Oracle® Fusion Middleware

Oracle WebCenter Forms Recognition Tools Guide

12c Release 1 (12.2.1.4.0)

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Documentation for the WebCenter Forms Recognition Tools.

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Contents

1 Page Designer

Page Designer provides an overview of the zones defined for each class and the recognition engines. This tool enables you to review reading zones for OCR, OMR, and Barcode recognition, and it lets you experiment with the zone properties.

Note: Use this tool for testing purposes only. Never save any changes as doing so might corrupt the project.

1.1 Page Designer User Interface

Inside the Page Designer User Interface, the left pane displays the classes, their zones, and the used engines and the right pane displays the images.

1.2 Load an Image

To load an image, complete the following steps:

1. Click **File** > **Open Image**.
2. In the **Select Image file** dialog box, browse to the required directory, select a file and then click **Open**.
3. Optional. Use the buttons on the toolbar to adjust the view to your needs.

1.3 Load an Image List

To load an image list, complete the following steps:

1. Click **File > Open Image List**.
2. In the **Select Image List** dialog box, under **Imagepath Settings**, complete the following substeps:
    a. Browse to the required directory.
    b. Select the file type.
3. Complete one of the following substeps:
    a. From the **Available images** list, select the images you want to load and then click **Add**.
    b. To load all images listed in the **Available images** list, click **Add all**.
4. Click **OK.**
5. Optional. Use the buttons on the toolbar to adjust the view to your needs.

1.4 Create a Project

Do not create projects with Page Designer; this function is no longer in use.

1.5 Load a Project

To load a project, complete the following steps.

1. Click **File > Load Project**.
2. In the **Load project file** dialog box, browse to the required directory.
3. From the **File Type** list, select **WebCenter Forms Recognition Project File (*.sdp)**.
4. Select the project and then click **Open**.

1.6 About Version Control

The Page Designer version control feature is no longer in use.

1.7 Display information about the Image

To display path, resolution, size, bits per pixel, and color of the image, go to **Image > Image Info**.

1.8 About Reading Zones

See *About reading zones* and *About the Zone Analysis Engine* in the *WebCenter Forms Recognition Designer Guide*.

1.8.1 Create a Reading Zone

To create a reading zone, complete the following steps:

Note: Always apply any modifications in Designer not in Page Designer.

1. Complete the following options as needed:
    a. To create an OCR reading zone, click the **Insert OCR zone** button.
    b. To create an OMR reading zone, click the **Insert OMR zone** button.
    c. To create a bar code reading zone, click the **Insert barcode zone** button.
2. On the document, drag to mark the required zone.

    Note: The zone must be large enough to hold the expected content, but not much larger.

1.8.2 Adjust a Reading Zone

To adjust a reading zone, complete any of the following steps:

1. Drag the zone to another place.
2. Resize the zone by dragging the corner handles.
3. To adjust the zone size to the size of the entire page, right-click the zone and then click **Fit to image size**.
4. To delete a zone, select the zone and then press **[Del]**.

1.8.3 Modify the Zone Properties

To modify the zone properties, complete the following steps.

1. In the image pane, right-click a zone and then click **Properties**.
2. In the **Zone Properties** dialog box, modify the settings.

Note:	See *Zone-level recognition settings* in the *WebCenter Forms Recognition Designer Guide* for more information.

1.9 About Anchors

See *About anchors* in the *WebCenter Forms Recognition Designer Guide* for more information.

1.9.1 Create an Anchor

To create an anchor, complete the following steps:

1. Click the **Anchor** button.
2. On the document, drag to mark the anchor zone.

Note:	Ensure that the anchor zone is proportional to the geometric feature that you want to locate. For example, if all the documents in your class contain a 50 mm line in the footer area, your anchor should not have a side length of 5 or 250 mm. The anchor position should be close to the geometric feature you want to use.

3. Optional. To create more anchors, repeat the previous steps.

1.9.2 Modify the Anchor Properties

To modify the anchor properties, complete the following steps:

1. In the image pane, right-click the anchor and then click **Properties**.
2. In the **Anchor Properties** dialog box, modify the properties.

Note:	See *Modify the anchor properties* in the *WebCenter Forms Recognition Designer Guide*.

1.10 Read a Zone

To read a zone, complete the following steps:

1. Browse to the required image.
2. On the image, select a zone.
3. Click the **Read active zone** button.
4. In the **Zone** dialog box, observe the result.

1.11 Read All Zones on an Image

To read all zones on an image, complete the following steps.

1. Browse to the required image.
2. Click the **Read all zones** button.
3. In the **Recognition Result** dialog box, observe the result.

1.12 Read all Zones on all Images

To read all zones on all images, complete the following steps:

1. Click the **Read zones at all images** button.
2. In the **Recognition Result all** dialog box, observe the result.
3. Optional. To save the result in a text file, complete the following sub-steps:
    a. Click **Save**.
    b. In the **Save Textfile** dialog box, in the **File name** field, type a name and then click **Save**.

