Using XML Documentation Add-on for Adobe Experience Manager 6.2
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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 an end-to-end, enterprise solution that enables Adobe Experience Manager (AEM) to have component content management solution (CCMS) capabilities for 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.

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 map review capability helps ensure that the documentation structure and topic flow can be 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.

**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.

**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 list of broken links and 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 6.2 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
- Firefox
- Safari 9
Download and install the XML Add-on

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

   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.
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

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.
Configure and customize

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 is 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>
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 PDF output. At the time of generating PDF output, simply select the DITA-OT option, and the XML Add-on uses the custom DITA-OT plug-in to generate the PDF output.

*NOTE: For a complete list of supported 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 and provide its location to the XML Add-on.

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 use custom DITA-OT plug-in stored on your local disk:

1) Store the custom DITA-OT plug-in ZIP file on your local system.
2) Open the Adobe Experience Manager Web Console Configuration page.
   
   NOTE: To access the Web Console, see Configure XML Add-on parameters.

3) Configure the following properties of the `com.adobe.fmdita.config.ConfigManager` bundle to use the custom DITA-OT plug-in:

   **Overwrite DITA-OT Package**
   Set this property to `False`.

   **DITA-OT Extract Path**
   Specify the path where DITA-OT is kept on the local disk.

You can configure additional properties related to DITA-OT through the Web Console. The following table lists configurable DITA-OT properties:

<table>
<thead>
<tr>
<th>Property name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DITA-OT Timeout</td>
<td><em>(Optional)</em> Specify the time (in seconds) for which the XML Add-on waits for a response from the DITA-OT plug-in. If no response is 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)*</td>
</tr>
<tr>
<td>DITA-OT PDF Arguments</td>
<td><em>(Optional)</em> Specify the custom command-line arguments that are processed by the custom DITA-OT plug-in for generating the PDF output.</td>
</tr>
</tbody>
</table>
### 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
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
${java.io.tmpdir}/fmdita/dita_ot
```

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

### 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 Path

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

### Overwrite DITA-OT Package

(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 this option is not selected, then DITA-OT package on the disk is not overwritten.

XML Add-on always uses the DITA-OT package from the disk that is kept at the path specified in the **DITA-OT Extract Path** configuration. By default, this path is set to `<AEM-Install>/crx-quickstart/ditaot`.

### DITA-OT 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.
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.

<table>
<thead>
<tr>
<th>Property name</th>
<th>Description</th>
</tr>
</thead>
</table>
| DITA-OT Temporary Path        | *(Optional)* Specify a temporary location where DITA files are copied for processing. Before DITA-OT processes files, they are copied at this temporary location. By default, the temporary storage location is: &lt;AEM-Install&gt;/crx-quickstart/ditamaps  

**NOTE:** You can define this path using any existing system variable or property. See description the DITA-OT Environment Variables property for more information. |

**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:
   
   /apps/fmdita/xmlleditor/templates
   
   XML Add-on stores the default templates in the above location.
3) Add your template file at the default template location.

   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/render-
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.

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

Perform the following steps 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) 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>Custom DTD Catalog XML</td>
<td>Specify the path of the custom DTD catalog.xml file in the AEM repository.</td>
</tr>
<tr>
<td>Custom XSD Catalog XML</td>
<td>Specify the path of the custom XSD catalog.xml file in the AEM repository.</td>
</tr>
</tbody>
</table>
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:
   /apps/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:

/apps/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.
Configure and customize

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:

