

MiramoPDF 2.0 DITA-OT plugin Getting Started Guide

Created using the Miramo DITA-OT plugin 161p48: http://www.miramo.com

Formatting is controlled by the Miramo Format Definitions XML file *template.mfd* located in the folder containing the DITA map

5 March 2020 1:11pm

Chapter 1: Introduction

Thank you for your interest in the Miramo DITA Open Toolkit (OT) plugin, com.miramo.mmpdf, which provides a simple method for generating high-quality PDFs from DITA on Windows system using MiramoPDF, where formatting is controlled via a GUI template design tool, MiramoDesigner.

This Getting Started guide provides the information you need to get up and running publishing your DITA content, fast.

The plugin maps DITA to the MiramoXML model, then applies template-controlled formatting using MiramoPDF. It is designed to be easily integrated with your chosen XML authoring tool or content management system, or run with the standalone DITA-OT using a simple command line interface described in Command line interface on page 19.

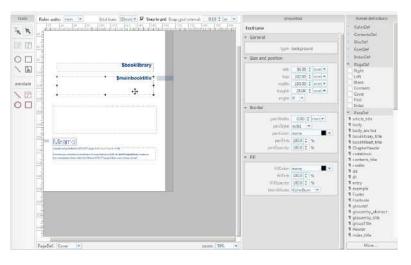
See Appendices for information on Installing and integrating the plugin with oXygen on page 39, and Installing and integrating the plugin with XMetaL on page 43.

The **com.miramo.mmpdf** plugin is designed to cover standard formatting requirements for DITA document content out of the box, but for bespoke requirements it may be customized to suit your needs - for information see Customization on page 31.

If you would like more information about server versions of Miramo, or if you need to publish non-DITA structured data, or would like to produce different output formats (FrameMaker, ePub, Kindle, HTML5 ...) please contact us (email miramo@datazone.com, phone +353 64 66 28964), and/or visit our website: http://www.miramo.com.

1.1 GUI template controlled formatting

The appearance of the output PDF is controlled by a Miramo Format Definitions (MFD) template - the separation of form and content. Templates are created and modified using MiramoDesigner (MiramoDesigner.exe), the GUI template design tool component of MiramoPDF.



The default template (default.mfd) supplied with the plugin provides a single-column layout for rendering MiramoXML to PDF. Here is an example: flowers_ default.pdf.

Chapter 2: Installing

The MiramoPDF DITA-OT plugin **com.miramo.mmpdf** is designed to be seamlessly integrated with any CMS or XML authoring tool such as oXygen or XMetaL. Alternatively it may be used with a standalone DITA-OT installation via the command line interface. This chapter gives an overview of installing or upgrading the plugin.

2.1 System requirements

Before installing the Miramo DITA-OT plugin the following software must be installed and working on the target system:

- DITA-OT version 1.8.5 or above
- MiramoPDF or MiramoEnterprise vs 1.5 or above

MiramoPDF Personal and Desktop editions run on the following operating systems:

- Windows 7 Professional (64 bit only)
- Windows 8.1 (64 bit only)
- Windows 10

MiramoPDF Server and Miramo Enterprise editions are available to run on Windows Server operating systems - contact us for more information.

2.2 Installing the Miramo DITA-OT plugin for the first time

These instructions relate to installing and integrating the Miramo DITA-OT plugin into an existing DITA-OT installation folder for the first time. For information on upgrading the plugin see Upgrading the Miramo DITA-OT plugin on page 5.

To integrate with your XML authoring tool or DITA CMS, follow the instructions given by your vendor. See Appendices for information on Installing and integrating the plugin with oXygen on page 39 and Installing and integrating the plugin with XMetaL on page 43.

See Files and folders on page 3 for a list of files and folders installed in the DITA-OT plugins/com.miramo.mmpdf folder.

2.2.1 Installing from the setup.exe

Double-click on the MiramoDITA-OTplugin<vs>setup.exe and navigate to the DITA-OT install root folder, which contains the 'integrator.xml' file. The MiramoDITA-OT plugin source (including samples, command scripts and templates) will be located in the [dita-ot install dir]/ plugins/com.miramo.mmpdf folder, for example:

C:\program files (x86)\dita-ot-3.3\plugins\com.miramo.mmpdf

The MiramoDITA-OTplugin<vs>setup.exe will run the DITA-OT integrator and will append the com.miramo.mmpdf folder to the PATH environment variable. The plugin is now ready to use.

See www.dita-ot.org for more information on installing and integrating DITA-OT plugins.

2.3 Files and folders

The **com.miramo.mmpdf** plugin includes the following files and folders, located in the DITA-OT installation folder selected during installation:

<dita-ot-installdir>/plugins/com.miramo.mmpdf/

Source for **com.miramo.mmpdf** plugin:



cfg/

XSL stylesheet placeholders and language specific localization strings. **Do not change** the contents of this folder - see Customizing the com.miramo.mmpdf plugin on page 31 for information on generating a custom plugin based on com.miramo.mmpdf and mmpdf:localization-strings.dir

com.example.my-mmpdf/

Contains source files for making a specialization of the com.miramo.mmpdf plugin. See Customizing the com.miramo.mmpdf plugin on page 31 for more details.

docs/Miramo_DITA-OT_GettingStarted.pdf

This document

images/

Images used by the com.miramo.mmpdf plugin

integration/oxygen/MiramoPDF.scenarios

The oXygen transformation scenario for producing a PDF from the currently edited DITA file. Import into your oXygen tool using Options->import transformations

integration/xmetal/*

Files needed for integrating with XMetaL.

logos/

Images and logos used by the com.miramo.mmpdf plugin

mmtemplates/

Miramo Format Definitions default template for DITA publishing:

Miramo Format Definitions templates are XML files which can be edited using the MiramoPDF GUI template design tool, MiramoDesigner.

default.mfd

default template used for publishing DITA content out of the box

samples/flowers/

The oXygen DITA flowers sample

samples/taskbook/

A modified version of the DITA-OT taskbook (IT book) sample

xsl

XSL stylesheets for mapping DITA to MiramoXML

dita2mm.cmd

Command script for preprocessing a DITA input file to MiramoXML, ready for rendering to PDF. Called by:

dita2mmpdf.cmd

Command script for running the flowers demo, or for producing a PDF from a specified DITA map.

build_dita2mmpdf.xml

XML file which contains the ant targets for performing topicmerge and translating the DITA content to MiramoXML (Miramo Simple Markup, which represents the document content), and for rendering that document content to PDF using the format definitions in the MFD template.

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Chapter 3: Upgrading

3.1 Upgrading the Miramo DITA-OT plugin

Double-click on the MiramoDITA-OTplugin<vs>setup.exe and navigate to the DITA-OT install root folder. If the target DITA-OT folder already contains an instance of the Miramo DITA-OT plugin com.miramo.mmpdf, the installer will automatically uninstall the existing plugin from the com.miramo.mmpdf plugin folder. Existing configuration files and XSL stylesheets in the com.miramo.mmpdf folder will be overwritten.

If you have made changes to the 'default.mfd' template file located in the com.miramo.mmpdf \mmtemplates folder, the installer will make a backup copy of the 'default.mfd' to 'default-pre<vs>mfd', where <vs> is the version being installed for example 160p10. Any other MFD files located in the mmtemplates folder will be left unchanged.

! **Important:** Once the installation has completed, upgrade any existing MFD files (including the renamed 'default.mfd' if present) by following the instructions given below.

3.2 Upgrading existing MFD files

Several new features and improvements have been introduced in version 1.6 of the MiramoPDF DITA-OT plugin, some of which have implications for upgrading existing MFD template files.

For example, the interparagraph spacing mode has changed since version 1.4 to remove inconsistencies. In the new version, spacing between paragraphs is exclusively controlled using @space-Above and @spaceBelow. If the values of these attributes is 0, there will be no space between paragraphs.

As a consequence the @spaceBelow values in ParaDef format definitions with a non-zero @leading value in MFD templates need to be adjusted to achieve the correct interparagraph spacing.

The MiramoPDF distribution includes a command line utility 'mfdupgrade.cmd' which automates the upgrade process. If you are using oXygen, a new transformation scenario 'MiramoPDF MFD upgrade' has been added to streamline the upgrade process.

Running the automated upgrade process on an MFD file 'filename.mfd' results in a new MFD file 'filename_upgraded.mfd'. Once you are happy with the results of the upgrade, this may be used in place of the original MFD file (but it is recommended that you make a backup copy first).

3.3 Using the 'mfdupgrade' command line tool

The 'mfdupgrade.cmd' script is installed in <u>c:\program files\Miramo\MiramoPDF</u> which is added to the PATH environment variable by the installer.

To upgrade your MFD file, start a new DOS command window and enter the following commands:

cd "foldercontainingMFDfile"
mfdupgrade |template.mfd

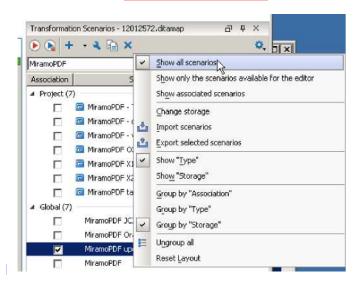
The system will produce a log file 'mfdupgrade.log' in the current folder, and will automatically open the new template_upgraded.mfd using MiramoDesigner.

The MM_DITA_DIR environment variable is set to the location of the com.miramo.mmpdf plugin folder during installation of the DITA-OT plugin. The mfdupgrade utility copies any missing or updated Format Definitions from the DITA-OT plugin default template 'default.mfd' located in \(\begin{align*} \frac{\mathcal{MM}_DITA_DIR\(\beta\) plugins/ com.miramo.mmpdf/mmtemplates. \end{align*}



3.4 Upgrading oXygen Transformation scenarios

Before importing the transformation scenarios, open the *Transformation Scenarios* window and ensure that the **Show all scenarios** is set:



Remove any existing 'MiramoPDF' transformation scenarios (pre Oxygen vs 21 only), then reimport the 'MiramoPDF.scenarios' from the *dita-ot-plugins/com.miramo.mmpdf/integration/oxygen* folder (see Integrating with oXygen on page 39 for more information).

