

## Working With DITA Topic Maps

DITA (Darwin information typing architecture) is a topic-based XML framework used to author, manage, and publish our technical documentation. A DITA map is like a blueprint that tells Astoria how to assemble the topics into a document for which you can generate an output that you designate.

After you create specific topics needed for the technical document, complete the following high level tasks:

1. Create a new DITA topic map in the Astoria Workbench.
2. Add the title element to the DITA topic map.
3. Add topicmeta elements to the DITA topic map.
4. Add othermeta elements to the DITA topic map.
5. Add topicref elements to the DITA topic map.
6. Compose the output of the data sheet.
7. View the output of the data sheet.

## Creating New DITA Topic Maps

Each DITA topic map will contain the specific title, metadata, and topics for a document. The process of creating a map will create a ditatmap folder that contains the DITA map from which you will generate the output. You must use the Astoria Workbench to create a DITA topic map.

The following example illustrates the structure for the DITA map you will create for each document.

### map

**title:** title of the technical document that displays as the running heading of each page

### topicmeta

**shortdesc:** numbers associated with the technical document

**category:** the main title of the technical document

**othermeta:** watermark of Draft notice

**othermeta:** revision notice

**othermeta:** legal designation

**othermeta:** copyright date

**othermeta:** document ID

**othermeta (optional):** document-specific trademark notice

**othermeta:** table of contents

**topicref:** Features (topic-specific)

**topicref:** Descriptions (topic-specific)

**topicref:** Diagram (topic-specific)

**topicref:** General Description

**topicref:** Specifications (topic-specific)

**topicref:** Additional Specifications

**topicref:** Dimensions (topic-specific)

### *To create a new DITA topic map*

1. Open the Astoria Workbench.
2. Navigate to the folder structure of the data sheet for which you want to create a DITA topic map.
3. Right-click the top-level folder, and from the menu that displays, click **New > New Dita Map**. The New DITA Map dialog box displays.
4. Complete the following fields:
  - **Name:** Type the name that displays on the top-level folder.
  - **Description:** Type a brief description of the map.

- **DTD:** Click **Browse** and navigate to **Astoria Administration (cabinet) > DTDs (folder) > DITA 1.1 > map.dtd**.

**Note:** The Location field automatically displays the top-level target folder because you started the process from that folder. If you decide to locate the map in a different location, click **Browse**, and navigate to the desired folder in the repository.

5. Click **Ok**. The DITA map creates and displays under the specific root folder.
6. Save the map. The Save dialog box displays.
7. Complete one of the following steps:
  - If you want to check the DITA map into the repository, in the **Version Note** field, type a brief description of the changes that you made, select the **Check In** check box, and then click **Ok**. The map closes and is checked into the repository.

**Note:** If you have any XML errors, an error message displays, and the map will not check into the repository.

- If you want to just save the map without checking it into the repository, click **Ok**. The Save dialog box closes, and the changes are saved.

## Adding Title Elements to DITA Topic Maps

After you create the DITA map, the first element that you will add is the title element. In the generated document, this will add the title of the technical document to the heading that displays on each page of the technical document.

### *To add a title element to a DITA topic map*

1. In the **Document Structure** pane of the map editor, right-click the **map** element, and from the menu that displays, click **Add Child > title**. The title element displays as a child element of map.
2. Right-click the **title** element, and from the menu that displays, click **Add Child > #PCDATA**. The Element Details pane displays below the Document Structure pane.
3. In the **Element Details** pane, type the text that you want to display in the top-right heading position of the technical document.

**Note:** After you know how to add a title element, use the following steps, written in shorthand: Right-click **map** element > **Add Child > title > Right-click title element > Add Child > #PCDATA > Element Details** pane, type **title of the technical document**

## Adding Topicmeta Elements to DITA Topic Maps

After you add the title element, you need to add topicmeta elements, which will contain the information that will further define the technical document. These steps describe how to add the following elements to the map:

- **topicmeta:** main title of the technical document
- **shortdesc:** numbers associated with the technical document
- **category:** the main title under the heading

You must add the topicmeta elements in the correct sequence or the map will not validate when you check it into the repository.

### *To add a topicmeta element to a DITA topic map*

1. In the **Document Structure** pane of the map editor, right-click the **map** element, and from the menu that displays, click **Add Child > topicmeta**. The topicmeta element displays as a child element of map.
2. In the **Document Structure** pane of the map editor, right-click the **topicmeta** element, and from the menu that displays, click **Add Child > shortdesc**. The shortdesc element displays as a child element of topicmeta.
3. Right-click the **shortdesc** element, and from the menu that displays, click **Add Child > ph**. The ph element displays as a child element of shortdesc.

4. Right-click the **ph** element, and from the menu that displays, click **Add Child > #PCDATA**. The Element Details pane displays below the Document Structure pane.
5. In the **Element Details** pane, type the text for the number and configuration that you want to display in the main header of the first page.
6. Repeat Steps 2–5 as necessary for each number combination that you want to display.
7. Right-click the **topicmeta** element, and from the menu that displays, click **Add Child > category**. The category element displays as a child element of topicmeta.
8. Right-click the **category** element, and from the menu that displays, click **Add Child > #PCDATA**. The Element Details pane displays below the Document Structure pane.
9. In the **Element Details** pane, type the text for the main title of the technical document.