```xml
<ditaelement>
  <name>title</name>
  <class>- topic/title</class>
  <componentpath>foundation/components/title</componentpath>
  <type>STANDALONE</type>
```
Configure and customize

• 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:

<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:

<ditaelement>
  <name>element_name</name>
  <class>element_class</class>
  <componentpath>fmdita/components/dita/component_name</componentpath>
  <type>COMPOSITE|STANDALONE</type>
</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><code>&lt;ditaelement&gt;</code></td>
<td>The top level node for each mapping element.</td>
</tr>
<tr>
<td><code>&lt;class&gt;</code></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><code>&lt;componentpath&gt;</code></td>
<td>The CRXDE path of the mapped AEM component.</td>
</tr>
<tr>
<td><code>&lt;type&gt;</code></td>
<td>Possible values:</td>
</tr>
<tr>
<td></td>
<td>• COMPOSITE: Process child elements as well</td>
</tr>
<tr>
<td></td>
<td>• STANDALONE: Skips processing of child elements</td>
</tr>
<tr>
<td><code>&lt;attributeprop&gt;</code></td>
<td>Used for mapping serialized DITA attributes and values to AEM nodes as property. For example, if you have <code>&lt;note type=&quot;Caution&quot;&gt;</code> element and the component that is mapped for this element has <code>&lt;attributeprop&gt;attr_t&lt;/attributeprop&gt;</code>, then the node’s attribute and value is serialized to <code>attr_t</code> property of the corresponding AEM node (<code>attr_t-&gt;type=&quot;caution&quot;</code>).</td>
</tr>
<tr>
<td><code>&lt;textprop&gt;propname_t&lt;/textprop&gt;</code></td>
<td>Save the <code>getTextContent()</code> output to property defined by <code>propname_t</code>.</td>
</tr>
<tr>
<td><code>&lt;xmlprop&gt;propname_x&lt;/xmlprop&gt;</code></td>
<td>Save serialized XML of this node to property defined by <code>propname_x</code>.</td>
</tr>
</tbody>
</table>
## Configure and customize

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;xpath&gt;</code></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>
| `<target>`     | Place for the DITA element in the crx repository at specified location. Possible values:  
  • head: Under the head node  
  • text: Under the paragraph node |
| `<wrapelement>`| The HTML element to wrap the contents within.                                                                                           |
| `<wrapclass>`  | The element value to the property wrapclass.                                                                                           |
| `<attributemap>`| Container node containing one or more `<attribute>` nodes.                                                                                |
| `<attribute from="attrname" to="propname" ispath="true|false" rel="source|target" />` | Maps the DITA attributes to AEM properties:  
  • from: DITA attribute name  
  • to: AEM component property name  
  • ispath: If the attribute is a path value (for example: image)  
  • rel: If the path is the source or target  

**NOTE:** If `attrname` starts with `%`, then map `attrname minus '%` to `prop` `propname`. |

### 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 create 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:

![AEM Site page screenshot](image)

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:
   `/apps/fmdita/config/templates/default`
3) Add the following properties:
The following screenshot shows the properties added in the default template node of XML Add-on:

![Screenshot of CRXDE Lite](image)

<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: <code>jcr:content/contentnode</code></td>
</tr>
<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: <code>jcr:content/headnode</code></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.
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).
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 collaboration environment in which SMEs can easily create DITA content using a browser-based DITA topic and map editor. The topic 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.

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 compo-
Manage DITA content

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. 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. Whenever you, as an author, initiate any workflow (like review or approval), the selected members of project would 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 > Create Project to launch the Create Project wizard.

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, the administrator is set as a user (owner) for a 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 - Owner, Observer, or Editor.
c) Click Add.

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.

**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. The XML Add-on also provides an easy-to-use DITA web-based editor for casual 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 editor**

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

Also, the topic 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 topic editor also allows you to work with the most commonly used paragraph and character elements.

**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:* The 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 has to be a proper file name without spaces and has to end with .xml.

   You can also leave the Name field blank. Doing so creates the file name on the basis of the topic title.

**View topic**

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

**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) Click on the topic you want to edit.

   The topic is displayed in the Asset console.
**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.

3) Click Edit to open the topic in XML Add-on web editor.

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

5) 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.

6) Once you have finished editing your document, click Save.

   If you want to save a new version of the topic, click Save Revision. The new revision can be accessed from the topic’s timeline.

   **NOTE:** If you do not wish to commit changes into AEM repository, click Close, and then click OK on the Confirm dialog. Clicking the Comments icon opens the Comments panel wherein you can view and post replies on the comments given on 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 topic editor. You can edit topic as you would do in any regular text editor.

**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.
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.

**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 uses simple drag-and-drop feature to add topics from your AEM repository. 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 you need to click the map file, select Topics from the DITA map console view, and then click Edit. Once the map file is open in edit mode, follow instructions from Step 5 onwards.

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

3) On the Create DITA Map page, enter a title and name for the map and click Create.

   The map file opens in the DITA map editor.

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

4) 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.

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

6) To add subsequent topics to the map, drag-and-drop the topic to the required location on the map.

7) You can perform the following tasks on the topics in the map:
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.

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.

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

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.

Group
Click the check box 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.

Delete
Click the check box to the left of a topic and click Delete in the toolbar to remove the selected topics from the map.

8) You can also use the following options in the toolbar to perform additional tasks on the map:

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

Validate
Check whether the map is valid or has errors.