2 Workdoc Browser

2.1 About Workdoc Browser

Workdoc Browser enables you to review the workdoc data gained during processing, such as the found words and text blocks, the content of fields and their properties. This may help you to investigate errors, OCR problems, or to examine properties you want to use in scripting.

Furthermore, you can review the whole structure of the documents storage base such as batches, folders, and workdocs. You can operate the batches of documents by filtering and sorting them. You can also create copies of the documents or batches of documents. It can be especially helpful, for example, in reviewing or reproducing issues in the document processing results.

2.2 Workdoc Browser User Interface

The user interface provides the following panes:

- The upper left pane displays the directories on the file system or the jobs and batches from the database, depending on the selected view.
- The lower left pane displays the workdocs of the selected batch.
- The middle pane displays the selected workdoc.
- The attributes pane displays the pages, words, text blocks, and text lines as well as several other attributes.
- The properties pane displays the properties of the selected attribute.

2.3 Configure the Database Connection

To configure the database connection, complete the following steps:

1. From the `[Installation path]\Bin\bin` directory, open **DstWkBrw.exe.config** in a text editor.
2. Complete one of the following actions:

Case	Steps
Configure the connection to an Oracle Database	▪ Set Data Source to the data source. ▪ Set User ID to the service account user ID. ▪ Set Password to the service account password.
Configure the connection to a SQL Server Database	▪ Set Data Source to the data source. ▪ Set Initial Catalog to the SQL Server database catalog. ▪ Set User ID to the SQL Server user ID. ▪ Set Password to the SQL Server password.

3. Save and close the file.

2.4 Open a Workdoc from the File System

To open a workdoc from the file system, complete the following steps:

1. On the toolbar, click the **File System View** button.

2. In the upper left pane, browse to the required directory.
3. In the lower left pane, select the required workdoc.
4. Optional. In the middle pane, use the buttons on the toolbar to adjust the view to your needs.

2.5 Open a Workdoc from the Database

To open a workdoc from the file system, complete the following steps:

1. On the toolbar, click the **Database View** button.
2. If the Login dialog appears, type your user name and password and then click **OK**.

Note: The user must be available in the WebCenter Forms Recognition database.

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3. In the upper left pane, expand the required job and then select a batch.
4. In the lower left pane, select the required workdoc.
5. Optional. In the middle pane, use the buttons on the toolbar to adjust the view to your needs.

2.6 Copy a Batch to the File System

To copy a batch to the file system, complete the following steps:

1. On the toolbar, click the **Database View** button.
2. If the **Login** dialog appears, type your user name and password and then click **OK**.

Note: The user must be available in the WebCenter Forms Recognition database.

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3. In the upper left pane, right-click a batch and then click **Copy Batch To File System**.
4. In the **Select Folder** dialog box, type or browse to the required directory and then click **OK**.

2.7 Copy a Batch to a Database

To copy a batch to a database, complete the following steps:

1. On the toolbar, click the **Database View** button.
2. If the Login dialog appears, type your user name and password and then click **OK**.

Note: The user must be available in the WebCenter Forms Recognition database.

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3. In the upper left pane, right-click a batch and then click **Copy Batch to Database**.
4. In the **Select The Target Database** dialog box, select a database and then click **OK**.

The batch is copied to a job with the same name. A job is created if it does not exist in the target database already. If the batch is copied within the same database, a duplicate batch named `[OriginalBatchName]_[ConsecutiveNumber`*]* within the same job is created.

5. On the **View** menu, click **Refresh**.

2.8 Copy a Document to the File System

To copy a workdoc WDC file and its associated documents to the file system, complete the following steps:

1. On the toolbar, click the **Database View** button.
2. If the Login dialog appears, type your user name and password and then click **OK**.

Note: The user must be available in the WebCenter Forms Recognition database.

3. In the lower left pane, right-click a document and then click **Copy Document to File System**.
4. In the **WebCenter Forms Recognition Workdoc Browser - Save Workdoc** dialog box, type or browse to the required directory and then click **OK**.

2.9 Filter and Sort the Batches

To filter and sort the batches, complete the following steps:

Note: This function is only available in the Database View.

1. On the toolbar, click the **Filtering** button.
2. In the **Batch Filtering & Sorting** dialog box, in the **Batch Filtering** field, type a `WHERE` condition.

Note: See *Batch filter conditions using column names* in the *WebCenter Forms Recognition Runtime Server Guide*.

3. Optional. In the **Batch Sorting** field, type the field you want to sort by and then click **Request**.

2.10 Export Filtered Batches

To export filtered batches, complete the following steps:

1. In the upper left pane, right-click the job and then click **Export All Filtered Batches**.
2. In the **Select The Target Database** dialog box, select a database and then click **OK**.

