Using XML Documentation Add-on for Adobe Experience Manager 6.3
Contents

About XML Documentation Add-on for Adobe Experience Manager ........................................... 1
Benefits at a glance .......................................................................................................................... 1
How XML Add-on works ................................................................................................................ 2
Key XML Add-on features ............................................................................................................ 2
Download and install ..................................................................................................................... 5
Technical requirements .................................................................................................................. 5
Download and install XML Add-on for the first time ................................................................. 5
Upgrade XML Add-on ..................................................................................................................... 7
Configure and customize .............................................................................................................. 8
Configure XML Add-on parameters ............................................................................................ 8
Configure FrameMaker Publishing Server .................................................................................... 9
Configure custom DITA topic template ....................................................................................... 9
Configure custom DITA map template ......................................................................................... 10
Use custom DITA-OT plug-ins ....................................................................................................... 11
Integrate DITA specialization ........................................................................................................ 15
Customize email templates ........................................................................................................... 16
Element mapping .......................................................................................................................... 17
  elementmapping.xml structure ................................................................................................. 17
  DITA element schema ................................................................................................................. 19
Configure blended publishing within an existing AEM Site ....................................................... 21
Manage attribute profiles ............................................................................................................. 23
Customize web editor functionality .............................................................................................. 25
Customize web editor’s user interface .......................................................................................... 28
Configure file auto-checkout for web editor ............................................................................... 29
Enable file editing in FrameMaker from web editor ................................................................. 29
Convert to DITA ............................................................................................................................. 29
**Configure Word to DITA conversion** .................................................. 29
**Configure XHTML to DITA conversion** ........................................... 31
**Generic XSL transformation** .......................................................... 32
**Customize review workflow** ............................................................ 33
**Customize post-output generation workflow** .................................... 35
**Handle image rendition during output generation** ............................... 36
**Change the recently generated outputs list limit** ................................. 37
**Configure default output presets** ..................................................... 37
**Configure output generation process pool size** .................................... 38
**Configure Post Processing XML workflow launcher** .............................. 38

**Manage DITA content** ................................................................. 40
**Basic AEM concepts** ...................................................................... 40
**Content management fundamentals** ................................................. 40
**Create a DITA project** .................................................................... 41
  **Add assets to a DITA project** ....................................................... 43
  **Roles in a DITA project** ............................................................... 43
**Author DITA content** ..................................................................... 46
**Use XML Add-on web editor** .......................................................... 46
  **Create topic** ................................................................................. 46
  **Preview topic** .............................................................................. 47
  **Edit topic** .................................................................................. 50
  **Know the web editor toolbar** ...................................................... 50
  **Keyboard shortcuts in the web editor** .......................................... 60
  **Other useful features of the web editor** .................................... 61
  **XML Add-on editor views** .......................................................... 61
**Use map editor** ............................................................................. 63
  **Work with relationship tables** ..................................................... 67
  **Resolve key references** ............................................................... 69
  **Edit topics through DITA map** .................................................. 70
  **Work with subjectScheme** .......................................................... 72
**Document state** ............................................................................ 73
  **Types of document states** .......................................................... 73
**Use FrameMaker as an offline client** ............................................... 74
**Bulk tagging of DITA content** ........................................................ 74
  **Apply bulk tags** ........................................................................ 75
  **Apply tags on an individual topic** .............................................. 76
  **Remove tags** ............................................................................ 76
  **Show or hide tags** ..................................................................... 76
**Upload existing files** ..................................................................... 76
  **Use FrameMaker for bulk upload** ............................................. 77
  **Use WebDAV for bulk upload** .................................................... 77

**Review topics** ............................................................................... 78
**Send topics for review** .................................................................. 78
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create a review task</td>
<td>78</td>
</tr>
<tr>
<td>Send topics for review from a DITA map</td>
<td>79</td>
</tr>
<tr>
<td>Review topics</td>
<td>81</td>
</tr>
<tr>
<td>Address review comments</td>
<td>85</td>
</tr>
<tr>
<td>Manage Reviews</td>
<td>89</td>
</tr>
<tr>
<td><strong>Translate content</strong></td>
<td>91</td>
</tr>
<tr>
<td>Best practices for first time content translation</td>
<td>91</td>
</tr>
<tr>
<td>Create a new translation project</td>
<td>92</td>
</tr>
<tr>
<td>Start the translation job</td>
<td>92</td>
</tr>
<tr>
<td>View translation status</td>
<td>93</td>
</tr>
<tr>
<td>Translate modified topics</td>
<td>94</td>
</tr>
<tr>
<td><strong>Output generation</strong></td>
<td>97</td>
</tr>
<tr>
<td>Generate output</td>
<td>97</td>
</tr>
<tr>
<td>Understanding the output presets</td>
<td>97</td>
</tr>
<tr>
<td>AEM Site</td>
<td>98</td>
</tr>
<tr>
<td>PDF</td>
<td>100</td>
</tr>
<tr>
<td>HTML5</td>
<td>101</td>
</tr>
<tr>
<td>EPUB</td>
<td>103</td>
</tr>
<tr>
<td>Custom</td>
<td>104</td>
</tr>
<tr>
<td>Create, edit, duplicate, or remove an output preset</td>
<td>105</td>
</tr>
<tr>
<td>Use Baseline for publishing workflow</td>
<td>106</td>
</tr>
<tr>
<td>View contents of a Baseline</td>
<td>107</td>
</tr>
<tr>
<td>Edit, duplicate, or remove Baselines</td>
<td>107</td>
</tr>
<tr>
<td>Generate output for a DITA map</td>
<td>108</td>
</tr>
<tr>
<td>Incremental output generation</td>
<td>108</td>
</tr>
<tr>
<td>View the status of the output generation task</td>
<td>109</td>
</tr>
<tr>
<td>Basic troubleshooting</td>
<td>110</td>
</tr>
<tr>
<td>Use Map Collection for output generation</td>
<td>112</td>
</tr>
<tr>
<td>Create a Map Collection</td>
<td>112</td>
</tr>
<tr>
<td>Configure map collection for output generation</td>
<td>113</td>
</tr>
<tr>
<td>Customize output</td>
<td>114</td>
</tr>
<tr>
<td>Customize XML Add-on design template for generating output</td>
<td>114</td>
</tr>
<tr>
<td>Use custom DITA-OT plug-ins</td>
<td>116</td>
</tr>
<tr>
<td><strong>Generate output for FrameMaker documents</strong></td>
<td>117</td>
</tr>
<tr>
<td>Generate output</td>
<td>117</td>
</tr>
<tr>
<td>Understanding the output presets</td>
<td>117</td>
</tr>
<tr>
<td>PDF</td>
<td>117</td>
</tr>
<tr>
<td>HTML5</td>
<td>119</td>
</tr>
<tr>
<td>EPUB</td>
<td>119</td>
</tr>
<tr>
<td>DITA</td>
<td>120</td>
</tr>
<tr>
<td>Generate output for FrameMaker documents</td>
<td>122</td>
</tr>
<tr>
<td>View the status of the output generation task</td>
<td>123</td>
</tr>
</tbody>
</table>
# Reports

<table>
<thead>
<tr>
<th>Report</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DITA Map Report</td>
<td>125</td>
</tr>
<tr>
<td>Content Reuse Report</td>
<td>127</td>
</tr>
<tr>
<td>Conversion Status Report</td>
<td>129</td>
</tr>
</tbody>
</table>
About XML Documentation Add-on for Adobe Experience Manager

XML Documentation Add-on for Adobe Experience Manager (referred to as XML Add-on later in this guide) is a powerful, enterprise-grade component content management solution (CCMS). It enables native DITA support in Adobe Experience Manager, empowering AEM to handle DITA-based content creation and delivery. It empowers authors to create content using any offline DITA authoring tool, such as Adobe FrameMaker or an easy-to-use built-in web editor.

XML Add-on provides all core CCMS functions, such as collaboration, review, approval, translation, search, and reports for DITA content, enabling authors to do more in less time through efficient content reuse and powerful workflows. Moreover, users can leverage its best-in-class, single-click publishing capability to generate DITA-based output for the most popular formats - Experience Manager Sites, PDF, HTML5, EPUB, and custom output through DITA-OT.

With XML Add-on, enterprises can deliver seamless and personalized experiences to end users and ensure consistency and uniformity in pre- and post-sales content. Complete control over content integrity can be achieved easily. What's more, localization time and costs also reduce significantly.

Benefits at a glance

- Uniform pre- and post-purchase content experience for end users
- One-touch publishing experience to Experience Manager Sites, PDF, HTML5, EPUB, and custom output through DITA-OT
- Familiarity with existing Adobe tools/systems and opportunity to consolidate with one partner
- Single CMS for managing marketing and technical content end-to-end
- Faster go-to-market with efficient content reuse
- Powerful review, collaboration, and translation workflows
- Reduced localization time and costs
- Reduced maintenance overheads
How XML Add-on works

The following diagram illustrates how XML Add-on works with AEM and any DITA editor to enable content management, reuse, translation, review, and approval in an enterprise scenario.

Key XML Add-on features

**Powerful DITA authoring and content management**

Significantly improve authoring productivity through single-sourcing of modular information optimized for effective reuse at a granular level (modules, components, words, graphics, multimedia, and translations).

The built-in web-based editor or any offline DITA editor, such as Adobe FrameMaker helps you easily author and effectively manage DITA topics, maps, and DITAVAL files. The built-in editor has a simple and intuitive word-processing interface, which provides easy entry for subject matter experts, casual contributors, and reviewers who might not be trained to use DITA. With the intelligent Insert Element functionality, you don’t have to worry about placing an element at correct location. An element is always inserted at the next available valid location.

You can also check-out and check-in files from the new options made available in AEM toolbar and web editor. The seamless interoperability between the web editor and FrameMaker makes it easier for you to check-out file through the web editor and check-in through FrameMaker.
If your organization uses specialized form of DITA, the web editor can be customized to create and edit specialized DITA documents. For more details about using DITA specialization, see *Integrate DITA specialization*.

Currently, the built-in editor supports the following DITA standards:

- DITA 1.2
- DITA 1.3
- Lightweight DITA

**NOTE:** Lightweight DITA is still under the proposal state, and has not yet become a DITA standard.

**Next-gen collaboration through web-based review and approval**

Ensure that multi-author, multi-reviewer distributed teams collaborate smoothly through powerful review and approval workflows, minimizing the scope of manual errors in the process.

XML Add-on provides powerful yet easy-to-use web-based review and approval capabilities. You can send multiple DITA topics for review simultaneously. The review capability helps ensure that the document content is reviewed efficiently. Authors and reviewers can effortlessly collaborate on changes during ongoing reviews. Reviewers can monitor the differences from previous versions to identify if feedback has been incorporated correctly. Administrators can track the review and approval task history using the feature-rich management dashboard.

Every document in your DAM now gets a document status. This document status helps you identify what state in the documentation process the document is. A document can have any one of the three states - Draft, In-Review, or Reviewed.

**Industry-leading translation management and localization support**

Get significant savings on translation time and costs, and ensure that published content is free of translation errors.

Adobe Experience Manager comes with built-in connectors for leading translation providers. Leverage these connectors to manage locale-specific content. Make full use of the detailed out-of-the-box translation reports to identify untranslated content before publishing and take appropriate corrective actions. You can manage the status of translated content with respect to master language updates to carry out translation only for the updated DITA files. Time-consuming, manual identification of files to send for translation is not required.

**Best-in-class multichannel publishing of DITA content**

Streamline enterprise content publishing with a seamless, one-touch approach that accelerates time to market.

With the native DITA support added to Experience Manager, generate output for Experience Manager Sites, PDF, HTML5, EPUBS, or custom output through DITA-OT. You can leverage the fully configurable output to deliver highly personalized, relevant, and immersive content experiences for end users. You can also easily perform batch generation or use Baseline to publish a specific version of your documentation.
Comprehensive search and content usage data

Find and select relevant content faster, maximizing the ROI on content with every reuse. Perform basic and advanced searches using content attributes and topic metadata across the entire repository through a simple interface inside the DITA authoring tool. Results are tagged with content usage data to help you easily identify and select the right content for optimal reuse.

In-depth publishing readiness reports

Make publishing error-free by easily checking and correcting content before it goes live. Keep a close watch on system health by easily accessing various reports at the DITA map level. You can check the number of missing topics, broken links or references, and the status of reviews, approvals, and translations for all topics. You can also use the reports to perform comprehensive sanity checks in the final stages before publishing.

Extensive tag management support for personalized output

Drive deeper end user engagement and content adoption through highly relevant content experiences. With XML Add-on, you can leverage the extensive tag management support in Experience Manager to apply relevant tags on DITA source content. Use these tags to provide highly personalized content experiences to end users.

Native integration with Adobe FrameMaker

Enjoy a fast and seamless experience while working with Experience Manager and FrameMaker (2015 release) Update 4 or later.

The tight integration of Experience Manager and FrameMaker through a built-in connector helps you work seamlessly with the Experience Manager content repository. Leverage the connector to quickly get started with authoring, reviewing, and searching DITA content.

Using the AEM connector in FrameMaker, you can manage your FrameMaker files. The AEM connector allows you to easily upload your DITA and other FrameMaker documents (.book and .fm) on AEM. The XML Add-on also allows you to publish FrameMaker documents directly from AEM. In case your FrameMaker book file contains a combination of DITA and .fm files, the XML Add-on can publish such documents as well. Currently, you can publish FrameMaker's .book and .fm files into PDF, HTML5, and EPUB formats.
Download and install

The XML Add-on is made available through Adobe Licensing Website (LWS). You can download the XML Add-on from your LWS account and install it on all Adobe Experience Manager (AEM) instances in your setup. Typically, your authoring instance and production instance of AEM will be hosted on different servers. You will have to install the XML Add-on on all instances of AEM that you intend to use.

Before you begin the download and installation process, you must ensure that your system meets the technical requirements to install the XML Add-on.

Technical requirements

Ensure that your system meets the following requirements before installing the XML Add-on:

Adobe Experience Manager
Version 6.3, 6.2, and 6.1 SP1

Operating systems
- Microsoft Windows Server 2012 R2
- Red Hat Linux 7 and 6
- Ubuntu

Java Development Kit
- Oracle SE 8 JRE 1.8.x
- Oracle SE 7 JRE 1.7.x

Web browser
- Google Chrome (recommended)
- Firefox
- Safari 9

Download and install XML Add-on for the first time

Perform the following steps to download and install the XML Add-on:

NOTE: You will have to perform this procedure on all instances of the AEM server in your setup.

1) Download the XML Add-on from your LWS account.
2) Log into your AEM instance and navigate to the CRX Package Manager. The default URL to access the package manager is:
http://<server name>:<port>/crx/packmgr/index.jsp
**DOWNLOAD AND INSTALL XML ADD-ON FOR THE FIRST TIME**

**CHAPTER 2 DOWNLOAD AND INSTALL**

The Package Manager manages the packages on your local CQ installation. For more information about working with the Package Manager, see How to Work With Packages in AEM documentation.

3) To upload the XML Add-on, click Upload Package.

4) In the Upload Package dialog, navigate to the XML Add-on file that you downloaded in Step 1 and click OK.

   The package is uploaded to your AEM instance.

5) To install the package, click Install.

6) In the Install Package dialog, click Install.

7) To get started with the XML Add-on, click the Home button in the upper-left corner of the CRX Package Manager.
After installing the XML Add-on, you can make changes to its configuration to meet your business requirements. For details about configuring and customizing the XML Add-on, see *Configure and customize*.

**Upgrade XML Add-on**

If you are using XML Add-on version 2.2, then you can easily upgrade to the latest version of XML Add-on. With the upgrade feature, you don’t have to uninstall the previous version XML Add-on. The procedure to upgrade your XML Add-on is similar to the fresh install. You need to download the XML Add-on package, upload it on AEM, and install it to upgrade your older instance of XML Add-on.
Configure and customize

After you have downloaded and installed the XML Add-on on your AEM instance, you can configure and customize the following:

- FrameMaker Publishing Server to generate output using FMPS
- DITA-OT to use custom DITA-OT plug-ins
- Configure custom DITA topic templates to use with the web editor
- DITA specialization to use your own markup design while maintaining the DITA rules and processes
- Email templates to personalize the email notifications sent to your users
- Element mapping to define mappings between DITA elements and AEM components
- Configure properties to support publishing DITA content within an existing AEM Site
- Change the number of results to display in the recently generated outputs list
- Customize the web editor to expose only the required features or add new features
- Add custom topic and map templates
- Configure default file checkout property in web editor

Just like any other package on AEM, the configurations for XML Add-on are also accessed and updated through the AEM configuration manager. The following section walks you through the process of accessing configurable properties of the XML Add-on in AEM.

Configure XML Add-on parameters

The configuration settings and customization of the XML Add-on are managed via the `com.adobe.fmdita.config.ConfigManager` bundle. You can access the configurable properties of the XML Add-on through the AEM Web Console Configuration page.

Perform the following steps to access configurable properties for the XML Add-on:

1) Open the Adobe Experience Manager Web Console Configuration page.
   
   *The default URL to access the configuration page is:*  
   
   `http://<server name>:<port>/system/console/configMgr`

2) Search for and click on the `com.adobe.fmdita.config.ConfigManager` bundle.

3) Update the required properties as described in the following sections of this document.

4) Click Save.
Configure FrameMaker Publishing Server

You can use FrameMaker Publishing Server (FMPS) to generate output for your DITA content. Configuring FMPS will allow you to generate output in multiple formats supported by FMPS.

**NOTE:** To generate output using FMPS, you need to have the FMPS server setup. For installation and configuration details, see the FrameMaker Publishing Server User Guide.

To configure your XML Add-on to use FMPS, update the following properties of the `com.adobe.fmdita.config.ConfigManager` bundle in the Web Console.

**NOTE:** To access the Web Console, see *Configure XML Add-on parameters*.

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FrameMaker Publishing Server Login Domain</td>
<td>Specify the domain name or the workgroup name on which the FrameMaker Publishing Server is hosted.</td>
</tr>
<tr>
<td>FrameMaker Publishing Server Username and Password</td>
<td>Specify the user name and password to access the FrameMaker Publishing Server.</td>
</tr>
<tr>
<td>FMPS Timeout</td>
<td><em>(Optional)</em> Specify the time (in seconds) for which the XML Add-on waits for a response from the FrameMaker Publishing Server. If no response if received in the specified time, XML Add-on terminates the publishing task and the task is flagged as failed. Default value: 300 seconds (5 minutes)</td>
</tr>
<tr>
<td>External AEM URL</td>
<td><em>(Optional)</em> The AEM URL where the FrameMaker Publishing Server will place the generated output files. For example, http://&lt;server-name&gt;:4502.</td>
</tr>
<tr>
<td>AEM Admin Username and Password</td>
<td><em>(Optional)</em> The user name and password for an administrator of your AEM setup. This will be used by FrameMaker Publishing Server to communicate with AEM.</td>
</tr>
</tbody>
</table>

**Configure custom DITA topic template**

The XML Add-on comes with four out-of-the-box DITA topic templates, which are:

- Topic
- Task
- Concept
- Reference
You can create topics based on these templates through the web editor. Or, you can define your own topic templates that can then be used to create new topics from the web editor.

Perform the following steps to add your custom topic templates:
1) Log into AEM and open the CRXDE Lite mode.
2) Navigate to the following location:
   /libs/fmdita/xmleditor/templates
   XML Add-on stores the default templates in the above location.
3) Create an overlay node of the templates folder within the apps node.
4) You can add your template files in the apps node. For example, the location of the templates folder in apps node will be:
   /apps/fmdita/xmleditor/templates
5) Add the following properties in your topic template file:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jcr:description</td>
<td>A description for your topic template file. This description appears below the template title.</td>
</tr>
<tr>
<td>jcr:title</td>
<td>A title for your topic template file.</td>
</tr>
<tr>
<td>ranking</td>
<td>A number specifying the template ranking on the blueprint page. Lower the number, higher is the ranking of the template. For example, the ranking of reference type document is 400 and topic type document is 100; with this ranking the topic file is listed before the reference file.</td>
</tr>
</tbody>
</table>

Next time you create a new topic, your template shows up in the Blueprint page. For more information about creating a DITA topic, see Create topic.

**NOTE:** You can also copy and paste any existing template node and replace the XML content of that template with your custom content. XML content of every template is located in the "jcr:content/renditions/original" node under the template node. The content can be directly edited as text in the CRXDE Lite mode.

**Configure custom DITA map template**

The XML Add-on comes with two out-of-the-box map templates - DITA map and Bookmap.

You can create maps based on these templates through the map editor. Or, you can define your own map templates that can then be used to create new map from the map editor.

Perform the following steps to add your custom map templates:
1) Log into AEM and open the CRXDE Lite mode.
2) Navigate to the following location:
   /libs/fmdita/ditamapeditor/core/templates
XML Add-on stores the default map templates in the above location.

3) Create an overlay node of the templates folder within the `apps` node.

4) You can add your template files in the `apps` node. For example, the location of the templates folder in `apps` node will be:

   `/apps/fmdita/ditamapeditor/core/templates`

5) Add the following properties in your map template file:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>jcr:description</code></td>
<td>A description for your map template file. This description appears below the template title.</td>
</tr>
<tr>
<td><code>jcr:title</code></td>
<td>A title for your map template file.</td>
</tr>
<tr>
<td><code>ranking</code></td>
<td>A number specifying the template ranking on the blueprint page. Lower the number, higher is the ranking of the template. For example, the ranking of bookmap file is 400 and map file is 300; with this ranking the map file is listed before the bookmap file.</td>
</tr>
</tbody>
</table>

Next time you create a new map, your template shows up in the Blueprint page. For more information about creating a DITA map, see *Use map editor*.

