

Publishing / Exporting

The Technical Documentation Framework provides the capability to export the contents of a Technical Document as XML, HTML, or PDF. This exported content can then support data exchange with customers, provide content for a website, or be the source for printed media. HTML and PDF versions can have their own independent styling, apply the styles used by the editor, or anything in between.

Important

The term 'Publishing' is used synonymously with 'Export' in this document.

The Technical Documentation Framework provides the ability to export / publish Technical Documents and is invoked via an Action assigned to the Technical Document. The export process executes on the server and provides the converted content to the user as a single file or a compressed file (zip file) containing multiple files. Once the data is exported, the exported content is no longer under the control of Aras Innovator. Managing versions of exported content is the responsibility of the end user.

The content included in an export is based on a selected Technical Document instance, a language (Section *Creating and Referencing External Content*), filters (Section *Processing Enter, Backspace, and Delete Keys*), linked documents (Section *Links*), referenced documents (Section *Groups*), graphics (Section *Item Document Elements*), and generated content (Section *Storing and Viewing Content in Separate Languages*). For the most part, any content displayed in the Editor can be included in an export.

Important

The Technical Documentation Framework uses specific styling and added visual indicators to support the editing process. Some of this styling is only used within the Content Viewer.

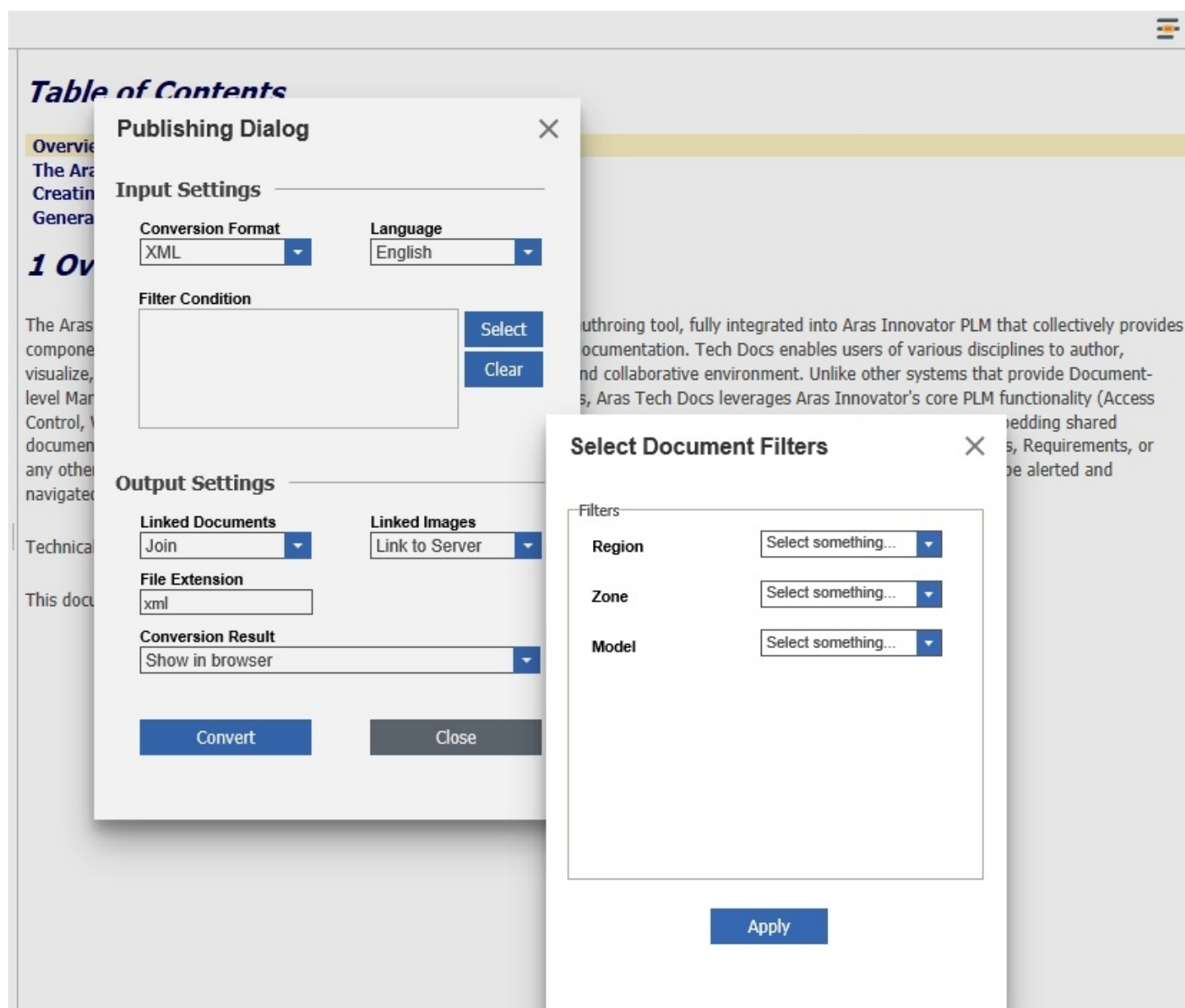
Exporting a Technical Document



To Export a Technical Document, select the 'Publish Document' Action from the Actions menu while a Technical Document is opened in the editor or when a Technical Document Item is selected in the search grid. Doing so will display the Publishing Dialog.

Important

It is important to save a Technical Document (if it is open in the Editor) before a document is published to update the server with the latest changes.



