>LANGUAGE</b>	Select the languages for the graphics being imported.								

- If you want to assess the impact of the graphic and see what changes will occur, click **Preview Import**.

This command generates an impact report that shows the item ID, item type, items impacted by the import, and an explanation of the changes that will occur.


After the report is generated, it is available for download in the HTML format. You can access the report in the **Alerts** section, and it is also timestamped and saved in the **Newstuff** folder.

- Click **Import**.

The graphic is imported to the folder you selected.

## Export topics

You can export an XML document in order to work with it in another application. When you export a document, it is saved in a ZIP file.

- Select or open a topic or a publication and choose **More Commands ... > Import/Export**  **> Export Topic**.
- Update the **Export Topic** panel as follows:

For this option	Do this
<b>Language</b>	Select the language you want to use for the exported content.
<b>CONTENT</b>	<p>Select any of the following to choose the contents of the .zip file:</p> <ul style="list-style-type: none"> <li><b>Include Main Content</b></li> </ul>

For this option	Do this
	<p data-bbox="711 243 1263 275">Includes the XML files for the topic content.</p> <ul data-bbox="678 321 1040 352" style="list-style-type: none"> <li data-bbox="678 321 1040 352">• <b>Include Supporting Data</b></li> </ul> <p data-bbox="711 396 1289 428">Includes the schemas for the exported topics.</p> <ul data-bbox="678 474 995 506" style="list-style-type: none"> <li data-bbox="678 474 995 506">• <b>Include Graphic Data</b></li> </ul> <p data-bbox="711 550 1297 581">Includes the graphics embedded in the topics.</p>
<b>Transformation Policy</b>	<p data-bbox="678 604 1468 674">To apply an XML transformation policy to the content you are exporting, select the policy from the list.</p> <p data-bbox="678 695 1468 863">A transformation policy can be used to modify content when it is published or exported. For example, it could convert units of measure, such as US standard to metric. Your administrator must create a transform policy before it is available for you to use.</p>
<b>References</b>	<p data-bbox="678 898 1468 961">Select any of the following to choose the content to include in the export:</p> <ul data-bbox="678 1003 1084 1035" style="list-style-type: none"> <li data-bbox="678 1003 1084 1035">• <b>Include Content References</b></li> </ul> <p data-bbox="711 1079 1393 1148">Includes topics that are referenced by the topic or the publication you are exporting.</p> <ul data-bbox="678 1190 1101 1222" style="list-style-type: none"> <li data-bbox="678 1190 1101 1222">• <b>Include Compose References</b></li> </ul> <p data-bbox="711 1266 1417 1434">Includes topics that are referenced by composable reference relations. Composable topic references are created by relating topics in Teamcenter. This reference type is typically used to enable the creation of DITA Dynamic Maps and publication modules.</p>
<b>GRAPHIC MODE</b>	<p data-bbox="678 1476 1468 1539">Select one of the following to indicate how the content references the graphic names:</p> <div data-bbox="695 1556 1451 1839" style="border: 1px solid black; padding: 10px;"> <p data-bbox="716 1577 789 1608"><b>Note:</b></p> <ul data-bbox="716 1629 1393 1839" style="list-style-type: none"> <li data-bbox="716 1629 1393 1734">• The way you export graphics impacts whether the references to graphics can be resolved when the exported content is imported into another system.</li> <li data-bbox="716 1776 1393 1839">• To include graphics in the export, select either <b>Public ID</b> or <b>Import Original Name</b>. If you select</li> </ul> </div>

**For this option****Do this**

**XML Number** or **Graphic Name**, graphics are not exported.

- These characters are invalid when used in the public ID or in the original import name of the graphics: /| ~`;;\;"\*?<>. When you export a topic containing graphics with these characters, they are converted to an underscore (\_).

- **Public ID**

The public identifiers of the graphics are used by the topic to reference graphics.

- **Original Name**

The original names of the graphics are used by the topic to reference graphics.

- **XML Number**

The XML numbers of the graphics are used by the topic to reference graphics.

- **Graphic Name**

The names of the graphics with or without the file extensions are used by the topic to reference graphics.

**Graphic Priority**

Select the graphic priority to determine in what order the topic's graphic options are selected for the output. This is based on the graphic usage options that you selected when you imported the graphic.