**Use custom DITA-OT plug-ins**

The DITA Open Toolkit (DITA-OT) is a set of Java-based, open source tools that provide processing for DITA maps and topic content. XML Add-on allows you to easily import and use custom DITA-OT plug-ins. Once imported, XML Add-on can be configured to use the custom DITA-OT plug-in to generate output in any format. At the time of generating the output, simply select the DITA-OT option, and the XML Add-on uses the custom DITA-OT plug-in to generate the required output.

**NOTE:** XML Add-on is shipped with DITA-OT version 2.5.2. However, XML Add-on supports DITA-OT version 1.7 and above. For a complete list of DITA-OT versions, see *DITA-OT versions*.

There are two ways to use custom DITA-OT plug-in for publishing. First method is to upload the custom DITA-OT plug-in into AEM repository. The other method is to save the custom DITA-OT plug-in on your local disk, create a Profile and provide the location of the custom DITA-OT plug-in in your Profile.

By default, XML Add-on comes with a pre-configured Profile that contains the configurations for the default templates to use for editing and publishing content. You can create custom profiles with custom templates to be used while editing documents and custom DITA-OT plug-ins to publish content.

Perform the following steps to upload custom DITA-OT plug-in into AEM repository:

1) Log into AEM and open the CRXDE Lite mode.

2) Download the `DITA-OT.ZIP` file.
The location of the DITA-OT.ZIP file is /etc/fmdita/dita_resources/DITA-OT.zip.

3) Extract the contents of the zip file on your local system.
4) Use the DITA-OT plug-in integrator mechanism to integrate your custom DITA-OT plug-in.
5) Create the ZIP file again keeping the same name (DITA-OT.ZIP) and the folder structure.
6) Upload the updated ZIP file back into the AEM repository.

NOTE: It is recommended not to overwrite the default DITA-OT package. You should upload your custom DITA-OT package containing your plug-in at some other location under the “apps” folder.

Perform the following steps to create a new profile and configure it to use custom DITA-OT plug-in stored on your local disk:

1) Store the custom DITA-OT plug-in on your local system.
   NOTE: The folder structure for storing the custom DITA-OT plug-in should be: \
\<parent-folder>\DITA-OT.
2) Click on the Adobe Experience Manager link at the top and choose Tools.
3) Select XML Documentation from the list of tools.
4) Click on the Profiles tile.
   NOTE: The Default Profile information is displayed in the Profiles page.
5) You can choose to create a new profile or you can duplicate settings from the default profile to create a new profile.
   NOTE: You cannot edit or delete the Default Profile settings. However, all new profiles that you create can be edited and deleted.
6) Configure the following properties to use the custom DITA-OT plug-in:
## Property name | Description
--- | ---
### Profile Properties
| Profile Name | Provide a unique name for this profile. |
| **Reuse Output** | *(Optional)* If your profile is based on an existing profile, then select this option. Selecting this option ensures that XML Add-on does not extract the contents of DITA-OT package again and reuses the existing DITA-OT package. |
| **Profile Extract Path** | *(Optional)* Specify the path where DITA-OT is kept on disk. By default, XML Add-on bundles a DITA-OT package in its repository and it is extracted on the disk at this path. **NOTE:** You can define this path using any existing system variable or property. See description the DITA-OT Environment Variables property for more information. |
| **Assigned Path** | *(Optional)* Specify the path in your content repository for which this profile is applicable. You can specify multiple locations. |
### DITA-OT Properties
| **DITA-OT Timeout** | *(Optional)* Specify the time (in seconds) for which the XML Add-on waits for a response from the DITA-OT plug-in. If no response if received in the specified time, XML Add-on terminates the publishing task and the task is flagged as failed. Also, the failure logs are made available in the output generation log file. For more information about the output generation log file, see Access and parse the output generation log file. Default value: 300 seconds (5 minutes) |
| **DITA-OT PDF Arguments** | *(Optional)* Specify the custom command-line arguments that are processed by the custom DITA-OT plug-in for generating the PDF output. |
| **DITA-OT AEM Site Arguments** | *(Optional)* Specify the custom command-line arguments that are processed by the custom DITA-OT plug-in for generating the AEM Site output. |
| **DITA-OT Build XML** | *(Optional)* Specify the path of the custom Ant build script bundled with the customized DITA-OT plug-in. This path is relative to the DITA-OT directory on your file system. |
| **DITA-OT Ant Script Folder** | *(Optional)* Specify the path of the DITA-OT Ant script folder. This path is relative to the DITA-OT directory on your file system. |
**DITA-OT Environment Variables**

*Optional* Specify environment variables to pass on to the DITA-OT process. By default, the XML Add-on adds four variables - ANT_OPTS, ANT_HOME, PATH, and CLASSPATH.

You can reuse any of the existing system environment variables or properties for building new environment variables. For example, if you have JAVA_HOME system variable defined in your system and you want to define a new environment variable called JAVA_BIN that is built using JAVA_HOME. Then, you can add the definition of JAVA_BIN as:

```
JAVA_BIN= ${JAVA_HOME}/bin
```

**NOTE:** You can also use Java system properties to build environment variables. For example, if AEM start script defines a Java system property java.io.tmpdir to a temporary directory, you can use this property to define new variable as:

```
${java.io.tmpdir}/fmdita/dita_ot
```

**IMPORTANT:** To reuse any existing system variable or property, it must be enclosed within `{}.

**Overwrite DITA-OT Output**

*Optional* If this option is selected, then the DITA-OT package from the AEM repository will replace the one on the disk. This is done on the activation of the ConfigManager.

If you want to specify the path of DITA-OT package that is available on your local system, then deselect this option.

**AEM DITA-OT Zip Path**

Specify the complete path where the custom DITA-OT.zip file is stored in the AEM repository.

**DITA-OT Plug-in Path**

Path of the custom plug-in. This plug-in is integrated automatically with the main DITA-OT package.

**Integrate Catalogs**

*Optional* Path of the custom DTD and XSD catalog.xml files in the AEM repository. This should be provided only when the catalogs are missing from the DITA-OT package. These catalogs are automatically integrated with the main DITA-OT as a plug-in.

**Add System ID Catalog**

*Optional* Select this option only if there are missing Public ID entries in the catalog or if the DITA files use only the System IDs that are relative to the local file path from where they are uploaded.
NOTE: The XML Add-on installer creates two environment variables that you can use to specify the path of the custom DITA-OT plug-in files. These environment variables are: DITAOT_DIR, which contains the path of the DITA-OT directory on the file system; and DITAMAP_DIR, which contains the path where the DITA map content is extracted on the file system.

7) Click Done to save the profile.

Integrate DITA specialization

DITA specialization is the process of creating new designs based on existing designs. A specialization can reuse elements from higher-level designs. You can specialize DITA to create customized information models that meet your business requirements while retaining the benefits of the existing DITA architecture.

You can use the Profile feature to store custom DITA specialization settings. These settings can then be used at the time of authoring and publishing custom DITA content. XML Add-on allows you to use Public ID and System ID in your custom DTDs/XSDs. Note that the XML Add-on web editor does not have support for XSDs.

NOTE: For more details about customizing DITA using FrameMaker, see DITA Specialization in Adobe FrameMaker.

Perform the following steps to create a new profile and configure it to use specialized DTDs and XSDs in your XML Add-on:

1) Create a specialization folder on your local machine that contains the specialized DTDs and XSDs.
2) Specify the DTD details in the catalog.xml file that must also be included in the specialization folder.
   NOTE: In case of DITA 1.3, the default location for DTD catalog.xml file in the AEM repository is: /etc/fmdita/dita_resources/DITA-1.3/dtd/catalog.xml.
3) Specify the XSD details in the catalog.xml file that must also be included in the specialization folder.
   NOTE: In case of DITA 1.3, the default location for XSD catalog.xml file in the AEM repository is: /etc/fmdita/dita_resources/DITA-1.3/xsd/catalog.xml.
4) Upload the folder to the following location:
   /etc/fmdita/dita_resources
5) Click on the Adobe Experience Manager link at the top and choose Tools.
6) Select XML Documentation from the list of tools.

7) Click on the Profiles tile.
   
   **NOTE:** The Default Profile information is displayed in the Profiles page.

8) You can choose to create a new profile or you can duplicate settings from the default profile to create a new profile.
   
   **NOTE:** You cannot edit or delete the Default Profile settings. However, all new profiles that you create can be edited and deleted.

9) In the Schema > Catalog settings, specify the path of the custom DTD and XSD catalog.xml files available in your AEM repository.

10) Select the Add System ID Catalog option.
    
    **NOTE:** Select this option only if there are missing Public ID entries in the catalog or if the DITA files use only the System IDs that are relative to the local file path from where they are uploaded.

   *For more information about other properties on the Profiles page, see the properties table in Step 6 of the Use custom DITA-OT plug-ins section.*

11) Click Done to save the profile.

---

**Customize email templates**

A number of the XML Add-on workflows make use of email notifications. For example, if you initiate a review task, an email notification is sent to the reviewers. However, to ensure that the email notification is sent, you have to enable this functionality in AEM. To enable email notification in AEM, see the article Configuring Email Notification in AEM documentation.

The XML Add-on contains a set of email templates that you can customize. Perform the following steps to customize these templates:

1) Log into AEM and open the CRXDE Lite mode.

2) In the Navigator tab, go to the following location:

   `/lib/fmdita/mail`

3) The mail folder contains the following customizable templates:

<table>
<thead>
<tr>
<th>Template Filename</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>closeapproval.html</td>
<td>This email template is used when an approval task is closed.</td>
</tr>
<tr>
<td>closereview.html</td>
<td>This email template is used when a review task is closed.</td>
</tr>
<tr>
<td>createapproval.html</td>
<td>This email template is used when a new approval task is created.</td>
</tr>
<tr>
<td>createreview.html</td>
<td>This email template is used when a new review task is created.</td>
</tr>
<tr>
<td>reviewapproval.css</td>
<td>This CSS file contains the styling of email templates.</td>
</tr>
<tr>
<td>topicapproval.html</td>
<td>This email template is used when the approval/rejection status of a topic is updated.</td>
</tr>
</tbody>
</table>
Element mapping

DITA elements in the XML Add-on are mapped to their corresponding AEM components. The XML Add-on uses this mapping in workflows such as publishing, review, and approval to convert DITA element to a corresponding AEM component. The mapping is defined in the `elementmapping.xml` file, which can be accessed from the CRXDE Lite mode. Access the following URL in the CRXDE Lite mode:

`/lib/fmdita/config/elementmapping.xml`

You may use the predefined DITA element mappings, or you can map DITA elements to your custom AEM components. To use your custom AEM components, you need to understand the structure of the `elementmapping.xml` file.

**elementmapping.xml structure**

A high-level overview of the `elementmapping.xml` structure is explained below:

1) Every DITA element is first searched for a corresponding component mapping based on the element name. For example:

```xml
<ditaelement>
  <name>substeps</name>
  <class>- topic/ol task/substeps</class>
  <componentpath>dita/components/ditaolist</componentpath>
  <type>COMPOSITE</type>
  <target>para</target>
</ditaelement>
```

*In the above example, all substeps DITA elements are rendered using the dita/components/ditaolist component.*

2) If a DITA element does not find a match based on the name, then a match on the basis of the class is done. For example:

```xml
<ditaelement>
  <name>topic</name>
  <class>- topic/topic</class>
  <componentpath>fmdita/components/dita/topic</componentpath>
  <type>COMPOSITE</type>
  <target>para</target>
  <attributemap>
    <attribute from="id" to="id" />
  </attributemap>
</ditaelement>
```

*In the above example, if there is no mapping defined for the task element, then the task element is mapped to the above component because task is inherited from the topic component.*

3) When an element has a corresponding component mapping, then further processing of its child elements is determined by type. For example:
type takes the following values:
- COMPOSITE: element to component mapping continues for child elements as well.
- STANDALONE: child elements of the current element are not mapped further.

In the above example, if the `<title>` element has any child elements, they will not be mapped to any other component. The component for `<title>` element is responsible for rendering all child elements inside the `<title>` element.

4) If there are multiple components mapped to a single DITA element, then the best match for the element is selected. To select the best match component, domain and structural specialization of DITA elements is considered.

If there are DITA elements with domain specialization and a component is mapped for domain specialization, then that component is given high priority.

Similarly, if there are DITA elements with structural specialization and a component is mapped for structural specialization, then that component is given high priority.

5) You can use `<attributemap>` in element mapping to map attribute values to the corresponding node properties.

6) `textprop` can be used for serializing the text content of a DITA element to a node property. In addition, it can be used multiple times in an element tag to serialize the text content at multiple locations in published hierarchy. You can also customize the location and name of the target property. For example:

```xml
ditaelement
    <name>title</name>
    <class>- topic/title</class>
    <componentpath>foundation/components/title</componentpath>
    <type>STANDALONE</type>
    <target>para</target>
    <textprop>jcr:title</textprop>
</ditaelement>
The above element mapping specifies that the text content of `<title>` element will be saved as value of a property named `jcr:title` on the output node.
```

7) `xmlprop` can be used for serializing the entire XML for a given element to a node property. The component can then read this node property and do custom rendering. For example:

```xml
ditaelement
    <name>svg-container</name>
```
The above element mapping specifies that the entire XML markup for element `<svg-container>` will be saved as value of a property named `data` on the output node.

8) There is a special attribute mapping to handle path resolution in output generation process. For example:

```xml
<attributemap>
  <attribute from="href" to="fileReference" ispath="true" rel="source" />
  <attribute from="height" to="height" />
  <attribute from="width" to="width" />
</attributemap>
```

*For the above attributemap, the href attribute in your DITA element will be mapped to a node property named fileReference. Now since ispath is set to true, the output generation process resolves this path and then sets it in fileReference node property.*

*How this resolution happens is determined on the basis of value of the rel attribute in attribute mapping.*

- If `rel=source`, then value of `href` is resolved with respect to the DITA source file that is currently being processed. The value of `href` is resolved and placed in the value of fileReference property.
- If `rel=target`, then value of `href` is resolved with respect to the root publish location. The value of `href` is resolved and placed in the value of fileReference property.

*If you do not want any pre-processing or resolution to happen on path attributes, then you need not specify the ispath attribute. The value is copied as is and the component can do the required resolution.*

**DITA element schema**

Following is an example of the DITA element schema in `elementmapping.xml` file:

```xml
<ditaelement>
  <name>element_name</name>
  <class>element_class</class>
  <componentpath>fmdita/components/dita/component_name</componentpath>
  <type>COMPOSITE|STANDALONE</type>
  <attributeprop>propname_a</attributeprop>
  <textprop>propname_t</textprop>
  <xmlprop>propname_x</xmlprop>
</ditaelement>
```
The following table describes the elements in the DITA element schema:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;ditaelement&gt;</td>
<td>The top level node for each mapping element.</td>
</tr>
<tr>
<td>&lt;class&gt;</td>
<td>The class attribute of the target DITA element for which you are writing the component. For example, the class attribute for the DITA topic is: - topic/topic</td>
</tr>
<tr>
<td>&lt;componentpath&gt;</td>
<td>The CRXDE path of the mapped AEM component.</td>
</tr>
<tr>
<td>&lt;type&gt;</td>
<td>Possible values:</td>
</tr>
<tr>
<td></td>
<td>• <strong>COMPOSITE</strong>: Process child elements as well</td>
</tr>
<tr>
<td></td>
<td>• <strong>STANDALONE</strong>: Skips processing of child elements</td>
</tr>
<tr>
<td>&lt;attributeprop&gt;</td>
<td>Used for mapping serialized DITA attributes and values to AEM nodes as property. For example, if you have &lt;note type=&quot;Caution&quot;&gt; element and the component that is mapped for this element has &lt;attributeprop&gt;attr_t&lt;/attributeprop&gt;, then the node's attribute and value is serialized to attr_t property of the corresponding AEM node (attr_t-&gt;type=&quot;caution&quot;).</td>
</tr>
<tr>
<td>&lt;textprop&gt;propname_t&lt;/textprop&gt;</td>
<td>Save the getTextContent() output to property defined by propname_t.</td>
</tr>
<tr>
<td>&lt;xmlprop&gt;propname_x&lt;/xmlprop&gt;</td>
<td>Save serialized XML of this node to property defined by propname_x.</td>
</tr>
<tr>
<td>&lt;xpath&gt;</td>
<td>If XPath element is provided in the element mapping, then along with element name and class the XPath condition should also be satisfied for the component mapping to be used.</td>
</tr>
</tbody>
</table>
Additional notes on element mapping

- If you plan to override the default element mapping for the Add-on, it is recommended that you do not make the changes in the default `elementmapping.xml` file. You should create a new mapping XML file and place the file at another location, preferably inside custom `apps` folder that you create.
- If you are planning to override some (and not all) of the element mappings, you do not have to replicate the entire `elementmapping.xml` file. You need to create a new XML mapping file and define only the elements that you are overriding.
- After you have created the XML file in the custom location, update the Override Element Mapping setting in the `com.adobe.fmdita.config.ConfigManager` bundle (see Configure XML Add-on parameters).

Configure blended publishing within an existing AEM Site

If you have an AEM Site that contains DITA content, you can configure your AEM Site output to publish DITA content to a predefined location within your site. For example, in the following screenshot of an AEM Site page, the `ditacontent` node is reserved to store DITA content:
The remaining nodes in the page are authored directly from the AEM Site editor. Configuring the publish setting to publish DITA content to a predefined location ensures that none of your existing non-DITA content gets modified by the XML Add-on publishing process.

You need to perform the following configurations on your existing site to allow publishing of DITA content to a predefined node:

- Configure your site's template properties
- Add nodes in your site to publish DITA content

Perform the following steps to configure your existing site's template properties:

1) Log into AEM and open the CRXDE Lite mode.
2) Navigate to your site's template configuration node. For example, the XML Add-on stores the default template configurations in the following node:
   `/lib/fmdita/config/templates/default`
3) Add the following properties:

<table>
<thead>
<tr>
<th>Property name</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>topicContentNode</td>
<td>String</td>
<td>Specify the node name where you would like to publish the DITA content. For example, the default node where XML Add-on publishes DITA content is: jcr:content/contentnode</td>
</tr>
</tbody>
</table>
The following screenshot shows the properties added in the default template node of XML Add-on:

<table>
<thead>
<tr>
<th>Property name</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>topicHeadNode</td>
<td>String</td>
<td>Specify the node name where you would like to store the metadata information of your DITA content. For example, the default node where XML Add-on stores metadata information is: jcr:content/headnode</td>
</tr>
</tbody>
</table>

Next time when you publish any DITA content using your site's template configurations, the content gets published into the nodes specified in the topicContentNode and topicHeadNode properties.

However, for existing sites, you must manually add the topicContentNode and topicHeadNode nodes.

Perform the following steps to add the required nodes to your existing site:

1) Log into AEM and open the CRXDE Lite mode.
2) Locate jcr:content within your site node.
3) Add topicContentNode and topicHeadNode nodes with the same name that you specified in the site's template configurations.

Manage attribute profiles

At an organizational level it is extremely important to ensure that you have a standard tagging system in place. Tags are associated with all digital assets in the repository, which helps in the following ways:

- When tags are assigned to your topics or images, they are better organized
- Tagged content is easier to search within the content repository
- End-users of your content can easily and quickly find the relevant information if it is tagged
- You can continue to use subjectScheme maps, as the values defined in the subjectScheme are merged with the values specified in AEM tagging system.
As the tag administrator, you ensure that a standard taxonomy is maintained within your system. You are tasked with creating, updating, and deleting tags within your system. Tagging is the native feature in AEM, you can find more details about creating and managing tags in the Administering Tags section in AEM documentation.

XML Add-on allows you to easily associate tags with the relevant DITA attributes. This association is made at the global level, which means that the tags are visible to all DITA authors in all DITA projects. The content authors can use these tags in the DITA topic, maps, or digital assets that they create or use. For more information on how the content authors can use tags, see Bulk tagging of DITA content.

To adds tags to DITA attributes, perform the following steps:

1) Create the required tags in AEM. The following example shows how to create tags for the platform attribute:
   a) Click on the Adobe Experience Manager link at the top and choose Tools.
   b) Select General from the list of tools.
   c) Click on the Tagging tile. *A list of namespaces and tags is displayed in the Tags page.*
   d) Click Create > Create Namespace.
   e) On the Add Namespace dialog, provide the Title, Name, and Description for the namespace you want to create. For example, let's call this namespace - platform.
   f) Click Create to create the platform namespace.
   g) Select the platform namespace from the list, and click Create > Create Tag.
   h) On the Create Tag page, provide the Name, Title, and Description for the tag that you want to create. For example, you can create tags for Windows, UNIX, and Mac.

2) Click on the Adobe Experience Manager link at the top and choose Tools.
3) Select XML Documentation from the list of tools.
4) Click on the Profile Attributes tile.
5) On the Profiling Attributes page, click Create.
6) In the Attribute section, enter `platform` in the Attribute Name field and click Next.
7) In the Select Tags page, select the namespace you created for the `platform` tag.

The `platform` attribute is stored in the system. Whenever an author decides to use the `platform` attribute, they will see the possible values in the Properties tab.

Customize web editor functionality

By default, the web editor is shipped with the most common editorial features required by any DITA editor. Features such as inserting elements of type list (numbered or bulleted), cross-reference, content reference, table, paragraph, and character formatting are available in the editor. In addition to these basic elements, you can customize the web editor to insert elements that are used in your authoring environment.