3.5 Using the oXygen 'MiramoPDF MFD upgrade' transformation

To use the MiramoPDF MFD upgrade scenario:

- open the target MFD template as an XML file in oXygen editor
- apply the MiramoPDF MFD upgrade transformation

This creates a new MFD file 'template_upgraded.mfd' and opens it using MiramoDesigner. The console window will display diagnostic information describing the changes made.

3.6 Upgrading existing plugin customizations

The MiramoPDF DITA-OT plugin customization structure has been significantly reworked in version 1.6, so the recommended upgrade procedure for upgrading from earlier versions is to create a new customization from scratch using the instructions given in Manually creating a new custom plugin on page 34, then reapply any changes you have made to the 'cfg/ custom.xsl' to the new plugin folder.

For upgrading from version 1.6 and above, when installing a new version of the MiramoPDF DITA-OT plugin it may be necessary to update the 'build.xml' file for all existing customizations, so that parameters passed to the <xslt> target (eg 'my-mmpdf.merged2miramoxml') which maps from merged DITA to MiramoXML match those in the com.example.mmpdf/build.xml file to take advantage of any new 'ant' build parameters.

An example of the <param> values given in version 1.6 com.example.my-mmpdf is shown below. As new build parameters are introduced, the list of <param> values passed to the custom XSL stylesheet will need to be updated to reflect the new parameters:

```
<xslt in="${topic.merged.file}" out="${miramoxml.file}"
style="${dita.plugin.com.example.my-mmpdf.dir}/xsl/dita2miramo.xsl">
<xmlcatalog refid="dita.catalog"/>
```

