

## **Oracle® Fusion Middleware**

WebCenter Forms Recognition Release  
Notes

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Notes

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## Oracle WebCenter Forms Recognition 14.1.1.1.0

This document contains information about the 14.1.1.1 release of Oracle WebCenter Forms Recognition. Read all information in this document before you update your installation.

### New Features

This release provides the following new features.

#### Platforms

- WebCenter Forms Recognition now supports Oracle Database 19c.
- WebCenter Forms Recognition now supports Windows Server 2019
- WebCenter Forms Recognition now supports Microsoft SQL Server 2019

#### Verifier

- Verifier now provides the ability to classify or reclassify a document in the Document List view. For more information refer to *Classify or Reclassify a Document in the WebCenter Forms Recognition Verifier Guide*.

#### Logging

- WFR now provides the ability to configure the logging level, location, and retention time for application log files. For more information, see "About logging" in the WebCenter Forms Recognition Installation Guide.

#### Project Merge Tool

- The new Project Merge Tool (PMT) allows multiple users to work independently on separate copies of a project file. Users can then merge project objects, such as classes, into one project. For more information, see the WebCenter Forms Recognition Tools Guide.

#### Designer

- This version introduces the new **FineReader11 Barcode** engine, which recognizes various bar codes including **QR code**.

For a list of supported bar codes, see "Supported Bar Codes" in the *Oracle WebCenter Forms Recognition AP Project Technical Specifications Guide*.

For more information, see "Recognition techniques and engines - FineReader Barcode Engine" in the *Oracle WebCenter Forms Recognition Designer User's Guide*.

#### XML Export

- The *Components\Tools* directory now contains an XML schema file named *Workdoc.xsd*, which you can use to validate exported XML files.

For more information, see *Export to XML* in the *Oracle WebCenter Forms Recognition Runtime Server User's Guide* and *ExportDocumentToXml* in the *Oracle WebCenter Forms Recognition Scripting User's Guide*.

## Enhancements

This release provides the following enhancements.

### PDF Export

- By default, WFR now exports PDF files in PDF/A-2B format. To enable the export in PDF 1.7 format instead, the new named property `ExportPdfVersion` was introduced to be used in scripts. For more information, see *ExportPdfVersion* in the *WebCenter Forms Recognition Scripting Guide*.

### PDF Processing

- The default binarization algorithm for image PDF files has been modified to improve binarization results.

### Designer, Verifier, Project Merge Tool, RTS and Web Verifier

- Verifier users no longer need local system admin access.
- Minimum password complexity rules are now enforced.

The minimum character length for a password is now 7. The password must include both alpha and numeric characters.

- If a user logs on to Designer, Verifier, or Project Merge Tool with a password that does not meet the minimum complexity rules, the user is provided with the **Change Password** dialog. After changing the password, the user is redirected to the login dialog.
- If a user logs on to Web Verifier with a password that does not meet the minimum complexity rules, the user is provided with the **Change Password** dialog when first accessing the database. After changing the password, the user will remain logged in.

The **Remember password** feature is no longer taken into account.

- Resolved an issue where Runtime Server may have stopped working sporadically when performing classification with Threshold and / or Distance set to 0.

### Database Update Scripts for Oracle and SQL Server

- The database upgrade scripts have been updated so that no manual modification is needed before execution. For more information, see *Update the SQL Server Database Schema* or *Update the Oracle Database Schema* in the *Oracle WebCenter Forms Recognition Update Guide*.

### Security

- To improve authentication security, two new hashing algorithms based on SHA-256 and SHA-512, have replaced the previous algorithm based on MD-5.

Note: The database update script defaults the hashing algorithm to SHA-256. Existing MD-5 hashed credentials stored in the database are rehashed using a SHA-256 based algorithm. For more information, see *About password encryption* in the *Oracle WebCenter Forms Recognition Installation Guide*.

Note: The hashing algorithms in WFR 12.2.1.4 BP1 #5923 is not compatible with Solution Configuration Manager 1.2.

- Support for RSA key length 3072 has been introduced to improve the security of encrypted passwords used for database connection strings. While RSA-1024 encryption is still supported, RSA-3072 is now the default and recommended encryption method. For more information, see *Encrypt a password for a database connection string* in the *Oracle WebCenter Forms Recognition Installation Guide*, and *Password encryption for database connection strings* in the *Oracle WebCenter Forms Recognition Scripting Guide*.