There are two ways of customizing the web editor:
- Remove any existing functionality from the editor
- Add a new functionality to the editor

At times you might not want to give all features currently available in the web editor, in that case you can remove the unwanted feature from the web editor. To remove any unwanted feature from the web editor, perform the following steps:
1) Log into AEM and open the CRXDE Lite mode.
2) Create a backup of `ui_config.json` file.
The location of the ui_config.json file is:
/etc/designs/fmdita/clientlibs/xmleditor

3) Open the ui_config.json file for editing. The ui_config.json has three sections:

- **toolbars**
  This section contains the definition of all features available in the editor's toolbar such as Insert/Remove Numbered List, (file) Close, Save, Comments and more.

- **shortcuts**
  This section contains the definition of keyboard shortcuts assigned to a particular feature in the editor.

- **templates**
  This section contains the predefined structure of DITA elements that you can use in your document. By default, the templates section contains template definitions for including a paragraph, simpletable, table, and body elements. You can create a template definition for any element by adding a valid XML structure for the desired element.

4) From the toolbars section, remove the entry of the feature that you do not want to expose to your users.

5) Save the ui_config.json file and reload the web editor.

Adding a functionality to the web editor involves two primary tasks - adding an icon for the feature in the ui_config.json file and adding the background functionality in JavaScript.

To add a feature to the web editor, perform the following steps:

1) Log into AEM and open the CRXDE Lite mode.

2) Create a backup of ui_config.json file.
   The location of the ui_config.json file is:
   /etc/designs/fmdita/clientlibs/xmleditor

3) Open the ui_config.json file for editing.

4) In the ui_config.json file, add the definition of the new feature in the toolbars section. Typically, you can create a new toolbar button group and add one or more toolbar buttons to it. Or, you can add a new toolbar button within an existing toolbar group. The following details are required to create a new toolbar group:

   - **type**
     Specify blockGroup as the type value. This value indicates that you are creating a block group that would contain one or more toolbar groups.

   - **extraclass**
     Name of the class or classes separated with space.
items

Specify the definition of all groups in the toolbar. Each group can contain one or multiple toolbar icons. To define icons within a toolbar group, you need to again define the type attribute within the items, and set its value to buttonGroup. Specify the one or more class names in the extraclass property. Specify the feature name in the label property. The following snippet from the ui_config.json file shows the definition for the main toolbar block, followed by the buttonGroup definition:

```json
"toolbar": {
  "type": "blockGroup",
  "extraclass": "toolbar operations",
  "items": [
    {
      "type": "buttonGroup",
      "extraclass": "left-controls",
      "label": "Left Controls",
      "items": [\
        {
          "type": "buttonGroup",
          "extraclass": "",
          "label": "",
          "items": [
            {\
              "type": "buttonGroup",
              "extraclass": "",
              "label": "",
              "items": [
                {\
                  "type": "buttonGroup",
                  "extraclass": "",
                  "label": "",
                  "items": [
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                      "type": "buttonGroup",
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    ]
  ]
```

Within the items collection, you need to specify the definition for one or more toolbar icons.

You need to define the following properties to add a toolbar icon:

**type**

Specify button as the type value. This value indicates that you are adding a toolbar button.

**icon**

Specify the name of the Coral icon that you want to use in the toolbar.

**variant**

Specify quiet as the variant value.

**title**

Specify the tooltip for the icon.

**on-click**

Specify the command name defined for the feature in the JavaScript file. If your command requires input parameters, then specify the command name as:

```json
"on-click": {
  "name": "AUTHOR_INSERT_ELEMENT",
  "args": "simpletable"
}
```

**show or hide**

If you are defining the show property, then specify the modes in which the icon is displayed. Possible values are @isAuthorMode, @isSourceMode, @isPreviewMode, true (display in all modes), or false (hide in all modes).
In place of `show`, you can also define the `hide` property. The possible values are same as in `show` property with the only difference that the icon is not displayed for the specified mode.

The following example shows XML Add-on version number when the user clicks on the Show Version icon in the toolbar.

Add the following code to the JavaScript file:
```javascript
$(document).ready(setTimeout(function(){
  fmxml.commandHandler.subscribe({
    key: 'user.alert',
    next: function()
      {
        alert("XML Add-on version 2.x")
      } }, 1000))
```

Add the feature in the `ui_config.json` file as:
```json
"type": "button",
"icon": "alert", "variant": "quiet", "title": "About XML Add-on", "show": "true", "on-click": "user.alert"
```

5) Create a `clientlib` folder and add your JavaScript into this folder.
6) Update the categories property of the `clientlib` folder by assigning it the value of `apps.fmdita.xml_editor.page_overrides`.
7) Save the `ui_config.json` file and reload the web editor.

**Customize web editor’s user interface**

In addition to customizing the functionality exposed by the web editor, you can also customize the look-and-feel of your document when it is previewed or opened in the web editor.

To customize the rendition of DITA document in preview and web editor, perform the following steps:

1) Log into AEM and open the CRXDE Lite mode.
2) Create a new node, say `web-editor-custom-css`, of type `cq:ClientLibraryFolder`. This node is used to store the customization files.
3) Add the following property to your node (`web-editor-custom-css`):

<table>
<thead>
<tr>
<th>Property name</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>categories</td>
<td>String array</td>
<td>Specify the value as: <code>apps.fmdita.xml_editor.page_overrides</code></td>
</tr>
</tbody>
</table>

4) Create a new file named `css.txt`.
5) Create a CSS file, say `overrides.css`, which will store the customized element definitions. **NOTE**: You can customize any element’s definition by using its name and adding custom display attributes to it. For example, to customize a list element use `.li` and add display attributes to it.
6) Enter the name of the file you created in Step 5 (`overrides.css`) in `css.txt`.
7) In the `overrides.css` file, provide your custom settings to display DITA content. In the following example, the topic’s title has been customized to display in red color and text marked as bold in a paragraph appears in green color.
8) Save all changes and open any topic in Preview or edit mode to see the changes.

**Configure file auto-checkout for web editor**

The XML Add-on web editor allows you to create and update DITA topics. You can configure the web editor to give exclusive write permission for any document that is opened for editing. This ensures that no other writer accidentally overwrite a topic that is opened for editing by another writer. Once a topic is opened for editing, an author can check-in the file by choosing the option to check-in the file at the time of closing the file. Also, the Check Out and Check In buttons will always be available in topic preview.

By default, auto-checkout feature is disabled. To enable this feature, turn on the **Auto-Checkout Configuration** setting in the `com.adobe.fmdita.xmleditor.config.XmlEditorConfig` bundle.

**Enable file editing in FrameMaker from web editor**

You can use FrameMaker or any other DITA editor to create and update DITA content. However, if your organization uses FrameMaker as DITA editor, then you can give your users an option to open DITA documents in FrameMaker from AEM.

By default, your users do not see the Open in FrameMaker button on the AEM toolbar. To add this button on the AEM toolbar, turn on the **Show Open in FrameMaker Button** setting in the `com.adobe.fmdita.xmleditor.config.XmlEditorConfig` bundle.

**Convert to DITA**

XML Add-on allows you to convert a variety of structured and unstructured documents into DITA format. This section guides you through the conversion process of the currently supported document formats.

**Configure Word to DITA conversion**

XML Add-on allows you to convert your existing Word documents into DITA topic type documents. You need to specify the input and output folder locations along with other parameters and the document gets converted into DITA document. Depending on the content, you could have a `.dita` file and a `.ditamap` file.

To be able to convert a Word document successfully, your document should be well-structured. For example, your document should have a Title, followed by Heading 1, Heading 2, and so on. Each of the
headings should have some content in it. If your document is not well-structured, the process might not work as expected.

By default, XML Add-on uses the Word-to-DITA (Word2DITA) transformation framework. This transformation depends on the style-to-tag mapping configuration file. To be able to use the Word2DITA transformation successfully, you must consider the following guidelines for preparing your Word document for conversion:

**NOTE:** If you make any changes in the default style-to-tag mapping configuration file, then you must update and use the guidelines confirming to your style mapping.

- Ensure that your document starts with a Title; this Title is mapped to the DITA map title. Also, the Title must be followed by some regular content.
- After the Title, there should be Heading 1, Heading 2, and so on. Each Heading must have some content in it. The Headings are converted into new Concept type topics. The hierarchy of the generated topics is as per the Heading levels in the document, for example, Heading 1 will precede Heading 2, and Heading 2 will precede Heading 3 content.
- The document must have at least one Heading type content.
- Ensure that you do not have any grouped images. In case you have grouped images in your document, ungroup all such images.
- Remove all headers and footers
- “List Bullet” and “List Bullet 2” are converted to 1st-level and 2nd-level unordered lists respectively.
- “List Bullet” and “List Number2” are converted to 1st-level and 2nd-level ordered lists respectively.
- All hyper-links are converted to XREF.
- The transformation does not recognize any inline styles and treats such content as normal text. If you want to retain the inline styles, convert then to a Word style.

To convert your existing Word documents into DITA topic, perform the following steps:

1) Log into AEM and open the CRXDE Lite mode.
2) Navigate to the default configuration file available at the following location:
   /libs/fmdita/config/w2d_io.xml
3) Create an overlay node of the config folder within the apps node.
4) Navigate to the configuration file available in the apps node:
   /apps/fmdita/config/w2d_io.xml

The w2d_io.xml file contains the following configurable parameters:

- In the inputDir element, specify the location of the input folder wherein your source Word documents are available. For example, if your Word documents are stored in a folder named wordtodita in projects folder, then specify the location as:
  /content/dam/projects/wordtodita/
- In the outputDir element, specify the location of the output folder or keep the default output location to save the converted DITA document. If the specified output folder does not exist on DAM, then the conversion workflow creates the output folder.
– For the createRev element, specify whether a new version of the converted DITA topic is to be created (true) or not (false).
– In the s2tMap element, specify the location of the map file that contains mappings for Word document styles to DITA elements. The default mapping is stored in the file located at: /etc/fmdita/word2dita/word-built-in-styles-style2tagmap.xml

**NOTE:** For more information about the structure of word-built-in-styles-style2tagmap.xml file and how you can customize it, see Style to Tag Mapping in DITA For Publishers User Guide.

5) Save the w2d_io.xml file.
6) After configuring the required parameters in the w2d_io.xml file, log into AEM and open the Assets console.
7) Navigate to the input folder location (wordtodita).
8) Upload the source Word documents into this folder. For information on uploading content on DAM, see **Upload existing files**.

Using the `<config> </config>` block, you can define one or multiple blocks of configurations for conversion. The conversion workflow gets executed and the final output in the form of a DITA topic is saved in the location specified in the outputDir element.

### Configure XHTML to DITA conversion

XML Add-on allows you to convert your existing XHTML documents into DITA topic type documents. You need to specify the input and output folder locations along with other parameters and the documents get converted into DITA documents. There is a one-to-one mapping between the HTML files and the resultant DITA files, which means that there is a .dita file created for each .html file in the input directory.

To be able to convert a XHTML document successfully, your document should be well-structured. For example, your document should have a Title, followed by Heading 1, Heading 2, and so on. Each of the headings should have some content in it. If your document is not well-structured, the process might not work as expected.

To convert your existing XHTML document into DITA topic, perform the following steps:

1) Log into AEM and open the CRXDE Lite mode.
2) Navigate to the default configuration file available at the following location:
   `/libs/fmdita/config/h2d_io.xml`
3) Create an overlay node of the config folder within the apps node.
4) Navigate to the configuration file available in the apps node:
   `/apps/fmdita/config/h2d_io.xml`

   **The h2d_io.xml file contains the following configurable parameters:**

   – In the inputDir element, specify the location of your input folder wherein your source XHTML documents are available. For example, if your XHTML documents are stored in a folder named xhtmltürdtita in projects folder, then specify the location as:
     `/content/dam/projects/xhtmltürdtita/`
– In the `outputDir` element, specify the location of your output folder or keep the default output location. If the specified output folder does not exist on DAM, then the conversion workflow creates the output folder.
– For the `createRev` element, specify whether a new version of the converted DITA topic is to be created (`true`) or not (`false`).

5) Save the `h2d_io.xml` file.

6) After configuring the required parameters in the `w2d_io.xml` file, log into AEM and open the Assets console.

7) Navigate to the input folder location (`xhtmltodita`).

8) Upload the source XHTML documents into this folder. For information on uploading content on DAM, see `Upload existing files`.

Using the `<config> </config>` block, you can define one or multiple blocks of configurations for conversion. The conversion workflow gets executed and the final output in the form of a DITA topics is saved in the location specified in the `outputDir` element.

**Generic XSL transformation**

XML Add-on allows you to convert your existing structured documents into valid DITA documents. You need to specify the input and output folder locations, the location of your transformation file, the extension with which the final output is saved, and whether a new version of the document is required or not.

To convert your existing structured documents into DITA format, perform the following steps:

1) Log into AEM and open the CRXDE Lite mode.

2) Navigate to the default configuration file available at the following location:
   `/libs/fmdita/config/XSLConfig.xml`

3) Create an overlay node of the `config` folder within the `apps` node.

4) Navigate to the configuration file available in the `apps` node:
   `/apps/fmdita/config/XSLConfig.xml`

The `XSLConfig.xml` file contains the following configurable parameters:

– In the `inputDir` element, specify the location of your input folder wherein your source structured documents are available. For example, if your structured documents are stored in a folder named `xsltodita` in `projects` folder, then specify the location as:
  `/content/dam/projects/xsltodita/`

– In the `outputDir` element, specify the location of your output folder or keep the default output location. If the specified output folder does not exist on DAM, then the conversion workflow creates the output folder.

– In the `xslFolder` element, specify the location of the folder where the XSL transformation files are stored.

– In the `xslPath` element, specify the location of the primary `.XSL` file that is used to initiate the conversion process.

– In the `outputExt` element, specify the file extensions of the final output file that is created from the transformation stream.
For the `createRev` element, specify whether a new version of the converted DITA topic is to be created (`true`) or not (`false`).

5) Save the `XSLConfig.xml` file.
6) After configuring the required parameters in the `XSLConfig.xml` file, log into AEM and open the Assets console.
7) Navigate to the input folder location (`xsltodita`).
8) Upload the source structured documents into this folder. For information on uploading content on DAM, see *Upload existing files*.

Using the `<config> </config>` block, you can define one or multiple blocks of configurations for conversion. The conversion workflow gets executed and the final output in the form of a DITA topic is saved in the location specified in the `outputDir` element.

**Customize review workflow**

Every organization’s content authoring team works in a specific way to meet their business requirements. In some organizations there is a dedicated editor, whereas some other organization could have automated editorial review system in place. For example, in an organization a typical authoring and publishing workflow could include tasks like - whenever an author is done with authoring content, it automatically goes to the reviewers, and when the review is complete it goes to the publisher for generating the final output. In AEM, activities that you do on your content and assets can be combined in the form of a process and mapped to an AEM workflow. For more information about workflows in AEM, see *Administering Workflows*.

XML Add-on allows you to customize the default review workflow. You can use the following four custom review-related processes with your other authoring or publishing workflows.

- **Create Review**: This process prepares the metadata required to create a review task. For example, it will assign review permission to the reviewers, set the status of the topics to under review, set the review timelines, and more. Out of the four processes, this is the only mandatory process that must be included in your custom workflow. In your workflow, you may choose to include or exclude the other three processes.
- **Assign Review Task**: This process creates the review task and sends the task notification to the initiator and reviewers.
- **Send Review Email**: This process sends the review email to the initiator and reviewers.
- **Schedule Job to Close Review**: This process ensures that the review process completes on reaching the deadline.

When you are creating a custom review workflow, the first task is to set the required metadata required by the Create Review process. To do so, you can create an ECMA script. A sample of the ECMA script that assigns the metadata is given below:

```javascript
var workflowdata=workItem.getWorkflowData();
workflowdata.getMetaDataMap().put("initiator","admin");
workflowdata.getMetaDataMap().put("operation","AEM_REVIEW");
```
workflowdata.getMetaDataMap().put("orgTopics","/content/dam/xml-add-on-2.2/review.xml");
workflowdata.getMetaDataMap().put("payloadJson","{"base":"/content/dam/xml-add-on-2.2","asset":["/content/dam/xml-add-on-2.2/review.xml"],"referrer":""}");
workflowdata.getMetaDataMap().put("deadline","2017-06-27T13:19:00.000+05:30");
workflowdata.getMetaDataMap().put("title","Review through custom workflow");
workflowdata.getMetaDataMap().put("description","Initiate this review process using the AEM workflow");
workflowdata.getMetaDataMap().put("assignee","user-one","user-two");
workflowdata.getMetaDataMap().put("status","1");
workflowdata.getMetaDataMap().put("projectPath","/content/projects/review");
workflowdata.getMetaDataMap().put("startTime", System.currentTimeMillis());

You can create this script in the /etc/workflows/scripts node. The following table describes the properties being assigned by this ECMA script:

<table>
<thead>
<tr>
<th>Property</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>initiator</td>
<td>String</td>
<td>User ID of the user initiating the review task.</td>
</tr>
<tr>
<td>operation</td>
<td>String</td>
<td>A static value set as AEM_REVIEW.</td>
</tr>
<tr>
<td>orgTopics</td>
<td>String</td>
<td>Path of the topics being shared for review. Specify multiple topics separated by comma.</td>
</tr>
<tr>
<td>payloadJson</td>
<td>JSOn object</td>
<td>Specify the following values:</td>
</tr>
<tr>
<td>deadline</td>
<td>String</td>
<td>Specify the time in yyyy-MM-dd'T'HH:mm:ss.SSSXXX format.</td>
</tr>
<tr>
<td>title</td>
<td>String</td>
<td>Enter a title for the review task.</td>
</tr>
<tr>
<td>description</td>
<td>String</td>
<td>Enter a description for the review task.</td>
</tr>
<tr>
<td>assignee</td>
<td>String</td>
<td>User ID of the users to whom you want to send the topic(s) for review.</td>
</tr>
<tr>
<td>status</td>
<td>Integer</td>
<td>A static value set as 1.</td>
</tr>
</tbody>
</table>
Once you have created the script, call it before calling the Create Review process in your workflow. Then, depending on your requirements, you can call the other review workflow processes.

### Customize post-output generation workflow

XML Add-on gives you the flexibility to specify a post-output generation workflow. You can perform some post-processing tasks on the output that gets generated using the XML Add-on. For example, you might want to apply some CQ tags on the generated AEM Site output, or set certain properties on the PDF output, or you might want to send an email to a set of users once the output is generated.

You can create a new workflow model to use as a post-output generation workflow. When a post-output generation workflow is triggered, the output generation workflow shares contextual information through the workflow metadata map, which you can use to perform processing on the generated output. The following table describes the contextual information shared as metadata:

<table>
<thead>
<tr>
<th>Property</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>outputName</td>
<td>String</td>
<td>Name of the output preset used to generate the output.</td>
</tr>
<tr>
<td>generatedPath</td>
<td>String</td>
<td>Path in DAM where the generated output is stored.</td>
</tr>
<tr>
<td>outputType</td>
<td>com.adobe.fmd.ita.ou tputType</td>
<td>Type of the output preset.</td>
</tr>
<tr>
<td>outputTitle</td>
<td>String</td>
<td>Title of the output preset.</td>
</tr>
<tr>
<td>outputHistoryPath</td>
<td>String</td>
<td>Repository path of the history node.</td>
</tr>
<tr>
<td>isSuccess</td>
<td>Boolean</td>
<td>A flag depicting the final status of the output generation process - success or failure.</td>
</tr>
<tr>
<td>logPath</td>
<td>String</td>
<td>Path in DAM where the output generation logs are saved.</td>
</tr>
<tr>
<td>generatedTime</td>
<td>Long</td>
<td>Time at which the output generation process was triggered.</td>
</tr>
<tr>
<td>initiator</td>
<td>String</td>
<td>The user ID of the user who triggered the output generation workflow.</td>
</tr>
</tbody>
</table>

To make use of the output generation metadata, you can create an ECMA script or an OSGi bundle. A sample of the ECMA script that uses the metadata is given below:
NOTE: You can create this script in the /etc/workflows/scripts node.

```javascript
var session = workflowSession.getSession(); // Obtain session object to read/write the repository.
var payload = workItem.getWorkflowData().getPayload().toString(); // Get the workflow payload (the ditamap file on which the generation was triggered)
var metadata = workItem.getWorkflowData().getMetaDataMap(); // Get the workflow metadata object
var generatedPath = metadata.get("generatedPath"); // supplied by Starling
var username = metadata.get("initiator"); // supplied by Starling
var successful = metadata.get("isSuccess"); // supplied by Starling
var title = metadata.get("outputTitle"); // supplied by Starling
var subject = "Output Generation Finished";
var message = "Generation of output " + title + " just finished " +
(successful ? "successfully. " : "unsuccessfully. ");
message += "It was triggered by " + username;
if (successful) {
    message += "<br/>The path to the generated output is " +
generatedPath;
}
/*
MailerAPI.sendMail("dl-docs-authors", subject, message);
*/
```

Once you have created the script, call the custom script in your workflow. Then, depending on your requirements, you can call the other workflow processes. Once you have designed your custom workflow, call the Finalize Post Generation as the last step in your workflow process. The Finalize Post Generation step ensures that the status of the output generation task gets updated to Finished on completion of the output generation process. After creating a custom post-output generation workflow, you can configure it with any of your output generation presets. Select the required workflow in the Run Post Generation Workflow property of the required preset. When you run an output generation task using the configured output preset, the task status (in the Output tab) changes to Post-Processing.

### Handle image rendition during output generation

AEM comes with a set of default workflows and media handles to process assets. In AEM, there are pre-defined workflows to handle asset processing for the most common MIME types. Typically, for every image that you upload, AEM creates multiple renditions of the same in binary format. These renditions may be of different size, with a different resolution, with an added watermark, or some other changed characteristic. For more information about how AEM handles assets, see Processing Assets Using MediaHandlersandWorkflows.

