XMLmind XML Editor - Support of DocBook 5.1+ Assemblies

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Abstract

This document describes the commands which are specific to DocBook 5.1+ assemblies.

Table of Contents

Why read this document?	1
The Assembly menu	2
2.1. The "Convert Document" sub-menu	5
The Assembly toolbar	8
3.1. The "Edit Module" dialog box	11
3.2. The "Edit or Add Relationship" dialog box	14
Custom bindings	16

1. Why read this document?

This document describes the support of DocBook 5.1+ assemblies in XMLmind XML Editor. It does not deal with DocBook 5.1+ elements which are not related to the assembly element, that is, book, chapter, section, topic, etc. How to create and edit these elements in XMLmind XML Editor is documented in another document: *XMLmind XML Editor - DocBook Support*. The content of this other document applies to DocBook version 4+ and 5+.

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About XMLmind Assembly Processor

When you'll use Assembly \rightarrow Check Assembly [3] or Assembly \rightarrow Convert Document, you'll implicitly invoke XMLmind Assembly Processor.

XMLmind Assembly Processor is a free, open source, JavaTM software component which processes a DocBook assembly and all the referenced topics in order to create the equivalent "flat", monolithic, document (e.g. a DocBook book).

The limitations and implementation specificities of this assembly processor are documented in "XMLmind Assembly Processor Manual, Limitations and implementation specificities".

2. The Assembly menu

About DocBook 5.1+ assemblies and the "Easy Profiling" add-on

The "Easy Profiling" add-on, included by default in all XMLmind XML Editor distributions, automatically adds a "Conditional Processing" sub-menu to the Assembly menu.

Menu item "Select Profile" allows to associate a profile set (.profiles file) to an assembly.

However, conditional processing is never applied to the assembly itself. Conditional processing is applied to the realized document if the DocBook *profiling* XSLT stylesheets have been selected using "**Options** \rightarrow **Customize Configuration** \rightarrow **Customize Document Conversion Stylesheets** in *XMLmind XML Editor* - *Online Help*".

In consequence, in the case of assembly, unlike what happens for book, chapter, etc, profiling attributes and/or the selected/unselected profiles are never rendered on screen.

So why bother associating a profile set to an assembly?

- 1. The main reason to do this is that once a profile set has been associated to an assembly which has been declared as being *a master document* in *XMLmind XML Editor Online Help*, all the resources (topic, chapter, section, etc) referenced by this assembly will automatically "inherit" the chosen conditional processing profile. More information in Section 3.1, "Associating the ".profiles" file to the map rather than to individual topics" in *XMLmind XML Editor Easy Profiling*.
- 2. It may be convenient to use menu item "Set Profiling Attributes" to add profiling attributes to the filterin and filterout elements.

Select Output

An assembly may contain several structure elements. A structure element may specify several output formats (web, print, etc)¹.

When this is the case, you'll want to specify which structure you want to convert by the means of the "**Convert Document**" menu items and also which output format you target. Menu item "**Select Output**" displays a dialog box allowing this specification.

🔀 Select Outp	out 💌
Structure ID:	(first structure) 🗸
	ecify default format. re supported here. Please use ";" to separate formats.
0	K Help Cancel

Figure 1. The dialog box displayed by menu item "Select Output"

¹The outputformat attribute set on output, filterin, filterout elements allows to specify "classes" of output formats rather than actual output formats (PDF, DOCX, EPUB, etc).

Structure ID

The value of the xml:id attribute of the structure element to be converted. By default, it's the first structure found in the assembly.

Output format

One of the output formats specified in the structure selected using the above "**Structure ID**" combobox. By default, it's the value of the defaultformat attribute of the structure if any, the "*implicit format*" otherwise.

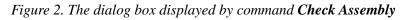
The "implicit format" matches output, filterin, filterout elements without any outputformat attribute.

Multiple output formats separated by ";" may be specified. For example, "web;print" means output format is "web" OR "print".

Check Assembly

Check the assembly being edited and all its referenced topics for all kinds of errors, including cross-reference errors and missing image resources.

This check task which can be lengthy is run in background. While this task is running, a non-modal dialog box displays all the errors and warnings found in the assembly being edited and all the topics referenced by this assembly. If no errors or warnings are found, the dialog box is automatically closed. Otherwise it stays opened allowing you to review each error or warning. After you are done, you'll have to close the dialog box by clicking **Close** if you want to be able to re-run **Check Assembly**.