**Default Mode/XML Mode**

In Default Mode, clicking a topic link opens the topic in web editor. In XML Mode, clicking anywhere in a topic row shows the underlying topic references within the topic.

9) 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.

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 section Working with files 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 elements’ attribute. For more information, see the section Searching in the AEM repository in FrameMaker User Guide.

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 and approval

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.

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 or a map reviewed.

Create a review task

To create a review task and send topics 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 the Select icon in the quick action and select the topics you want to send for review.

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

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. You can choose a single reviewer or multiple reviewers.

**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 been completed. You can also restart a closed review task from the Projects console, see Manage Reviews and Approvals for more information.

7) Click Create to initiate the review.

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

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 a DITA map for review

A DITA map is an organized list of topics. It represents the TOC of the project. During publishing, the topics in a project are aligned as per the sequence defined in the map.

You can send a map for review if you want the sequence of topics to be validated.

To send 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) Do one of the following:
   • Click the map that you want to send for review. Click Topics, and then click Create Review Task in the toolbar.
   • Select the map that you want to send for review. Click Create Review Task from the More drop-down list.

3) Enter the title for the task and select the 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 topic for review. You can choose a single reviewer or multiple reviewers.

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.
Review and approval

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 been completed.

6) 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 a map for review. The email contains a direct link that they can click and access the map in a browser window.

**Review topics or a map**

If you are included as a reviewer in a topic or a map 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 or map can be accessed in a browser.

2) Write review comments in the Comments panel and press Enter to submit the comments.

**Addition notes:**

- 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.

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

**Address review comments in 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.

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

After a topic review is complete, you can send the topics for approval. An online version of the topic is made available for approval. The Review Panel displays all the comments, responses, and annotations of the review cycle. The approver can then use these to decide if the topic should be approved or rejected. The XML Add-on review and approval workflow are only loosely coupled. This means that if a topic is sent for approval, it is not mandatory for it to go through the review workflow.

Create an approval task

To create an approval task and send topics for approval, perform the following steps:

1) Navigate to the required folder in the Assets console.
2) Select one or multiple topics that you want to send for approval.
3) In the toolbar, click Create Approval Task. The approval task creation page is displayed.

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 approver to whom you want to send the topic for approval.

NOTE: Approval 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 approver.

Select the due date and time to mark the deadline for approval.

7) Click Create to initiate the approval.

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

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

### Approve or reject topics

Perform the following steps to approve or reject topics:

1) Click the direct link given in the approve request email.

The topic can be accessed in a browser.

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

2) The right rail displays the list of current comments along with information such as status and replies to comments, if any.

You can review the comments and replies on the topic to decide if you need to approve or reject the topic.

**NOTE:** Turn History On or Off to show or hide the changes that have been done in the topic.

3) Click Approve or Reject.

You are prompted for a comment.

4) Enter a comment (or a reason for rejecting the topic) and click Approve or Reject.

An approve or reject notification (including the reason) is sent to the initiator.

### Manage Reviews and Approvals

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

1) On the Project console, click the project you are working on.
   
   A Project panel with job tiles is displayed.

2) Click the Tasks tile to enter the panel.
   
   **NOTE:** Click + sign on the Tasks tile to add a new task.

   A page showing the tasks, due date, assignee, and task status is displayed.

3) From the list of tasks, click the title of 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.
• For a completed review task, click Restart to restart the review process.

b) Perform the following under the CONTENT tab:
• Add more topics to the existing task. Click Add Assets and navigate to the required topic.
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.

Translate content for the first time

You can translate a DITA map, topic, or an entire folder. However, for easy organization and management of language copies, perform first time translation at a DITA map level than at topic level.

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 also check if there is already a source language copy that exists for your project. Perform the following steps:

1) In the Asset console, select the source project folder.

2) Open the Reference pane and click Language Copies under Copies.

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.

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, select the DITA map or the source folder.
2) Depending on your selection in Step 1, do one of the following:
   - If you selected 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: To enable 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.

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.

10) Navigate back to the DITA map file in the source language folder in Assets console. The re-translated topics are now in sync.
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. Also, you can generate output for FrameMaker documents, see Generate output for FrameMaker documents for more information. Once the output gets generated to your authoring instance of AEM, same can be easily pushed on to your production server using the AEM publishing workflows.

As a production specialist, 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
• 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:

• 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>AEM Site options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>The type of output you want to generate. To generate 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 Internal customers output or End users output.</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 Customize XML Add-on design template for generating output.</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 user-guide and the Destination Path as /content/output/framemaker, then the final output is generated under the /content/output/framemaker/user-guide node.</td>
</tr>
<tr>
<td>DITAVAL File</td>
<td>Select a DITAVAL file to generate personalized content.</td>