XML Add-on allows you to configure which image rendition to use at the time of generating output for your documents. For example, you can choose from one of the default image rendition or create one and
use the same to publish your documents. Image rendition mapping for publishing your documents is stored in the `/libs/fmdita/config/renditionmap.xml` file. A snippet of `renditionmap.xml` file is as follows:

```xml
<renditionmap>
  <mapelement>
    <mimetype>image/png</mimetype>
    <rendition output="AEMSITE">cq5dam.web.1280.1280.jpeg</rendition>
    <rendition output="PDF">original</rendition>
    <rendition output="HTML5">cq5dam.web.1280.1280.jpeg</rendition>
    <rendition output="EPUB">cq5dam.web.1280.1280.jpeg</rendition>
    <rendition output="CUSTOM">cq5dam.web.1280.1280.jpeg</rendition>
  </mapelement>
  ...
</renditionmap>
```

The `mimetype` element specifies the MIME type of the file format. The `rendition output` element specifies the type of output format and the name of rendition (for example, `cq5dam.web.1280.1280.jpeg`) that should be used for publishing the specified output. You can specify the image renditions to use for all supported output formats - AEMSITE, PDF, HTML5, EPUB, and CUSTOM.

**NOTE:** It is recommended that you create a copy of the `renditionmap.xml` file in the `apps` folder for all customizations.

If the specified rendition is not present, then XML Add-on publishing process first looks for the web rendition of the given image. If even the web rendition is not found, then the original rendition of the image is used.

**NOTE:** These image renditions control only the output generation. An image’s web rendition is used when you open a document for preview or review.

### Change the recently generated outputs list limit

You can change the maximum number of generated outputs that are displayed in the Outputs tab for a DITA map.

The default value is 25.

To change the number of outputs to display, update the `Outputs List Limit` setting in the `com.adobe.fmdita.config.ConfigManager` bundle (see Configure XML Add-on parameters).

### Configure default output presets

In a typical organizational setup, different output templates could be used for different products or user guides. Also, there could be a specific output generation process that should be used by all publishers and authors. XML Add-on allows the administrator to create output presets with specific settings that can then be used by users to generate output. For example, the administrator can create one output preset to generate user guides and another one to create the programming user manuals. Both of these presets can be configured to use different output templates.
Once the default output presets have been created in the system, all DITA maps created after that could use the default presets to generate output. However, all existing DITA maps would continue to use the output presets that were earlier configured with them. Authors would still have the rights to create more output presets, however those presets would be tied to the DITA map for which they are created. For more details about creating regular output presets for a DITA map, see Create, edit, duplicate, or remove an output preset.

To create default output presets, perform the following steps:
1) Log into Adobe Experience Manager as an admin.
2) Click on the Adobe Experience Manager link at the top and choose Tools.
3) Select XML Documentation from the list of tools.
4) Click on the Output Presets tile.
   A list of out-of-the-box output presets is displayed, which includes AEM Site, PDF, HTML5, EPUB, and CUSTOM.
5) You can choose to edit any of the existing preset or create a new preset by clicking on the Create icon in the toolbar.
   For information about output preset settings, see Understanding the output presets.
6) Click Done to save the preset settings.
   All DITA maps created or uploaded after this will have the default output preset.

NOTE: You can also configure the presets using the presets.json file which is available in the /libs/fmdita/config folder.

Configure output generation process pool size

XML Add-on allows you to configure the output generation processes pool size that controls the number of output generation processes that run concurrently. By default, the process pool size is set to number of processing cores available in your system plus one. You might want to change this value to 1 in case you want sequential publishing. In this case, the first publishing task gets executed and the next publishing task is stored in the publishing queue.

To change the output generation processing pool size, update the Generation Pool Size setting in the com.adobe.fmdita.publish.manager.PublishThreadManagerImpl bundle (see Configure XML Add-on parameters).

Configure Post Processing XML workflow launcher

XML Add-on creates a bunch of workflows that allow you to work with DITA content in AEM. For example, there are workflows that get executed when you upload DITA content or update existing content. These workflows parse DITA documents and perform various tasks such as setting the metadata, adding default output presets to new DITA maps, and other related tasks. XML Add-on also adds workflow launchers that trigger the post-processing workflow on various events like content upload and modification.
You can change the default behavior of the workflow execution as per your processing needs. To do so, in the AEM Workflow Launcher, select the Launcher tab, and find a list of all launchers under the *Post Process XML* category. You can enable or disable the required launchers on the basis of their *Event Type* or *Globbing* pattern.

Once you have changed the activation status to Enabled or Disabled, then turn off the **Enable Post Processing Workflow Launchers** setting in the `com.adobe.fmdita.config.ConfigManager` bundle (see *Configure XML Add-on parameters*). Once you disable this setting, every time you update any settings in the ConfigManager, the activation status of the Post Process XML launchers is not changed.
Manage DITA content

Technical documentation in large organizations is often a collaborative effort of authors, SMEs, and reviewers. However, in most authoring environments, this collaboration is not seamless because of the different authoring tools available to the different types of users. Authors could be using a powerful DITA editing application, such as FrameMaker, and the SMEs and reviewers could be using a simple word processor. With the XML Add-on, you can create a seamless collaborative environment in which SMEs can easily create DITA content using a browser-based DITA topic and map editor. The web editor supports DITA 1.3, 1.2 standards, lightweight DITA, and also specialized DITA.

Before you start with the actual content creation, you must familiarize yourself with some basic concepts of content management in XML Add-on.

Basic AEM concepts

Before you begin using the XML Add-on, you must familiarize yourself with the following concepts of AEM:

- Understanding the user interface
- Projects in AEM
- Managing Assets in AEM

Content management fundamentals

Digital asset management

The XML Add-on uses AEM’s digital asset management (DAM) to manage your DITA files. The files that you upload or check into the DAM are stored as digital assets.

Maintaining structure of DITA files

The topics or maps are maintained in the format in which a writer checks in or uploads them. This implies that the XML Add-on does not perform any conversion or transformation of these files.

Link management

Move or rename files or change folder structure in the content repository, without worrying about broken references. All references to and from the impacted content are automatically updated. Get warnings when deleting content which is referenced from elsewhere, to prevent unintentional breakages.
Managing versions
The XML Add-on provides version management for your digital assets. You can easily enable this functionality from a DITA authoring application of choice. Allowing your writers to perform the standard version control functions such as check-in, check-out, and undo check-out.

For more information, see Versioning assets in AEM documentation.

Native DITA handling
While the XML Add-on maintains the structure of your DITA files, it also enables AEM to natively handle DITA using Element mapping to map the DITA elements to AEM components. The native DITA handling is used in features such as topic preview, AEM Sites publishing, and the review and approval workflows.

Uploading existing DITA files
The bulk upload procedure allows you to quickly upload a large number of DITA files to DITA project in your AEM repository. This is convenient if you have previously authored DITA content that you want to move into the AEM DAM. After you are done with the upload, your writers can then continue authoring the documents in the application of choice and check-in and check-out the files as required.

Create a DITA project

A project in AEM lets you group different resources into a single entity. You would need to create a project to manage your resources used in the project. For example, a project for XML Add-on documentation can be created that would contain - people who would work on this project (authors, reviewers, publishers), source files for content and media (also known as Assets), tasks that would be executed in this project (review, approval, translation), and more. The types of resources you can associate with a project are referred to in AEM as Tiles. Tiles may include project and team information, assets, workflows, and other types of information as described in details in the Project Tiles article in AEM documentation.

With each project, you can associate different types of information such as digital assets, experiences, team members, landing pages, and more. For more information about projects in AEM, see Projects.

The XML Add-on adds a DITA Project template that you can use to create and manage your project tasks. You can add team members to this project who could then be assigned various roles. By default, DITA project creates three roles - Authors, Reviewers, and Publishers. Each of these roles have specific permissions associated with them that would allow the users to perform relevant tasks. For more information about these roles, see Roles in a DITA project. Similarly, Whenever you, as an author, initiate any workflow (like review or approval), the selected members of project get an email notification. To configure email notifications, see Customize email templates.

Perform the following steps to create a DITA Project:
1) Open Projects console.
   
   You can also access the Projects console using the following URL:
   
   http://<server name>:<port>/projects.html
2) Click Create > Project to launch the Create Project wizard.

![Create Project wizard](image)

3) On the Create Project page, select DITA Project template and click Next.

4) On the Project Properties page, enter the following details:

*Information in the **Basic** tab:*

- Enter your project’s title, description, and due date.
- You can, optionally, choose a thumbnail for the project.
- By default, you are made the owner of the project. To add more users to this project:
  a) Enter or choose a user from the User drop-down list.
  b) Choose a user type - Authors, Reviewers, or Publishers.

**NOTE:** You will see other user types in this drop-down list, but for a DITA project you should only choose from Authors, Reviewers, or Publishers user type. Even if you add a user of
different type, that user will not be able to access any DITA-specific feature available in the XML add-on. For more information about roles in a DITA project, see Roles in a DITA project.

c) Click Add.

– *(Optional)* Select a DITA map file to resolve key references for topic editing, preview and review workflows.

*Information in the Advanced tab:*

– Enter a name for the project. This name is used to create the URL for this project.

5) Click Create.

*The Project Created dialog appears.*

6) Click Open Project to open your project page.

**Add assets to a DITA project**

Once you have created a project, a folder with your project’s title is created within the *projects* folder in DAM. If you have already uploaded content that you want to associate with your project, perform the following steps:

1) Open the Project page.

2) In the Assets tile, click Configuration.

![XML Add-on 2.2](image)

*NOTE: If you do not see the Assets tile, click Add and choose the Assets tile to add it to your project. You can add multiple Assets tiles to your project and each asset tile can be configured to point to a different resource in DAM.*

3) In the Configure Asset Pod, browse to and select the folder that you want to associate with your project.

4) Click Accept.

For more information about uploading existing content on DAM, see *Upload existing files*.

**Roles in a DITA project**

XML Add-on provides three out-of-the-box roles to manage different tasks in a DITA project. These roles are - Authors, Reviewers, and Publishers. Depending upon the role a user is associated with, they are
allowed to perform specific tasks. For example, publishing task can be performed only by a publisher, but not by an author or a reviewer. Similarly, an author can create a new topic, and a reviewer can only review a topic.

The following table lists the various tasks and which role can perform that task:

<table>
<thead>
<tr>
<th>Task</th>
<th>Authors</th>
<th>Reviewers</th>
<th>Publishers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create DITA Topic(^1)</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Create DITA Map</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Map Collections</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Create Review Task</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Review Topic(^2)</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Key Resolution</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open in FrameMaker</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check-out/Check-in</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edit Topic</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Move Topic</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edit Topic Properties</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copy</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delete</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Share</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Features available in DITA map console (OutputPresets tab)

| Generate | Yes |
| Edit     | Yes |
| Duplicate| Yes |
| Create   | Yes |
| Delete Preset | Yes |

Features available in DITA map console (Outputs tab)

| View generated output | Yes |

Features available in DITA map console (Topics tab)

| Create Review Task | Yes |
Below are some more points related to user roles:

- If you want a user to start the translation workflow, ensure that the user is a member of the AEM administrators group.
- If you create a project, you are the owner of the project with Publisher permissions.
- Reviewers can access and edit a topic under review or approval from the Project console and also from inbox notification link. Also, this access is only available till the time the review task is open.
- If reviewer opens a DITA map preview, they can only see the topic listing within the DITA map. They will not be able to edit (in terms of commenting) any topic unless that topic is in review and assigned to them.
- By default, Publisher is granted access and permissions on the following folders in DAM:
  - `/content/fmdita` → Read and Write
  - `/content/dam/outputs` → Read and Write
  - `/content/output/sites` → Read and Write
- All users under Authors, Reviewers, and Publishers roles have read access on all content in DAM.
- Authors and Publishers have create, update, read, and delete permissions on content in their project only.
- If you want to give admin rights to any user, you can do so by giving them access through AEM standard groups like administrators, projects-administrators, or OSGI configuration (Felix console).
- If an asset is not a part of any project, then all roles will only have read permission on such asset. The administrator will have to give explicit permissions (create, update, or delete) to the desired role.
- If an asset is a part of two projects, then the access rights on such asset is governed by the roles’ permissions.
- If a user is assigned different roles in two projects containing same asset, then that user gets combined permissions from different roles. For example:

### Task Permissions Table

<table>
<thead>
<tr>
<th>Task</th>
<th>Authors</th>
<th>Reviewers</th>
<th>Publishers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit</td>
<td>Yes</td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Features available in DITA map console (Baselines tab)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Authors</th>
<th>Reviewers</th>
<th>Publishers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create</td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Edit</td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Duplicate</td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Remove</td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>DITA map console (Reports tab)</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

1. If a user is not a member of the project, but is a member of AEM Authors or Publishers group, then such user must be given explicit write permission on the project folder to be able to create or edit document.
2. If Authors and Publishers are invited for a review.
– User X is Author in Project-A
– User X is Reviewer in Project-B
– Both projects use the same asset

*In this scenario, user X will have all the privileges of Authors and Reviewers on the shared asset in both projects.*

## Author DITA content

FrameMaker is one of the most powerful and widely-used DITA editor. You could either be using FrameMaker or some other DITA editor to create structured content. XML Add-on also provides an easy-to-use DITA web-based editor for writers such as SMEs to create or edit topics and maps.

This section walks you through the online XML Add-on web editor and FrameMaker as an offline client that you can use to create and edit structured content.

### Use XML Add-on web editor

The XML Add-on comes with an easy-to-use web-based web editor for creating and editing structured documents. The editor hides all the complexities of the DITA structure from the writer. The editor provides a list of DITA elements that a user would usually need to work within a document.

Also, the web editor is DITA-aware. This implies that it will not allow you to place elements at locations that are not compliant with the DITA definition. The web editor also allows you to work with the most commonly used paragraph and character elements.

The web editor also works as the file management system by providing the following capabilities:
- Single or multiple files check-in and check-out.
- Automatic file checkout on editing a file.
- Check-out a file from the web editor and check-in from FrameMaker.
- If a file is checked out, the status is reflected in the FrameMaker Resource Manager window.
- Automatically assign state to a newly created file, file under review, or review complete. See [Document state](#) for more details.

### Create topic

The XML Add-on editor allows you to create DITA topics of type - topic, task, concept, and reference. Apart from creating topics based on the out-of-the-box templates, you can also define your custom templates. For more information about defining your custom DITA templates, see [Configure custom DITA topic template](#).

Perform the following steps to create a topic:

1) In the Asset console, navigate to the location where you want to create the topic.
2) To create a new topic, click Create > DITA Topic.
3) On the Blueprint page, select the type of DITA document you want to create and click Next.  
**NOTE:** XML Add-on provides four out-of-the-box DITA topic templates. You can configure more topic templates as per your organizational requirements. See [Configure custom DITA topic template](#) for more details.

4) On the Properties page, specify the document Title and Name.  
**NOTE:** The name is automatically suggested based on the Title of your document. If you want to manually specify the document name, then ensure that the Name does not contain any spaces, apostrophe, or braces and ends with .xml or .dita.

5) Click **Create**. The Topic Created message appears.  
*You can choose to open the topic for editing in the web editor, or the save the topic file in the AEM repository. Also, the document state is set to Draft. See [Document state](#) for more details.*  
**NOTE:** Every new topic that you created from the web editor is assigned a unique topic ID.

**NOTE:** If you have configured your web editor to automatically check out file on editing, then you get an exclusive write permission on the checked out file. See [Configure file auto-checkout for web editor](#) for more details.

**Preview topic**

Once a topic is created, the XML Add-on generates a preview of the topic. Perform the following steps to preview a topic:

1) In the Asset console, navigate to the topic that you want to view.
2) Click on the topic you want to view.  
*A preview of the topic is displayed in the Asset console.*

You can perform the following operations from the toolbar in the preview mode:

- **View Properties** - View the topic properties of the selected topic. Based on your AEM version, you could see properties like metadata, schedule (de)activation, references, document state and more.
- **Edit** - Open the topic for editing in the XML Add-on web editor.
- **Open in FrameMaker** - Open the topic for editing in FrameMaker.  
*NOTE:* You will see the Open in FrameMaker button only if your administrator has enabled the XML Add-on configuration. See [Enable file editing in FrameMaker from web editor](#) for more details.
• **Conditional Filtering (A/B)** - If your topic has conditional content, then you will see the A/B icon on the toolbar. Clicking on this icon opens a pop-up that allows you to filter the content as per the available conditions in the topic.

![Conditional Filtering (A/B) pop-up](image)

• **Key Resolution** - By default, at the time of creating a project, you specify the keyspace file. If you want to use a different keyspace file for the topic, click the Key Resolution icon. You can then choose a different key space from the Key Resolution pop-up.

• **Check Out/Check In** - Check out the file for editing. A checked out file can be opened in the web editor or FrameMaker for editing. Once you have made the required changes, click the Check In icon to save the file in DAM.

• **Web-based version difference** - If your topic has undergone some changes, you can easily find out the changes made in different versions of that topic. To find out changes in different versions of a topic:
  a) Open the topic in Preview mode.
  b) Click **Timeline** and choose **Versions** from the drop-down list:
c) From the listed versions, select the one that you want to use as the base version and click **Preview Version**. The preview of the selected version is shown in the **Version Preview** window.

d) From the **Show Diff** list, select the version with which you want to compare the base version.

The changed content is highlighted in the topic preview. Content highlighted in green signifies the newly added content and content in red is the deleted content.
Edit topic

Perform the following steps to edit a topic:

1) In the Asset console, navigate to the topic that you want to edit.
2) To get an exclusive lock on the topic, select the topic and click Check Out.
3) Close the asset selection mode and click on the topic you want to edit.
   The topic’s preview is displayed.
   IMPORTANT: If you want to open multiple topics for editing, select the desired topics from the Asset console and click Edit. Ensure that your browser does not have pop-up blocker enabled, else only the first topic in the selected list is opened in the edit mode.
4) Click Edit to open the topic in XML Add-on web editor.

5) To make changes in your topic, click within the text boundary of the required element and start making changes.

6) To insert a specific element, click at the end of the element after which you want to insert the new element and click the required element icon in the toolbar. You can also use the keyboard shortcut Alt+Enter to invoke the Insert Element popup.
   A list of element appears that can be used in the topic. XML Add-on does an intelligent placing of elements as per their valid location in the topic.
   NOTE: You can also choose which icon to be displayed in the toolbar by configuring the ui_config.json file located at - /etc/designs/fmdita/clientlibs/xmleditor/. For more information about customizing features in the web editor, see Customize web editor functionality.

7) Once you have finished editing your document, click Save.
   NOTE: If you do not wish to commit changes into AEM repository, click Close, and then click Close Without Saving in the Unsaved Changes dialog.

Know the web editor toolbar

This section walks you through the features that you can work with using the web editor’s toolbar.
A: Toggle Left Panel
Toggles the left panel view. If you have opened a topic through DITA map, the map is shown in this panel. For more information about opening a topic through DITA map, see Edit topics through DITA map.

B: Save
Saves the changes you have made in the topic. All your changes are saved in the current version of your document. If your topic is under review, saving a topic does not give your reviewers access to your changed topic content.

C: Save Revision
Saves the changes you have made in your topic and also creates a new version of your topic. At the time of saving the topic, you can add a comment or label specifying the changes that you have made in the topic. This label is shown in the topic’s Timeline. If your topic is under review, your reviewers will get a notification saying that a newer version of the topic is available. They can easily access the latest revision of your document and continue reviewing the latest version of your topic.

D: Key Resolution
If you want to use a different keyspace file for the topic, click the Key Resolution icon. You can then browse to and choose a different key space from the Set Keyspace pop-up.

E: Find and Replace
Find and replace text in your topic using the Find and Replace pod. You can perform a case-sensitive search, whole word search, and repeat search from the beginning of the document once the end of document is reached.
Similarly, for replacing a text in your topic, enter the search term and its replacement in the respective fields and click the Replace or Replace All button.

![Find and Replace dialog box](image)

**F: Insert Element**

Inserts a valid element at the current or next valid location. If you are working in a block element like a note, then use the Insert Element icon to insert a new element after the note element. In the following screenshot a note element has been inserted inside the p (paragraph) element:

![Insert Element](image)

If you press Enter in the note element, a new paragraph is created within the note element itself. To insert a new element outside note, click the p element (highlighted in screenshot) in the elements breadcrumb and click on the Insert Element icon or press Alt+Enter to open the Insert Element pop-up. Then, select the desired element and press Enter to insert the selected element after the note element.

Another way of entering new element is by using the context menu. Right-click at any place in your document to invoke the context menu. From this menu choose Insert Element After or Insert Element Before to insert the new element at the desired location.
G: Insert/Remove Numbered List

Creates a numbered list at the current or next valid location. If you are on a numbered list and click this icon, the item is converted into a normal paragraph.

H: Insert/Remove Bulleted List

Creates a bulleted list at the current or next valid location. If you are on a bulleted list and click this icon, the item is converted into a normal paragraph.

I: Insert Table

Inserts a table at the current or next valid location. Click the Insert Table icon to open the insert Table dialog:

You can specify the number of rows and columns required in the table. If you want to keep the first row as table header, select the Set First Row As Header option.

Once a table is inserted, you can modify table using the context menu.
Using the table’s context menu, you can:

- Add or remove cells, rows, or columns
- Merge or split cells
- Delete table
- Change table properties
- Change cell’s properties, such as cell’s width and height, word wrapping in cell, horizontal and vertical alignment, cell type (as normal data cell or header cell), row and column span, background and border color.
**J: Insert Image**

Inserts an image at the current or next valid location. Click the Insert Image icon to open the assets search page from where you can search and select the image you want to insert. You can insert various formats of image files, such as .png, .svg, .gif, .jpg, .eps, .ai, .psd, and more.