Check "D:\src\assembly\tasm\in\tprof1.xml"
Check "D:\src\assembly\tasm\in\tprof1.xml"
[1] <u>D:\src\assembly\tasm\in\tprof1\ch1.xml</u> :21:38: duplicate ID "install"; first occurrenc file:/D:/src/assembly/tasm/in/tprof1/ch1.xml:13:42
[2] <u>D:\src\assembly\tasm\in\good4\common\common.xml</u> :11:30: duplicate ID "admon file:/D:/src/assembly/tasm/in/good4/common/common.xml:11:30
[3] <u>D:\src\assembly\tasm\in\good4\common.common.xml</u> :19:34: duplicate ID "admon found at file:/D:/src/assembly/tasm/in/good4/common/common.xml:19:34
[4] <u>D:\src\assembly\tasm\in\tprof1\ch1.xml</u> :29:40: duplicate ID "install"; first occurrend file:/D:/src/assembly/tasm/in/tprof1/ch1.xml:13:42
[5] <u>D:\src\assembly\tasm\in\good4\common\common.xml</u> :11:30: duplicate ID "admon file:/D:/src/assembly/tasm/in/good4/common/common.xml:11:30
[6] <u>D:\src\assembly\tasm\in\good4\common\common.xml</u> :19:34: duplicate ID "admon found at file:/D:/src/assembly/tasm/in/good4/common/common.xml:19:34
[7] Document "D:\src\assembly\tasm\in\tprof1.xml" has 6 errors or warnings. None of th
4 III I
Close

An assembly being an advanced specification, what part of this specification is checked by command Check Assembly?

- The **Structure ID** and **Output format** specified using menu item **Select Output** [2] are automatically taken into account by command **Check Assembly**.
- If your assembly requires conditional processing (that is, *profiling*), then command **Check Assembly** may report false errors. These false errors are caused by the fact that the conditional processing step has not been applied to the realized document prior to the check step.

Example: two of the chapters referenced by assembly book.xml have xml:id="install". First chapter has also os="windows". Second chapter has also os="mac".

If you don't apply any conditional processing to the realized book.xml, you'll get a duplicate ID warning caused by xml:id="install".

On the other hand, if you apply, say, profile os="window" to the realized book.xml, you'll not have this duplicate ID error. Why that? Because by applying profile os="windows", second chapter (having os="mac") is excluded from the realized document prior to checking it.

That's why the **Check Assembly** command automatically takes into account last used profile whether this profile has been specified using **Conditional Processing** \rightarrow **Select Profile**² or this profile has been specified as one or more XSLT stylesheet parameters (e.g. profile.os=windows) using the "**Document conversion parameters**" panel in *XMLmind XML Editor - Online Help*.

When such last used profile is detected by **Check Assembly**, this command displays a dialog box letting the user review this profile before performing the check.

Figure 3. The "apply last used profile" dialog box displayed by command Check Assembly

Confirm		×
?	Apply the following conditional processing profile to realized document? (This may be needed to avoid false errors.)	
	os=windows userlevel=newbie;intermediate	
	Yes No Cancel	

2.1. The "Convert Document" sub-menu

How does it work?

All the "**Convert Document**" menu items first invoke XMLmind Assembly Processor to generate the *realized document* out of the assembly being edited and then, this realized document is converted to other formats (HTML, PDF, DOCX, etc) normally, using the DocBook XSL stylesheets.

What we call the realized document is the "flat", monolithic, document (e.g. a DocBook 5.1 + book) specified by the means of the assembly.

This first processing step explains why the assembly being edited must have been saved to disk prior to be able to use any of the "**Convert Document**" menu items.

Menu items



The "**Convert to RTF**", **WML**, **DOCX**, **ODT**, entries documented below are absent in XMLmind DocBook Editor. They are found only in XMLmind XML Editor.



Using the profiling stylesheets

Conditional processing, also called *profiling* or conditional text, means that you can create a single XML document with some elements marked as conditional. When you process such a document, you can specify which conditions apply for that version of the output, and the

²See also About DocBook 5.1+ assemblies and the "Easy Profiling" add-on [2].