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```
<param name="transtype" expression="${transtype}"/>
<param name="images.dir" expression="${mmpdf:images.dir}"/>
<param name="images.suffix" expression="${mmpdf:images.suffix}"/>
<param name="defaultImageUnits"</pre>
       expression="${mmpdf:defaultImageUnits}"/>
<param name="showStatus" expression="${mmpdf:showStatus}"/>
<param name="includeCover" expression="${mmpdf:includeCover}"/>
<param name="includeTOC" expression="${mmpdf:includeTOC}"/>
<param name="includeIndex" expression="${mmpdf:includeIndex}"/>
<param name="metadataprecedence"</pre>
       expression="${mmpdf:metadataprecedence}"/>
<param name="defaultCellVerticalAlignment"</pre>
       expression="${mmpdf:defaultCellVerticalAlignment}"/>
<param name="defaultImageAlignment"</pre>
       expression="${mmpdf:defaultImageAlignment}"/>
<param name="args.rellinks" expression="${args.rellinks}"/>
<param name="args.draft" expression="${args.draft}"/>
<param name="formatSectionTitleAsTopicTitle"</pre>
       expression="${mmpdf:formatSectionTitleAsTopicTitle}"/>
<param name="mfd.file.path" expression="${mfd.file.path}"/>
<param name="tableBorders" expression="${mmpdf:tableBorders}"/>
<param name="localization-strings.dir"</pre>
        expression="${mmpdf:localization-strings.dir}"/>
</xslt>
```

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Chapter 4: Publishing to PDF

This chapter covers using the MiramoPDF DITA-OT plugin and the GUI template designer, MiramoDesigner, to produce custom PDFs from DITA content. It includes information on using MiramoDesigner to customize a Miramo Format Definitions (MFD) template together with information on using ant build parameters and @outputclass attributes to customize the appearance of PDF output.

The plugin includes a default MFD template which can be used to publish DITA out of the box, either via your CMS, or using the MiramoPDF output transformation (oXygen) or deliverable (XMetaL), or via a simple command line interface. If the default template suits your needs, you can skip to Ant build parameters on page 10. For information on using the command line interface see Command line interface on page 19.

4.1 Workflow for developing customized PDFs

The workflow for developing a GUI template for customized PDFs is as follows:

- 1 Create a new DITA template (MFD) in the com.miramo.mmpdf/mmtemplates folder
- 2 Publish DITA content using the new MFD file with PDF tooltips enabled [showProperties=Y]
- 3 Review the PDF tooltips and decide which format definitions you would like to change
- 4 Use MiramoDesigner to modify the format definitions in the MFD template
- 5 Repeat steps 2 to 5 until you're happy with the output
- 6 Publish to production PDF with tooltips disabled [showProperties=N]

4.2 Creating a new MFD file

Use **File** > **SaveAs** to save your MFD file to the **com.miramo.mmpdf/mmtemplates** folder under a new name, eg myTemplate.mfd.

Start MiramoDesigner and either browse to the default.mfd located in <u>com.miramo.mmpdf/mmtemplates</u>, or click <u>New template</u> and choose the DITA template page size which suits best:



4.3 Publishing DITA content with PDF tooltips enabled

Set the ant build parameter mmpdf:mfd.file to the name of the template (eg myTemplate.mfd) and the mmpdf:showProperties build parameter to 'Y' to include PDF tooltips in the generated output, as allowed by your CMS or authoring tool. For example, If using oXygen, make a copy of the MiramoPDF - Dev output transformation, change the mmpdf:mfd.file parameter to 'myTemplate.mfd'

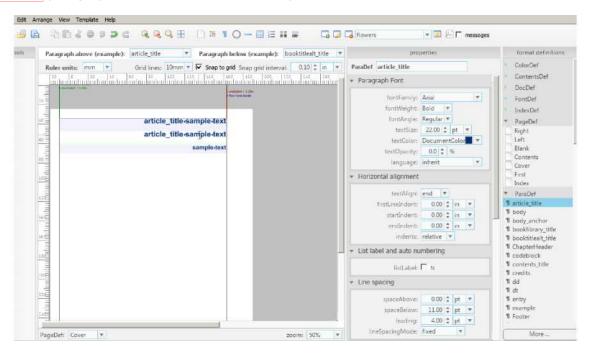
Publish your DITA content to produce a PDF with tooltips which indicate which format are applied, here's an example showing the 'article_title' <ParaDef> properties:



Once you have reviewed the PDF and decided which format definitions require updating you're ready to edit the MiramoDesigner template and republish.

4.4 Editing the MFD template using MiramoDesigner

Here is a screenshot of the main <u>MiramoDesigner</u> window, showing the properties of the <u>article_title</u> paragraph, which can be altered as required.



See videos on the MiramoPDF YouTube channel for tutorials on using MiramoDesigner.

4.5 Ant build parameters

The table below gives a list of the ant build parameters supported by the MiramoPDF DITA-OT plugin, which may be used to configure aspects of the PDF publishing process..

Table 1: ant build parameters used by the Miramo DITA-OT plugin

ant parameter	Default value	Description
args.draft	no	Set to 'yes' to include draft comments as 'comment' paragraphs in the PDF. If @author is specified the comment is wrapped in the correspondingly named FontDef (ignored unless FontDef is defined in the MFD file)
args.filter	none	Specifies a filter file to be used to include, exclude, or flag content, as part of the DITA- OT preprocessing
args.input	required	Path to the source content being published.

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Table 1: ant build parameters used by the Miramo DITA-OT plugin

ant parameter	Default value	Description
args.rellinks	none	Specifies which links to include in the output. Values are: "none" (default) - no links are included. "all" - all links are included. "noparent" - no parent links included "nofamily" - parent, child, next, and previous links are not included.
clean.temp	yes	Specifies whether to remove temporary intermediate files from \${dita.temp.dir} May be useful for debugging. Allowed values: yes, no
dita.dir	dita install folder	Absolute path to the DITA Open Toolkit that is being used.
dita.temp.dir	mmtmp	Specifies temporary folder for intermediate files
output.dir	folder containing DITA source	Path to folder containing output PDF \${pdf.file}
pdf.file	input file with file extension replaced by .pdf	Name of PDF file to be created in \${output.dir}
transtype	mmpdf	Name of transformation type, modify only if using a customization of the com.miramo.mmpdf plugin
mmpdf:contentsDef	contents1	Name of ContentsDef to use for generated TOC
mmpdf:chapterContentsDef	chapterTOC	Name of ContentsDef to use for mini TOC
mmpdf:copyImagesToOutput	Y	Set to N to prevent copying images to \${output.dir}. Setting to Y (default) may be required by certain CMSs
mmpdf:cropMarks	N	Set to Y to include crop marks in the PDF output
mmpdf:cwd	system current folder	Current working folder for the mmComposer process - sometimes useful for resolving relative file URLs
mmpdf:images.dir	\${dita.dir}\plugins\com.mira mo.mmpdf\images	Location of image files used for notes and hazards
mmpdf:defaultCellVerticalAlig nment	middle	Set default vertical alignment of table cell contents. Override with <entry> @valign attribute.</entry>
mmpdf:formatSectionTitleAsT opicTitle	Y	Set to N to format section title elements as section_title* paragraphs, set to Y to format section title elements as topic_title* paragraphs
mmpdf:includeCover	Cover pages on page 14	Set to N to suppress cover generation
mmpdf:includeBackCover	Cover pages on page 14	Set to Y to include back cover for DITA map or bookmap
mmpdf:includeChapterTOC	Table of Contents (TOC)s on page 14	Set to Y to include mini TOCs at the beginning of each chapter
mmpdf:includeTOC	Table of Contents (TOC)s on page 14	Set to N to suppress TOC generation
mmpdf:includeIndex	Indexes on page 14	Set to N to suppress Index generation
mmpdf:indexDef	index1	Name of IndexDef to use for generated Index

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Table 1: ant build parameters used by the Miramo DITA-OT plugin

ant parameter	Default value	Description
mmpdf:jobID		MiramoEnterprise only: unique identifier for queued job as viewed in mmVisor
mmpdf:localization-strings.dir	\${plugin.dir}/cfg/strings	Location of strings folder containing langlist.xml and *.xml language files
mmpdf:mfd.dir	\${dita.dir}\plugins\com.mira mo.mmpdf\mmtemplates	Folder containing \${mfd.file} template
mmpdf:tableBorders	fromDITA	Set table border properties: fromDITA (support @frame, @colsep and @rowsep) or fromTblDef (use TblDef rulings). See Table borders and rulings on page 15 for more information.
mmpdf:mfd.file	default.mfd	Name of MiramoDesigner MFD template file used to control output formatting, located in \${dita.dir}\plugins\com.miramo.mmpdf\mmte mplates, or value specified by mfd.dir parameter.
mmpdf:metadataprecedence	map	Default behavior is for book <metadata> <data> element values to override <topic> <data> elements of the same name. Set to 'topic' to allow topic metadata to override book metadata</data></topic></data></metadata>
mmpdf:processGroup	1	MiramoEnterprise only: Name or number of MiramoEnterprise processing group as viewed in mmVisor
mmpdf:showProperties	Y	If this property is set to Y, the PDF output file will contain PDF tooltips describing paragraph, font and table formats. Set to N for production. Note that PDF tooltips may not be visible in non-Adobe PDF viewers.
mmpdf:showStatus	N	If this property is set to Y, the @status attribute value 'new', 'deleted' or 'changed' will be mapped to the FontDef 'new', 'deleted' or 'changed' (the 'new' FontDef might be set to set text to Green, for example)

4.6 Controlling formatting using DITA @outputclass values

The Miramo DITA-OT plugin allows page layouts, covers, TOC and Index generation to be controlled using one or more space separated 'mmpdf:' @outputclass values, as described in the table below:

Table 2: DITA @outputclass values

@outputclass value	DITA elements	Description
mmpdf:span	title, p, note	spans title across all columns in multi-column document
mmpdf:pageBreak	title, p, note	breaks page before title/p/note paragraph
mmpdf:columnBreak (alias for break-before)	title, p, note	force title/p/note paragraph to top of next column (or page, for single-column documents)
mmpdf:fontDef:name	ph	apply fontDef name to this phrase

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Table 2: DITA @outputclass values

mmpdf:paraDef:name title, p, note, ol, ul override default paraDef with paraDef name for rendering generated paragraph. For cols, cul> elements, use named paraDef for child list items mmpdf:listName:name , specify basename for generating listItem paragraph names. default: orderedlistitem () or unorderedlistitem() or unorderedlistitem(aset top, bottom, start or end rule to ruleDef name. If applied	@outputclass value	DITA elements	Description
mmpdf:tblDef:name fig. table, simpletable, reltable, hazardstatement fig. table, simpletable, reltable, hazardstatement fig. table, simpletable, reltable, hazardstatement fig. table, simpletable, reltable, hazardstatement, row, strow mmpdf:bottomRule:name mmpdf:bottomRule:name mmpdf:endRule:name mmpdf:maximumHeight:d/m mmpdf:maximumHeight:d/m mmpdf:minimumHeight:d/m mmpdf:finliOpacity;percent mmpdf:fillOpacity;percent entry, stentry mmpdf:fillTint.percent mmpdf:withNext:doo/ mmpdf:withNext:doo/ mmpdf:section:name mmpdf:section:name mmpdf:section:name mmpdf:cooreSection:name mmpdf:bookmap mmpdf:backCoverSection:name mmpdf:coorbename mmpdf:coorbename map, bookmap mmpdf:backCoverSection:name map, bookmap mmpdf:coorbename map, bookmap mmpdf:backCoverSection:name map, bookmap mmpdf:coorbename in ap, bookmap mmpdf:coorbename in ap, bookmap mmpdf:backCoverSection:name map, bookmap mmpdf:backCoverSection:name map, bookmap mmpdf:coorbename in ap, bookmap mmpdf:coorbename in ap, bookmap mmpdf:backCoverSection:name map, bookmap mmpdf:coorbename in ap, bookmap mmpdf:backCoverSection:name map, bookmap mmpdf:coorbename in ap, bookmap mmpdf:backCoverSection:name map, bookmap mmpdf:coorbename in ap, bookmap mmpdf:coorbename in ap, bookmap itile, p, note set withNexit or or in itile in a	mmpdf:paraDef:name	title, p, note, ol, ul	dering generated paragraph. For , elements,
mmpdf:topRule:name mmpdf:bottomRule:name mmpdf:startRule:name mmpdf:startRule:name mmpdf:endRule:name mmpdf:endRule:name mmpdf:maximumHeight:d/m mmpdf:minimumHeight:d/m mmpdf:fillOpacity;percent mmpdf:withNext:doo/ mmpdf:withNext:doo/ mmpdf:withPrevious:doo/ mmpdf:section:name mmpdf:section:name mmpdf:coverSection:name mmpdf:coverSection:name mmpdf:bottomRule:name mmpdf:bottomRule:name mmpdf:startRule:name mmpdf:dillopacity:percent mmpdf:minimumHeight:d/m mmpdf:minimumHeight:d/m mmpdf:minimumHeight:d/m mmpdf:solorDef:name mnpdf:solorDef:name mnpdf:withNext:doo/ mmpdf:withNext:doo/ mmpdf:withSextCoverSection:name mmpdf:coverSection:name mmpdf:coverSection:name mmpdf:coverSection:name mmpdf:coverSection:name mmpdf:bookmap mmpdf:bookmap mmpdf:coverSection:name mmpdf:	mmpdf:listName:name	, 	names. default: orderedlistitem () or
mmpdf:bottomRule:name mmpdf:startRule:name mmpdf:endRule:name mmpdf:endRule:name simpletable, reltable, hazardstatement, row, strow, entry, stentry If applied to a <fig>, , <simpletable>, <reltable>, or <hazardstatement>, the ruling applies to the outside edges of the table If applied to a <row> or <strow> element, the ruling establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <row> or <strow> element, the ruling establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <row> or <strow> element, the ruling establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <row> or <strow> element, the ruling establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <row> or <strow> element, the ruling establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <row> or <strow> element, the ruling establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <row> or <strow> element, the ruling establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <row> or <strow> element, the ruling establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <entry <strow="" or=""> element, the ruling establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <entry <entry="" cell="" end="" fill<="" for="" in="" or="" start="" table="" td="" the=""></entry></entry></strow></row></strow></row></strow></row></strow></row></strow></row></strow></row></strow></row></strow></row></hazardstatement></reltable></simpletable></fig>	mmpdf:tblDef:name	simpletable, reltable,	
If applied to a <row- <entry="" a="" all="" applied="" bottom="" cells.="" contained="" default="" element,="" end="" establishes="" estrows="" for="" if="" or="" ruling="" start="" table="" the="" to="" top="" =""> or <stentry> element, the ruling applies to the edges of the table cell. </stentry></row->	mmpdf:bottomRule:name mmpdf:startRule:name	simpletable, reltable, hazardstatement, row,	If applied to a <fig>, , <simpletable>, <reltable> or <hazardstatement>, the ruling applies to the out-</hazardstatement></reltable></simpletable></fig>
mmpdf:maximumHeight:d/m row, strow set maximum row height mmpdf:minimumHeight:d/m row, strow set minimum row height mmpdf:colorDef:name entry, stentry use colorDef name for table cell fill mmpdf:fillOpacity;percent entry, stentry use fillOpacity percent for cell fill color (ignored unless mmpdf:colorDef:name used) default: 100% mmpdf:fillTint.percent entry, stentry use fillTint percent for cell fill color (ignored unless mmpdf:colorDef:name used) default: 100% mmpdf:withNext:doo/ title, p, note set withNext to 'Y' or 'N' to set the paragraph keep with next property mmpdf:xelfDef:name xref Use XRefDef name for this cross reference mmpdf:section:name map, bookmap, title, topic, topicref, chapter, appendix, booktitle, table SectionDef is defined in the MFD template or using sectionDef is defined in the MFD template or using SectionDef sectionDef="name"./> and starts a new page layout sequence mmpdf:backCoverSection:name map, bookmap Use sectionDef 'name' for cover and subsequent pages. mmpdf:backCoverSection:name map, bookmap Apply sectionDef 'name' to end of PDF. Ignored unless mmpdf:includeBackCover is set to Y. default: backCoverSection	minput.chakaic.name		establishes the default start/end/top/bottom ruling for all contained table cells. If applied to a <entry> or <stentry> element, the ruling</stentry></entry>
mmpdf:minimumHeight:d/mrow, strowset minimum row heightmmpdf:colorDef:nameentry, stentryuse colorDef name for table cell fillmmpdf:fillOpacity;percententry, stentryuse fillOpacity percent for cell fill color (ignored unless mmpdf:colorDef:name used) default: 100%mmpdf:fillTint.percententry, stentryuse fillTint percent for cell fill color (ignored unless mmpdf:colorDef:name used) default: 100%mmpdf:withNext:doo/title, p, noteset withNext to 'Y' or 'N' to set the paragraph keep with next propertymmpdf:withPrevious:doo/title, p, noteset withPrevious to 'Y' or 'N' to set the paragraph keep with next propertymmpdf:xRefDef:namexrefUse XRefDef name for this cross referencemmpdf:section:namemap, bookmap, title, topic, topicref, chapter, appendix, booktitle, tableSectionDef is defined in the MFD template or usingsectionDef sectionDef="name"/> and starts a new page layout sequenceSectionDef sectionDef="name"/> and starts a new page layout sequencemmpdf:backCoverSection:namemap, bookmapUse sectionDef 'name' for cover and subsequent pages.Ignored if mmpdf:includeCover is set to N. default: coverSectionmmpdf:contentsSection:namemap, bookmapUse sectionDef name for TOC and subsequent pages.Ignored if mmpdf:includeTOC is set to N. default			-
mmpdf:colorDef:nameentry, stentryuse colorDef name for table cell fillmmpdf:fillOpacity;percententry, stentryuse fillOpacity percent for cell fill color (ignored unless mmpdf:colorDef:name used) default: 100%mmpdf:fillTint.percententry, stentryuse fillTint percent for cell fill color (ignored unless mmpdf:colorDef:name used) default: 100%mmpdf:withNext:doo/title, p, noteset withNext to 'V' or 'N' to set the paragraph keep with next propertymmpdf:withPrevious:doo/title, p, noteset withPrevious to 'Y' or 'N' to set the paragraph keep with previous propertymmpdf:xRefDef:namexrefUse XRefDef name for this cross referencemmpdf:section:namemap, bookmap, title, topic, topicref, chapter, appendix, booktitle, tableSectionDef is defined in the MFD template or using 'SectionDef sectionDef="name"./> and starts a new page layout sequencemmpdf:coverSection:namemap, bookmapUse sectionDef 'name' for cover and subsequent pages.Ignored if mmpdf:includeCover is set to N. default: coverSectionApply sectionDef 'name' to end of PDF.Ignored unless mmpdf:includeBackCover is set to Y. default: backCoverSectionmmpdf:contentsSection:nameUse sectionDef name for TOC and subsequent pages.		•	J. Control of the con
mmpdf:fillOpacity;percententry, stentryuse fillOpacity percent for cell fill color (ignored unless mmpdf:colorDef:name used) default: 100%mmpdf:fillTint.percententry, stentryuse fillTint percent for cell fill color (ignored unless mmpdf:colorDef:name used) default: 100%mmpdf:withNext:doo/title, p, noteset withNext to 'Y' or 'N' to set the paragraph keep with next propertymmpdf:withPrevious:doo/title, p, noteset withPrevious to 'Y' or 'N' to set the paragraph keep with previous propertymmpdf:xRefDef:namexrefUse XRefDef name for this cross referencemmpdf:section:namemap, bookmap, title, topic, topicref, chapter, appendix, booktitle, tablestart new section using SectionDef 'name'.sectionDef is defined in the MFD template or using <sectiondef sectiondef="name"></sectiondef> and starts a new page layout sequencemmpdf:coverSection:namemap, bookmapUse sectionDef 'name' for cover and subsequent pages.Ignored if mmpdf:includeCover is set to N. default: coverSectionmmpdf:contentsSection:namemap, bookmapApply sectionDef 'name' to end of PDF. Ignored unless mmpdf:includeBackCover is set to Y. default: backCoverSectionmmpdf:contentsSection:namewap, bookmapUse sectionDef name for TOC and subsequent pages. Ignored if mmpdf:includeTOC is set to N. default	, , , , , , , , , , , , , , , , , , , ,	row, strow	j ,
mmpdf:colorDef:name used) default: 100% mmpdf:fillTint.percent entry, stentry use fillTint percent for cell fill color (ignored unless mmpdf:colorDef:name used) default: 100% mmpdf:withNext:doo/ title, p, note set withNext to 'Y' or 'N' to set the paragraph keep with next property mmpdf:withPrevious:doo/ title, p, note set withPrevious to 'Y' or 'N' to set the paragraph keep with next property mmpdf:xRefDef:name xref Use XRefDef name for this cross reference mmpdf:section:name map, bookmap, title, topic, topicref, chapter, appendix, booktitle, table mmpdf:coverSection:name map, bookmap Use sectionDef sectionDef="name"/> and starts a new page layout sequence pages. Ignored if mmpdf:includeCover is set to N. default: coverSection mmpdf:backCoverSection:name map, bookmap Use sectionDef 'name' to end of PDF. Ignored unless mmpdf:includeBackCover is set to Y. default: backCoverSection mmpdf:contentsSection:name map, bookmap Use sectionDef name for TOC and subsequent pages. Ignored if mmpdf:includeTOC is set to N. default		entry, stentry	
mmpdf:colorDef:name used) default: 100% mmpdf:withNext:doo/ mmpdf:withPrevious:doo/ mmpdf:withPrevious:doo/ mmpdf:xRefDef:name mmpdf:xRefDef:name mmpdf:section:name mmpdf:section:name mmpdf:coverSection:name mmpdf:coverSection:name mmpdf:backCoverSection:name mmpdf:contentsSection:name mmpdf:contentsSection:name mmpdf:colorDef:name used) default: 100% set withNext to 'Y' or 'N' to set the paragraph keep with next property with next property set withPrevious to 'Y' or 'N' to set the paragraph keep with previous property Use XRefDef name for this cross reference start new section using SectionDef 'name'. SectionDef is defined in the MFD template or using <sectiondef sectiondef="name"></sectiondef> and starts a new page layout sequence mmpdf:coverSection:name map, bookmap Wes sectionDef 'name' for cover and subsequent pages. Ignored unless mmpdf:includeBackCover is set to Y. default: backCoverSection mmpdf:contentsSection:name map, bookmap Use sectionDef name for TOC and subsequent pages. Ignored if mmpdf:includeTOC is set to N. default	mmpdf:fillOpacity;percent	entry, stentry	
mmpdf:withPrevious:doo/title, p, noteset withPrevious to 'Y' or 'N' to set the paragraph keep with previous propertymmpdf:xRefDef:namexrefUse XRefDef name for this cross referencemmpdf:section:namemap, bookmap, title, topic, topicref, chapter, appendix, booktitle, tablestart new section using SectionDef 'name'.mmpdf:coverSection:nameSectionDef is defined in the MFD template or using 'SectionDef sectionDef sectionDef="name"/> and starts a new page layout sequencemmpdf:coverSection:nameUse sectionDef 'name' for cover and subsequent pages.Ignored if mmpdf:includeCover is set to N. default: coverSectionmmpdf:contentsSection:nameMap, bookmapMap, bookmapUse sectionDef name for TOC and subsequent pages.Ignored if mmpdf:includeTOC is set to N. default	mmpdf:fillTint.percent	entry, stentry	
keep with previous property mmpdf:xRefDef:name xref Use XRefDef name for this cross reference mmpdf:section:name map, bookmap, title, topic, topicref, chapter, appendix, booktitle, table sectionDef is defined in the MFD template or using <sectiondef <sectiondef="" defined="" in="" is="" mfd="" or="" sectiondef="name" template="" the="" using=""></sectiondef> and starts a new page layout sequence mmpdf:coverSection:name map, bookmap Use sectionDef 'name' for cover and subsequent pages. Ignored if mmpdf:includeCover is set to N. default: coverSection mmpdf:backCoverSection:name map, bookmap Apply sectionDef 'name' to end of PDF. Ignored unless mmpdf:includeBackCover is set to Y. default: backCoverSection mmpdf:contentsSection:name map, bookmap Use sectionDef name for TOC and subsequent pages. Ignored if mmpdf:includeTOC is set to N. default	mmpdf:withNext:doo/	title, p, note	
mmpdf:section:name map, bookmap, title, topic, topicref, chapter, appendix, booktitle, table mmpdf:coverSection:name map, bookmap, title, topic, topicref, chapter, appendix, booktitle, table mmpdf:coverSection:name map, bookmap	mmpdf:withPrevious:doo/	title, p, note	
topic, topicref, chaptoric, topic, topicref, chaptoric, topic, topicref, chaptoric, topic, topicref, chaptoric, appendix, booktitle, table mmpdf:coverSection:name map, bookmap	mmpdf:xRefDef:name	xref	Use XRefDef name for this cross reference
pages. Ignored if mmpdf:includeCover is set to N. default: coverSection mmpdf:backCoverSection:name map, bookmap Apply sectionDef 'name' to end of PDF. Ignored unless mmpdf:includeBackCover is set to Y. default: backCoverSection mmpdf:contentsSection:name map, bookmap Use sectionDef name for TOC and subsequent pages. Ignored if mmpdf:includeTOC is set to N. default	mmpdf:section:name	topic, topicref, chap- ter, appendix, bookti-	SectionDef is defined in the MFD template or using <pre><sectiondef sectiondef="name"></sectiondef> and starts a new</pre>
Ignored unless mmpdf:includeBackCover is set to Y. default: backCoverSection mmpdf:contentsSection:name map, bookmap Use sectionDef name for TOC and subsequent pages. Ignored if mmpdf:includeTOC is set to N. default	mmpdf:coverSection:name	map, bookmap	pages. Ignored if mmpdf:includeCover is set to N. default:
Ignored if mmpdf:includeTOC is set to N. default	mmpdf:backCoverSection:name	map, bookmap	Ignored unless mmpdf:includeBackCover is set to Y.
	mmpdf:contentsSection:name	map, bookmap	Ignored if mmpdf:includeTOC is set to N. default

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Table 2: DITA @outputclass values

@outputclass value	DITA elements	Description
mmpdf:indexSection:name	map, bookmap	Use sectionDef name for Index and subsequent pages. Ignored if mmpdf:includeIndex is set to N, or document contains no indexterms. default: indexSection

4.7 Mapping DITA elements to PDF document objects

This section covers some general rules for the default mapping of DITA elements to PDF document objects and format definitions. To override aspects of the default mapping which can't be achieved using ant build parameters, MFD template changes or @outputclass values, it may be necessary to create a customized plugin - see Customizing the com.miramo.mmpdf plugin on page 31 for more information.

4.7.1 Cover pages

By default, front cover pages are included under the following conditions:

- map: map element has @title attribute or child <title> element
- bookmap: bookmap element contains child <booktitle> element

The front cover is added as a result of applying the coverSection SectionDef from the specified MFD file. To suppress cover generation in the above cases, set mmpdf:includeCover=N

Back cover pages may be added to the PDF generated from a map or bookmap if and only if the ant build parameter mmpdf:includeBackCover is set to Y. In this case the backCoverSection SectionDef is applied to the end of the generated PDF.

4.7.2 Table of Contents (TOC)s

By default, TOCs are included under the following condition:

bookmap: bookmap element contains a <booklists> <toc> element, for example:

To suppress TOC generation in the above case, set mmpdf:includeTOC=N

4.7.3 Indexes

By default, Indexes are included under the following conditions:

- DITA source contains one or more <indexterm> elements
- bookmap: bookmap element contains a <booklists> <indexlist> element, for example:

To suppress index generation in the above cases, set mmpdf:includeIndex=N

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4.7.4 Table borders and rulings

The <u>mmpdf:tableBorders</u> ant build parameter value controls whether table rulings are controlled by the MFD template (mmpdf:tableBorders = 'fromTblDef') or whether they can be overridden via the DITA @frame, @colsep and @rulesep parameters (mmpdf:tableBorders = 'fromDITA') as illustrated in the tables below. The appearance of the 'all', 'none', 'topbot', 'sides', 'top', 'bottom' and 'Very Thin' is controlled by the MFD template <RuleDef> settings.

Table 3: @frame attribute to MiramoXML <Tbl> RuleDef mapping [mmpdf:tableBorders = fromDITA]

@frame attribute value	topRule	bottomRule	startRule	endRule
all	all	all	all	all
none	none	none	none	none
topbot	topbot	topbot	none	none
sides	none	none	sides	sides
top	top	none	none	none
@frame attribute value	topRule	bottomRule	startRule	endRule
bottom	none	bottom	none	none

If the mmpdf:tableBorders and build parameter value is set to 'fromDITA' (default) the following rules apply for mapping inner table rulings:

Table 4: <tgroup> @colsep, @rowsep attributes to MiramoXML <Tbl> RuleDef mapping [mmpdf:tableBorders = fromDITA]

	columnRule	rowRule
@colsep = "0"	none	from <tbldef></tbldef>
@colsep = "1"	Very Thin	from <tbldef></tbldef>
@rowsep = "0"	from <tbldef></tbldef>	none
@rowsep = "1"	from <tbldef></tbldef>	Very Thin

Additional @outputclass values such as mmpdf:topRule:namemay be specified to override top, bottom, start and end rulings on a table, row, or entry (cell), regardless of the value set for mmpdf:tableBorders, or the value of the @frame, @colsep or @rowsep attributes.

See Controlling formatting using DITA @outputclass values on page 12 for further information.

4.7.5 Metadata elements to <VarDef> mapping

Metadata elements in the DITA are mapped to MiramoXML <VarDef> elements which are used to populate MiramoDesigner variable placeholders inserted in background (running header footer) text frames in the MFD template. The variables listed inTable 5 on page 16 are available in the default template and are populated from metadata elements, if present and not empty.

In addition, certain DITA metadata elements are mapped to MiramoXML <MetaData> elements which are used to populate PDF metadata.

For example, the following DITA <author> element:

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<author>Howe Tuduit</author>

is mapped to this <MiramoXML>:

```
<VarDef varDef="author">Howe Tuduit</VarDef>
<MetaData name="creator">Howe Tuduit</MetaData>
```

PDF metadata may be viewed using a tool such as Adobe Acrobat, or interrogated by third-party software. See Table 6 on page 16, and Adobe Acrobat PDF properties populated from DITA elements on page 17.

Metadata <data> or <othermeta> elements may be used to extend the set of variables and/ or PDF metadata:

- <data> elements are mapped to a <VarDef> whose name is mapped from the <data> element @name attribute.
 - a <data> element with @outputclass attribute set to 'mmpdf:metadata:name' may be used to map to a MiramoXML <MetaData> element, which is used to populate PDF metadata.

Table 5: MiramoDesigner metadata variables

author		featnum
booklib	rary	mainbooktitle
brand		prognum
booktit	ealt	prodinfo
categor	у	prodname
compor	nent	platform
copyrho	older	series
copyrye	ear	vrmlist (space separated list of versions)
emailad	ddress	vrmversion, vrmrelease, vrmmodification

See Adobe Acrobat PDF properties populated from DITA elements on page 17for a screenshot illustrating the PDF document properties populated from the taskbook.ditamap supplied in the samples/ taskbook folder.

Table 6: DITA to PDF xmp metadata mapping

DITA source element/attribute author	MiramoXML <metadata> @name creator</metadata>	PDF xmp metadata element dc:creator
keyword	keywords	pdf:Keywords dc:subject
bookmap/@title bookmap/title bookmap/mainbooktitle map/@title map/title	title	dc:title
created/@date	createdDate YYYY-MM-DD	xmp:CreateDate

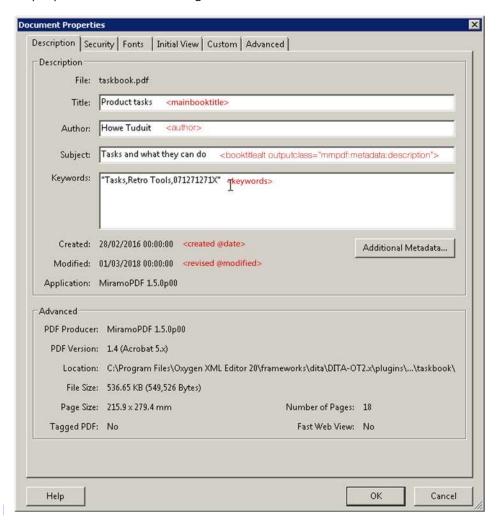
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Table 6: DITA to PDF xmp metadata mapping

revised/@modified	modifiedDate YYYY-MM-DD	xmp:ModifyDate
copyright/copyrholder copyryear/@year	rights	dc:rights

4.7.6 Adobe Acrobat PDF properties populated from DITA elements

Below is an annotated screenshot illustrating the mapping from DITA markup to PDF document properties, as viewed using Adobe Acrobat:



4.7.7 DITA equation domain (<mathml>) support

The plugin supports the following DITA math elements:

- · <equation-block>
 - Use the <equation-block> element to represent an equation that is presented as
 a separate block within a text flow. Block equations can be numbered. <equationblock> elements are wrapped in an 'equation-block' FontDef.
- equation-figure

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- Use the <equation-figure> element to represent an equation that functions as form of figure or display. Display equations are intended to be numbered when numbering is desired. <equation-figure> equations are wrapped in a 'equationfigure' table, which allows for different numbering sequences for equation titles.
- · equation-inline
 - Use the <equation-inline> element to represent an equation that is presented inline within a paragraph or similar context. Inline equations are not intended to be numbered. <equation-inline> equations are wrapped in an 'equation-inline' FontDef.

'equation-inline' and 'equation-block' FontDefs may be used to set default font characteristics (font family, pointsize and text color) for <mathml> equations.

4.8 Further information and help

See the Miramo mmComposer Reference Guide (PDF) for more information about the MiramoXML simple markup.

See the MiramoDesigner videos on the Miramo Datazone YouTube channel for more information about MiramoDesigner

Check our website at: http://www.miramo.com or phone us on +353 64 66 28964.

And you are always welcome to email <u>miramo@datazone.com</u> with comments, criticisms and questions - your feedback would be much appreciated.

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Chapter 5: Command line interface

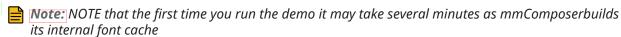
This chapter covers using the MiramoPDF DITA-OT plugin via a simple command line interface or ant, suitable for use with a standalone DITA-OT installation.

5.1 Running the demo

Start a console window, or powershell window and enter:

```
dita2mmpdf -dev
```

If your PATH environment variable is set correctly this will run the <u>dita2mmpdf.cmd</u> script in the <u>[dita-ot install dir][dita-ot install dir][plugins/com.miramo.mmpdf</u> folder.



This calls the dita2mm script to perform a topic merge on the flowers.ditamap, and to produce an intermediate flowers_miramo.xml file. The resulting XML is processed to PDF by Miramo.

When Miramo has finished creating the PDF you should see a message like this in the console window:

```
mmComposer: 1 : Completed with 0 errors and 0 warnings.
PDF file <com.miramo.mmpdf</pre>\samples\flowers\flowers.pdf createdFinished.
```

5.2 Creating a PDF using dita2mmpdf

The dita2mmpdf script has the following usage:

```
dita2mmpdf [-dev] [-ditaval file.ditaval] [ditafile [template.mfd [pdffile]]]
```

5.2.1 Using a different template and/or DITAVAL filter

To run the flowers sample through using a different 'twocol.mfd' template (not supplied) which you have created in the mmtemplates folder, use this command from the plugins/ com.miramo.mmpdf subfolder in the DITA-OT install folder:

```
dita2mmpdf samples/flowers/flowers.ditamap twocol.mfd
```

This will create the file samples/flowers/flowers.pdf (the PDF file defaults to the basename of the DITA file, with a .pdf extension) using the 'twocol.mfd' template (not supplied).

To create a differently named PDF, specify it as the last argument to dita2mmpdf, for example:

```
dita2mmpdf samples/flowers/flowers.ditamap twocol.mfd ff.pdf
```

To apply a DITAVAL filter 'print.ditaval' (not supplied) use the -ditaval command line option, eg:

```
dita2mmpdf -ditaval print.ditaval samples/taskbook.ditamap
```

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5.2.2 Using the -dev option to display formatting properties in the output PDF

The PDF files created using dita2mmpdf can be set to contain tooltips which give formating information for paragraph tags (green), font tags (red), and table tags (blue). Here is an example showing the article_title paragraph in the flowers.pdf file produced using the default template:

The tooltips are shown if the -dev command line option is supplied to the dita2mmpdf.cmd. (The dita2mmpdf -dev option sets the MiramoPDF command line option '-showProperties Y'). By default tooltips are not shown.

5.2.3 Using a different DITA input file

To run the DITA file through to a pdf with the same basename as the DITA file, use:

```
dita2mmpdf <path to ditafile>
```

or add the appropriate template file and output PDF name, eg:

```
dita2mmpdf sample.dita mytemplate.mfd mysample.pdf
```

In this case 'mytemplate.mfd' must exist in the *plugins/com.miramo.mmpdf/mmtemplates* folder.

5.3 Creating a PDF using the *dita* command

You can use either the dita command-line tool or ant to transform DITA content to PDF using the Miramo DITA-OT plugin:

```
dita -f mmpdf -i <path to ditafile> [options]
```

The above assumes that folder containing dita.bat is included in the PATH environment variable, for example using the following powershell command:

```
$env:PATH += ";$env:MM DITA DIR/bin"
```

Here is an example of using the 'dita' -f mmpdf command line tool to publish flowers.ditamap to a PDF in the default output folder, './out':

```
dita -f mmpdf -i flowers.ditamap
```

Any of the Ant build parameters on page 10 may be specified, for example to include PDF tooltip properties in the output PDF, and to write to pdf file 'myflowers.pdf' in the current folder:

```
dita -f mmpdf -i flowers.ditamap "-Dmmpdf:showProperties=Y" "-Dpdf.file=myflowers.pdf"
```

See <u>dita command arguments and options</u> on the <u>http://www.dita-ot.org</u> website for more information, and Ant build parameters on page 10 for a list of supported parameter values.

5.4 Using ant to build the dita2mmpdf target

Alternatively you can use ant to build the 'dita2mmpdf' target using the following syntax (powershell):

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```
ant -f "$env:MM_DITA_DIR/build.xml" ["-Dparam=value" "..."] dita2mmpdf
```

The above assumes that folder containing ant.bat is included in the PATH environment variable, for example using the following powershell command:

```
$env:PATH += ";$env:MM DITA DIR/bin" # powershell
```

Here is an example creating flowers.pdf from the samples/flowers folder by running this command from the powershell:

```
cd "env:MM_DITA_DIR"
ant -f "$env:MM DITA DIR/build.xml" "-Dargs.input=samples/flowers/
    flowers.ditamap" "-Dmmpdf:showProperties=Y" "-Dpdf.file=flowers.pdf"
    dita2mmpdf
```

Here is another example, where the test.ditamap is located in "c:\users\Joanne\documents", and the MFD file is called 'test.mfd' and is located in c:\Users\Joanne\documents:

```
cd c:\Users\Joanne\documents
ant -f "$env:MM DITA DIR/build.xml" "-Dargs.input=samples/flowers/
  flowers.ditamap" "-Dmmpdf:showProperties=Y" "-Dmmpdf:mfd.file=test.mfd"
  "-Dmmpdf:mfd.dir=c:\Users\Joanne\documents" "-Dpdf.file=flowers.pdf"
  dita2mmpdf
```

See Ant build parameters on page 10 for a list of parameters supported by the MiramoPDF DITA-OT plugin.