You can search for the required image file by entering the file name in the Type to Search bar at the top and also filter the search results by Path (to search in), Collections, File Type, and Tags. Once you have found the required image file, select the file and click Select to insert the image in your document.
Once you have inserted an image, you can change the height and width attributes from the Image Properties panel. Right-click on the image file and choose image Properties to open the Properties panel.

You can resize an image by providing either Height or Width value for the image file. The aspect ratio of the image is maintained automatically. If you want, you can also choose not to maintain the aspect ratio of the image file by deselecting the Preserve Aspect Ratio option (the lock icon) and providing Height and Width values.

K: Insert Paragraph

Insert paragraph element at the current or next valid location.
L: Insert References

Insert references of type - Content Reference, Content Key Reference, File Reference, Web Link, or Email Link.

A link of the selected reference is added in the document.
Reuse content that exist within any other document in your project. You can insert content by directly linking to the content in a file or by using a key references, see Resolve key references. When you click the Reuse Content icon, you get the Reuse Content dialog:

In the Reuse Content dialog, select DITA file for file references or the DITA map file that contains the key references. Once selected, the topic or key references are shown in the dialog. You can select the ID/key of the topic that you want to insert and click Done to insert the content within your topic.

**NOTE:** To add content before or after the referred content, use Alt+Left Arrow or Alt+Right Arrow keys to move the cursor to the desired location.

You can also embed the referred content with in the topic by right-clicking on the referred content and choosing Replace Reference With Content from the context menu.
N: Insert Keyword

Insert keyword defined in your DITA map. Click the Insert Keyword icon to open the Select Key Reference dialog.

![Select Key Reference dialog]

The keywords defined in your DITA map are listed in this dialog. Choose the keyword that you want to insert and click Done. You can also change the attributes of the inserted keyword by right clicking on the keyword and selecting the Attributes option. The Attributes for Keyword dialog opens:

![Attributes for 'keyword' dialog]

You can change the keyword’s attributes or add a new attribute to the keyword.
O: Toggle Right Panel

The right panel contains the information about the type of currently selected element in the document and its attributes. You can also add attributes by clicking on the Add icon, selecting the attribute, and specifying the attribute’s value.

If your document is shared for review, you will see the Review and Changes tabs. Clicking the Review tab opens the comments panel wherein you can view and post replies on the comments given on the topic. For more information, see Addressing review comments using the Web editor.

Keyboard shortcuts in the web editor

There are many operations in the web editor that you can perform using the keyboard shortcuts. The following table lists these keyboard shortcuts:

**NOTE:** The letter keys in the keyboard shortcut are case-insensitive.

<table>
<thead>
<tr>
<th>Operation in web editor</th>
<th>Keyboard shortcut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply bold formatting on selected text</td>
<td>Ctrl+B</td>
</tr>
<tr>
<td>Apply Italics formatting on selected text</td>
<td>Ctrl+I</td>
</tr>
<tr>
<td>Apply underline formatting on selected text</td>
<td>Ctrl+U</td>
</tr>
<tr>
<td>Save document in Author and Source view</td>
<td>Ctrl+S</td>
</tr>
<tr>
<td>Show Insert Element dialog</td>
<td>Alt+Enter</td>
</tr>
<tr>
<td>Show Insert Element dialog to insert element before the selected element</td>
<td>Alt+Shift+Enter</td>
</tr>
<tr>
<td>Move out from a nested element and go to the parent element in left direction, else go to previous sibling element</td>
<td>Alt+Left Arrow</td>
</tr>
<tr>
<td>Move out from a nested element and go to the parent element in right direction, else go to next sibling element</td>
<td>Alt+Right Arrow</td>
</tr>
</tbody>
</table>
There are some other useful features in the web editor that you can make use of:

- The web editor support DITA glossary terms that you can insert by adding term or abbreviated-form elements.
- Use DITA subjectScheme maps to create custom controlled values that can be used for classifying content. subjectScheme maps creation is supported by web editor. For more information, see Work with subjectScheme.
- Insert footnote in your content by using the fn element. In the authoring mode, the footnote value is shown inline with the content. However, when you switch you the Preview mode or publish your document, the footnote appears at the end of the topic.

**XML Add-on editor views**

The XML Add-on editor comes with three views:

**Author**

This is a typical What You See is What You Get (WYSIWYG) view of the web editor. You can edit topic as you would do in any regular text editor. In the Author view, you have the options to save a revision of the document, find and replace content, insert element, insert hyperlink, insert content reference, and more.

**NOTE:** When you use the content reference, the referred content is also displayed in Author view in blue color. The referred content is non-editable.

**Source**

The Source view displays the underlying XML that makes up the topic. If your author has strong understanding of XML, then they would find this view easy to work with. In addition to making regular text edits in this view, an author can also add elements and attributes using the Smart Catalog.

<table>
<thead>
<tr>
<th>Operation in web editor</th>
<th>Keyboard shortcut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto indent XML in Source view</td>
<td>Ctrl+Alt+L</td>
</tr>
<tr>
<td>Split the current element</td>
<td>Enter</td>
</tr>
<tr>
<td>Copy selected text</td>
<td>Ctrl+C</td>
</tr>
<tr>
<td>Paste</td>
<td>Ctrl+V</td>
</tr>
<tr>
<td>Open Print dialog</td>
<td>Ctrl+P</td>
</tr>
</tbody>
</table>

Other useful features of the web editor

<table>
<thead>
<tr>
<th>Operation in web editor</th>
<th>Keyboard shortcut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto indent XML in Source view</td>
<td>Ctrl+Alt+L</td>
</tr>
<tr>
<td>Split the current element</td>
<td>Enter</td>
</tr>
<tr>
<td>Copy selected text</td>
<td>Ctrl+C</td>
</tr>
<tr>
<td>Paste</td>
<td>Ctrl+V</td>
</tr>
<tr>
<td>Open Print dialog</td>
<td>Ctrl+P</td>
</tr>
</tbody>
</table>
To invoke the Smart Catalog, place the cursor at the end of any element tag and enter “<”. The editor will show a list of all valid XML elements that you can insert at that location.

If you want to add an attribute to an element, place the cursor inside the element tag and press the Space bar. A list of valid attributes for that element are sown in the Smart Catalog.

In the Source view, there is an Auto Indent option that reorganizes the XML code in presentable and easily readable format. Also, if you select any text and switch from Author to Source or from Source to Author view, the selected text is also highlighted in the other view.

Another powerful feature in the Source view is the XML validation in your document. If you open a document containing invalid XML, it is opened in the Source view with the information about
invalid XML. For example, in the following screenshot the exact information about the erroneous XML is given in the Parse Error pop-up.

```
1  <xml version="1.0"/>
2  <!DOCTYPE concept PUBLIC "concept.dtd">
3  <concept id="concept"/>
4  <title>Common Tasks</title>
5  <shortdesc>The tasks common to all configurations of the product.</shortdesc>
6  <conbody>
7    <p>Use <xref
8      keyref="my_quickref_dataview"/> and <xref
9      keyref="my_quickref_health_indicators"/> for reference while performing these tasks.</li>
10  </conbody>
11  </concept>
```

In the above screenshot, a cross highlight is used to point the line containing erroneous XML.

**Preview**

Opening a topic in Preview shows how your topic will be displayed when it is viewed by a customer in their own web browser.

**Use map editor**

Using the XML Add-on map editor, you can create and edit DITA maps. The map editor gives you two out-of-the-box map templates - DITA map and bookmap. You can also create your own map templates and create maps based on your custom template. For information about configuring custom map templates, see [Configure custom DITA map template](#). Once you have selected the map template, simply drag-and-drop topics from your AEM repository to create the DITA map or bookmap. You can add nested topics, relationship tables (reltable), attributes and metadata information, and also validate the map for correctness.

Perform the following steps to work with the map editor:

1) In the Asset console, navigate to the location where you want to create the map file.  
   **NOTE:** If you are editing an existing map, then follow instructions from Step 6 onwards.

2) To create a new map, click Create > DITA Map.

3) On the Blueprint page, select the type of map templates you want to use and click Next.
NOTE: The way the topics are referred in a map file depend on the map template. For example, if you select the Map template, then the topic references (`topicref`) are used to refer to topics. In case of a Bookmap, topic references are created using the `chapter` element in DITA.

4) On the Properties page, enter a title and name for the map and click Create.

   NOTE: The name is automatically suggested based on the Title of your document. If you want to manually specify the document name, then ensure that the Name does not contain any spaces, apostrophe, or braces and ends with `.ditamap`.

5) Click Create. The Map Created message appears.

   You can choose to open the map for editing in the map editor, or save the map file in the AEM repository.

   You build a map by using currently available topics that are displayed in the References rail.

6) Navigate to the folder that contains the topics that you want to add to your map.

   NOTE: You can add topics from any folder in the References rail.

7) To add the first topic to the map, drag-and-drop the topic to the map console.

   NOTE: If you want to create a structure without linking to any existing topic, use the Add New Reference link in the body page. After adding the first link, the Add New Reference link is available when you hover your mouse over an existing topic in the map.

8) To add subsequent topics to the map, drag-and-drop the topic to the required location in the map.
9) You can perform the following tasks on the topics in the map:

A: Outdent and indent
Hover your mouse pointer over a topic and use left or right arrows to outdent or indent a topic with respect to its parent.

B: Properties
Hover your mouse pointer over a topic and click Properties to open the Topicref Properties dialog. Using this dialog, you can set the topic attributes and metadata information. For more information about the standard topic attributes and metadata, see the topicref documentation in OASIS DITA Language Specification.

C: Add New Reference
Hover your mouse pointer over a topic and click the add new reference icon to add a new reference as a sibling of the current topic.

D: Add keys
Hover your mouse pointer over a topic and click the Key icon to add a new key definition. Any overridden key or a key that has been already defined in the map, appears in red. If you click the Properties icon on a key definition, you get the Keydef Properties dialog.

10) You can also use the following icons in the toolbar to perform additional tasks on the map:
A: Search
You can search for and include the required topics from DAM. Clicking on this icon displays the Search dialog:

Enter the keywords you want to search for, these keywords are matched in the topic’s filename, content, and even attribute values. Once the search results are available, select the desired topic(s) and click the Check button to add the selected files at the end of your map structure. You can filter your search results by specifying Modify Date parameters.

B: Group
Click the checkbox to the left of the topics and click Group in the toolbar to group the selected topics. For more information about grouping topics, see the topicgroup documentation in OASIS DITA Language Specification.

C: Delete
Click the checkbox to the left of a topic and click Delete in the toolbar to remove the selected topics from the map.

D: Show Numbers and Hide Numbers
Display (or hide) numbering for the topics in the map.

E: Validate
Check whether the map is valid or has errors.

F: Default Mode/XML Mode
In Default Mode, clicking a topic link shows the preview of the topic. Clicking on the icon changes its mode. In XML Mode, clicking anywhere in a topic row shows the underlying XML of topic references within the topic. In the source XML view, there is an Auto Indent option that reorganizes the XML code in presentable and easily readable format. In case you are editing a map manually, the source view also performs validation checks. In case you XML contains errors, the same gets highlighted in the XML Mode and you are not allowed to save DITA map file containing invalid XML. If you want to view the XML for the entire map, click anywhere outside the topic boundary.
G: Map Properties

Display the Map Properties dialog wherein you can set the attributes and metadata information for the map.

11) Click Save.

Work with relationship tables

The XML Add-on map editor comes with a powerful feature that allows you to create and edit relationship tables in your DITA map.
Perform the following steps to work with relationship tables in your map:

1) In the Asset console, navigate to and click on the map file in which you want to create the relationship table.
2) Click Topics.
   
   *A list of topics in the map file are displayed.*

3) Click Edit in the toolbar.
4) Select Reltable from the toolbar.

5) Drag-and-drop topics from the topic list to the Reltable editor.
   
   **NOTE:** You can add topics from any folder in the References rail.

6) To add a header to your relationship table, click Add Relheader.
7) To add a column to your relationship table, click Add a Column.

8) Click Save.

You can also perform the following actions from the relationship table editor:

**Delete rows or columns**

If you want to delete a column from your table, select the checkbox in the column header and click Delete. If you want to remove a row from table, select the checkbox in the first column of the respective row and click Delete.

**Delete a topic**

If you want to delete a topic from your table, click the cross icon next to the topic.

**Delete the relationship table**

If you want to delete the relationship table, click anywhere outside the relationship table and click Delete.

**Resolve key references**

A DITA content key reference, or `conkeyref` is a mechanism for inserting a part of content from one topic into another. This mechanism uses key to locate the content to reuse rather than the direct content referencing mechanism. For more information about direct and indirect referencing in DITA, see *DITA addressing* in OASIS DITA Language Specification.

If the DITA topic has associated key references, then they need to be resolved before previewing, editing or reviewing a topic. The key references can be stored within a DITA map file or a separate DITA file. In XML Add-on, you can specify key references either at the project level or a session level.
If a root map is already defined for the user session, then it is used for resolving the keys. Else, the default root map for that folder is used. In case a default root map is not configured, then the missing key references are highlighted to the user.

There are several ways to resolve key references in a DITA topic by defining the DITA map to be used at the following locations:

**Project properties** - You can define a root map for resolving key references while creating a Project in the Project Properties section. See *Create a DITA project* for more information.

This root map will be applicable for all assets (folders and sub-folders) associated with that project. For content that is referenced in multiple projects, an alphabetical list of projects is maintained and the default root map associated with the first project is used. You can also choose the DITA map to be used from the list for resolving key references.

**Topic preview** - In the topic preview mode, click on the Key Resolution icon in the toolbar and select the DITA file to be used for key references.

**Topic edit view** - Click on Key Resolution icon while editing a DITA topic and select the DITA file to use for resolving the key references.

**Edit topics through DITA map**

Editing an individual topic doesn’t give the complete context to the author. An author would have no information about where a topic is placed in a DITA map. Without this contextual information, it becomes difficult for authors to create content.

XML Add-on allows authors to open a DITA map in the web editor and see the placement of topics within the map. This helps authors to get where exactly the topic is placed within the map and create more relevant content. Also, if there are multiple authors working on a project, they can know what all topics are available in the map and reuse content, wherever required.

To edit topics through a DITA map, perform the following steps:

1) In the Asset console, navigate to the DITA map that contains the topics that you want to edit.
2) Click on the DITA map to open it in DITA map console.
3) Click Topics to see a list of topics available in the DITA map.
4) In the main toolbar, click Edit Topics.
The DITA map opens in the web editor.

5) Double-click on any topic link to open it in the web editor for editing. You can open multiple topics in the editor and each topic is opened in a new tab.

The currently active topic’s filename is highlighted with an underline.

6) Once you have finished editing the topics, you can save them individually. If you click on Close without saving your topics, you will see a dialog prompting you to save the unsaved topics:

You can choose to save all selected topics, or deselect the topics that you do not want to save.
Work with subjectScheme

subjectScheme maps are a specialized form of DITA maps that are used to define taxonomic subjects and controlled values. Depending upon your requirements, you can create a subjectScheme map and reference it within your topic file. The following example shows how to use subjectScheme in XML Add-on.

1) Create a subjectScheme file in a tool of your choice. The following XML code creates subjectScheme that binds values for the platform attribute.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE subjectScheme PUBLIC "-//OASIS//DTD DITA Subject Scheme Map//EN" "subjectScheme/dtd/subjectScheme.dtd">
<subjectScheme>
  <subjectdef keys="os" navtitle="Operating system">
    <subjectdef keys="linux" navtitle="Linux">
      <subjectdef keys="redhat" navtitle="RedHat Linux"/>
    </subjectdef>
    <subjectdef keys="suse" navtitle="SuSE Linux"/>
  </subjectdef>
  <subjectdef keys="mswin" navtitle="Windows"/>
  <subjectdef keys="zos" navtitle="z/OS"/>
</subjectScheme>

2) Save the file with .ditamap extension and upload it within your project folder.

**NOTE:** You can add the subjectScheme file at the project level or at topic level. For adding it at project level, open the project properties and choose this file in the Resolve Key References Using field.

3) In the topic editor, open the file where you want to use the subjectScheme definitions.

4) Click the Key Resolution icon to open the Key Resolution dialog.

5) Browse to and select the subjectScheme file and click OK.

6) From the breadcrumb, select the element to which you want to apply the platform attribute.

7) Right-click on the selected text and choose Attributes.

8) In the Attributes For selection dialog, enter or choose the platform attribute. The Value field changes to a drop-down list containing the permissible values.
9) Select the desired attribute value and click **Done** to assign the value to the selected element.

**Document state**

To manage the readiness of the documents, XML Add-on provides document state property to indicate the current state of the document. Document states help us quickly find out whether a document is new, needs review or is ready to go for publishing.

**Types of document states**

A document can have any one of the following Document States:

- **Draft** - Indicates that the document is created and saved with new changes.
- **In-Review** - Indicates that a review workflow has been initiated for the document.
- **Reviewed** - Indicates that the document has been reviewed by the intended user(s).

These states are set automatically as per the action on the document. For example, if a new document is created, the document state is set to **Draft**. If a user initiates a review task, then the state is automatically changed to **In-Review**.

**NOTE:** A document can exist in only one of the above-mentioned states.

**View the document state**
The card view of the Assets console shows the current state along with the creation date and size of the respective DITA topic or DITA map.

Use FrameMaker as an offline client

Adobe FrameMaker comes with an updated AEM connector. This connector allows you to perform operations such as syncing review comments on a topic shared for review. You can post new comments or reply to existing comments from the Review Comments pod in FrameMaker. For more information, see the Review section in the FrameMaker User Guide.

Using the FrameMaker-AEM connector, you can check-in and check-out files on the AEM repository. For more information, see the Adobe Experience Manager section in the Content Management Systems chapter in FrameMaker User Guide.

The connector also provides search functionality that allows you easily search within DITA content in your AEM repository. You can also use attribute search to search for DITA content based on element’s attribute. For more information, see the section Searching in the AEM repository in FrameMaker User Guide.

Using the web editor, you can also open a topic directly in FrameMaker.

1) In the Asset console, navigate to the topic that you want to edit.
2) Switch to asset selection mode and select a topic.
3) In the toolbar, click Open in FrameMaker.
   The Launch Application dialog appears.
4) Choose the FrameMaker application from the Send To list and click Open Link.
5) The Connection Manager dialog appears in FrameMaker.
   Establish a connection with the AEM server and click Connect. The selected file is opened in FrameMaker.

Bulk tagging of DITA content

Tags allow you to group or classify content within your content repository and also in the published output. If you have applied tags on your content, you can easily find related topics within a DITA map that
can help you while authoring content. With the published output, end users will be able to locate the right content faster with proper tags in place.

XML Add-on allows you to tag DITA content in a few clicks. You can use the bulk tagging feature to apply multiple tags on multiple topics at once. Or, you can also apply tags on an individual topic. Tagging is the native feature in AEM, you can find more details about creating and managing tags in the Administering Tags section in AEM documentation.

Tags creation and management is a feature that is restricted only to the users belonging to the "tag-administrators" group. This implies that the default roles (Authors, Reviewers, and Publishers) in XML Add-on cannot create tags, they can only use tags created by the tag administrators.

**Apply bulk tags**

Use the bulk tagging feature to apply multiple tags on multiple topics at once. Perform the following steps to apply tags to your topics in a DITA map:

1) In the Assets console, navigate to and click on the DITA map file.
   *The DITA map console appears showing the list of Output Presets available to generate output.*

2) Click Topics.
   *A list of topics available in the DITA map are displayed.*

3) Select the topics on which you want to apply tags.

4) Click Apply Tags.
   *The Select Tags dialog appears.*

5) Select one or more tags that you want to apply on the selected topics.

6) Confirm your selection.
   *The selected tags are applied on the topics and shown next to the topic title.*
Apply tags on an individual topic

Perform the following steps to apply tags to an individual topic:
1) In the Assets console, navigate to and select the topic file on which you want to apply tags.
2) In the toolbar, click Properties.
   The topic’s properties page appears.
3) In the Basic tab, click the Browse icon on the Tags field.
4) Select one or more tags that you want to apply on the selected topic.
5) Confirm your selection.
6) Click Apply Tags.
   The selected tags are applied on the topic and shown in the Tags field.
7) Click Save & Close.

Remove tags

As per your business needs, you can change the tagging information for any DITA topic. You can easily remove all tags at once or remove only those tags that are no valid on the topic.

Perform the following steps to remove all tags from one or more topics:
1) In the Assets console, navigate to and click on the DITA map file.
   The DITA map console appears showing the list of Output Presets available to generate output.
2) Click Topics.
   A list of topics available in the DITA map are displayed.
3) Select the topics from which you want to remove tags.
4) Click Remove Tags.
   NOTE: If the Delete Tags icon is not visible, ensure that you have not enabled the Hide Tags feature.
5) On the Confirm Delete dialog, click OK to remove tags from the selected topics.

Show or hide tags

If you have a long list of tags applied on your topics, then you might find it a bit cumbersome to navigate. You can easily hide tags in from your DITA map console view by clicking on the Hide Tags icon. Similarly, when the tags are not visible, clicking on the Show Tags reveals all tags.

Upload existing files

Most likely you would have a repository of existing DITA content that you would like to use with the XML Add-on. For such existing content, you can use any of the following two approaches to bulk upload your content into AEM repository:
Use FrameMaker for bulk upload

Adobe FrameMaker comes with a powerful AEM connector that allows you to easily upload your existing DITA and other FrameMaker documents (.book and .fm) into AEM. You can use various file upload functionalities such as uploading a single file, uploading a complete folder with or without dependencies (like content references, cross-references, and graphics).

For more details about using bulk upload feature in FrameMaker, see the section Create a CRX folder and upload files in FrameMaker User Guide.

Use WebDAV for bulk upload

If you are authoring your topics and maps in any other DITA editor, you can use WebDAV to check your files into your project.