3. Click **Export**.



# 8. Publishing and previewing content

## Overview of publishing and previewing content

Publishing allows you to render a topic or publication to a selected output format such as HTML, XHTML, PDF, or a proprietary format. Along with the output format, the composed XML file is also generated.

When publishing topics and documents, you can choose between the options *composed* and *reviewer* as the output. Composed and reviewer documents contain all the contents of a topic, topic structure, or publication you select to publish. You can use these to distribute content to subject matter experts or other reviewers or to retain the compiled XML of the published document for future use. Composed and reviewer documents contain the same content; they are named differently so that you can choose an appropriate name for the business practice you are using it for.

When you publish the same content (with the same options) multiple times, the newer versions overwrite the existing ones. However, if you publish content with a different tool or with one or more different options, an additional composed or reviewer document is created. These options include **Tool**, **Language**, **Translation Version Selection**, **Style Type**, **Register Result**, and **Transformation Policy**.

Once published, the artifact is available in the **Publications** section. Open it to see the list of published files and associated documents. The rendered documents are available in the **Files** section, and the associated documents are available in the **References** section. The rendered PDF document can be previewed in the **Viewer** section.

The screenshot displays a software interface with three main sections:

- Files:** Contains a single file named "CMS-R-033754-PDF\_Reference...". The file is a PDF, owned by "ed (ed)", and was last modified on 23-Oct-2024 at 17:08.
- Disposition Reports:** Shows a table with columns for "Reports", "Source", and "Original Source". The table is currently empty.
- References:** Lists four associated documents:
  - DC\_ComposedDoc-A-am-DITA 033754:** Represented by a document icon.
  - Composed\_X000001\_DITA Ope...:** A Zip file, owned by "ed (ed)", modified on 23-Oct-2024 at 16:59. Represented by a 1010 0110 icon.
  - composeVersionLog:** A Full Text file, owned by "ed (ed)", modified on 23-Oct-2024 at 16:59. Represented by a 1010 0110 icon.
  - ConfigurationContext:** Represented by a blue cube icon.

The following associated documents are listed in the **References** section:

- The XML file composed before formatting
- The ZIP dataset containing the composed XML used during publishing
- A log of all specific topics or maps included and their versions
- Configuration context used during publishing

- DITA values applied to the composed file
- The original topic

## Automatically generate PDF or HTML files containing your DITA topic or data module changes

You can review your changes to a DITA topic or a data module without manually publishing by checking in the topic or module. The publishing tool configured by your system administrator automatically publishes a PDF or HTML file.


### Procedure

1. Check out a DITA topic or data module and make the required changes.
2. Check in the updated topic or data module from the **Explorer** section in Teamcenter, or from an authoring application.

The topic is published, and you get a notification for the published topic in the **Alerts** section. The published topic is listed in the **Publications** section.

#### Note:

If you do not see the notification in the **Alerts** section, contact your system administrator to configure Teamcenter Dispatcher for asynchronous processing.



3. Select the publication and then click **Open** .

The generated PDF or HTML file is listed in the **Files** section.

4. Click the file.

The file contents are displayed in PDF or HTML format in the **Viewer** section in Teamcenter.

## Publish a topic

1. Open a DITA topic, topic map, or publication, and navigate to the **Content** tab, and choose **More Commands**  > **Share**  > **Publish Topic**.
2. Update the information within **Publish Topic** as follows:

#### For this option

#### Do this

##### Tool

Select the publishing tool for the type of output you are generating. The available tools depend on the tools that