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Chapter 6: Multilingual publishing

Multilingual publishing presents challenges when deciding whether to use a single MFD template to control the appearance of multilingual documents, or to use one MFD file per document language: both approaches have advantages and disadvantages.

The Miramo DITA-OT plugin handles multilingual publishing through language specific variables (see Language specific variables on page 23), localization text configuration (see) and configuring the mapping of xml:lang attribute values to MiramoXML (see Configuring supported xml:lang values: langlist.xml on page 27).

Here are some points to consider when creating MiramoDesigner templates for use within a multi-lingual publishing system:

6.1 How many MFD or template files will I need?

The choice of font used for publishing is a key consideration for multilingual publishing: no single font supports all unicode characters, and some languages (eg Traditional vs Simplified Chinese) require different fonts, as the same unicode number may be rendered as a radically different glyph in the different languages.

For example, here is the same phrase published in Simplified Chinese, Traditional Chinese and Japanese:

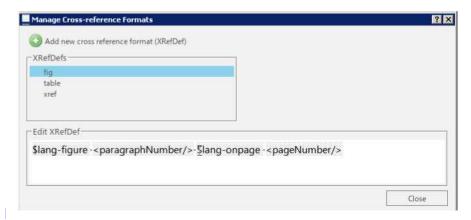
Simplified Chinese 朝辞白帝彩云间

Traditional Chinese 朝辭白帝彩雲間

Japanese 朝に辞す白帝彩雲の間

Generally, it is usually appropriate to use one MFD template for 'latin' languages (eg Italian, French, English, Spanish, Dutch) and a separate MFD template file for each other language which would require a different base font (eg Simplified Chinese, Arabic, Hebrew).

6.2 Language specific variables



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The language specific variables above (eg \$lang-figure, \$lang-onpage) are mapped to the appropriate language text, depending on the @xml:lang value specified for the DITA document or chapter.

Language specific variables may be used to create cross-reference formats, running headers and footers and figure/table numbering appropriate for multilingual publishing. For example, here is a language independent cross-reference format:

The following are some of the variables available in the default template which are populated from language specific strings in plugin folder *cfg/strings/*.xml*.

Table 7: Examples of MiramoDesigner language specific variables

MiramoDesigner variable name	Language specific text (english)
lang-appendix	Appendix
lang-contents	Contents
lang-figure	Figure
lang-index	Index
lang-onpage	on page
lang-page	page
lang-table	Table
lang-related	Related Links

For a complete list of language specific variables available by default, see the language files in the com.miramo.mmpdf/cfg/strings/*.xml.

! Important: Do not change the localization strings in the original com.miramo.mmpdf/cfg/strings/*.xml files, as these changes will be overwritten if you upgrade. Always make changes to a copy of the strings folder, either by manually copying the folder to a new location outside the com.miramo.mmpdf and setting the ant build parameter mmpdf:localization-strings.dir to the new folder, or add a new custom plugin Manually creating a new custom plugin on page 34) and change the strings in the cfg/strings folder within the new plugin.

6.2.1 Changing localization text

By default, localization text strings are located in the plugin folder's *cfg/strings/*.xml* files. If you wish to keep a copy of the strings folder elsewhere, copy the folder and set themmpdf:localization-strings.dir ant build parameter to the new location.

! Important: Do not change the localization text in the original com.miramo.mmpdf/cfg/strings folder, the changes will be overwritten if you upgrade.

Each language specific .xml file contains a set of <str> elements, each of which maps to a MiramoXML language dependent <VarDef> whose name is prefixed with 'lang-'.

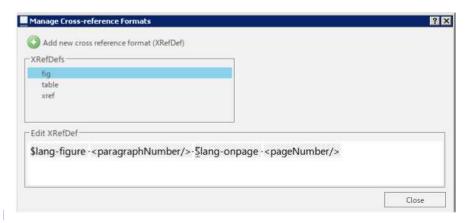
Every MiramoDesigner DITA template contains a set of language independent placeholder variables (<VarDef>s), which can be inserted into background text frames, or used as a building block, for example within a cross-reference (<XRefDef>) format definition.

Here is a screenshot of a language specific variable 'lang-contents' which has been inserted into the header of a Contents PageDef:

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Below is a language independent Cross Reference format which uses the lang-figure and lang-onpage <VarDefs>:



When the DITA is rendered to PDF, the placeholder variable will be replaced by the language specific string taken from the appropriate cfg/strings//language.xml, determined by the xml:lang setting applicable to the current document or chapter.

6.2.2 Example: extract from the 'cfg/strings/fr.xml' file

For example, here is an extract from the start of the default 'fr.xml' supplied with the com.example.my-mmpdf plugin:

```
<strings xml:lang="fr">
<str id="lang-fig">Illustration </str>
<str id="lang-table">Tableau </str>
<str id="lang-chapter">Chapitre </str>
<str id="lang-appendix">Annexe </str>
<str id="lang-appendix">Annexe </str>
<str id="lang-page">la page</str>
<str id="lang-optional">Facultatif :</str>
<str id="lang-optional">Facultatif :</str>
<str id="lang-required">Obligatoire :</str>
<str id="lang-onpage"> a la page </str>
<str id="lang-onpage"> a la page </str>
<str id="lang-prereq" dita-ot-id="task prereq"/>
<str id="lang-postreq" dita-ot-id="task postreq"/>
<str id="lang-example" dita-ot-id="task example"/>
```

This file is used to populate a set of MiramoDesigner language independent <VarDef>s as follows.

If present, @dita-ot-id specifies the DITA-OT language variable or string id to look up, defined in:

plugin:org.dita.base:xsl/common/strings-*.xml

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plugin:org.dita.pdf2/cfg/common/vars/*.xml

If there is no @dita-ot-id attribute, the value is taken from the <str> element contents.

6.2.3 Changing existing language variables

To change the value used to populate a <VarDef> which retrieves the value of a DITA-OT language string, remove the @dita-ot-id attribute and add the required text to the <str> element.

For example, to suppress the standard note separator ':' which is added as a label suffix for <note> paragraphs, change from:

```
<str id="lang-note-separator" dita-ot-id="#note-separator"/>

to:
    <str id="lang-note-separator"/>
```

Here is another example where the standard text used to label a prereq> paragraph is changed from the default DITA-OT string 'Avant de commencer' to 'Avant:' change from:

```
<str id="lang-prereq">Avant de commencer </str>

to:
    <str id="lang-prereq">Avant: </str>
```

Be sure to run the DITA-OT integration tool to apply the changes: Running the DITA-OT integration tool on page 35.

6.2.4 Creating and using a new language variable

First, add new entry for the new <VarDef> to each of the language.xml files you support for publishing your DITA content.

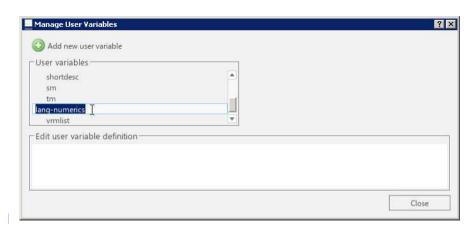
Here are two examples added to the language file 'nl.xml' (Dutch language). The first exposes the DITA-OT language string Numerics into a <VarDef> named 'lang-numerics'. The second creates a new <VarDef> named 'lang-languagename':

```
<strings xml:lang="n1">
<str id="lang-numerics" dita-ot-id="Numerics"/>
<str id="lang-languagename">Nederlands</str>
```

Next, create matching empty placeholder <VarDef>s 'lang-numerics' and 'lang-language-name' in your MFD template:

Click on More at the bottom of the Format Definitions pane and click on VarDef to bring up the Manage Variables dialog, then click on the Add new user variable button to add the new lang-numerics and lang-languagename placeholder variables:

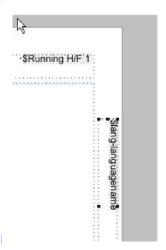
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These placeholder variables can now be inserted in background text frames. Double-click on a background text frame to locate the insertion point, then right-click to bring up the context menu, choose 'Insert variable' and click on 'lang-languagename'. The screenshot on the right shows the \$lang-languagename placeholder in a rotated background text frame:

6.3 Configuring supported xml:lang values: langlist.xml

The com.miramo.mmpdf/cfg/strings/langlist.xml file controls the mapping of xml:lang values specified in DITA markup, and configures the filename containing localization text. The 'cfg/strings/*.xml' contain language specific strings used to construct language specific variables eg 'lang-table' and 'lang-page' which may be inserted in the MFD template. See Changing localization text on page 24 for information on changing existing language specific variables, and/or adding new ones.



! Important: Do not change any of the files in the com.miramo.mmpdf/cfg folder as these will be overwritten when upgrading the plugin. See Customizing the com.miramo.mmpdf plugin on page 31 for information on how to customize language specific variables.