XSLT stylesheet will include or exclude the marked text to satisfy the conditions. More information in DocBook XSL: The Complete Guide.

If you need to use the profiling XSLT stylesheets rather than the regular ones, use **Options** \rightarrow **Customize Configuration** \rightarrow **Customize Document Conversion Stylesheets** in *XML*-*mind XML Editor* - *Online Help* and select the corresponding stylesheet.

Convert to HTML, Convert to HTML [one page]

Converts the document being edited to multi page or single page HTML.



Generating XHTML rather than HTML

If you prefer to generate XHTML 1.0 or 5 rather than plain HTML, use **Options** \rightarrow **Customize Configuration** \rightarrow **Customize Document Conversion Stylesheets** and select the corresponding stylesheet.

Convert to Web Help

Converts the document being edited to Web Help containing XHTML 5 pages.



The Web Help is generated by XMLmind Web Help Compiler and not by the XSLT stylesheets generating Web.Help which are part of the stock DocBook XSL Stylesheets.

Therefore, you *cannot* use any of XSLT stylesheet parameters having a name starting with "webhelp." and which are documented in "*DocBook XSL Stylesheets: Reference Documentation, HTML Parameter Reference, WebHelp*". For example, using webhelp.autolabel would have *no effect* on the Web Help generated by this menu entry.

Instead please use any of the parameter documented in "*XMLmind Web Help Compiler Manual, Parameters*" after prefixing their names with "wh-". Example: wh-favicon=https://docbook.org/graphics/banner.png

Convert to HTML Help

Converts the document being edited to a .chm file. This command is disabled on platforms other than Windows.

For this command to work, the HTML Help compiler, hhc.exe, must have been declared as the helper application associated to files having a "hhp" extension. This can be specified by using the **Preferences** dialog box, **Helper Applications** section.

Convert to Eclipse Help

Converts the document being edited to Eclipse Help.

If you want Eclipse to display your Eclipse Help document in its help viewer, you must

- specify the following XSLT stylesheet parameters: *eclipse.plugin.name*, *eclipse.plugin.id*, *eclipse.plugin.provider*, prior to selecting **DocBook** → **Convert Document** → **Convert to Eclipse Help**;
- 2. give to the output folder the name specified in *eclipse.plugin.id*;
- 3. copy the output folder containing the generated Eclipse Help document to *eclipse_install_dir/dropins/* and not *eclipse_install_dir/plugins/*.

Convert to EPUB

Converts the document being edited to EPUB.

Convert to RTF (Word 2000+)

Converts the document being edited to RTF (Rich Text Format) using XMLmind FO Converter (see http://www.xmlmind.com/foconverter/). The document generated by this command can be edited and printed using Microsoft® Word 2000 and above.

Convert to WordprocessingML (Word 2003+).

Converts the document being edited to WordprocessingML using XMLmind FO Converter. The document generated by this command can be edited and printed using Microsoft® Word 2003 and above.

Convert to Office Open XML (Word 2007+)

Converts the document being edited to Office Open XML (.docx file) using XMLmind FO Converter. The document generated by this command can be edited and printed using Microsoft® Word 2007 and above.

Convert to OpenDocument (OpenOffice.org 2+)

Converts the document being edited to OpenDocument (.odt file) using XMLmind FO Converter. The document generated by this command can be edited and printed using OpenOffice.org 2.

Convert to PDF

Converts the document being edited to PDF (Adobe® Portable Document Format, also known as Acrobat®) using RenderX XEP (see http://www.renderx.com/), if its plug-in has been installed, and Apache FOP otherwise (see http://xmlgraphics.apache.org/fop/).

All the above **Convert** commands display the URL chooser dialog box rather than the standard file chooser dialog box.

For all **Convert** commands except for the "**Convert to HTML**" command, you must specify the URL (Uniform Resource Locator) of a save file. The "**Convert to HTML**" command creates multiple HTML pages with a first page called index.html, therefore you need to specify the URL of a save directory.

Note that these commands can create directories on the fly, if needed to. For example, if you specify http://www.acme.com/docs/report43/mydoc.html as the URL of the save file and if directory report43/ does not exist, this directory will be created during command execution.

Syntax highlighting

You can automatically colorize the source code contained in programlisting elements. This feature, commonly called *syntax highlighting*, has been implemented using an open source software component called "XSLT syntax highlighting".