For this option	Do this
<b>Style Type</b>	<p>have been installed on your computer and set up in the system by your application administrator.</p> <p>Select the style type (collection of stylesheets) to be used to publish the content. The style types are set by your application administrator.</p>
<b>Language</b>	<p>Select the language in which to publish the resulting output.</p>
<b>Compose Version</b>	<p>Select the revision rule for the publication. The default revision rule is the <b>Global</b> revision rule that is selected from the <b>Revision</b> list in Teamcenter.</p>
<b>Translation Version</b>	<p>Select the translated version of the content to be published when a language other than the master language is selected:</p> <ul style="list-style-type: none"> <li data-bbox="732 835 1466 1087"> <p>• <b>Latest Received</b></p> <p>The latest received translation in the selected language is selected for publishing regardless of the content version in the master language. However, if no translation exists for the selected language, the master language is used.</p> </li> <li data-bbox="732 1129 1466 1339"> <p>• <b>Match Topic</b></p> <p>If the latest content version in the master language is the same as that in the translation, the translation is selected for publishing. Otherwise, the master language is used.</p> </li> <li data-bbox="732 1381 1466 1770"> <p>• <b>Received</b></p> <p>The latest received translation in the selected language with a content version older than or as current as the master language version is selected for publishing. If all translation content versions are newer, or if no translation exists for the selected language, the master language is used. This option is typically used when you publish an older version of the content and you do not wish to include translations that have newer content.</p> </li> </ul>
<b>Register Result</b>	<p>If you want to create a composed or a reviewer document, select the type accordingly:</p>

**For this option****Do this**

- **Composed Document**

A composed document contains the full content of the document. It can be exported, sent to publishing again, or stored as a final document.

- **Reviewer Document**

A composed document that can be submitted to a workflow for review.

**Transformation Policy**

To apply an XML transformation policy to the content you are publishing, select the policy from the list.

A transformation policy can be used to modify content when it is published or exported. For example, it could convert units of measure, such as US standard to metric. Your administrator must create a transform policy before it is available for you to use.

3. To display the estimated size of the published file before you publish it, select **Check to calculate the estimated size after publish** check box.






The size is estimated based on the sizes of the XML content and any included graphic files. This may be different from the final output size as different file formats have different compression schemes.

4. In the **Schema Validation** section depending on how your administrator has setup how publication should be done based on the schema validation results, a schema validation option will be enabled automatically or you can select from the following options:

Validation option	Result
<b>Publish with validation errors</b>	Publish the content even if schema validation errors exist. A log is provided with errors to support correcting content.
<b>Do not publish on validation errors</b>	If validation errors exist, publish will not complete. A log is provided with errors to support correcting content.
<b>Publish without validation</b>	Publish without checking schema validation on content. Publish will complete unless other errors prevent compilation and publish.







5. Click **Publish**.



Refresh your browser to see the published results. The published files appear in the **Publications** section.

▼ Publications		
 Export To...	 Selection Mode	 Select All
 Table	...	
Object	Language Reference	Type
 033754/A;1-DC_Compo...	English US	Composed

Open the published files to view the rendered documents and the associated files.





▼ Files

 Export To...  Selection Mode  Clear Selections  Delete  Check Out  List ...

 **CMS-R-033754-PDF\_Reference...** 







Type: PDF  
Owner: ed (ed)  
Date Modified: 23-Oct-2024 17:08


▼ Disposition Reports


 Export To...  Selection Mode  Select All  Table ...


Reports	Source	Original Source


▼ References

 Add  Paste  Export To...  Selection Mode  Select All  List ...

