

## **Oracle® Fusion Middleware**

Oracle WebCenter Forms Recognition AP Project 2803  
Release Notes

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Release Notes for the AP Project 2803

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# Contents

<b>1</b>	<b>AP Project Release 2803 .....</b>	<b>4</b>
1.1	Compatibility .....	4
<b>2</b>	<b>Enhancements and New Features .....</b>	<b>5</b>
<b>3</b>	<b>Fixed Defects.....</b>	<b>7</b>

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# 1 AP Project Release 2803

This document describes defect corrections and feature enhancements included in version 2803 or 2.8.3 of the AP Project, compared to the previous release (1007G).

## 1.1 Compatibility

This version (2.8.3) of the AP Project requires Oracle WebCenter Forms Recognition version 12.2.1.4.0 or later.

Previous versions of the AP Project can be upgraded to version 2803 by following the instructions provided in the *Oracle WebCenter Forms Recognition Solution Migration Tool User Guide*.

## 2 Enhancements and New Features

Release 2.8.3 of the AP Project includes the following enhancements and new features compared with version 1007G of the project.

Category	Description
Scripting	Added new field validation user exits <code>UserExitAccountNumberValidate</code> and <code>UserExitEmployeeIDValidate</code> ; The user exit <code>UserExitFilterEmployeeSearch</code> is now available for filtering the Employee ASE results. For line pairing, a new user exit <code>UserExitPreLinePairing</code> has also been added.
General Extraction	Added the ability to extract multiple VAT rates and amounts. AP Project can now extract up to three different VAT rates and amounts from VAT related invoices.  Ability to handle non-numeric purchase order line item numbers.
Material Line Pairing	A new user exit <code>UserExitRejectPOForLinePairing</code> is added to allow a user to reject a purchase order for line pairing based upon custom criteria. This criteria can include data contained within the purchase order header, such as the vendor ID.  Enhanced the line pairing algorithm so that pricing data is brought in to help distinguish between lines with the near identical descriptions that fail the distance check.
Material Line Pairing	Added a new user exit <code>UserExitRejectPOForLinePairing</code> to allow a user to reject a purchase order for line pairing based upon custom criteria. This criteria can include data contained within the purchase order header, such as the vendor ID.  Enhanced the line pairing algorithm so that pricing data is brought in to help distinguish between lines that fail the distance check with the near identical descriptions.
Extraction/ Configuration/ Validation	Reinforced VAT rate validation is now configurable. VAT rate charged on the invoice can be validated against a country list to ensure that VAT extraction is valid. A database is added for mapping the country code to the VAT table. When the VAT rate is validated, AP Project verifies that the value of VAT and the country relevant to the invoice match with the corresponding database values.  A new export option is added to output an XML file containing the document OCR words, fields, and table data including positional information for use within a third party Verifier application. The field candidate information can also be included on an optional basis. The user exit <code>UserExitOCRXMLOutput</code> is also added to enable custom development.  Enhanced the automatic extraction for the purchase order number field to increase the extraction rate on US & UK documents where the PO is of a less distinct format, such as a numeric string of 4 or 5 characters in length.  Support for Golden Tax solution mandated for domestic transactions that involve VAT in mainland China.  Added a new field <code>MexicanUUID</code> to support automatic extraction of the UUID number that appears on Mexican electronic invoices - a new user exit <code>UserExitMexicanUUIDValidate</code> has also been added to support custom validations for this field.
Extraction Configuration	Multi-tenanted automatic extraction feature is now added for custom fields (Custom1 to Custom5) within the project. This enables a developer to set up analysis, evaluation, and extraction profiles within the AP Project database. These profiles automatically extract bespoke fields on a client-by-client basis. For example, field Custom1 can be configured to extract a store number for customer profile 1, but an order date for customer profile 2. This is not possible if the traditional AP Project engines are used.

Category	Description
Validation / Configuration	<p data-bbox="496 243 1380 323">Added a new configuration option <code>AlwaysUsePOVendorSiteID</code> to the <code>BRWVND</code> table, which, if activated, forces the usage of the site ID on the purchase order header, rather than using the value returned by the ASE engine.</p> <p data-bbox="496 352 1380 453">A new configuration option is added for the invoice number validation. So, if the history check is activated, the extracted candidate is always marked invalid if its weight does not surpass a minimum weighting entered as the value of the <code>InvoiceNumberConfidence</code> parameter in the <code>BRWNUM</code> table.</p>
Formatting	<p data-bbox="496 474 1380 522">Added support for formatting of Taiwanese dates (e.g. 104/09/19 will now be formatted to 19/09/2015).</p>
Reporting / Configuration	<p data-bbox="496 541 1380 621">Invoice line item reporting feature - upon export, the system writes the line item data into the reporting database tables. This can be switched on and off using the INI file setting <code>ActivateLineItemReporting</code>.</p>