2.11 Examine the Attributes and Properties

The attribute pane displays the attributes of the current workdoc. Complete any of the following steps:

- To expand an entry that displays the book symbol to its left, double-click the entry, and then select any of the subordinate entries to display its properties.
- To highlight the found words, text blocks, or text lines, select the corresponding entry.

2.12 The Attributes Pane

The attributes pane displays the following information.

Attribute	Description
DocFiles	The number of images contained in the workdoc displays in brackets. The subordinate entries display path and file name of the TIF file. Select an entry to display the image in the document pane.
Pages	The number of pages of the workdoc displays in brackets. The subordinate entries list the page indexes and their properties. Select an entry to display the page in the document pane.
Words	The number of words found during OCR displays in brackets. Select this attribute to highlight all words on the document. The subordinate entries list all words found on the document. Select an entry to highlight the word on the document and to display its properties.
TextBlocks	The number of blocks displays in brackets. Select this attribute to highlight all blocks on the document. During OCR, the found words that have a geometrical relationship are assigned to blocks, for example the vendor address on an invoice. The subordinate entries list all text blocks found on the document. Select an entry to highlight the text block on the document and to display its properties.
TextLines	The number of lines found by the Brainware line extraction or the Advanced line extraction displays in brackets. Select this attribute to highlight all lines on the document. During OCR, the words that are geometrically on the same line are assigned to text lines. The subordinate entries list all text lines found on the document. Select an entry to highlight the text line on the document and to display its properties.
Fields	The number of fields displays in brackets. The subordinate entries list all fields defined in the assigned class. Select an entry to display its properties. In the properties pane, select a candidate to highlight the candidate on the document.
DocClassName	Name of the assigned class.
BlockCount	Number of text blocks.
DisplayPage	Index of the currently displayed page.
DocState	Current state of the document within the workflow. See *CDRDocState* in the *WebCenter Forms Recognition Scripting Guide*.
ErrorDescription	Description of the error or blank if none occurred.
FileName	File name of the workdoc.
Folder	Folder name.

FolderIndex	Index of the folder.
Language	Language activated for the workdoc.
Showtooltips	**True**: Display tool tips when the user moves the pointer over the workdoc. **False**: Do not display tool tips when the user moves the pointer over the workdoc.
TextLineCount	Number of lines.
VersionCount	Number of versions.
WordSegmentationChars	Characters that indicate the end of a word and the beginning of a new one.

3 Merge SLW Learnsets Tool

3.1 About the Merge SLW Learnsets Tool

An administrator who supports a highly distributed system of different workstations may be required to maintain a high number of separate knowledge bases, created at different locations, at different times. Thus in some cases it might be required to merge the learnsets (created in context of the same production global SLW project) from different project files, to be able to provide some additional considerations.

Use this tool to quickly merge multiple SLW sub-projects, overtaking the “SLW knowledge” without using the learnset manager tool. The Merge SLW Learnsets tool enables you, for example, to quickly correct corresponding configuration errors related to “disconnected” local Advanced Verifier workstations.

The tool works only with Supervised Learning Workflow (SLW) projects, which are the instances of the same master (global) SLW project. In this connection, only the SLW vendor classes can be populated and/or updated through this tool. The tool cannot update classes if the project contains any classes that are not created automatically by SLW.

3.2 Merge SLW Learnsets

To merge SLW learnsets, complete the following steps:

1. From the **Windows Start** menu, launch the **Merge SLW Learnsets tool**.
2. In the **Source Project** field, type or browse to the source project.
3. In the **Target Project** field, type or browse to the target project.
4. To discover and analyze the structures, click **Scan Projects**.
5. In the **Copy** column, select the classes you want to merge.
6. To merge the learnset into the target project, click **Merge**.

Note: The Merge button is only active if the tool finds learnsets that can be merged.

3.3 About the SLW Export Local Project Tool

Use this tool to create local project templates to be used by Advanced Verifier workstations from your global project to provide the Supervised Learning content for the local projects.

The tool automatically analyzes and creates the corresponding learnset directories and learnsets and saves them with the new project.

3.4 Use the SLW Export Local Project tool

To create a new local project from an existing global one, keeping either the entire settings of your base class, or learnset and the script, complete the following steps:

1. From the **Windows Start** menu, launch the **SLW Export Local Project Tool**.

2. Click **Load Project**.
3. In the **Export Local Project** dialog box, select a global project and then click **Open**.
4. Optional. To save the entire export project configuration as a part of the global project's stream, click **Save Project**.
5. Click **Export Project**.
6. In the **Export Project** dialog box, select the classes' learnsets, and scripts you want to export and then click **Export**.

Note: The project is marked with P, base classes are marked with B, and sub-classes are marked with S.

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7. In the **Export Local Project** dialog box, type a name for the new project and then click **Save**.