For details on how to check your files into your project, see WebDAV Access in AEM documentation.
Review topics

Almost any technical document that you author needs to go through rounds of review. In most cases, the review cycle involves more than one reviewer. Addressing and responding to comments from multiple reviewers is always challenging. Also, in a multiple reviewer scenario, it is helpful if one reviewer can see the comments made by other reviewers. XML Add-on addresses this need by providing a collaborative review workflow.

NOTE: Adobe FrameMaker has a Review Comments pod that is integrated with the XML Add-on.

Send topics for review

The review workflow allows for a multi-reviewer environment where the initiator specifies the list of reviewers and review timelines when initiating a review or even for an ongoing review. An online version of the topic is made available for review. The XML Add-on Review panel allows authors and reviewers to comment or annotate a topic in real time. The panel also allows everyone involved to view and respond to comments or annotations. In a multi-round review workflow, reviewers can easily see the difference in the content being updated, from first version to the latest.

Finally, the review management dashboard gives administrators an overall view of the review status of various topics.

With XML Add-on, you can create review tasks to get multiple topics reviewed.

Create a review task

To create a review task and send topics for review, perform the following steps:

NOTE: You can create a review task only if you are the author or publisher in a project.

1) Navigate to the required folder in the Assets console.
2) Click the Select icon in the quick action and select the topics you want to send for review.
3) Enter the title for the task and select the DITA project from the drop-down list.
4) In the Assign To field, select from the drop-down list the reviewers to whom you want to send the topics for review.

*If you are the owner of the project, then you can assign this review task to individual users of the project and also to user roles. However, if you are not an owner in this project, then you can only choose from user roles.*

**NOTE:** Review workflow is project specific. When you create projects, you define the team in the project and assign them roles. So when you select the project here, you get to choose the assignees who are a part of that project. For more information about projects, see [Create a DITA project](#).

5) Enter the description for the task. This description is used as the body of the notification email sent to reviewers.

*Select the due date and time to mark the deadline for review.*

**NOTE:** After the deadline is reached, an email is sent to the initiator, notifying that the review task has completed. You can also restart a closed review task from the Projects console, see [Manage Reviews](#) for more information.

6) Click Create to initiate the review.

*A confirmation message is displayed when the review task is created successfully. The Document state is set to In-Review.*

**NOTE:** You can also click Notifications panel at the top right of the interface and confirm that the task has been created successfully.

An email is sent to all the reviewers, notifying that they have been assigned a topic or multiple topics for review. The email contains a direct link that they can click and access the topic in a browser window.

In case multiple topics are assigned, the reviewers can view and select them in a drop-down list of topics in the web browser.

### Send topics for review from a DITA map

A DITA map is an organized list of topics. It represents the logical organization of topics within a book. When you send an individual topic for review, the reviewer does not get any information about the location of that topic in the book. If a reviewer has the information about the exact location of the topic being reviewed, the reviewer gets a better context of the topic being reviewed. XML Add-on allows you to send one or more topics in a DITA map for review at the same time.

To send one or multiple topics in a map for review, perform the following steps:

1) Navigate to the required folder in the Assets console.

**NOTE:** Make sure the view of the console is set to either card view or list view.

2) Click and select the map from where you want to send the topics for review.

3) In the toolbar, click Create Review Task. The review task creation page is displayed.

*This page is almost similar to the review task creation for an individual topic, except that it has a topic selection list available at the end of this page.*

4) Enter the title for the task and select the project from the drop-down list.
5) In the Assign To field, select from the drop-down list the reviewers to whom you want to send the topics for review.

*If you are the owner of the project, then you can assign this review task to individual users of the project and also to user roles. However, if you are not an owner in this project, then you can only choose from user roles.*

**NOTE:** Review workflow is project specific. When you create projects, you define the team in the project and assign them roles. So when you select the project here, you get to choose the assignees who are a part of that project. For more information about projects, see *Create a DITA project*.

6) Enter the description for the task. This description is used as the body of the notification email sent to reviewers.

*Select the due date and time to mark the deadline for review.*

**NOTE:** After the deadline is reached, an email is sent to the initiator, notifying that the review task has completed. You can also restart a closed review task from the Projects console, see *Manage Reviews* for more information.
7) Select the topics that you want to send for review. If your DITA map contains nested maps, then topics from the nested maps are also listed here.

![Create Review Task](image)

**NOTE:** If there are topics that are already shared for review, they will appear in gray with a status of “Topic already under review”. Once a DITA map has been shared for review, it cannot be used in another review even though only a few topics from the map have been shared for review.

8) Click Create to initiate the review.

*A confirmation message is displayed when the review task has been created successfully.*

An email is sent to all the reviewers, notifying that they have been assigned topics for review. The email contains a direct link that they can click and access the topic in a browser window. The topics along with the DITA map are opened in the review mode.

**Review topics**

If you are included as a reviewer in a topic review, you receive a review request in an email.
Perform the following steps to review:

1) Click the direct link given in the review request email.
   The topic can be accessed in a browser.
   **NOTE:** You can also access topic review link from your Inbox notifications area or from the project’s Task Details page.

2) Depending on the way the topic review is initiated, you could see any one of the following two screens:
   The following screen appears when a DITA map is used to initiate the review workflow:

   ![Image of DITA map screen with options A, B, C, D, and E explained]

   **The following options are available on this screen:**
   - **A:** Show or hide the table of contents.
   - **B:** The numbers highlighted by E can be filtered by choosing the desired filter option from here. You can filter annotations by its type, status, or reviewer. For example, if you want to see how many number deleted comments you have received in each of the under review article, click the filter icon and then choose Annotation Type > Deletion.
   - **C:** A topic that is not available for review is grayed out.
   - **D:** A topic that is available for your review is shown in black and is clickable.
   - **E:** Number of comments received on each under review article. This number changes based on the filter that you apply.
The following screen appears when a topic or multiple topics are selected and shared for review:

3) Open the Comments panel by clicking the Comments icon at the top-right corner of the toolbar. Write review comments by selecting an appropriate comment type from the toolbar and press Enter to submit your comment.

Addition notes:

- You can add inline comments by highlighting text, striking through text, inserting text, or adding a comment note. For example, to add a highlight comment, select the text and click the Highlight icon. Or, click the Highlight icon and select the desired text:

A pop-up appears wherein you can add your comment for the highlighted content.
Similarly, if you want to suggest content removal, you can do so by selecting the content and clicking the Strikethrough icon. Or, select the desired text and click the Delete key:

If you want to insert text, click the Insert Text icon and place the cursor where you want to insert the text and type in the information. Or, place the cursor where you want to insert text and start typing. The added information appears in green colored font:

Finally, if you want to add a sticky note type of comment, click the Add Comment icon and enter the comment in the pop-up.

- You can see the comments listed in the Comments panel. This panel also lists comments from other reviewers if the topic is sent out for shared review. Hovering over a user’s icon shows when the user was last online.

- You can also add replies for the comments in the Comments panel.

- You can edit your own comment by double clicking on your commented text in the Comments panel or by double clicking on the corresponding annotation in the topic view.

- You can delete your own comments by clicking on the comment in the Comments panel and pressing the Delete key.

- Multiple reviewers will be able to leave comments or reply to comments simultaneously on the same document. You can find out who is currently reviewing the document by hovering the mouse over the user icon at the top right corner of the screen.

- All the participating users can respond to comments submitted by other users. On a comment, click Reply and press Enter to submit a comment.

- During a review, if an author makes any changes in the document and saves a new revision of the document, then all reviewers get a new version notification on their review page. Clicking on the notification opens up the latest version of the document for review.
This feature ensures that the reviewers always have access to the latest version of the document for review. Also, authors can start fixing the comments immediately after receiving them on their document.

**Filter comments**

You can filter comments in a document to view specific comments as required. To filter comments, click the Filter button that appears in the menu at the top right of the review panel. Select one or more of the following filtering options.

- **Review Type** - The comments type - Highlight, Deletion, Insertion, or Comment.
- **Review Status** - Status of the comment like Accept, Reject, All, or None.
- **Reviewers** - The comments submitted by a particular user.
- **Versions** - See comments received on a particular version of the document.

To remove the filter and view all the comments, click Clear All Filters.

**Address review comments**

As an author, you can work with the comments in a topic from the following locations:

**Web editor**

The existing comments in a document can also be viewed from the web editor mode. Visual indicators are provided indicating the text that was inserted, deleted or highlighted. Hovering the mouse over the comment gives the details of the annotation.
In the web editor mode, you have the following options available in the right panel. You get three main tabs at the top - Properties, Review, and Changes. The Review panel shows all comments made in your document by reviewers. The Changes panel shows the status of all inserted and deleted comments in your document.

- **A**: Open the side-by-side view to display the commented version of the topic. As seen in the above screenshot, the leftmost section is the latest version of the topic wherein you can make changes. The next section is the commented version of the topic. As you navigate between comments in the topic, the side view changes and displays that version of the topic on which the comment was made. You can see the version number at the top of the side view. Clicking on this icon again hides the commented version of the topic.

- **B**: Display a preview of the topic without comments.

- **C**: Accept or reject a comment.

- **D**: Move between previous and next comment.

- **E**: Search for a text within comments.

- **F**: Apply a filter on the comments. You can filter to see comments on the basis of Review Type (all, highlighted, deleted, inserted, or sticky note), Review Status (all, accepted, rejected, or none), Reviewers (all or specific reviewer(s)), or Versions of topic.

- **G**: Import the inserted and deleted (or Strikethrough) comments in the topic directly. This allows you to easily accept or reject the comments. If you want to incorporate the suggested change (insertion or deletion), simply right-click on the comment in the content and select Accept Change.
The comment is accepted and made a part of the content. Also, the status of the comment is changed in the Review tab.

You can also use the Changes tab to accept or reject comments. Clicking on any comment highlights the comment in the document.

**IMPORTANT:** The import comments feature works only on those document that have not changed since they were shared for review. If you have made any change after sending the document for review, you will get an option to Force Import comments into your document. However, doing so will result in loss of all updates that you have made in your document. As and when you accept or reject a comment, it is removed from the Changes list. This also serves as an indicator of how many comments need to be addressed in the document.
**Review page**

When you click on the review request link in an email, it opens the review page in the browser. The review page offers the following features:

- View changes in the document at word or block level. Clicking the icon A in the following screenshot switches between word and block level differences.

![Review page screenshot](image)

In the following screenshot, the changes are shown at word level:

```
NOTE
The folder structure for storing the custom DITA-OT plug-in should be -
\<parent-folder>\DITA-OT.
```

The text highlighted in red denotes the deleted text and the text highlighted in green denotes the newly added text. If there are a large number of such changes made in the document, then it might become a bit difficult to understand the change at the word level. The same content when seen at a block level would be displayed like:

```
NOTE
The folder structure for storing the custom DITA-OT plug-in should be -
\<parent-folder>\DITA-OT.
```

Looking at the above screenshot, you can easily make out how the updated text block will look like.

- See the changes made in between the latest and the commented version of the document. Clicking icon B (*in the first screenshot*) displays the differences in between two versions of the document. The versions that are being compared is displayed at the top of the document.
- List comments and responses to comments.
- See the comment type - Highlight, Deletion, Insertion, or Comment.
- Date and time of the given comment.
- Name of the reviewer.
- Status of the comment as to whether the comment has been accepted or rejected by the author indicated by a thumbs up or down symbol.
• Clicking on a comment highlights and shows the corresponding location in the document.

FrameMaker

FrameMaker - AEM connector comes with a Review Comments pod that you can use to view, filter, and respond to comments.

After setting up the AEM connection, you can view the content of the repository. You can directly navigate to the topic that you got reviewed and utilize the Review Comments pod.

When you open an annotated document in FrameMaker, the inline comments appear as document level comments. For example, the comments with highlighted text, will include the "highlighted text" in the comment in FrameMaker. You can post a reply to a comment, accept or reject it, and the response can be seen by authors or reviewers in XML Add-on web editor or review page view.

See the topic Review in the Content Management Systems chapter of FrameMaker user guide to understand how to address review comments in FrameMaker.

Manage Reviews

Review management workflow can include a variety of tasks. For example, you may want to add or remove reviewers for a particular topic, extend the deadline for a review, or restart a closed review. You might also want to mark the review task as complete if you think that all the stakeholders have contributed. These tasks can be managed using the Review Management functionality.

Perform the following steps to know the tasks that you can perform using Review Management:

1) On the Project console, click the project you are working on.

   A Project panel with task tiles is displayed.

2) Open the Tasks tile to view the task details.

   A page showing with the tasks, priority, due date, assignee, task status, and other details is displayed.
3) From the list of tasks, click the title of the task select and click open for the task that you wish to modify.

   a) Perform the following under the TASK tab:

   • Modify the title of the task in the Title text box.
   • Add assignees in the Assign To drop-down.
   • Update the description of the task in the Description text box.
   • Set the priority of the task in the Task Priority drop-down.
   • Modify the Due Date. You can prepone or postpone the deadline for the completion of the task.
   • Click Update to update the modified details.
   • Click Complete, if you want to mark the task as complete before the due date. When an individual topic’s task is marked as Complete, the review of the selected topic is closed. However, in case of topics shared for review through a DITA map, marking the DITA map task as Complete will close the review of all topics within the map that were shared for review.
   • For a completed review task, click Update and Restart to restart the review process. A review link for the new review task is sent to all the assignees. Comments from the older review task are retained in the topics.

**NOTE:** Once a topic review through DITA map is marked as Complete, you cannot restart the review for that DITA map from here.
Translate content

XML Add-on comes with powerful capabilities that enable you to translate your content into multiple languages. Both, human and machine translation workflows are supported by the XML Add-on.

- **Human translation** - Assets are sent to your translation provider and translated by professional translators. When complete, the translated assets are returned and imported into AEM.
- **Machine translation** - The machine translation service immediately translates your assets. By default, AEM provides the capability to connect to Microsoft Translator.

**NOTE:** Microsoft Translator is available only as a trial license.

Best practices for first time content translation

Create a source language copy for your project folder, so that the system can identify what your source language is. For example: If your project is in English, then you must have a language copy called `en` on AEM 6.2 and `<projectname>-en` on AEM 6.1, so that the system recognizes English as the source language. You should use this language copy for all the processes and edits, like first time translation and others.

You can perform an optional check to see if there is already a source language copy that exists for your project:

1) In the Asset console, select the source project folder.
2) Open the folder properties, and go to Cloud Services tab.
3) In the Cloud Service Configuration drop-down list, first select the Microsoft Translator and then select Translation Integration. Click Save to save the updated folder properties.
4) Open the Reference pane and click Language Copies under Copies.

![Language Copies](image)

*For the selected project folder, there exists two language copies called `en` and `de`. All the translation workflows and edits should be performed on the source language copy. However, if you see any issues in the translated version of the content, you can directly edit the translated files as well.*

*To initiate the localization workflow, see the following procedure.*
Create a new translation project

Perform the following steps to create a translation project:

**NOTE:** Before performing steps in this procedure, ensure that you have created the required language root and target folders. For more information about creating language root and target folders, see Preparing Content for Translation in AEM documentation.

1) In the Asset console, click on the DITA map file or select the source folder.
2) Depending on your selection in Step 1, do one of the following:
   - If you clicked on the DITA map, click the Translation tab. Next, select the topics that you want to send for translation.
   - If you selected the source folder, open the Reference pane. Next, click Language Copies under Copies.
3) Click Create & Translate at the bottom.
4) From the Project list, select Create a new translation project.
5) Select applicable configurations for Translation Config and Credential Config.
   **NOTE:** If the connector for the translation vendor does not support DITA content, then the component-based translation workflow needs to be enabled. In such a case, the translatable content is sent as asset metadata. The connector needs to support asset metadata translation for this. To enable component-based DITA translation in Microsoft Translator, select the Component-Based DITA Translation Workflow option in the com.adobe.fmdita.config.ConfigManager bundle (see Configure XML Add-on parameters).
6) From the Target Languages list, select the locale to which you want to translate your project.
7) In the Project Title field, enter a title for the project.
8) If you selected the DITA map in Step 1, then you can also select the Include DITA Map option to send the map for translation.
9) Click Start to create a new translation project.

**NOTE:** This workflow does not trigger the translation job. You can start the translation job for the target language copy by following the next procedure.

Start the translation job

Perform the following steps to start the translation job:

1) In the Projects console, navigate to the project folder you created for localization.
2) Click the localization project to open the details page.
3) Click the arrow on the Translation Job tile, and select Start from the list to start the translation workflow.
4) To view the status of the translation job, click the ellipsis at the bottom of the Translation Job tile.
After the translation completes, the status of the translation job changes to *Ready to Review*. To complete the translation process, you need to accept the translated copy and asset metadata from the Translation Job tile in the Project console.

**View translation status**

You can view the translation status and the translated language copies for each topic in a folder.

1) In the Asset console, select the source folder.
2) Open the Reference pane and Click Language Copies under Copies.

*The source folder is listed along with the translated language copies.*

For example - The source language copy folder *en* (English) is translated into *de* (German) and *ar* (Arabic).
You can also navigate to the DITA map file of the source language copy. Click Translation tab and click the arrow drop-down to see the translated copies for each topic.

Use the Target Languages, Source Status, and Source Types filters to view the translation status of specific content.

**Translate modified topics**

If you make changes in some of the topics, then those topics require re-translation. You can keep track of modified topics from DITA map. From the source language copy folder, click the DITA map file and click the Translation tab. You can see the status of each topic, if it is translated or requires re-translation.

Perform the following steps to send a modified topic for re-translation:

1) Click the DITA map file from the source language copy folder.

2) Click the Translation tab. You can see the translation status for each topic. The topics which have been modified show “Has Out of Sync Copies” status.
If you click the arrow to see further details, you can see the particular language copy that is out of sync.

3) Click the check box to select the topics that you want to send for re-translation. When you select an out of sync copy, the Update Language Copies tab appears in the References panel.

4) Click Update Language Copies and configure the translation job.

5) Select your Translation Project, Translation Configuration, Credential Configuration, you can choose to send the DITA map for translation.

6) Click Start. A confirmation message is displayed showing that the topic has been sent for translation.
7) Navigate to the translation project in the Project console. A new translation job card is created in the folder. Click the ellipsis to see the assets of the folder.

![Translation Job Card](image)

8) To start the translation, click the arrow on the translation job card and select Start from the list. A message notifies that the job has started. You can also view the status of the topic being translated when you click the ellipsis at the bottom of the translation job card.

9) After the translation completes, the status changes to Ready to Review. Click the ellipsis to see topic details and do one of the following from the toolbar:
   - Click Reveal in Assets to see and verify the translation.
   - Click Accept translation if you think that the changes have been translated correctly. A confirmation message is displayed.
   - Click Reject Translation if you think that the job needs to be re-done. A rejection message is displayed.

   **NOTE:** It is important to Accept or Reject the translated asset, else the file stays in the temporary location and does not get copied to DAM.

10) Navigate back to the DITA map file in the source language folder in Assets console. The re-translated topics are now in sync.
CHAPTER 7

Output generation

The XML Add-on has built-in publishing capabilities to generate outputs in a variety of industry standard formats. The current version of XML Add-on allows you to generate output in the most widely used formats - AEM Site, PDF, HTML5, EPUB, and custom output through DITA-OT.

As an author, you just click a few links and the output gets generated. You can generate output for an entire DITA map or you can selectively publish only a few topics that you have updated. You can also use the Baseline publishing feature to selectively publish a specific version of your DITA map or topic. Also, you can generate output for FrameMaker documents, see Generate output for FrameMaker documents for more information. Once the output gets generated on your authoring instance of AEM, same can be easily pushed on to your production server using the AEM publishing workflows.

As a production specialist, XML Add-on also makes it easy for you to automate your publishing process by creating your Publish Dashboard and running post-publishing workflows. You can create and associate your custom design templates to generate outputs in a specific layout. Also, the XML Add-on allows you to use custom DITA-OT plug-ins to reuse your existing PDF generation process.

Information in the following sections is for authors who will use the output generation workflows and perform some basic troubleshooting:

- Understanding the output presets
- Generate output for a DITA map
- Incremental output generation
- Use Baseline for publishing workflow
- View the status of the output generation task
- Basic troubleshooting

If you are a production specialist, then the information in the following sections will help you understand the process of customizing outputs:

- Use Map Collection for output generation
- Customize XML Add-on design template for generating output
- Use custom DITA-OT plug-ins

Generate output

This section walks you through the output generation process through XML Add-on. Before generating the output, you need to familiarize yourself with the various options available to generate the output.

Understanding the output presets

The XML Add-on supports creating output in four formats - AEM Site, PDF, HTML5, EPUB and custom output through DITA-OT. Using these output formats, you can configure various output presets. An
output preset represents a customized output format in which you would like the content to be published.

The following sections explain the options available for the supported output formats.

**AEM Site**

The following options are available for the AEM Site output:

**NOTE:** To open output presets for AEM Site, click on a DITA map file, then click on Output Presets, and then click on the AEM Site output option.