The Publishing / Export process executes on the server based on the input settings provided by the user and is initiated by selecting the **Convert** button in the Publishing dialog. During conversion the user is presented with a progress dialog that is displayed until the process has completed. The execution time varies with the size of the content to convert and the bandwidth/load on the network/server at the time. Once complete, the generated content is available to the user to either display within a browser window or download to store on the user's system.

Conversion Formats

The Publish/Export function supports conversion to XML, HTML, and PDF.

XML

The content of a Technical Document is stored natively as XML and based on the Document Type it was created with. The system adds to this XML to include specific markup, most of which is then removed in the export XML content. The markup that is exported with the data includes:

- <emph> tags surrounding all formatted text
- Metadata for table and list formatting
- URLs for images
- XML elements for each Technical Document content (Block)
- Unique ids for external referenced content (images, referenced documents, Business Objects, etc.)

XML data includes just the text-based content. Images (graphics) include a URL back to the Innovator vault server for the actual image file.

HTML

The content of a Technical Document is stored natively as XML and based on the Technical Document Type it was created with. To display this content within the Editor, and when this content is exported as HTML, each Document Element is mapped to a <div> HTML tag with a class name equal to the name of the Document Element. In this way, document style rules (CSS) can target the specific elements in the HTML. All formatted text is surrounded by a tag with a class name 'emph'. In addition, all style rules are included with the generated HTML within the 'Head' portion of the HTML document. All Table Document Elements are converted to <table> HTML elements and all



List Document Elements are converted to or HTML elements based on the List configuration (see Section *Lists*). Finally, all style (CSS) is included with the HTML content.

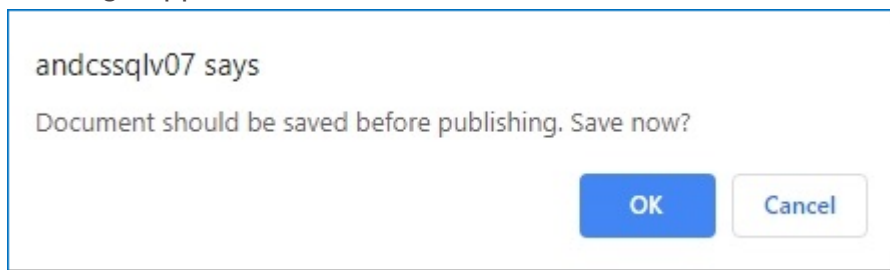
PDF

To generate PDF content, a Technical Document is first converted to HTML and then to PDF using separate server-side utility. All style rules that can be applied to HTML can also be applied to the PDF content. However, PDF is a page-based media, and all PDF content is converted to a specific page size. The following additional style rules can be applied for PDF exports:

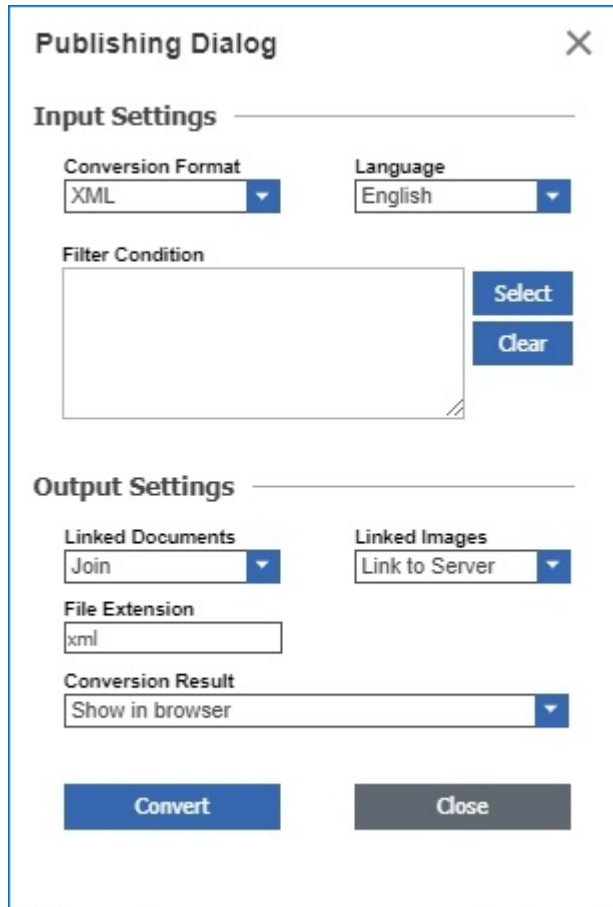
- Page numbers
- Page headers and footers
- Page margins
- Table of Content generation
- PDF Metadata

Use the following procedure to publish your document to PDF.

1. Select **Actions>Publish Document**. If you have not saved the document, the following message appears:



2. Click **OK**. The Publishing dialog box appears.



Publishing Dialog [X]

Input Settings

Conversion Format: XML [v]
 Language: English [v]

Filter Condition

 [Select] [Clear]

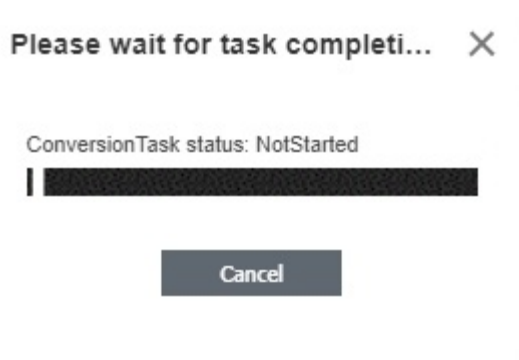
Output Settings

Linked Documents: Join [v]
 Linked Images: Link to Server [v]

File Extension: xml
 Conversion Result: Show in browser [v]

[Convert] [Close]

3. Select **PDF** from the Conversion Format dropdown list. The File Extension value changes accordingly.
4. Click **Convert** to start the conversion process. The following message appears when the conversion process starts:



Please wait for task completi... [X]

ConversionTask status: NotStarted

[Progress Bar]

[Cancel]

When the conversion is complete, the document appears in a separate window:





Latest News From E3 2018

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1 Why CD Projekt Red's Cyberpunk 2077 Had To Be A First-Person RPG

At E3 2018, Cyberpunk 2077 was easily the most talked about game of the show. With the reveal of a new trailer at the Microsoft Press Conference, showing off many of the vibrant and equally grim locales in the game, the developers at CD Projekt Red have gradually painted a clearer picture of their highly anticipated RPG. We had the chance to check out a private demo, and saw just how ambitious and impressive the world of Cyberpunk 2077 is. Based on the original Cyberpunk 2020 pen and paper RPG, its creator Mike Pondsmith has been a regular collaborator with CD Projekt Red on the new game, which he states has been an amazing experience. During E3 2018, we were able to talk with the creator about the development of the game, his work with the Witcher devs, and just how much effort goes into bringing Cyberpunk 2077 to life. For more info on CD Projekt Red's Cyberpunk 2077, and all other games we saw during E3 2018, be sure to visit GameSpot's E3 Hub page.