If you want to turn on syntax highlighting in a DocBook document:

- 1. Add attribute language to element programlisting. The value of attribute language must be any of: bourne, c, cmake, cpp, csharp, css21, delphi, ini, java, javascript, lua, m2 (Modula 2), perl, php, python, ruby, sql1999, sql2003, sql92, tcl, upc (Unified Parallel C), html, xml.
- 2. Specify XSLT stylesheet parameter highlight.source=1 using Options \rightarrow Customize Configuration \rightarrow Change Document Conversion Parameters. Do this for each output format you want to generate.

If you want to customize syntax highlighting for an HTML-based output format (XHTML, EPUB, etc), redefine any of the following CSS styles: .hl-keyword, .hl-string, .hl-number, .hl-comment, .hl-doccomment, .hl-directive, .hl-annotation, .hl-tag, .hl-attribute, .hl-value, .hl-doctype. Example:

```
.hl-keyword {
   font-weight: bold;
   color: #602060;
}
```

```
}
```

This can be done from within XXE using Options \rightarrow Customize Configuration \rightarrow Customize Document Conversion Stylesheets.

If you want to customize syntax highlighting for an XSL-FO-based output format (PDF, RTF, etc), redefine any of the following attribute-sets: hl-keyword, hl-string, hl-number, hl-comment, hl-doccomment, hl-directive, hl-annotation, hl-tag, hl-attribute, hl-value, hl-doctype. Example:

This can be done from within XXE using Options \rightarrow Customize Configuration \rightarrow Customize Document Conversion Stylesheets.

3. The Assembly toolbar



No need to first declare a resource and *then* create the module referencing it!

The dialog box [11] displayed by toolbar buttons allowing to insert or edit a module, is an *all-in-one dialog box*. It allows you to create or edit a module and, if needed to, at the same time, declare the resource referenced by this module. In fact, this dialog box even allows you to create a new document (topic, section, chapter, etc) corresponding to the resource.

Figure 4. The dialog box allowing to insert a module element and to edit a module or a structure element

🗶 🖈 Insert module Before 🗸 🗸	×
Resource Reference	
● Declare new resource: 🌓 Create	
intro.xml 📢	
A relative URL is relative to file:/home/hussein/…/10xxe/docsrc/assembly/help.xml	
New resource ID: intro	
Use declared resource:	
□ Include the content of the resource, not the resourse itself	
□ Do not include the titles of the resource	
If you select first option (contentonly="true") then you'll almost certainly want to select the second one (omittitles="true") too.	
○ No resource reference	
Render module as: section	
OK Help Cancel	

Insert Module Before

Insert a module before selected module. Displays the "Edit Module" dialog box [11].

Insert Module Into

Insert a module as the last child of selected module. Displays the "Edit Module" dialog box [11].

😼 Insert Module After

Insert a module after selected module. Displays the "Edit Module" dialog box [11].

Edit Module or Structure

Displays the "Edit Module" dialog box [11] in order to modify selected module or structure.

Configure Module or Structure

Add any of the following elements to selected module or structure: merge, output, filterin, filterout, info.

🔷 Move Up

Move selected element up, that is, swap it with its preceding sibling node. Requires the element to be explicitly selected.

🦊 Move Down

Move selected element down, that is, swap it with its following sibling node. Requires the element to be explicitly selected.

Promote Module

Decrease the nesting level of selected module. Clears its renderas attribute, if any.

Demote Module

Increase the nesting level of selected module. Clears its renderas attribute, if any.

a Edit or Add Relationship

If an element is implicitly or explicitly selected anywhere in a relationship element, displays a dialog box [14] allowing to modify this relationship.

Otherwise, if an element is implicitly or explicitly selected anywhere in a relationships element, displays a dialog box [14] allowing to add a new relationship element to this relationships parent.

Otherwise, displays a dialog box [14] allowing to add a new relationship element to the *last* relationships element of the assembly. This relationships parent is created on the fly and added to the assembly if needed to.

ᅔ Clean up Resources

Delete all resource elements not referenced in any module, structure, resource or instance element. However, this command never makes a resources element completely empty (which would make the assembly invalid) and never deletes resources elements.

• Show Level

Displays a menu containing "Show Level 1", "Show Level 2", ..., "Show Level 9" items. "Show Level N" means: expand all the collapsible elements of the assembly up to nesting level N and recursively collapse all the collapsible elements having a nesting level greater than N.