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## 3 Fixed Defects

The defects and issues that have been resolved in this release of the AP Project are outlined below:

- Line pairing selects incorrect line based on the unit price despite multiple hits.
- Certain combinations of alpha characters are removed from the invoice number during processing.
- Verifier Thick Client intermittently displays the database password in clear text when connection errors occur.
- System requires the users to clear the freight amount for NO-PO invoices if VAT table is used.
- Line items may not be extracted if the CJKT multi-byte encoding is enabled.
- Script error is returned during the VAT table extraction for sample document.
- Incorrect row is extracted into the VAT table.
- Line pairing extracts incorrect results although unit price difference must reject it.
- The INVOICE AMOUNTS DO NOT ADD UP invalid reason doesn't work if the VAT table is used.
- System does not recognize the formatting of Italian dates for the month of June (GIUGNO).
- System continues to look for a tax code when a blank tax code (an exception) is found.
- System does not convert EUROS to EUR in Verifier.
- The invoice type option `SetByVendor` does not work if the company code is blank.
- Negative formats do not work for amount fields that are assigned in the `NegativeType` column in the BRWFLD table during export.
- The Peoplesoft purchase order number doesn't split correctly.
- The vendor-specific tax code cannot be selected from the tax code table (BRWTAX).
- A charge code or a charge code ID present during the pairing of a service invoice against a single line service PO held in a database, cannot be copied into the exported line pairing results.
- The configurable separator is not accounted for during the export of the delivery note table content.
- The system extracts a POR number incorrectly from a non-Swiss invoice. These numbers must only be extracted from the Swiss invoices.
- False positive on the invoice total amount for Source LF invoice.
- The system cannot extract an invoice date for the month of February if OCR settings are included the French language.
- The system converted table names configured for the purchase order and invoice number history validations to upper case, which causes problems for case-sensitive Oracle databases.
- If a substitution rule is configured for a text field, it must replace the export field content with the substituted value upon export. This doesn't not work for a partial substitution.
- False positive on the invoice total amount.
- If the invoice has a discount amount expressed as a negative value, it must be converted to a positive value in the extraction result for the **AmountDiscount** field.
- The language of the Dynamic Verifier form failed to reflect user preferences if the user is set up as a domain user in the table BRWUser.
- Date format YYYY-MMM-DD (e.g. 2016-APR-10) not formatted correctly.
- If the `StopAllCredits` option in the table BRWDTY is set to `TRUE`, and the Dynamic Verifier form is used, then the document type field on the form is not set to invalid for a credit memo.

- If an alternative invalid reason text for `NONE` is configured in the table `BRWTexts`, it is not displayed on the Dynamic Verifier form if an alternate default text other than `NONE` was configured in the table `BRWIVR`.
- An `Invalid` table error occurs during the system security update if an Oracle database is used.
- For three provided invoice document examples, the currency extracts incorrectly.
- Error is logged in the log file if an Oracle database is used for reporting, the document is split manually in Verifier, and the last page is re-classified as void.
- If an extracted purchase order number is changed in Verifier and the system is set to consider multiple purchase orders during line pairing, both the original and the corrected purchase order numbers are used to retrieve purchase order lines, which may have a negative impact on line pairing results.
- Export to ProcessDirector fails and displays an error message, `ActiveX Automation: Bad index`, if an invoice is sent with a general ledger account line item, for example, a miscellaneous charge.
- Incorrect total amount is extracted from backing sheet of sample document, unlike a previous version of AP Project.
- If a PO number is extracted with special characters, which are removed through configuration in `BRWFLD`, the validation of the PO is still carried out with those special characters.
- If a field is configured to use a minimum length, as well as a maximum length with a pad character, and if the original value extracted (before padding) is lower than the minimum length specification even when the final padded field meets it, then the field is incorrectly marked as invalid.
- If the XML (or DB) export option is switched off, but PIF export is switched on, the PIF XML output does not work properly.
- Entries in the VAT table are still mandatory if the `INVOICE AMOUNTS DO NOT ADD UP` invalid reason is set.
- During line pairing, the system pairs a freight charge to a purchase order line item that already been used during the MIRA process.
- When exporting to XML, CSV or a database, any specific export formatting settings for the **AmountTax** field in `BRWFLD` is ignored.
- Line pairing pairs an invoice line to an incorrect purchase order line despite a clear match on material numbers.
- Content of the price unit column is formatted to 100 or 1000 on RTS or in Verifier, which can lead to problems during line pairing.
- Incorrect currency defaults from the vendor master even though the invoice currency is stated as dollars and marked correct.
- Invoice line pairs incorrectly against a purchase order line because of high correlation of amounts.
- The AP Project user table update doesn't work if the core product database is Oracle.
- Documentation should be updated to replace the use of `ASSA` with `ASE`, denoting the Associative Search Engine.
- If the vendor configuration is set to use an external ID, it is possible to enter an invalid vendor ID in Verifier. The system accepts the invalid vendor ID and passes it downstream.
- If the system is configured to extract a bill-to name from a Greek language invoice, the value is extracted, but it is displayed in transliterated characters, rather than in the original Greek characters.
- If special alpha characters, such as non-English A-Z, are used, then other languages are also affected.