The entries in the Table of Contents are links to the different sections that enable you to navigate through the document. Section and page numbers appear in the Table of Contents.

Style Settings

For HTML and PDF output formats, and when multiple Output Settings are configured, the user has the ability to select one of the Output Style Settings when publishing. This capability allows a user to publish the same Technical Document with different styles/configuration based on a choice made in the Publishing Dialog.



Output Settings			
Output Type	Name	Document Classification	Stylesheet [...]
Editor	Editor Settings		Standard Style Settings
Html	HTML Settings		HTML Style Settings
PDF	PDF Settings Confidential		PDF Style Settings Conf.
PDF	PDF Settings Public		PDF Style Settings Pub.

Publishing Dialog

Input Settings

Conversion Format

PDF

Language

English

Style Settings

PDF Settings Confidential

Filter Condition

Select

Clear

Output Settings

Linked Documents

Join

Linked Images

Link to Server

File Extension

pdf

Conversion Result

Show in browser

Convert

Close

The **Style Settings** form field will be enabled, and the drop-down list populated, whenever there has been more than one Output Setting configured by the Administrator for the selected **Conversion Format**. In these cases, the initial/default selection is based on the order of the Output Settings configured for the Document Type. Selecting the drop-down list will expose all other Output Settings. Selecting a specific Style Setting will result in the selected Output Setting to be applied during the publish operation. If there is only one, it will be selected by default and the Style Settings drop-down will be disabled.

Language

The **Language** combo-box list shows each of the languages configured within Innovator. Select the appropriate language to include in the export. Note that the language currently selected may not be the language displayed in the Editor.

Filters

Filters can be applied the same way they are in the editor (see Section 3.3) with the same result on the content included. Note that content filtered out will be excluded from the exported content. To apply Filters, select the **Create** button next to the Filter Condition edit box in the Publishing dialog.

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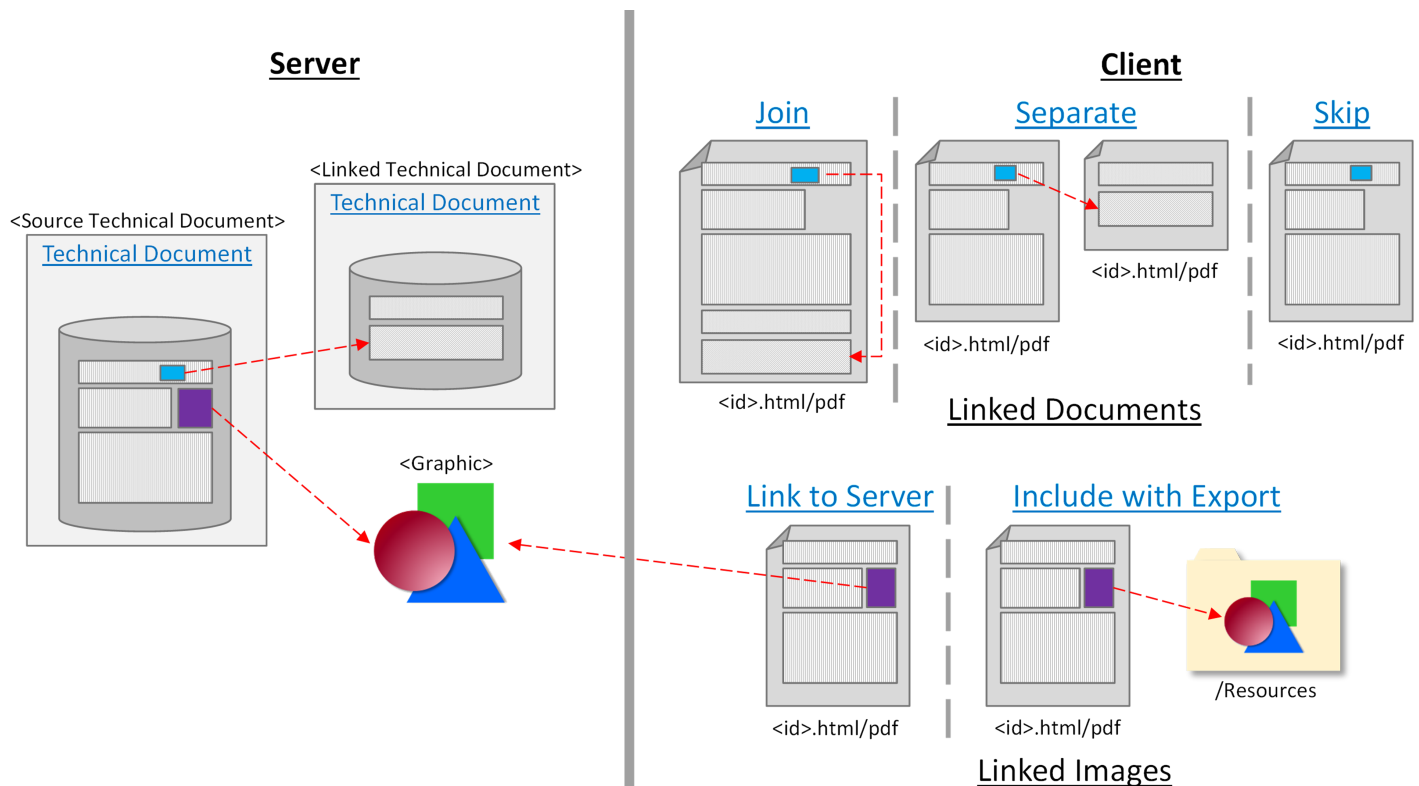
Select the Filters to apply and select **Apply**. The selected Filters will be displayed in the Filter Condition edit box.