<table>
<thead>
<tr>
<th><strong>AEM Site options</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>The type of output you want to generate. To generate responsive AEM Site output, choose the AEM Site option.</td>
</tr>
<tr>
<td>Setting Name</td>
<td>Give a descriptive name for the AEM site settings you are creating. For example, you can specify <em>Internal customers output</em> or <em>End users output</em>.</td>
</tr>
<tr>
<td>Site Name</td>
<td>A site name where the output is stored in your AEM repository. A node in the AEM repository is created with the name specified here. If you do not specify the Site Name, then the site node is created with the DITA map file name. The Site Name you specify here is also used as the title in the browser tab.</td>
</tr>
<tr>
<td>Design</td>
<td>Select the design template that you want to use to generate the output. For details about how to use custom design templates to generate output, see <em>Customize XML Add-on design template for generating output</em>.</td>
</tr>
<tr>
<td>Destination Path</td>
<td>The path within your AEM repository where the output is stored. While generating the final output, the Site Name and Destination Path are combined. For example, if you specify the Site Name as <em>user-guide</em> and the Destination Path as <code>/content/output/framemaker</code>, then the final output is generated under the <code>/content/output/framemaker/user-guide</code> node.</td>
</tr>
<tr>
<td>DITAVAL File</td>
<td>Select a DITAVAL file to generate personalized content.</td>
</tr>
</tbody>
</table>
### AEM Site options

<table>
<thead>
<tr>
<th><strong>AEM Site options</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing Output Pages</td>
<td>Select the <strong>Overwrite Content</strong> option to overwrite content in the existing pages. This option only overwrites content present under the content and head nodes of the page. This option enables blended publishing of content. See <a href="#">Customize XML Add-on design template for generating output</a> for more information about configuring content and head nodes in the design template. Select the <strong>Delete and Create</strong> option to force delete any existing pages during publishing. This option deletes the page node along with its content and any child pages under it. Use this option if you have changed the design template of your output preset or if you want any extra pages already present in the destination to be removed.</td>
</tr>
<tr>
<td>Clean DITA-OT Temporary Files</td>
<td>Select this option to clean the temporary files generated by DITA-OT. The location where DITA-OT stores temporary files can be found in the output generation log. If you are experiencing errors while generating output through DITA-OT, you can deselect this option to retain the temporary files. You can then use those files to troubleshoot output generation errors.</td>
</tr>
<tr>
<td>Generate Separate PDF for Each Topic</td>
<td>If selected, a PDF is also created for every topic in the DITA map. When you choose this option, a new Split PDF Path option is displayed. In the Split PDF Path field, specify the path to store the PDFs generated for each topic.</td>
</tr>
<tr>
<td>Run Post Generation Workflow</td>
<td>When you choose this option, a new Post Generation Workflow drop-down list is displayed containing all workflows configured in AEM. You must select a workflow that you want to execute after completion of the output generation workflow. <strong>NOTE:</strong> For more information about creating a custom post-output generation workflow, see <a href="#">Customize post-output generation workflow</a>.</td>
</tr>
<tr>
<td>Use Baseline</td>
<td>If you have create a Baseline for the selected DITA map, select this option to specify the version that you want to publish. See <a href="#">Use Baseline for publishing workflow</a> for more detail.</td>
</tr>
</tbody>
</table>

**Additional note on AEM Site**

**Blended publishing**

XML Add-on supports publishing DITA content within your existing AEM site. For example, if you have an existing site that contains existing content, you can use the AEM Site output to publish only the DITA content on that site. In this process, the existing non-DITA content is not modified by the publishing process. For more information about setting up your site to publish only DITA content, see [Configure blended publishing within an existing AEM Site](#).
## PDF

The following options are available for the PDF Output:

**NOTE:** To open output presets for PDF, click on a DITA map file, then click on Output Presets, and then click on the PDF Output option.

<table>
<thead>
<tr>
<th>PDF options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>The type of output you want to generate. To generate PDF output, choose the PDF option.</td>
</tr>
<tr>
<td>Setting Name</td>
<td>Give a descriptive name for the PDF output settings you are creating. For example, you can specify <em>Internal customers output</em> or <em>End users output</em>.</td>
</tr>
<tr>
<td>Generate PDF Using</td>
<td>Select a method that you want to use to create the PDF. Choose from:</td>
</tr>
<tr>
<td></td>
<td>• DITA-OT</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>When you choose this option, two new options are displayed - Clean DITA-OT Temporary Files and Transformation Name. For details about using custom DITA-OT plug-ins, see Use custom DITA-OT plug-ins.</em></td>
</tr>
<tr>
<td></td>
<td><em>NOTE:</em> The default DITA-OT package available with XML Add-on comes with Apache FOP XSL-FO processor, which does not support rendering of MathML equations. If you are using MathML equations in your content, then ensure that you have integrated a MathML rendering engine plug-in for Apache FOP or use a different XSL-FO processor.</td>
</tr>
<tr>
<td></td>
<td>• FrameMaker Publishing Server</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>When you choose this option, a new FMPS Preset drop-down list is displayed. In the FMPS Preset drop-down list, select a preset that you have created on the FMPS server to generate the PDF output.</em></td>
</tr>
<tr>
<td></td>
<td><em>For details about configuring FrameMaker Publishing Server with XML Add-on, see Configure FrameMaker Publishing Server.</em></td>
</tr>
<tr>
<td>DITAVAL File</td>
<td>Select a DITAVAL file to generate personalized content.</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE:</strong> The DITAVAL file option is not supported for output generated through FMPS.</td>
</tr>
<tr>
<td>File Name</td>
<td>Specify the file name with which you want to save the PDF.</td>
</tr>
<tr>
<td>Destination Path</td>
<td>The path within your AEM repository where the PDF is stored.</td>
</tr>
<tr>
<td>Transformation Name</td>
<td>Specify the type of output you want to generate. This is required if you want to generate output using your own custom plug-in, which is integrated in the DITA-OT plug-in. For example, if you want to generate XHTML output, specify xhtml. For a list of transformations available in DITA-OT, see DITA-OT transformations (output formats) in OASIS DITA-OT User Guide.</td>
</tr>
</tbody>
</table>
### HTML5

The following options are available for the HTML5 output:

**NOTE:** To open output presets for HTML5, click on a DITA map file, then click on Output Presets, and then click on the HTML5 option.

<table>
<thead>
<tr>
<th>HTML5 options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>The type of output you want to generate. To generate HTML5 output, choose the HTML5 option.</td>
</tr>
<tr>
<td>Setting Name</td>
<td>Give a descriptive name for the HTML5 output settings you are creating. For example, you can specify <em>Internal customers output</em> or <em>End users output</em>.</td>
</tr>
</tbody>
</table>
### HTML5 options

<table>
<thead>
<tr>
<th>Description</th>
<th>Generate Responsive Using</th>
<th>Select a method that you want to use to create the HTML5 output. Choose from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DITA-OT</td>
<td>Choose this option, two new options are displayed - Clean DITA-OT Temporary Files and Transformation Name. For details about using custom DITA-OT plug-ins, see Use custom DITA-OT plug-ins.</td>
<td></td>
</tr>
<tr>
<td>FrameMaker Publishing Server</td>
<td>Choose this option, a new FMPS Preset drop-down list is displayed. In the FMPS Preset drop-down list, select a preset that you have created on the FMPS server to generate the HTML5 output. For details about configuring FrameMaker Publishing Server with XML Add-on, see Configure FrameMaker Publishing Server.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>DITAVAL File</th>
<th>Select a DITAVAL file to generate personalized content. NOTE: The DITAVAL file option is not supported for output generated through FMPS.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Destination Path</th>
<th>The path within your AEM repository where the HTML5 output is stored.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Transformation Name</th>
<th>Specify the type of output you want to generate. This is required if you want to generate output using your own custom plug-in, which is integrated in the DITA-OT plug-in. For example, if you want to generate XHTML output, specify xhtml. For a list of transformations available in DITA-OT, see DITA-OT transformations (output formats) in OASIS DITA-OT User Guide.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Clean DITA-OT Temporary Files</th>
<th>Select this option to clean the temporary files generated by DITA-OT. The location where DITA-OT stores temporary files can be found in the output generation log. If you are experiencing errors while generating output through DITA-OT, you can deselect this option to retain the temporary files. You can then use those files to troubleshoot output generation errors.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Run Post Generation Workflow</th>
<th>When you choose this option, a new Post Generation Workflow drop-down list is displayed containing all workflows configured in AEM. You must select a workflow that you want to execute after completion of the output generation workflow. NOTE: For more information about creating a custom post-output generation workflow, see Customize post-output generation workflow.</th>
</tr>
</thead>
</table>
CHAPTER 7
OUTPUT GENERATION

The following options are available for the EPUB Output:

**NOTE:** To open output presets for EPUB, click on a DITA map file, then click on Output Presets, and then click on the EPUB option.

<table>
<thead>
<tr>
<th>EPUB options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>The type of output you want to generate. To generate EPUB output, choose the EPUB option.</td>
</tr>
<tr>
<td>Setting Name</td>
<td>Give a descriptive name for the EPUB output settings you are creating. For example, you can specify Internal customers output or End users output.</td>
</tr>
<tr>
<td>Generate EPUB Using</td>
<td>Select a method that you want to use to create the EPUB output. Choose from: [\begin{itemize} \item DITA-OT _When you choose this option, two new options are displayed - Clean DITA-OT Temporary Files and Transformation Name. For details about using custom DITA-OT plug-ins, see Use custom DITA-OT plug-ins. _NOTE: The default DITA-OT package available with XML Add-on comes with Apache FOP XSL-FO processor, which does not support rendering of MathML equations. If you are using MathML equations in your content, then ensure that you have integrated a MathML rendering engine plug-in for Apache FOP or use a different XSL-FO processor. \item FrameMaker Publishing Server _When you choose this option, the default FMPS Preset is used to generate the EPUB output. _For details about configuring FrameMaker Publishing Server with XML Add-on, see Configure FrameMaker Publishing Server. \end{itemize}]</td>
</tr>
<tr>
<td>DITAVAL File</td>
<td>Select a DITAVAL file to generate personalized content. _<strong>NOTE:</strong> The DITAVAL file option is not supported for output generated through FMPS.</td>
</tr>
<tr>
<td>Destination Path</td>
<td>The path within your AEM repository where the EPUB output is stored.</td>
</tr>
</tbody>
</table>
### Custom output options

<table>
<thead>
<tr>
<th>EPUB options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transformation Name</td>
<td>Specify the type of output you want to generate. This is required if you want to generate output using your own custom plug-in, which is integrated in the DITA-OT plug-in. For example, if you want to generate XHTML output, specify xhtml. For a list of transformations available in DITA-OT, see DITA-OT transformations (output formats) in OASIS DITA-OT User Guide.</td>
</tr>
<tr>
<td>Clean DITA-OT Temporary Files</td>
<td>Select this option to clean the temporary files generated by DITA-OT. The location where DITA-OT stores temporary files can be found in the output generation log. If you are experiencing errors while generating output through DITA-OT, you can deselect this option to retain the temporary files. You can then use those files to troubleshoot output generation errors.</td>
</tr>
<tr>
<td>Run Post Generation Workflow</td>
<td>When you choose this option, a new Post Generation Workflow drop-down list is displayed containing all workflows configured in AEM. You must select a workflow that you want to execute after completion of the output generation workflow. <strong>NOTE:</strong> For more information about creating a custom post-output generation workflow, see Customize post-output generation workflow.</td>
</tr>
<tr>
<td>Use Baseline</td>
<td>If you have create a Baseline for the selected DITA map, select this option to specify the version that you want to publish. See Use Baseline for publishing workflow for more detail.</td>
</tr>
</tbody>
</table>

### Custom

The Custom output presets are available for custom DITA-OT plug-ins. You can create a custom DITA-OT output preset to publish output using your custom DITA-OT plug-in.

The following options are available for the Custom output preset:

<table>
<thead>
<tr>
<th>Custom output options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>The type of output you want to generate. To generate output using custom DITA-OT plug-in, choose the Custom option.</td>
</tr>
<tr>
<td>Setting Name</td>
<td>Give a descriptive name for the output settings you are creating. For example, you can specify Internal customers output or End users output.</td>
</tr>
<tr>
<td>Transformation Name</td>
<td>Specify the type of output you want to generate. This is required if you want to generate output using your own custom plug-in, which is integrated in the DITA-OT plug-in. For example, if you want to generate XHTML output, specify xhtml. For a list of transformations available in DITA-OT, see DITA-OT transformations (output formats) in OASIS DITA-OT User Guide.</td>
</tr>
</tbody>
</table>
Create, edit, duplicate, or remove an output preset

Perform the following steps to create a custom output preset:
1) In the Assets console, navigate to and click on any DITA map to open the DITA map console.
2) Ensure that the Output Presets tab is selected. Click Create in the toolbar. 
   *A blank output preset creation form is displayed.*
3) Enter the required details for the type of preset you want to create.
4) Click Done to save the preset settings.

Perform the following steps to edit an existing output preset:
1) In the Assets console, navigate to and click on any DITA map to open the DITA map console.
2) Ensure that the Output Presets tab is selected.
3) Click on the output preset that you want to edit. Click Edit in the toolbar.
   *An editable output preset form is displayed with values of the selected output preset.*
4) Change the required details.
5) Click Done to save the edited preset settings.

<table>
<thead>
<tr>
<th>Custom output options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DITAVAL File</td>
<td>Select a DITAVAL file to generate personalized content.</td>
</tr>
<tr>
<td>DITA-OT Command Line Argument</td>
<td>Specify the custom command-line arguments that are processed by the custom DITA-OT plug-in for generating the required output.</td>
</tr>
<tr>
<td>Destination Path</td>
<td>The path within your AEM repository where the EPUB output is stored.</td>
</tr>
<tr>
<td>Clean DITA-OT Temporary Files</td>
<td>Select this option to clean the temporary files generated by DITA-OT. The location where DITA-OT stores temporary files can be found in the output generation log. If you are experiencing errors while generating output through DITA-OT, you can deselect this option to retain the temporary files. You can then use those files to troubleshoot output generation errors.</td>
</tr>
</tbody>
</table>
| Run Post Generation Workflow           | When you choose this option, a new Post Generation Workflow drop-down list is displayed containing all workflows configured in AEM. You must select a workflow that you want to execute after completion of the output generation workflow. 
   *NOTE: For more information about creating a custom post-output generation workflow, see Customize post-output generation workflow.* |
| Use Baseline                           | If you have create a Baseline for the selected DITA map, select this option to specify the version that you want to publish. See *Use Baseline for publishing workflow* for more detail. |
Perform the following steps to duplicate an existing output preset:
1) In the Assets console, navigate to and click on any DITA map to open the DITA map console.
2) Ensure that the Output Presets tab is selected.
3) Click on the output preset that you want to duplicate. Click Duplicate in the toolbar.
   *An editable output preset form is displayed with values of the selected output preset.*
4) Change the required details.
5) Click Done to save the preset settings.

Perform the following steps to delete an existing output preset:
1) In the Assets console, navigate to and click on any DITA map to open the DITA map console.
2) Select the output preset you want to delete.
3) Click Delete Preset.
4) Click Delete on the confirmation prompt.
   *The preset is removed from the Output Presets list.*

**Use Baseline for publishing workflow**

The Baselines feature in XML Add-on allows you to create and manage multiple versions of your documentation from a single place. For a Baseline, you can set the different versions for referenced topics and assets used in a DITA map. For example, if your DITA map has topicA and imageA, you can create a Baseline to use the 3rd version of topicA, but 4th version of ImageA. Once, you have a Baseline in place, you can publish topics of different versions with a single click.

Selecting a Baselines is optional for output presets. A DITA map can have more than one Baseline. However, each output preset within a DITA map can be associated with a single Baseline. If no Baseline is specified at the time of publishing, then the output is published using the latest version of the content.

You can access the Baseline feature by performing the following steps:
1) In the Assets console, navigate to and click on the DITA map file.
2) Go to the Baselines tab.

In Baselines, you can perform the following actions:

**Create Baselines**

Baselines can be created with the latest version of the topics and referenced content, or a version available on a specific date. You can individually specify the versions of selected topics in a Baseline so that each time you apply the Baseline in publish workflow, the selected topics and their corresponding versions are included for output generation.

Perform the following steps to create a Baseline for a DITA map:
1) On the Baselines page, click the Create icon.
2) Enter the Baseline Name.
3) For the Set the Version of All Topics To, select the version that you want to use for the Baseline and click Apply.
A baseline can be created with the latest version or a version as on a specific date of the resource. The Version drop-down list shows the available versions of the topic or the referenced content. For the referenced content, you have the option to choose a version automatically. If you choose Pick Automatically for the referenced content, then the reference content is automatically picked up based on the version of the containing topic.

**NOTE:** If you want to specify a different version for any particular resource, you can do so by choosing the desired version from the Version drop-down list.

4) Click Save.

**View contents of a Baseline**

Once you have created a Baseline, you can view the contents of the Baseline by clicking on the Baseline tab and selecting the desired Baseline version from the list. The Baselines page is divided into two parts: topics and the referenced content. The various columns on the Baseline page are as described below:

**Name**

Lists the topic title or the name of the object.

**Kind**

Lists the kind or type of object in the DITA map like DITA topic or image format.

**Version**

Lists the version of the object.

**Version Date and Time**

Lists the creation date and time of the object for the selected version.

**Latest**

Lists whether the latest version of the object is used in the Baseline or not.

**Referred By**

This column is available for the referenced content only. It indicates the parent topic of the referenced object. In case the object is referred by multiple topics, then they are separated by commas.

**Edit, duplicate, or remove Baselines**

**Edit Baselines**

Perform the following steps to edit an existing baseline:

1) Select the Baseline and click Edit.
2) Make the required changes in the baseline. You can change the name, version of the topic, or referenced content.
3) Click Save.

**Duplicate Baselines**
Select the Baseline and click Duplicate to create a copy of an existing Baseline. Specify a different name for the baseline and choose the version number for the topics and referenced content and click Save.

**Remove Baselines**

Select the Baselines version and click Remove to remove a Baseline.

**Generate output for a DITA map**

Perform the following steps to generate output for a DITA map:

1) In the Assets console, navigate to and click on the DITA map file that you want to publish.  
   *The DITA map console appears showing the list of Output Presets available to generate output.*

2) Select one or multiple Output Presets that you want to use for generating the output.  
   **NOTE:** If you are generating the AEM Site output, then the publishing process uses the structure defined in the .ditamap file to create AEM Site structure.

3) Click the Generate icon to start the output generation process.

**NOTE:** You can view the current status of the output generation request by clicking on Outputs. For more information, see *View the status of the output generation task.*

**Incremental output generation**

**NOTE:** Incremental output generation is applicable only for AEM Site output.

There could be a number of instances where you would update only a selected few topics in your DITA map and push only the selected topics live. To handle such scenarios, the XML Add-on allows you to create incremental outputs.

If you have updated a selected few topics, you do not need to regenerate the entire DITA map. You can select only the updated topics and regenerate them.

Perform the following steps to regenerate output for a specific topic or a group of topics:

1) In the Assets console, navigate to and click on the DITA map file.  
   *The DITA map console appears showing the list of Output Presets available to generate output.*

2) Click Topics.  
   *A list of topics available in the DITA map are displayed.*

3) Select the topics that you want to regenerate.
NOTE: If you have added new topics to the DITA map, you will not be able to generate those new topics from here. You must first publish the newly added topics by using the DITA map publish function.

4) Click the Regenerate icon. The Regenerate Selected Topics page appears.
5) Select the output preset that you want to use to regenerate the selected topics.
6) Click the Regenerate icon to start the output generation process.

IMPORTANT: If you rename a topic title and regenerate the topic, the updated topic title does not reflect in the DITA map table of contents. To update the topic title in the TOC, you must regenerate the entire DITA map.

You can view the current status of the output generation request by clicking on Outputs. For more information, see View the status of the output generation task.

View the status of the output generation task

Once you initiate the output generation task for a map or regenerate selected topics, the XML Add-on sends this task to the output generation queue. This queue is updated in real time, showing the status of each output generation task in the queue.
Perform the following steps to view the output generation queue:

1) In the Assets console, navigate to and click on the map file for which you want to check the output generation status.
2) Click Outputs.

The Outputs page is divided into two parts:

- **Queued Outputs:**
  Lists the outputs that are either waiting to be generated or are under generation process. You can also find the output generation setting or preset used for the queued task, the type, user who initiated the task, time since when the task is queued, and the current status.

- **Generated Outputs**
  Lists the output tasks that have been completed. Again, the information shown in this is similar to the Queued Outputs section, with the only difference of the output generation time. In this list, you could have tasks that have executed successfully or tasks that failed. For the tasks that have completed successfully, the publishing process creates a log file (logs.txt) that can be accessed by clicking the link in the Generated At column. For tasks that have failed, you can check the error in the log file, which is explained in the section, Basic troubleshooting.

**Basic troubleshooting**

While working with the XML Add-on, you could encounter errors while publishing or opening your document. Such errors could be in the DITA map, topic, or in the XML Add-on process itself. This section provides information about how to access and parse information in the output generation log file. Also, if your DITA topic is too large, then you might see the JSP compilation error. This section also provides information about how to resolve the JSP compilation error.

**Access and parse the output generation log file**
Perform the following steps to access the output generation log file:

1) Once you have initiated the output generation process, click Outputs in the DITA map console.
2) If the output generation process fails for a task, the task is listed in red color with a link to the output generation log file.

3) Click on the link in the Generated At column. 
   *You are prompted to open or save the log file.*
4) Select the Save File option, and save the log file.
5) Open the saved log file in a text editor.

**NOTE:** The default file name for the log file is logs.txt.

*The following information will help you determine whether there is an error in the DITA file or XML Add-on process:*

- **DITA map file related error:** In case there is an error found in the DITA map file or any other file contained in the DITA map, the log file will contain a string, “BUILD FAILED”. You can check the information given in the log file to locate the erroneous file and fix the issue.