</tr>
<tr>
<td>Overwrite Existing Files</td>
<td>If selected, overwrite any existing file available in the Destination Path. <strong>NOTE:</strong> If you are publishing to an existing site, you must not select this option. Contact your site administrator if you are unsure about this option.</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 Internal customers output or End users output.</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>
## Output generation

### HTML5 options

<table>
<thead>
<tr>
<th>Description</th>
<th>Selection</th>
</tr>
</thead>
</table>
| Generate Responsive Using | Select a method that you want to use to create the HTML5. Choose from:  
- DITA-OT  
  When you choose this option, a new Clean DITA-OT Temporary Files option is displayed. For details about using custom DITA-OT plug-ins, see Use custom DITA-OT plug-ins.  
- FrameMaker Publishing Server  
  When you choose this option, a new FMPS Preset drop-down list is displayed. You must 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. |
| DITAVAL File | Select a DITAVAL file to generate personalized content.  
**NOTE:** The DITAVAL file option is not supported for output generated through FMPS. |
| Destination Path | The path within your AEM repository where the HTML5 output is stored. |
| Use High Resolution Images | Select this option to use the high-resolution images in the final output. If you do not select this option, the web version of the images is used in the published output from AEM repository. |
| FMPS Preset | Select a preset that you have created on the FMPS server to generate the PDF output. |
| Clean DITA-OT Temporary Files | 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. |

### EPUB

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>Description</th>
<th>Selection</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>
</tbody>
</table>
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>
</tbody>
</table>
Adding or removing output preset

Perform the following steps to add 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.
   A blank output preset creation form is displayed.
3) Enter the required details for the type of preset you want to create and click Done to save the preset settings.

Perform the following steps to delete a custom 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.

Generate output for a DITA map

*IMPORTANT:* During the publishing process, ensure that you do not modify the settings in the `com.adobe.fmdita.config.ConfigManager` bundle, else the publishing process will fail to terminate.
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.

   ```
   BUILD FAILED
   E:\AEM-CCMS-DITA\AEM6.1\crx-quickstart\ditamap\DITA-OT\build.xml:41: The following error occurred while executing this line:
   E:\AEM-CCMS-DITA\AEM6.1\crx-quickstart\ditamap\DITA-OT\plugins\org.dita.base\build_preprocess.s.xml:42: Failed to run pipeline: [DIT0012F][FATAL] Failed to parse the input file 'file://E:/AEM-CCMS-DITA/AEM6.1/crx-quickstart/ditamap/ditamap7231982760844238007/sequence.ditamap':
   file://E:/AEM-CCMS-DITA/AEM6.1/crx-quickstart/ditamap/ditamap7231982760844238007/sequence.ditamap line 277: 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.

```plaintext
clean-temp:
BUILD SUCCESSFUL
Total time: 18 seconds
javax.jcr.ItemStateException: OakState0001: Unresolved conflicts in
/content/output/sites/sequence_ditmap
  at
  org.apache.jackrabbit.oak.api.CommitFailedException.asRepositoryException(CommitFailedException.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) In the left rail, click Tools > Web Console.
   
   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.

### 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 template 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:

   /apps/fmdita/config/templates/

   ![Path to default design templates node](image)

   **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.
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>cqTemplate</td>
<td>Specify the location of the AEM page template, which is set as value of the cq:Template property on the jcr:content node of the published page. This AEM page template does not drive the child node hierarchy of the published page.</td>
</tr>
<tr>
<td>landingPageTemplate</td>
<td><em>(Optional)</em> Specify the location of the component that renders the landing page for your output. This page is created from the DITA map. If not specified, the landing page is not generated.</td>
</tr>
<tr>
<td>searchPageTemplate</td>
<td><em>(Optional)</em> Specify the location of the component that renders the search page for your output. If not specified, the search page is not generated.</td>
</tr>
<tr>
<td>title</td>
<td>A descriptive name of your design template.</td>
</tr>
<tr>
<td>topicPageTemplate</td>
<td>Specify the location of the component that renders the topic page for your output.</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>
<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>

*NOTE:* After creating a custom design template node, you must update the Design option in the AEM Site output presets to use the custom design template node.

**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**.
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

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

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 three formats - PDF, HTML5, and EPUB. 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>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><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 onscreen 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</td>
<td>Specify the width 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>
</tbody>
</table>
**Generate output for FrameMaker documents**

**PDF options**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Destination Path</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>HTML5 option</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 Internal customers output or End users output.</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>
</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>EPUB option</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>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>
<tr>
<td>Destination Path</td>
<td>The path within your AEM repository where the EPUB output is stored.</td>
</tr>
</tbody>
</table>
Generate output for FrameMaker documents

**NOTE:** You must have FMPS to be able to publish FrameMaker documents. To configure FrameMaker Publishing Server, see [Configure FrameMaker Publishing Server](#).

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.

   ![DITA map console](image)

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.
DITA map report

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 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 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.

Viewing the DITA map report

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:

- **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, number of topics that have missing elements, topics that have not been reviewed, or approved.
**Details:**

When you click on a topic, a detailed report of the selected topic is displayed.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Author</th>
<th>Reviewed</th>
<th>Approved</th>
<th>Missing Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configure and customize</td>
<td>admin</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Topic**

The title of the topic specified in the DITA map.

**Author**

User who worked last on this topic.

**Reviewed**

Signifies whether the topic has been reviewed or not.

**Approved**

Signifies whether the topic has been approved or not.

**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 D are described below:

**Images**
Path of images used in the topic. Broken image links are listed in red color.

**Content References**
Path of the content referred in the topic.

**Cross Reference**
Path of the cross-referenced content. 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.