File Extension

A default file extension is created based on the Conversion Format chosen. Users can overwrite this value if needed and the extension string is used for all non-image files created by the export process.

Linked Content

Linked content refers to Technical Documents that are the target of a Link (see Section 3.2.6). When exporting, the user has the option to include linked content or ignore it. When including linked content, the user can choose to either embed the linked data at the end of the exported content or create a separate document and link to it. Image in the *Item Document Elements* describes the resulting files that get created when a Technical Document that has a linked Technical Document and a Graphic included is exported.



Linked Documents



Linked Documents refer to the Technical Document instances that include a Document Element that is the target of a link that exists in a separate, source document. When exporting, the following options are available:

- **Join:** The default. The content of the Technical Document that includes the linked Document Element is appended to the source document and the link is updated to *point* to the internal location.
- **Separate:** A separate document is created, and the link is update to *point* to the generated file.
- **Skip:** The content of the linked document is not included in the export.

Linked Images

Linked images refer to any graphic that is included in a Technical Document. Image files are stored in the Innovator vault and accessible via URL to the vault server. When exporting, the following options are available:

- **Link to Server:** The default. A URL to the vault server is included as the 'src' location of the image. Generated files refer to the innovator server for the image content.
- **Include with Export:** All referenced image files are included with the export and stored in a generated sub-directory – '/Resources'. Image files are named using their ID followed by the appropriate file extension. The 'src' location of the image is updated to point to the relative path and file.

Conversion Result

Users can either view the converted results in a browser window or download and save the converted data locally on the user's file system. Note that when the user chooses to *Separate* linked documents and/or *Include* linked graphics the downloaded file will be a zip archive file containing all of the relevant related files that have been created.

Important

All converted data is created and stored temporarily as Files in Aras Innovator. Eventually, these files will be removed in the process of normal garbage collection.

Viewing Converted Data in the Browser



To view converted data in a browser window, select **Show in browser** from the Conversion Result combo-box list. After the conversion process has completed, a separate browser window will be opened to display the converted data. In this case, the converted data is left on the server and the browser displays it.

Downloading Converted Files

To download and save converted content, select **Save into file** from the Conversion Result combo-box list. After the conversion process has completed, the user will be prompted to identify the location to save the converted results.