Open All Resources R/O

Opens in read-only mode all the resources (topic, chapter, section, etc) referenced in the selected elements and their descendants.

> Open All Resources

Opens in normal read-write mode all the resources (topic, chapter, section, etc) referenced in the selected elements and their descendants.

See also

- Section 3.1, "The "Edit Module" dialog box" [11]
- Section 3.2, "The "Edit or Add Relationship" dialog box" [14]
- Section 4, "Custom bindings" [16]

3.1. The "Edit Module" dialog box

Figure 5. The dialog box allowing to insert a module element and to edit a module or a structure element

× *	Insert module Before	~ ^ X
Resource Reference		
Oeclare new resource:	Create	
intro.xml		
A relative URL is relative to file:/home/hussein//10xxe/d	ocsrc/assembly/help.xml	
New resource ID: intro		
O Use declared resource:		
Include the content of the res	ource, not the resourse itself	
Do not include the titles of the	resource	
	entonly="true") then you'll almost cond one (omittitles="true") too.	
○ No resource reference		
Render module as: section	~	
(OK Help Cancel	

• Check "Declare new resource" if you want edited module or structure to reference a resource which has not already been declared in the assembly.

The referenced resource is found in the file specified in the text field below the checkbox. *This resource is automatically declared in a resources element of the assembly.*

If the resource you want to reference in the edited module or structure does not exist yet, you can create it using the \square Create button. This button displays the same dialog box as menu item File \rightarrow New.

Field "New resource ID" allows to specify the value of the xml:id of the newly declared resource. This value is automatically computed for you if the use the \square Create or the \square "Choose resource file" button.

- Check "Use declared resource" if you want edited module or structure to reference a resource which has already been declared in the assembly. Button I "Selected declared resource" displays a dialog box allowing to choose a declared resource.
- Check "No resource reference" if you don't want edited module or structure to reference a resource. In such case do not forget to fill the "Render module as" field. You may also want to use toolbar button I Add to Module or Structure" to add an info element to the edited module or structure.

When edited module or structure references a resource:

- Checking "Include the content of the resource, not the resource itself" lets you include in the realized document all the child elements of the root element of the resource. In practice, checking this button adds attribute contentonly=true to edited module.
- Checking "Do not include the titles of the resource" lets you include the resource without its title, titleabbrev and subtitle elements in the realized document. In practice, checking this button adds attribute omittitles=true to edited module.
- Checking both "Include the content of the resource, not the resource itself" and "Do not include the titles of the resource" is a useful combination which lets you include just the "body" of the resource in the realized document. See example below.

Example 1. Effect of attributes contentonly=true and omittitles=true on the content included in the realized document.

• When contentonly=false and omittitles=false, included content is:

```
<section xml:id="intro" xml:lang="en-US"
xml:base="sections/introl.xml">
<info>
<title>Introduction</title>
<titleabbrev>Intro.</titleabbrev>
<author>
<personname>John Doe</personname>
</author>
</info>
<para>This is the introduction.</para>
</section>
```

• When omittitles=true, included content is:

```
<section xml:id="intro" xml:lang="en-US"
   xml:base="sections/introl.xml">
        <info>
            <author>
                <personname>John Doe</personname>
                </author>
                </info>
                <para>This is the introduction.</para>
</section>
```

• When contentonly=true, included content is:

```
<info xml:lang="en-US" xml:base="sections/introl.xml">
    <title>Introduction</title>
    <titleabbrev>Intro.</titleabbrev>
    <author>
        <personname>John Doe</personname>
    </author>
</info>
```

```
<para xml:lang="en-US"
    xml:base="sections/introl.xml">This is the introduction.</para>
```

• When contentonly=true and omittitles=true, included content is:

```
<para xml:lang="en-US"
    xml:base="sections/introl.xml">This is the introduction.</para>
```

Note that included content is **not**:

```
<info xml:lang="en-US" xml:base="sections/introl.xml">
<author>
<personname>John Doe</personname>
</author>
</info>
<para xml:lang="en-US"
xml:base="sections/introl.xml">This is the introduction.</para>
```

More information in XMLmind Assembly Processor Manual - Implementation specificities.