  In the following sample log file snippet, you can see the **BUILD FAILED** message along with the reason for the error.

```plaintext
file:/E:/AEM-CCMS-DITA/AEM6.1/crx-quickstart/ditamaps/ditamap/231982760844238007/sequence.ditamap
BUILD FAILED
E:/AEM-CCMS-DITA/AEM6.1/crx-quickstart/ditaot/DITA-OT\build.xml:41: The following error occurred while executing this line:
E:/AEM-CCMS-DITA/AEM6.1/crx-quickstart/ditaot/DITA-OT\plugins\org.dita.base\build_preprocess.xml:42: Failed to run pipeline: [DOTJ012F][FATAL] Failed to parse the input file 'file:/E:/AEM-CCMS-DITA/AEM6.1/crx-quickstart/ditamaps/ditamap/231982760844238007/sequence.ditamap':
file:/E:/AEM-CCMS-DITA/AEM6.1/crx-quickstart/ditamaps/ditamap?/231982760844238007/sequence.ditamap Line 27: [The element type "topicref" must be terminated by the matching end-tag <\topicref>].
```

- **XML Add-on related error:** The other type of error that you can identify in the log file is related to the XML Add-on process itself. In this case, the DITA map file is parsed successfully, but the output generation process fails because of some internal error in the XML Add-on. For such kind of errors, you have to seek help from the technical support team.
In the following sample log file snippet, you can see the **BUILD SUCCESSFUL** message, followed by other technical error.

```log
clean-temp:
BUILD SUCCESSFUL.
Total time: 18 seconds
javax.jcr.InvalidItemStateException: OakState0001: Unresolved conflicts in
/content/output/sites/sequence_ditamap
  at
  org.apache.jackrabbit.oak.api.CommitFailedException.asRepositoryException(CommitFailedEx
  xception.java:237)
  at
```

Resolve JSP compilation error

If your DITA topic is too large, then you might see the JSP compilation error (org.apache.sling.api.request.TooManyCallsException) in your browser. This error might appear when you open a topic for editing, reviewing, or publishing.

Perform the following steps to resolve this issue:

1) The Adobe Experience Manager Web Console Configuration page appears.
2) Search for and click on the **Apache Sling Main Servlet** component. The configurable options for the Apache Sling Main Servlet are displayed.
3) Increase the value for the **Number of Calls per Request** parameter as per your requirements.

Use Map Collection for output generation

In any organization, a product can have multiple types of documentation. As a publishing specialist, you would like to control what output you want to generate for which document. Also, there should be a way to batch publish multiple documents with a single click.

XML Add-on provides you the ability to organize your content for publishing by using a dashboard called Map Collection. A Map Collection allows you to assemble all different types of documents in a single unit. You can choose what type of output you want to generate for each document in your Map Collection. In addition, you can also generate output and see the output generation progress from the publishing dashboard.

Create a Map Collection

Perform the following steps to create a Map Collection:

1) In the Asset console, navigate to the location where you want to create the Map Collection.
2) The Map Collections page appears.
3) Click Create.
4) Enter a name in the Collection Title field and click Create. A Success message appears, click Close.
The newly created map collection is listed in the Map Collection console.

**Configure map collection for output generation**

Perform the following steps to add DITA maps to your Map Collection and generate the required output:

1) On the Map Collection page, click on the Map Collection that you want to configure.
2) Click on the Maps and Presets tab.
3) Click Add Maps to add a DITA map. By default, all the presets and locales associated with the map gets added automatically.
4) Select the desired output by turning the sliding button on or off.
5) Click Generate.

**NOTE:** Any changes to the presets or locales get reflected dynamically in the maps collection.

Click on the Outputs tab to view the generated outputs. The following information can be viewed in the Outputs tab:

- Output- The link to the generated output.
- Output Type- Type of output generated.
- Generated On- The date and time of output generation.
- Generated By- The user who generated the output.

**Delete a DITA map from the Map Collection**

On the Map Collection page, select the DITA map and click Remove From Collection. This will also remove any presets or locales associated with the DITA map from the Map Collection.

To delete a map collection, select the Map Collection and click Delete.
Customize output

The XML Add-on supports creating outputs in following formats:

- AEM Site
- PDF
- HTML5
- EPUB
- Custom output through DITA-OT

For the AEM Site output, you can assign different design templates with different output tasks. These design templates can render the DITA content in different layouts. For example, you could specify different design templates for internal and external audiences.

You can also use customized DITA Open Toolkit (DITA-OT) plug-ins with the XML Add-on. You can upload these custom DITA-OT plug-ins to generate PDF output in a specific way.

Customize XML Add-on design template for generating output

The XML Add-on uses a set of predefined design templates to generate AEM Site output. You can customize the XML Add-on design templates to generate the output that conforms to your corporate branding.

The default design template shipped with the XML Add-on allows you to customize the landing, topic, and search page components. You can make a copy of the default design and the corresponding reference templates and specify different components to generate the desired output.

Perform the following steps to specify your own design template to use for AEM Site output generation:

1) Log into AEM and open the CRXDE Lite mode.
2) Navigate to the default design template node. The location of the default design template node is:
NOTE: You can make a copy of the default design templates node and make changes in the new node to use your custom design templates. You must also make changes in the templates referenced from the default template node. The referenced templates are placed under /libs/fmdita/templates/default/cqtemplates node.

3) Click the default component in the templates node to access its properties.

The XML Add-on design template properties are described in the following table.

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>landingPageTemplate,</td>
<td>Specify the cq:Template node for these corresponding pages (landing, search, and topic). By default the cq:Template node for these pages can be found in /libs/fmdita/templates/default/cqtemplates node. This node defines the structure and properties of the landing, search, and topic pages. NOTE: You must specify a value for the topicPageTemplate. The landingPageTemplate and searchPageTemplate are optional properties.</td>
</tr>
<tr>
<td>searchPageTemplate,</td>
<td></td>
</tr>
<tr>
<td>topicPageTemplate</td>
<td></td>
</tr>
<tr>
<td>title</td>
<td>A descriptive name of your design template.</td>
</tr>
<tr>
<td>topicContentNode</td>
<td>Specify the location of the node that will contain the DITA content in a topic page. Path is relative to the topic page.</td>
</tr>
<tr>
<td>topicHeadNode</td>
<td>Specify the location of the node that will contain the head values (or metadata) derived from the DITA content. Path is relative to topic page.</td>
</tr>
</tbody>
</table>
Use custom DITA-OT plug-ins

If your organization uses custom DITA-OT plug-in to generate PDF output, you can use the same with XML Add-on. The process of how to import custom DITA-OT plug-in is explained in the section, *Use custom DITA-OT plug-ins.*

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>tocNode</td>
<td>Specify the location of the node that will contain the TOC. Path is relative to the landing page or destination path.</td>
</tr>
<tr>
<td>basePathProp, indexPathProp, pdfPathProp, pdfTypeProp, searchPathProp, siteTitleProp, sourcePathProp, tocPathProp</td>
<td>Specify names for the corresponding properties to be set on the topic, landing, or search pages.</td>
</tr>
</tbody>
</table>
Generate output for FrameMaker documents

Starting with XML Add-on 1.1, you can also publish FrameMaker documents (.book and .fm) available in your AEM repository. If a book file contains a combination of DITA and FrameMaker documents, the XML Add-on allows you to publish such documents as well. FrameMaker documents can be published into the following formats:

- PDF
- HTML5
- EPUB
- DITA

However, you must have FrameMaker Publishing Server to be able to publish FrameMaker documents. To configure FrameMaker Publishing Server, see ConfigureFrameMakerPublishingServer.

As an author, you just click a few links and the output gets generated. You can generate output for an entire book file or you can selectively publish individual FrameMaker files.

Information in the following sections is for authors who will use the output generation workflows to publish FrameMaker documents:

- Understanding the output presets
- Generate output for FrameMaker documents

Generate output

This section walks you through the output generation process through XML Add-on. Before generating the output, you need to familiarize yourself with the various options available to generate the output.

Understanding the output presets

The XML Add-on supports creating output for FrameMaker documents in PDF, HTML5, EPUB, and DITA formats. Using these output formats, you can configure various output presets. An output preset represents a customized output format in which you would like the content to be published.

The following sections explain the options available for the supported output formats.

PDF

The following options are available for the PDF Output:

**NOTE:** To open output presets for PDF, click on a FrameMaker (.fm or .book) file, then click on Output Presets, and then click on the PDF Output option.
<table>
<thead>
<tr>
<th><strong>PDF options</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>The type of output you want to generate. To generate PDF output, choose the PDF option.</td>
</tr>
<tr>
<td>Setting Name</td>
<td>Give a descriptive name for the PDF output settings you are creating. For example, you can specify <em>Internal customers output</em> or <em>End users output</em>.</td>
</tr>
<tr>
<td><strong>Job Settings</strong></td>
<td></td>
</tr>
<tr>
<td>Options</td>
<td>Choose the PDF preset that you want to use for generating PDF output.</td>
</tr>
<tr>
<td>Generate Tagged PDF</td>
<td>Select this option to generate tagged PDFs that will contain information on document’s content and structure. This information is used by the on-screen readers.</td>
</tr>
<tr>
<td>Generate PDF for Each File in Book</td>
<td>If you are generating output for a book file, select this option to generate a separate PDF for each file in the book.</td>
</tr>
<tr>
<td>Generate PDF for review Only</td>
<td>Select this option to generate PDF with commenting feature enabled.</td>
</tr>
<tr>
<td>Create Named Destination for all Elements and Paragraphs</td>
<td>Select this option to create named destinations based on elements and paragraphs.</td>
</tr>
<tr>
<td><strong>Display Settings</strong></td>
<td></td>
</tr>
<tr>
<td>Open Document on Page</td>
<td>Specify the page number that should be displayed on opening the PDF.</td>
</tr>
<tr>
<td>Initial Zoom Level</td>
<td>Choose the document zoom level.</td>
</tr>
<tr>
<td>Registration Mark</td>
<td>To print a document with crop marks and registration marks, choose an option from the Registration Marks drop-down list.</td>
</tr>
<tr>
<td>Page Width and Page Height</td>
<td>Specify the width and height of the page.</td>
</tr>
<tr>
<td>Page Range</td>
<td>Choose whether you want to publish all pages in the book or a range of pages. If you choose Range, then you must specify the From and To page range.</td>
</tr>
<tr>
<td>Convert CYMK to RGB</td>
<td>Select this option to convert CYMK colors to RGB in the generated PDF.</td>
</tr>
<tr>
<td>Generate PDF Bookmarks</td>
<td>Create accessible PDF that contains bookmarks.</td>
</tr>
<tr>
<td>Destination Path</td>
<td>The path within your AEM repository where the PDF output is stored.</td>
</tr>
</tbody>
</table>
### HTML5

The following options are available for the HTML5 output:

**NOTE:** To open output presets for HTML5, click on a FrameMaker (.fm or .book) file, then click on Output Presets, and then click on the HTML5 option.

<table>
<thead>
<tr>
<th><strong>HTML5 option</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>The type of output you want to generate. To generate HTML5 output, choose the HTML5 option.</td>
</tr>
<tr>
<td>Setting Name</td>
<td>Give a descriptive name for the HTML5 output settings you are creating. For example, you can specify <em>Internal customers output</em> or <em>End users output</em>.</td>
</tr>
<tr>
<td>Settings File</td>
<td>Specify the setting file (.sts) location in your AEM repository that should be used to generate the HTML5 output.</td>
</tr>
<tr>
<td>Destination Path</td>
<td>The path within your AEM repository where the HTML5 output is stored.</td>
</tr>
<tr>
<td>Run Post Generation Workflow</td>
<td>When you choose this option, a new Post Generation Workflow drop-down list is displayed containing all workflows configured in AEM. You must select a workflow that you want to execute after completion of the output generation workflow.</td>
</tr>
</tbody>
</table>

### EPUB

The following options are available for the EPUB output:

**NOTE:** To open output presets for EPUB, click on a FrameMaker (.fm or .book) file, then click on Output Presets, and then click on the EPUB option.

<table>
<thead>
<tr>
<th><strong>EPUB option</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>The type of output you want to generate. To generate EPUB output, choose the EPUB option.</td>
</tr>
<tr>
<td>Setting Name</td>
<td>Give a descriptive name for the EPUB output settings you are creating. For example, you can specify <em>Internal customers output</em> or <em>End users output</em>.</td>
</tr>
<tr>
<td>Settings File</td>
<td>Specify the setting file (.sts) location in your AEM repository that should be used to generate the EPUB output.</td>
</tr>
</tbody>
</table>
CHAPTER 8

DITA

The DITA output format allows you to convert any unstructured FrameMaker (.fm or .book) document into a valid DITA type document. Currently, you can convert your unstructured FrameMaker documents into DITA topic type document. The following options are available for the DITA output:

NOTE: To open output presets for DITA, click on a FrameMaker (.fm or .book) file, then click on Output Presets, and then click on the DITA option.

### Create a .sts file for DITA conversion

To be able to successfully convert your unstructured FrameMaker files into DITA format, you should consider the following points while creating a .sts file in FrameMaker:

- In the Style Mapping dialog in FrameMaker, style that your map from your document to Heading 1 (or h1) is used to create the topic title.
- Subsequent headings such as heading 2 is mapped to the section heading.
- Heading beyond heading 2 are mapped to `required-cleanup` DITA element. You should clean up your DITA document and apply relevant DITA elements that are marked under `required-cleanup` element.
- You can choose to split your DITA documents on heading 1 or heading 2.
- You don’t need to explicitly map tables and images in your documents, they are automatically mapped to the correct DITA elements in the final output.
- Map numbered list style to HTML list.
To demonstrate this feature, we have used the `GeneralDescription.fm` file from the Samples folder in the FrameMaker install location. We will use this file to create a .sts file that will be used to convert the unstructured FrameMaker document into DITA topic type document.

1) **Open the `GeneralDescription.fm` file in FrameMaker (2017 release).**
2) **Open the Publish pod (File > Publish).**
3) **In the Publish pod, create a new Settings File.**

![Open Publish Pod](image)

4) **Switch to the Style Mapping tab, and open Paragraph Styles.**
5) **Map the paragraph styles as:**

<table>
<thead>
<tr>
<th>Source Style Mapping (Paragraph Style)</th>
<th>Destination Style Mapping (Output Style)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H0_Heading0</td>
<td>Heading 1</td>
</tr>
<tr>
<td>H1_Heading1</td>
<td>Heading 2 (also, select Split Into Topics Based on This Style)</td>
</tr>
<tr>
<td>H2_Heading2</td>
<td>Heading 3</td>
</tr>
<tr>
<td>H3_Heading3</td>
<td>Heading 4</td>
</tr>
</tbody>
</table>
Map any numbered style to Convert to HTML List.

6) Save and Close the Publish Settings dialog. If you are prompted to save the Settings.sts file, choose a location on your local disk to save the file.

7) Upload the Settings.sts file and the FrameMaker file on DAM.

8) Publish DITA output using the Settings.sts file you created.

Generate output for FrameMaker documents

NOTE: You must have FMPS to be able to publish FrameMaker documents. To configure FrameMaker Publishing Server, see ConfigureFrameMakerPublishingServer.
Perform the following steps to generate output for FrameMaker documents:

1) In the Assets console, navigate to and click on the .book or .fm file that you want to publish. 
   *The DITA map console appears showing the list of Output Presets available to generate output.*

2) Select one or multiple Output Presets that you want to use for generating the output.

3) Click the Generate icon to start the output generation process.

**NOTE:** You can view the current status of the output generation request by clicking on Outputs. For more information, see *View the status of the output generation task*.

**View the status of the output generation task**

Once you initiate the output generation task for a FrameMaker document, the XML Add-on sends this task to the output generation queue. This queue is updated in real time, showing the status of each output generation task in the queue.
Perform the following steps to view the output generation queue:

1) In the Assets console, navigate to and click FrameMaker document for which you want to check the output generation status.

2) Click Outputs.

3) The Outputs page is divided into two parts:
   
   - **Queued Outputs:**
     
     Lists the outputs that are either waiting to be generated or are under generation process. You can also find the output generation setting or preset used for the queued task, the type, user who initiated the task, time since when the task is queued, and the current status.

   - **Generated Outputs**
     
     Lists the output tasks that have been completed. Again, the information shown in this is similar to the Queued Outputs section, with the only difference of the output generation time.

     In this list, you could have tasks that have executed successfully or tasks that failed. For the tasks that have completed successfully, the publishing process creates a log file (logs.txt) that can be accessed by clicking the link in the Generated At column.
Reports

In an organizational setup, you want to verify the overall completeness of your technical documentation before you push the documents live. Such a need becomes even more essential in multi-user and large scale push live environments. XML Add-on provides a few reports that give a useful insight into the overall health of the content in your repository and how content is being used in the documentation process.

DITA Map Report

XML Add-on provides your administrators the reporting capabilities to check the overall integrity of the documentation before it is pushed live or made available to end users. DITA map report in XML Add-on provide valuable information such as the missing topics, topics with missing elements, and review and approval status of each topic. A detailed individual topic-level report also provides DITA content related information such as content references and missing images or cross-references.

NOTE: XML Add-on refreshes this report on every event that results in a change in your map file or when any reference within your topic file is updated.

Perform the following steps to view the DITA Map Report:

1) In the Assets console, navigate to and click on the DITA map file for which you want to view the report.
2) Click Reports.

The Reports page is divided into two parts:

- **Topic Summary:**
  Lists the overall summary of the selected map file. By looking at the Summary, you can quickly know the total number of topics in the map, missing topics, number of topics that have missing elements, topics are in draft, reviewed, or reviewed state.

- **Details:**
When you click on a topic, a detailed report of the selected topic is displayed.

**Topic**

The title of the topic specified in the DITA map.

**Author**

User who worked last on this topic.

**Document State**

The current state of the document - Draft, In-Review or Reviewed.

**Missing Elements**

Lists the number of missing images or broken cross-references, if any.

**Open in FrameMaker**

Clicking this icon opens the topic in FrameMaker.

**Open in Editor**

Clicking this icon opens the topic in web editor.

Items highlighted under **A**, **B**, and **C** are described below:

**Images**

Path of images used in the topic. If you click on the image path, the corresponding image is opened in a pop-up window. Broken image links are listed in red color.

**Content References**

Path of the content referred in the topic. If you click on the title of the referred content, the corresponding topic is opened in Preview mode.
Cross Reference
Path of the cross-referenced content. If you click on the title of the referred content, the corresponding topic is opened in Preview mode. Broken cross-references are listed in red color.

Review and Approval
Shows the status of the review or approval task of the topic. In case of a review task, you can see the status (open or close), due date, and assignee. In case of an approval task, you can see the status, resolution (approved or rejected), and assignee. In both cases, if you click the topic link, it opens the topic in review or approval mode.

Used In
Shows a list of other topics or maps where the topic is used.

Besides the report for each individual topic, administrators also have access to information such as publishing history of a DITA map. For more information about the history of generated outputs, see View the status of the output generation task.

Content Reuse Report
Another useful report that you can generate is the Content Reuse Report. This report calculates the average content usage percentage, which is very useful for project managers and business owners to see the amount of content that is being reused.

Perform the following steps to view the Content Reuse Report:
1) Click on the Adobe Experience Manager link at the top and choose Tools.
2) Select XML Documentation from the list of tools.
3) Click on the Content Reuse Report tile.
4) Click Browse to choose a path where your topics reside or enter the path manually.

The report is generated by scanning the content in the parent and all child folders.
5) Click Generate Report to get the Content Reuse Report.

The report page is divided into two parts:

- **Report Summary:**
  
  *Lists the Average Content Reuse, which is calculated as Content Reuse Instances/Total Topic Count. This report takes into account all first-level direct content references and topic references for calculation. The Content Reuse Instances is calculated as the sum total of values in the Number of Times Reused field. The topic that is most widely reused is also listed in the Report Summary. Clicking on the topic’s link in the Most Reused Topic opens the topic’s preview.*

- **Details:**
  
  *The Details section contains the following columns:*

  **Title**
  
  The title of the topic. Clicking on the title topic’s link opens the topic preview.

  **Size**
  
  Files size in bytes.

  **Status**
  
  The current state of the document - Draft, In-Review or Reviewed.

  **Number of Times Reused**
  
  Number of times the corresponding topic has been reused. This calculated as sum total of entries in Referenced By columns minus 1.
Referenced By

The topics in which the corresponding topic has been referenced. Here, only the direct (first-level) references are considered. Multiple topic are separated by comma. Clicking on the title topic’s link opens the topic preview.

NOTE: You can also export the Content Reuse Report in CSV format. To do so, click the Export to CSV link at the top left corner of the screen and choose a location to save the CSV file. You can then open this CSV file in any CSV editor.

Conversion Status Report

XML Add-on provides a robust conversion feature to convert documents of various formats into DITA. The Conversion Status Report provides a consolidated view of all conversion tasks executed by XML Add-on.

Perform the following steps to view the Conversion Status Report:

1) Click on the Adobe Experience Manager link at the top and choose Tools.
2) Select XML Documentation from the list of tools.
3) Click on the Conversion Status Report tile.

The Conversion Status Report is displayed for all conversion tasks executed on the system.

4) The report page is divided into two parts:
   – **Filter:**
     
     You can filter the report data on the basis of File Type and conversion Status. In the File Type, you can choose to see the report data for Word document, structured HTML, XML, and DocBook type of documents. In the Status, you can choose to see the report data for tasks that have executed Successfully, Failed, Active, or Queued.
The following screenshot displays the report data for conversion tasks that have Failed, Active, and Queued status.

- **Report data:**
  The report data contains the following columns:

- **File Name**
  Name of the source file on which the conversion process was executed. Clicking on the File Name link takes you to the source document location.

- **File Type**
  Type of the source document, which could be Word, structured HTML, XML, and DocBook.

- **Added By**
  Name of the user who executed the conversion task.

- **Date Added**
  Date on which the task was executed. Clicking on the Date Added link downloads the log file.

- **Path**
  Complete path of the source document.

- **Status**
  Status of the conversion tasks - Success, Failed, Active, or Queued.

- **Output**
  Path of the successfully converted document. Clicking on the Output link takes you to the location where the output is saved.