 **DC\_ComposedDoc-A-am-DITA**  
033754

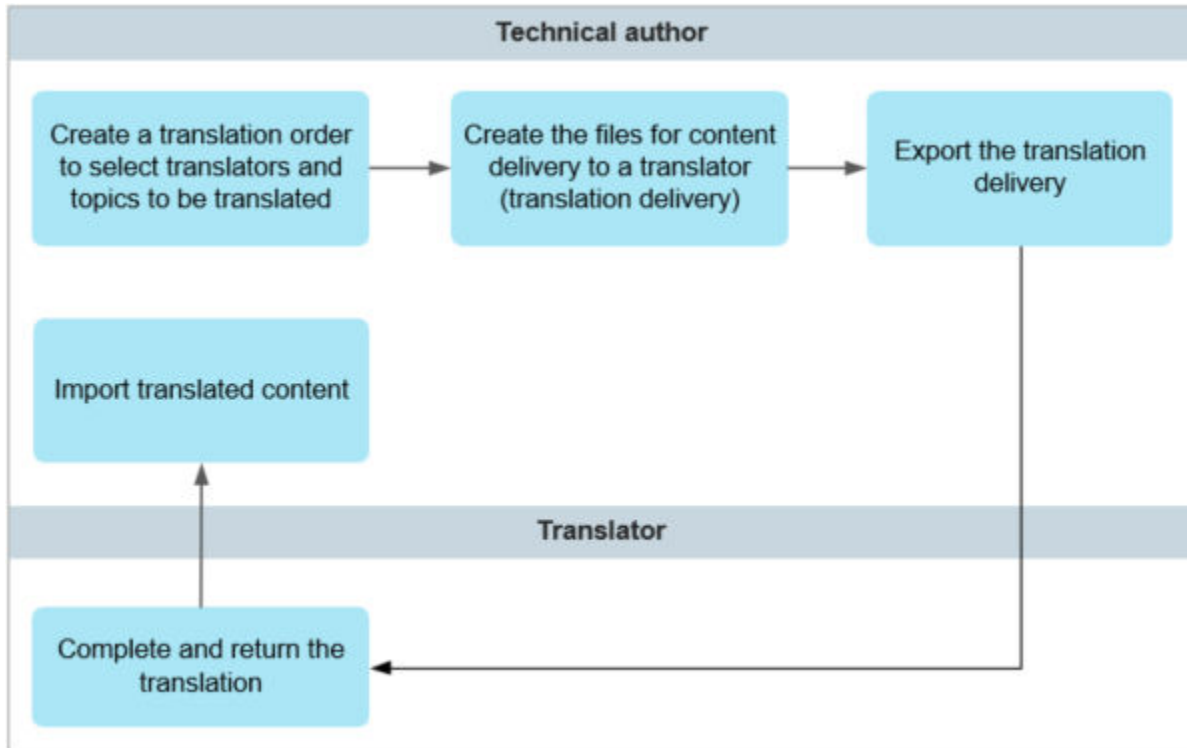
 **Composed\_X000001\_DITA Ope...**  
Composed\_X000001\_DITA Open Tool...  
Type: Zip  
Owner: ed (ed)  
Date Modified: 23-Oct-2024 16:59

 **composeVersionLog**  
composeVersionLog  
Type: Full Text  
Owner: ed (ed)  
Date Modified: 23-Oct-2024 16:59

 **ConfigurationContext**  
Owner: ed (ed)

# 9. Managing content translations

## The content translation process



You can manage the translation of individual topics or topics at any level in a publication structure. Managing a translation begins with creating a translation order from a selected topic or publication. You then choose the translation office that performs the translation. Once this is done, you create a translation delivery to select the languages and create a ZIP file to hold the content to be translated and any supporting files. You export the ZIP file and send it to the translator. When the content is translated and returned, you import it back into the system.

If necessary, you can use a Teamcenter workflow to manage translations according to your organization's business practices.

Once a translation exists in the system, you can work with a translated topic as you would any other topic. Each translated topic is related to the original topic in the master language. Content versions are used to determine if the content has changed since it was translated previously. The content version of a topic is displayed in the **Overview** page. When a topic has a translation, you can compare the content version of the topic to that of the translation to determine if the topic has changed since the topic was translated.

When creating a translation delivery, you can choose to include the graphics associated with the topics to be translated.

**Note:**

Graphics are not managed the same way topics are during the translation process. Graphic options have an associated language property. When you edit and publish content in a language other than the master language, the graphics that match the language are selected. When a graphic does not exist for the language, the master language graphic option is used.

## Create a translation order

The first step in managing the translation process in Content Management is to create a translation order, which provides information to the translator about the translation service being requested.

1. Open a topic or a publication and choose **More Commands ... > New ✨ > Create Translation Order**.
2. Update the dialog boxes in the **Create Translation Order** panel as follows:

For this option	Do this
<b>Name</b>	Type a name for the translation order.
<b>Title</b>	Type a title for the translation order.
<b>Description</b>	Type a description for the translation order.
<b>Translation Office</b>	Select the translation office responsible for translating this order.  Your administrator creates the <b>Translation Office</b> .
<b>Requested Delivery Date</b>	Click the calendar button, and select the date by which you want the translation to be returned.

3. Click **Create**.

The translation order appears in the **TRANSLATIONS** section of your topic or publication.

The topic or publication and all its children are included in the translation order.