Here are some extracts from the default com.miramo.mmpdf/cfg/strings/langlist.xml file, starting at line 169. See comments for an explanation of attribute values:

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```
filename
       specifies file containing language specific strings
    rt1
       set to "true" for RTL languages such as Arabic (ar) and Hebrew (he)
    requiresFontSwitch
       set to 'true' if language requires a switch to a different (non-latin
       script) font for example, if a phrase with @xml:lang='zh-cn'
       (simplified chinese) is encountered within a DITA document with
       @xml:lang='us-en', this would require a switch to a different fontDef:
       lang-zh-cn
    miramoLanguage
      MiramoXML @language attribute value: controls font script, text
       direction and hyphenation characteristics
<lang xml:lang="en-us" filename="en.xml" miramoLanguage="usEnglish"/>
<lang xml:lang="ar" filename="ar.xml" rtl="true" requiresFontSwitch="true"</pre>
miramoLanguage="Arabic"/>
<lang xml:lang="ar-eg" filename="ar.xml" rtl="true"</pre>
requiresFontSwitch="true" miramoLanguage="Arabic"/>
<lang xml:lang="ar-ae" filename="ar.xml" rtl="true"</pre>
requiresFontSwitch="true" miramoLanguage="Arabic"/>
<lang xml:lang="be" filename="be.xml"/>
<lang xml:lang="be-by" filename="be.xml"/>
<lang xml:lang="bg" filename="bg.xml" miramoLanguage="Bulgarian"/>
<lang xml:lang="bg-bg" filename="bg.xml" miramoLanguage="Bulgarian"/>
<lang xml:lang="bs" filename="bs.xml" miramoLanguage="Bosnian"/>
<lang xml:lang="bs-ba" filename="bs.xml" miramoLanguage="Bosnian"/>
```

To add a support for a new xml:lang value, first create a new localization strings file by copying an existing file and modify the language strings as required. Then add a new entry to the languist.xml file., with the filename attribute set to the location of the new language file.

Be sure to run the DITA-OT integrator to register your changes.

6.4 @xml:lang to MiramoXML mapping

The DITA-OT processes @xml:lang values encountered in the inputstream as follows:

When the DITA-OT plugin encounters an @xml:lang attribute value which differs from the document @xml:lang value, it checks the langlist.xml file to see if a font switch is required (@requiresFontSwitch="true"); if so, it applies the FontDef named 'lang-lower-case(@xml:lang)' - for example, if an Traditional Chinese table like this is encountered in a us-en (US english, default) document:

it is mapped to this MiramoXML:

```
<Tbl language="TraditionalChinese"><!-- language attribute determines hyphenation-->
```

and all the paragraphs within the contents of the are formatted with the FontDef named 'lang-zh-tw'.

Similiarly, if a (bold) or <i> (italic) element is encountered within the context of an @xml:lang value which differs from the document @xml:lang, it is mapped to a FontDef named 'b-lower-case(@xml:lang)' or 'i-lower- case(@xml:lang)' - for example, b-zh-tw or i-

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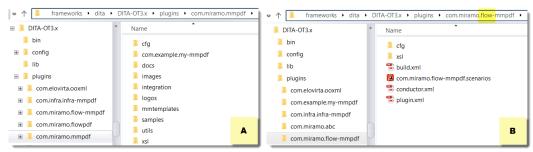
ar. However, if the language context of the or <i> element is the same as the document language context, the mapping is to FontDef 'b' or 'i', as usual.

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Chapter 7: Customization

7.1 Customizing the com.miramo.mmpdf plugin

The com.miramo.mmpdf plugin is intended to cover most formatting requirements, but in some cases it may be necessary to create a custom plugin which overrides or adds to some of the features supported by the standard plugin. If so, do not modify the files in the default MiramoPDF DITA-OT plugin installation folder (DITA-OT3.x\plugins\com.miramo.mmpdf), because these files will be overwritten when you install a new version of the MiramoPDF DITA-OT plugin. Create a custom MiramoPDF DITA-OT plugin instead.



Α

Default MiramoPDF DITA-OT plugin folder

В

Custom MiramoPDF DITA-OT plugin folder

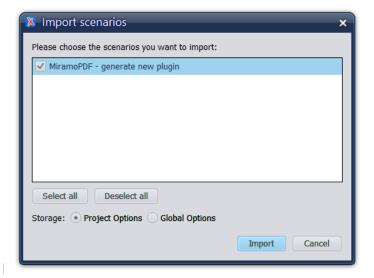
If you have access to oXygenXML Author/Editor see Creating a custom MiramoPDF DITA-OT plugin using oXygenXML Author/Editor on page 31, otherwise follow the instructions in Manually creating a new custom plugin on page 34 or Manually creating a company specific plugin on page 35

It also includes a simple example of working with a new plugin (com.example.my-mmpdf) to create a new transformation type my-mmpdf which includes changes to localization text, default parameter values and to the DITA to MiramoXML transformation.

7.1.1 Creating a custom MiramoPDF DITA-OT plugin using oXygenXML Author/Editor

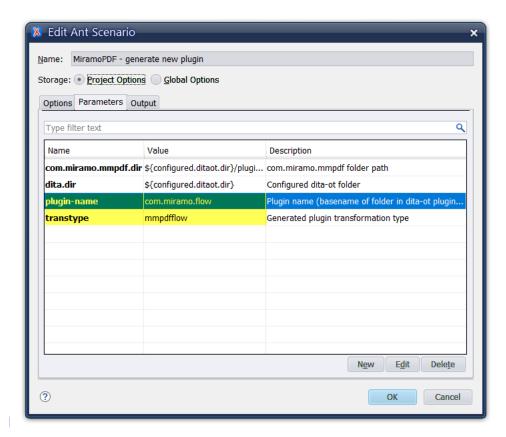
This topic describes how to use the MiramoPDF - generate new plugin transformation scenario in oXygenXML Author/Editor to create a new custom plugin.

- 1 In oXygenXML Author/Editor, choose Options > Import Transformation Scenarios.
- 2 Navigate to your MiramoPDF DITA-OT plugin installation folder, for example C:\Program Files \Oxygen XML Editor 21\frameworks\dita\DITA-OT3.x\plugins\com.miramo.mmpdf\integration\oxygen
- 3 Select MiramoPDF-generate-plugin.scenarios and click Open.
- 4 In the *Import scenarios* dialog, select Project Options and click Import.

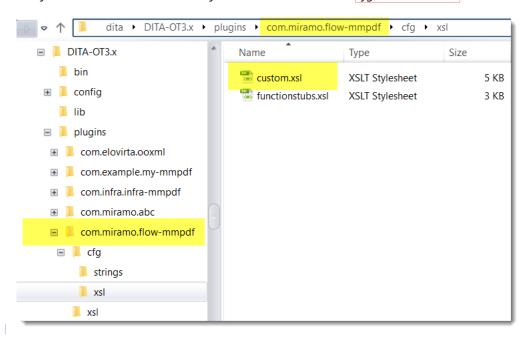


- 5 Create or open any DITA file.
- 1 You can open a DITA file in the following <u>Samples</u> folder: C:\Program Files\Oxygen XML Editor 21\frameworks\dita\DITA-OT3.x\plugins \com.miramo.mmpdf\samples\flowers
- 2 Click the Configure Transformation Scenario button.
- In the Configure Transformation Scenarios dialog, select the MiramoPDF generate new plugin transformation scenario and click Edit.
- 4 Click the **Parameters** tab and change the **plugin-name** and **transtype** parameters, as shown in the example below.
- A transtype is a new transformation type with any new custom parameters that are supported. In this case, the transtype is the MiramoPDF transformation with customizations done in a *custom.xsl* file.

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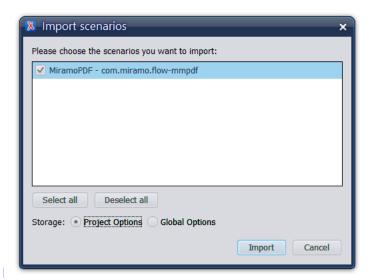
2 Click or and then Apply associated to run the transformation scenario. In your DITA-OT installation folder, you will now find your custom Miramo plugin folder where you can make the necessary customizations in the cfg\xsl\custom.xsl\ file.



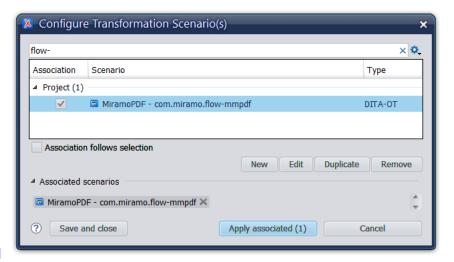
3 Choose Options > Import Transformation Scenarios.

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- 4 Navigate to your newly created, custom MiramoPDF DITA-OT plugin folder.
- For example: C:\Program Files\Oxygen XML Editor 21\frameworks\dita\DITA-OT3.x\plugins\com.miramo.flow-mmpdf
- 5 Select the .scenarios file, for example *com.miramo.flow-mmpdf.scenarios*, and click Open.
- 6 In the Import scenarios dialog, select Project Options and click Import.



7 Click the Configure Transformation Scenario button again.
Your new custom Miramo transformation scenario is now ready for use.



- 8 You can click Apply associated to test your custom transformation scenario.
- 7.1.2 Manually creating a custom MiramoPDF DITA-OT plugin
- 7.1.2.1 Manually creating a new custom plugin

The com.miramo.mmpdf folder includes a sub-folder called com.example.my-mmpdf, and creates a transformation type 'my-mmpdf'. See Manually creating a company specific plu-

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gin on page 35 for information on creating a company specific plugin with a differently named plugin and transformation type.

To create a new custom plugin 'com.example.my-mmpdf', start by copying this folder to the DITA-OT plugins folder so it is at the same level as the original com.miramo.mmpdf folder.

7.1.2.2 Manually creating a company specific plugin

In some cases it may be necessary to create one or more new plugins with a different names, targets, and transformation types.

For example, company ABC Corp might need to create two specializations, com.abc.mmpdfl and com.abc.mmpdf2, which create transformation types mmpdfl and mmpdf2 respectively.

To do this, copy the *plugins/com.miramo.mmpdf/com.example.my-mmpdf* folder to *plugins/com.abc.mmpdf1* and *plugins/com.abc.mmpdf2*.

Then edit the following files in each of the two new folders com.abc.mmpdf1, com.abc.mmpdf2:

- plugin.xml
- conductor.xml
- build.xml

Replace all occurrences of 'com.example.my-mmpdf' with com.abc.mmpdf1 or com.abc.mmpdf2

Replace all occurrences of 'my-mmpdf' with 'mmpdf1' or 'mmpdf2'

Modify xsl/dita2miramo.xsl, cfg/xsl/custom.xsl, cfg/strings/langlist.xml, cfg/strings/*.xml as required

Run the DITA-OT integration process

The ant targets 'dita2mmpdf1' and 'dita2mmpdf2' will now be available, along with the transformation types 'mmpdf1' and 'mmpdf2'.

7.1.2.3 Running the DITA-OT integration tool

Next, install the new com.example.my-mmpdf plugin by running the DITA-OT ant integration tool as enabled by your CMS or authoring tool, or using one of the commands below.

For oXygen, see Running the DITA-OT integrator [oXygen] on page 39.

For standalone DITA-OT installations, use:

```
ant -f integrator.xml
```

or use the dita command:

```
dita-ot-dir/bin/dita --install
```

This will create a new transformation type 'my-mmpdf' which you can use in place of the 'mmpdf' transformation type. It will also add a new ant target 'dita2my-mmpdf'.

The next stage is to modify the files in the *plugins/com.example.my-mmpdf* folder.

7.1.3 com.example.my-mmpdf files and folders

The com.example.my-mmpdf plugin includes the following files and folders:

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<dita-ot-installdir>/plugins/com.example.my-mmpdf

Source for my-mmpdf plugin:

plugin.xml

Configuration file for the com.example.my-mmpdf plugin which creates a new transformation type 'my-mmpdf'.

conductor.xml

Imports local build.xml

build.xml

Contains the dita2my-mmpdf target, applied by the 'my-mmpdf' transformation type.

xsl/dita2miramo.xsl

Top level stylesheet - modify this file to set default values for xslt parameters

cfg/strings/langlist.xml

Language configuration file including a list of files containing localization strings

cfg/strings/*.xml

Miramo specific localization strings, supplied in addition to the standard DITA-OT localization strings (including those in pdf2)

cfg/xsl/custom.xsl

Modify this file to add xsl stylesheet template match modifications; included by xsl/dita2miramo.xsl

cfg/xsl/functionstubs.xsl

Modify this file to add to or override templates and functions with extension points defined in the com.miramo.mmpdf/xsl/utilities.xsl. Included by cfg/xsl/custom.xsl

7.1.4 Setting default parameter values

Modify the <xsl:param> and <xsl:variable> definitions in <u>custom/xsl/dita2miramo.xsl</u> as required. For example, to set all non-inline graphics to be centered rather than start-aligned by default, include this:

```
<!-- Default left/right alignment of images within text column or text frame.
Allowed values: start center end -->
<xsl:variable name="defaultImageAlignment">center</xsl:variable>
```

7.1.5 Modifying the dita2mmpdf default transformation

Edit the 'cfg/xsl/custom.xsl' stylesheet to add <xsl:template>s to achieve the required mapping from DITA elements and attributes to MiramoXML elements and attributes. (See the mmComposer reference guide for a detailed description of the MiramoXML file format).

<xsl:template>s added here may either override or add to the <xsl:template>s defined in the default DITA to MiramoXML stylesheets, map2miramo.xsl and topic2miramo.xsl. Here is a simple example where if the @outputclass value is specified, it is used as the <ParaDef> format name. If the @outputclass value is empty, the default template match is applied using <xsl:apply-imports/>.

```
<xsl:template match="*[contains(@class,' topic/p ')]">
<xsl:choose>
<xsl:when test="string-length(@outputclass) != 0">
<xsl:call-template name="makePara">
```

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```
<xsl:with-param name="paraDefName">
<xsl:value-of select="@outputclass"/>
</xsl:with-param>
</xsl:with-param>
</xsl:call-template>
</xsl:when>
<xsl:otherwise>
<xsl:apply-imports/>
</xsl:otherwise>
</xsl:choose>
</xsl:template>
```

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Chapter 8: Integrating with oXygen

8.1 Installing and integrating the plugin with oXygen

Installing from the setup.exe (recommended)

Double-click on the MiramoDITA-OTplugin<vs>setup.exe and navigate to the DITA-OT install root

For oXygen (version 18 or above), the built-in DITA-OT folder is located in Joxygen install dir]/ frameworks/dita/DITA-OT3.x/plugins/com.miramo.mmpdf, for example:

c:/program files/Oxygen XML Editor 21/frameworks/dita/DITA-OT3.x/plugins/ com.miramo.mmpdf

This corresponds to the oXygen DITA Open Toolkit 'Built-in DITA-OT 3.x' location preference shown here (options->preferences->DITA):



Note that if you choose a different folder you will have to set the dita.dir variable in the MiramoPDF transformation scenarios, or change the oxygen DITA-OT configured install folder in the preferences.

The MiramoDITA-OT plugin source (including samples, command scripts and templates) will be located in the [dita-ot install dir]/plugins/com.miramo.mmpdf folder, for example:

[oxygen_install_dir]/frameworks/dita/DITA-OT3.x/plugins/com.miramo.mmpdf

The MiramoDITA-OTplugin<vs>setup.exe will run the DITA-OT integrator and will append the com.miramo.mmpdf folder to the PATH environment variable.

Installing from the ZIP file (advanced)

Extract the MiramoDITA-OTplugin<vs>.zip file into the DITA-OT plugins folder.

For oXygen, the built-in DITA-OT plugins folder is located in [oxygen_install_dir]/frameworks/ dita/ *DITA-OT3.x/plugins/com.miramo.mmpdf*, for example:

C:\program files\Oxygen XML Editor 21\frameworks\dita\DITA-OT3.x\plugins

Running the DITA-OT integrator [oXygen]

Start your preferred oXygen product, open a DITA file or map in the editor window and run the predefined transformation scenario called Run DITA OT Integrator: execute it from the Document->Transformation- >Apply Transformation Scenario(s) dialog box. If the integrator is not visible, select the Show all scenarios option that is available in the Settings drop-down menu.



8.1.4 Files and folders

See Files and folders on page 3 for a list of files and folders which are installed in the *plugins\com.miramo.mmpdf* folder.

8.2 Configuring oXygen

8.2.1 Import MiramoPDF transformation scenarios [oXygen]

Once the com.miramo.mmpdf folder is installed in the DITA-OT plugins folder, set up the MiramoPDF transformation scenario: Choose options->import transformation scenarios, then navigate to the MiramoPDF.scenarios file located in the com.miramo.mmpdf/integration/oxygen subfolder (by default,[oxygen_install_dir]/frameworks/dita/DITA-OT3.x/plugins/com.miramo.mmpdf/integration/oxygen).

This creates the MiramoPDF and MiramoPDF dev (with PDF tooltips) transformation scenarios, which are set up to produce a PDF from the currently edited DITA file, and which can be applied and modified as required. See Ant build parameters on page 10 for more information.

8.2.2 Make oXygen's content completion present the @outputclass values

To configure oXygen's content completion, it is necessary to copy and paste the match elements contained in the cc_config_miramo.xml file supplied to the DITA framework you are using.

The cc_config_miramo.xml file is located here:

[oxygen_install_dir]/frameworks/dita/DITA-OT3.x/plugins/com.miramo.mmpdf/integration/oxy-gen/cc_config_miramo.xml

and contains entries like this:

Inside your DITA framework there is a configuration file named cc_config.xml. If you are using the built-in DITA framework then this file is located at [OXYGEN_INSTALL_DIR]/ frameworks/dita/resources/cc_config.xml.

If you don't know exactly what framework you are using or where it is located then you can find out like this:

- 1 Go to Window > Show view and open the Properties view.
- 2 Open a DITA topic.
- 3 Look inside the Properties view at the Document type name. Now you know the name of your framework.
- 4 Go to Options > Preferences...
- 5 On the Document Type Associations page, identify and edit the framework with the

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previously discovered name. The Storage field will reveal its location.

8.3 Integrating with oXygen

The <match> entries for allowing content completion for the MiramoPDF @output-class values are located in the <code>[oxygen_install_dir]/frameworks/dita/DITA-OT3.x/plugins/com.miramo.mmpdf/integration/oxygen/cc_config_miramo.xml</code> file.

Open it and copy and paste the entries inside the <config> root element in your DITA framework cc_config.xml file.

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Chapter 9: Installing and integrating the plugin with XMetaL

This section covers integration with XMetaL Author Enterprise 12 and above.

9.1 Installing from the setup.exe

Double-click on the MiramoDITA-OTplugin<vs>setup.exe and navigate to the DITA-OT install root folder.

For XMetaL Author Enterprise (version 12 or above), the built-in DITA-OT folder is located in the Windows program data directory for XMetaL for example:

C:\ProgramData\SoftQuad\XMetaL\Shared\DITA_OT2.4\

The MiramoDITA-OT plugin source (including samples, command scripts and templates) will be located in:

C:\ProgramData\SoftQuad\XMetaL\Shared\DITA_OT2.4\plugins\com.miramo.mmpdf

The MiramoDITA-OTplugin<vs>setup.exe will run the DITA-OT integrator and will append the com.miramo.mmpdf folder to the PATH environment variable.

9.2 Files and folders

See Files and folders on page 3 for a list of files and folders which are installed in the *plugins com.miramo.mmpdf* folder.



Chapter 10: Configuring XMetaL

10.1 Create MiramoPDF 'deliverable types' in XMetaL

Once the com.miramo.mmpdf folder is installed in the DITA-OT plugins folder the next step is to set up two MiramoPDF deliverable types so they are available when the user selects Generate Output.

- 1 Copy the two configuration files: print miramo pdf.xml and print miramo pd- f dev.xml from:
 - 1 C:\ProgramData\SoftQuad\XMetaL\Shared\DITA_OT2.4\plugins\com.miramo.mmpd\integration | xmetal

to:

C:\Program Files\XMetaL 12.0\Author\DITA\XACs\shared\renditions

- 2 Start XMetaL.
- 3 In Tools > Configure output, click on Add.



The Add Deliverable Type dialog appears.

4 From the list, select MiramoPDF.



- 5 Click Continue (button)
- In the Name field enter 'MiramoPDF' as the name you would like to appear in the list of deliverable types in XMetaL's "Generate Output for DITA Map" dialog and click Ok.

In the Name field enter 'MiramoPDF' as the name you would like to appear in the list of deliverable types in XMetaL's "Generate Output for DITA Map" dialog and click OK.



7 Switch to the Advanced tab. In the Configure output options text box, add this line:

```
run plugin integrator = yes
```

8 Repeat steps 3 to 7: Except in step 4 select 'MiramoPDF_Dev' and in step 6 enter 'MiramoPDF Development' in the Name field.

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Chapter 11: To test the integration

- 1 Open a DITA map in XMetaL.
- 2 Select File > Generate Output for DITA Map ...
- 3 Select 'MiramoPDF'.