## Fixed Defects

This release includes the following fixed defects.

### WebCenter Forms Recognition

- Resolved an error that appeared when instantiating an image if the expanded `Path` environment variable exceeded 4097 characters in length. The limit has been expanded to 8192 characters.
- Resolved an issue where no user could retrieve the batch list in any application after importing a script-based user with a blank username.
- Resolved an issue where Verifier may have stopped working sporadically on specific builds of Windows 10.

### Verifier

- Resolved an issue where the Administrator user could not log on to Verifier after the default Administrator password was changed from blank to a string.

### Web Verifier

- The time required to load a project on starting Web Verifier is considerably reduced.
- It was not possible to change the password in Web Verifier if either the old or new password included either a colon ( : ) or a semicolon ( ; ). This issue has been resolved.
- Resolved an issue where the **Verify next invalid batch** option in the **Batch Release** did not work properly when applied to a subsequent batch.
- Resolved an issue where the user preference selected after completing the validation of a batch was not applied to subsequent batches.
- Resolved an issue where the text box focus was set incorrectly.
- Resolved an issue where the user could not click the OK and Cancel buttons in the dialog box because of lengthy button text which overlapped on the button areas.
- Resolved an issue where the user had to click the Cancel button twice to close the dialog box because validations for multiple fields was erroneously triggered.
- Resolved an issue where all Web Verifier users experienced the error Request timed out and were unable to use Web Verifier.

### Runtime Server / System Monitoring

- Resolved an issue where the **System Monitoring** service did not display events logged to the `M_*.log` file.
- Resolved an issue where the region specified for the Subsequent page was applied to the First page of any document with 2 or more pages.

This issue occurred when the Format Analysis Engine page restriction was active for the

Subsequent page, but not for the First page.

When both the First page and Subsequent page options were active, the correct regions were applied.

- Resolved an issue where Runtime Server stopped working when the Format Analysis Engine settings included the string "%n".

This happened in all of the following cases.

- The string was entered as a Format String (for any available Compare Method) or as a Prefix, Suffix or Ignore Characters.
- Any string which contained '%' and 'n' separated by 0 or more digits, such as %n, 2%1n0, or %1234567890n.
- The strings appeared in separate, subsequent settings, for example, if two subsequent Format Strings were '%123' and '456n'

## PDF Processing

- Resolved an issue where most decimal points were lost when PDF documents were imported as type CIDoc and converted to TIF G4.
- Resolved an issue where the '1' character was sometimes removed while importing and OCRing a PDF file.
- Resolved an issue where, under certain circumstances, a logo was not displayed in the binarized image after importing a PDF file.

## Designer

- Resolved an issue where, after deleting a base document class from an AP Project, one random class was deleted while one of the remaining classes was listed twice after closing and reopening the project.
- Resolved an issue where, under certain circumstances, the project file size increased by about 100 KB each time the project was saved.

## Database

- The database update scripts for both SQL Server and Oracle unnecessarily logged error messages. These had no impact on the system.
- German umlauts (ä, ö, ü) that appear in error messages of the database update script have been replaced by junk characters, such as ĩ, ç, ½, or Ã. This issue was only visible on German operating systems and had no impact on the update functionality.
- When executing the file Register Application.bat in a command prompt, the @echo off command was not taken into account.
- The following issues apply to customers using Oracle 11g R2 only.
- Resolved an issue where users could not authenticate.
- OracleWFRAPI was not functional with Oracle 11g R2. This issue has been resolved.
- Resolved the following issues that occurred when an Oracle database was upgraded to WFR 5.9
  - Users could no longer login to Designer, Verifier, and Thick Verifier.
  - Runtime Server was not able to perform Security Update.
  - Designer could not export users to the database.

The following or similar errors could be seen in the Designer, Runtime Server, Verifier, and Web Verifier log files.

- The property 'FirstName' cannot be set to a null value.

- The property 'Email' cannot be set to a null value.
- Brainware.System.DAL.DAException ---> The property 'FirstName' cannot be set to a null value.
- Resolved an issue where the SQL Server stored procedure sp\_CleanupObsoleteData incorrectly calculated the batch age.