## Create a translation delivery to send files to the translator

To deliver content to a translator, you create a translation delivery. It collects all the files that a translator needs to translate the content within a ZIP file. When you create a translation delivery, the following objects are created in Content Management:

- Translation delivery, related to the translation order

- Translations, related to the translation delivery and the original topic
- A ZIP file containing the content to be translated and any selected supporting files, which you can export and send to the translation company

You can choose if you want to translate the entire content or only the content that has not been translated or that has not been sent for translation.

To create a translation delivery:

1. Open a translation order and choose **More Commands** **...** > **New**  > **Create Translation Delivery**.
2. Update the dialog boxes in the **Create Translation Delivery** panel as follows:

For this option	Do this
<b>Include</b>	<p>Select the items to include in the translation delivery .zip file:</p> <ul style="list-style-type: none"> <li>• <b>Include Graphics</b> Includes the graphics that are referenced in the content.</li> <li>• <b>Include Supporting Data</b> Includes the schemas with which the XML files can be validated.</li> <li>• <b>Include Published Content</b> Includes related composed documents.</li> </ul>
<b>Delivery</b>	<p>Select the items that you want to include in the translation delivery .zip file:</p> <ul style="list-style-type: none"> <li>• <b>Deliver Composed Topic</b> Includes the content in one composed document.</li> <li>• <b>Deliver Decomposed Topic</b> Delivers the content as separate topics.  When you select this option, the following options appear: <ul style="list-style-type: none"> <li>• <b>Deliver Out-of-Sync Topics Only</b></li> </ul> </li> </ul>

For this option	Do this
<b>Languages</b>	<p>Delivers only topics that were modified since the last translation. Ensure that the content that you will send for translation is not the same as that of the master language.</p> <ul style="list-style-type: none"> <li>• <b>Deliver Topics Already Out for Translation</b></li> </ul> <p>Includes all out-of-sync topics, even those that have already been sent for translation.</p> <p>If this is not selected, only the topics that have not yet been sent for translation will be included.</p> <p>This option is only available when you select the <b>Deliver Out-of-Sync Topics Only</b> option.</p> <p>Select all the languages you want the content to be translated in.</p>

3. Click **Create**.

The translation order appears in the **REFERENCES** section of your translation delivery.

The **Delivery Type** property for the translation delivery is set to **Submittal**.

## Export the translation delivery and send it to the translator

You export the translation delivery ZIP file to a local or a network drive so that you can send the files to be translated to the translator.

- Open a translation delivery and choose **More Commands ... > Import/Export**  **> Export Translation**.

The translation delivery is downloaded through your browser as a ZIP file. Save the translation delivery and send it to the translator.

The ZIP file contains the content to be translated and any selected supporting files.

## Tasks performed by the content translator

When a translator receives the translation delivery as a ZIP file, it contains the following:

- A .txt file listing the topics to be translated and the languages they are to be translated in.

- The **...original** folder containing the topics (as XML files) to be translated in the master language.
- The **...translated** folder as a placeholder for the translated topics.
- The **...translationSource** folder containing the topics to be translated.
- The **...supportingData** folder containing the schemas with which the XML files can be validated.
- The **...graphics** folder containing the graphics referenced in the content, if graphics were included in the translation order when it was created.

The translation process is as follows:


1. The translators translate the topics in either the **translated\decompose** or the **translated\compose** folder. If both the **decompose** and **compose** folders were included in the delivery, they delete the one that they are not using.

The topics are edited using an editing tool. These files may be validated with the respective schemas included in the translation order.

2. When the translation of the files is completed, they create a ZIP file with the same organization structure as the original ZIP file and with the translated content in the appropriate objects and folders.
3. Once completed, they send the ZIP file back to the appropriate Content Management user.

## Import translated content

When you receive translated files from the translator, you import the translated data into Content Management. The translations can then be tested by previewing or publishing them in the appropriate language.

1. Open a topic or publication and choose **More Commands ... > Import/Export**  **> Import Translation**.
2. In the **Translation** panel, click **Choose File** and choose the ZIP file that contains the translated content.

Note:

The ZIP file from the translator must contain the original folder structure of the translation delivery and the translations results present in the **translated** folder.

3. Click **Import**.

The translation is associated with the translation order in the **References** section, and the **Delivery Type** property value changes to **Delivery** from the value **Submittal**.