Render module as

This field allows to specify the value of the renderas attribute of the edited module or structure.

Default output format

This field allows to specify the value of the defaultformat attribute of the edited structure.

See also

• Section 3, "The Assembly toolbar" [8]

3.2. The "Edit or Add Relationship" dialog box

Figure 6. The dialog box allowing to edit or add a relationship element

🔀 Edit relationship		—
Relation:		
See also		
Leave blank to specify default relation.		
IDs of related resources:		
→ assembly_toolbar		Add
assembly_bindings		Remove
		Link Type 🔻
Drag to change the order of the above resource		(unset)
	•←	Target Only
OK Help	⊶	Source Only
	0-0	Normal
	x	None

Relation

The content of this field specifies the name of the relation which exists between the resources specified in the ID list. It corresponds to the content of element relationship/association.

IDs of related resources

This list contains the IDs of the resources which are to be related. This list corresponds to a relationship element and its items to instance elements.

The relationship element corresponding to above figure [14] is thus:

```
<relationship>
<association>See also</association>
<instance linkend="assembly_toolbar" linking="sourceonly"/>
<instance linkend="assembly_bindings"/>
</relationship>
```

Add

Clicking this button displays a dialog box allowing to select one or more resource IDs. Selected IDs are added to the list.

Add	X
?	Please select one or more IDs:
_	assembly <structure> assembly_bindings <resource></resource></structure>
	assembly_menu <resource></resource>
	assembly_toolbar <resource></resource>
	convert_menu <resource> Convert menu intro <resource></resource></resource>
	docbook_convert_menu <module></module>
	edit_module_dialog <resource> edit_or_add_relationship_dialog <resour< td=""></resour<></resource>
	intro <resource></resource>
	OK Cancel

Note that these IDs come not only from the xml:id attributes of resource elements found in the assembly, but also from the xml:id attributes of structure and module (not having attribute contentonly="true") elements. More information in XMLmind Assembly Processor Manual - Implementation specificities.

Remove

Selecting one or more IDs from the list and clicking **Remove** allows to remove these IDs from the list.

Link Type

Selecting one or more IDs from the list and clicking **Link Type** displays a popup menu allowing to change the "link type" of all selected items. The menu items correspond to the following values of attribute instance/linking:

Menu Item	Attribute Value
(unset)	Remove attribute linking.
Target Only	targetonly
Source Only	sourceonly
Normal	normal
None	none

More information in XMLmind Assembly Processor Manual - Implementation specificities.

See also

• Section 3, "The Assembly toolbar" [8]

4. Custom bindings

When a DocBook assembly is opened in XMLmind XML Editor, additional keyboard shortcuts which are specific to this kind of document are automatically made available to the user. This chapter contains a description of such keyboard shortcuts.

Action	Description	
Up	If a module is selected, select preceding module; elsewhere, default behavior.	
Down	If a module is selected, select following module; elsewhere, default behavior.	
Enter	Insert Module After [9]	
Shift+Enter	Insert Module Before [9]	
Ctrl+Enter	Insert Module Into [9]	
Esc e	Edit Module or Structure [9]	
Alt+Shift+Up	Move Up [9]	
Alt+Shift+Down	Move Down [10]	
Alt+Shift+Left	Promote Module [10]	
Alt+Shift+Right	Demote Module [10]	
Ctrl+Alt+C	Like Ctrl+Shift+C , copy to the clipboard a reference to the selected nodes. However this variant is useful when the reference is intended to be pasted to <i>several different locations</i> in the same document. It leverages XInclude 1.1 features ^a which allow to avoid duplicate IDs caused by transclusions.	
Double-click	On a module, resource or instance, open referenced resource [10]; else- where default behavior.	
Esc o	Open Referenced Resource [10]	
Esc O	Open Referenced Resource in Read-only Mode [10]	
Esc r	Edit or Add Relationship [10]	
Esc w	Clean up Resources [10]	
Drag	Dragging selected resource or transform drags the value of its href at- tribute. Elsewhere, default drag behavior.	
Drop	Dropping a file or URL onto a module displays a popup menu containing Insert Module Before [9], Insert Module Into [9], Insert Module After [9], Edit Module or Structure [9] and Cancel . Elsewhere, default drop behavior.	

^aThe xi:include element implicitly created by pasting the reference has a trans:idfixup="auto" attribute.