**Note:** For longer titles, it may be necessary to add a second line by repeating Steps 8–9.

10. Save the map. The Save dialog box displays.
11. Complete one of the following steps:
  - If you want to check the DITA map into the repository, in the **Version Note** field, type a brief description of the changes that you made, select the **Check In** check box, and then click **Ok**. The map closes and is checked into the repository.

**Note:** If you have any XML errors, an error message displays, and the map will not check into the repository.

- If you want to just save the map without checking it into the repository, click **Ok**. The Save dialog box closes, and the changes are saved.

**Note:** After you know how to add the topicmeta element, use the following steps written in shorthand:

- **shortdesc** - Right-click **topicmeta > Add Child > shortdesc > right-click shortdesc > Add Child > ph > right-click ph > Add child > #PCDATA > Element Details** pane > type **number and configurations**
- **category** - Right-click **topicmeta > Add Child > category > right-click category > Add Child > #PCDATA > Element Details** pane > type **main title of technical document**

## Adding Topicref Elements to DITA Topic Maps

The topicref element enables you to add individual topics to a DITA map. You must add the topicref elements in the order that you want the topics to display in the generated document.

### *To add a topicref element to a DITA topic map*

1. In the **Document Structure** pane of the map editor, right-click the **topicmeta** element, and from the menu that displays, click **Add Child > topicref**. The topicref element displays as a child element of map and is highlighted.
2. In the **Element Details** pane, click **Add Attribute**, and from the menu that displays, click **href**. The Edit Attribute Value dialog box displays.
3. On the **Edit Attribute Value** dialog box, click **Locate Topic**. The Select reference topic dialog box displays.
4. Navigate to the topic that you want to add to the map, and then select the topic. <select ID> displays in the ID field.
5. From the **ID** drop-down list, select the **document ID**. The document ID displays in the ID field.
6. Click **OK**. The Edit Attribute Value dialog box redisplay with the document URL in the Edit Attribute Value field.
7. Click **OK**. The Name Value fields display in the Element Details pane.
8. Repeat Steps 1–7 for each topic that you need to add to the DITA map.
9. Save the map. The Save dialog box displays.
10. Complete one of the following steps:
  - If you want to check the DITA map into the repository, in the **Version Note** field, type a brief description of the changes that you made, select the **Check In** check box, and then click **Ok**. The map closes and is checked into the repository.

**Note:** If you have any XML errors, an error message displays, and the map will not check into the repository.

- If you want to just save the map without checking it into the repository, click **Ok**. The Save dialog box closes, and the changes are saved.

**Note:** After you know how to add the topicref elements, use the following steps written in shorthand.

- Right-click **map** > **Add Child** > **topicref** > **Element Details** pane > **Add attribute** > **href** > **Locate Topic** > navigate to **Features** (topic-specific) > **OK** > **OK**
- Right-click **map** > **Add Child** > **topicref** > **Element Details** pane > **Add attribute** > **href** > **Locate Topic** > navigate to **Descriptions** (topic-specific) > **OK** > **OK**
- Right-click **map** > **Add Child** > **topicref** > **Element Details** pane > **Add attribute** > **href** > **Locate Topic** > navigate to **Diagram** (topic-specific) > **OK** > **OK**
- Right-click **map** > **Add Child** > **topicref** > **Element Details** pane > **Add attribute** > **href** > **Locate Topic** > navigate to **General Description** > **OK** > **OK**
- Right-click **map** > **Add Child** > **topicref** > **Element Details** pane > **Add attribute** > **href** > **Locate Topic** > navigate to **Specifications** (topic-specific) > **OK** > **OK**
- Right-click **map** > **Add Child** > **topicref** > **Element Details** pane > **Add attribute** > **href** > **Locate Topic** > navigate to **Additional Specifications** > **OK** > **OK**
- Right-click **map** > **Add Child** > **topicref** > **Element Details** pane > **Add attribute** > **href** > **Locate Topic** > navigate to **Dimensions** (topic-specific) > **OK** > **OK**

## Composing the Output of DITA Topic Maps

When you want to generate a viewable version of a document, you need to compose a viewable output. In most cases, you will generate a .pdf that you can then use to perform a hard copy review, save in the document repository, and then publish to the web. You can only compose output if you have created a valid DITA map for the document that you want to generate.

### *To compose the output of a DITA topic map*

1. Navigate to the folder that contains the DITA map that you want to generate.
2. Right-click on the name of the folder, and from the menu that displays, click **Compose Output**. The Compose Output dialog box displays.
3. From the **Type** drop-down list, select **PDF**.
4. From the **Store Results** drop-down list, select **In Docubase**. The folder navigation of the data sheet displays in the Location field. If you want to change the Docubase location where you want to store your generated document, browse to it by clicking **Browse** next to the Location field.
5. From the **Existing Files** drop-down list, verify that **Overwrite existing files in docubase** displays.
6. Select one of the following options to determine when you want to generate the document:
  - Click **Now** if you want to generate your document immediately. When you select now, the remaining options in the dialog box display grayed out.
  - Click **Future** if you want to generate your document at a future time. Complete the **Start Date/Time**, **Recurrence**, and **Repeat** fields as needed.
7. Click **OK**. The Compose Output dialog box displays, and your document will generate and display under the main data sheet folder. Documents generally take a few minutes to create, so you will need to refresh the Workbench to see when your document has completed.