- Document type is set as a credit based on a negative amount even if the `IgnoreNegativeTotal` parameter is set to `TRUE/YES` in the system configuration.
- Negative amount line item is not extracted if it appears in the middle of the invoice line items.
- `DefaultIfNothingExtr` in `BRWFLD` incorrectly sets a currency even if a result is extracted.
- System does not handle TIF File names containing a single quote for reporting in the `OFRDOCUMENT` table. These are also addressed::
  - standard database export;
  - image export to the reporting archive;
  - lookup for the client ID based upon the document URN.
- Employee ID field not populated when an employee is selected using the employee search feature.
- False positive on the tax amount on the Polish Air Products invoice.
- The `Invalid argument function value script error` rose during the extraction of the provided sample document.
- In some cases, line pairing selects zero quantity lines if multiple lines exist on the purchase order for the same material.
- The `u user exit UserExitReadPODetails` doesn't function correctly. If the PO lookup involves a vendor site ID, the subsequent PO vendor validation fails.
- Any code inserted to modify the flags object in `UserExitSetDocFlags` has no effect.
- The Vendor address field incorrectly displays the vendor ID on line 1. If the ID column in the `BRWSRC` table is pointing to a column that does not contain the full vendor ID (including partition) in the vendor master extract table, this occurs following a vendor search when a new vendor is selected.
- French `é` is not accepted while verifying the `Invoice Date` field, for example, `31 décembre 2013`.
- If more than one text line is captured for the line item description, the system marks it as invalid, does not let it pass, and no error is displayed explaining what has gone wrong.
- In the same verifier session, if you switch from a document which belongs to a client that does not use a site ID or PO extension (for example, they are not activated in `BRWFLD`) to the one that does, and then switch back to one that does not, the Verifier display for the vendor ID and PO number is slightly truncated.
- If an invalid database connection string is set for the DFI database, a document could go straight through during processing when it should stop in Verifier with an error message.
- Format for the `BRWAMT` section is set incorrectly if the Oracle SQL script is used. Should be `#[2-10]`, not `#2-10`.
- Records not written to `OFRDOCUMENT` in the reporting tables if an Oracle database is being used and the external batch name / priority update fails.
- Setting the `Distance` parameter in the `BRWBTO` table doesn't have any effect.
- The **StoredProcedureParameters** column in the `BRWLPR` table should be of the type `nvarchar`, but it is set to the type `integer`.
- A drop is observed in the extraction quality for the totals on Chinese VAT invoice between build 2103 and 2202.
- Content messaging tables are not updated correctly. A leading space is written in `intelligentcapture` and `docid` instead of `urn`.
- If a minimum or maximum length is set for a text field in `BRWFLD`, the error message is displayed in Verifier. The message shown is not correct. For example, for a maximum length of 8, the message would be `Field must be less than 8 characters`, rather than `Field must be 8 characters or less`.

- The BRWINSTR table has a foreign key constraint, linking its profile ID to the profiles in the BRWProfile table. This is incorrect as the two are independent of one another.
- A script error may be raised during the line pairing process at the time of export if the Line Items table contains a zero value in the **Price Unit** column.
- When validating an invoice number using the sequencing check option, if the invoice number is too long to hold in a `long` type variable, an overflow script error occurs and a false positive could result. The script error is suppressed and not visible to the user.
- Script error is raised if purchase order numbers are validated using a stored procedure.
- Vendor validation doesn't consider a PO box and PO box zip if a regular street address and zip code are also available in the vendor master. This can lead to a false positive on the vendor ID if the invoice itself states the vendor's PO box address.
- Vendor validates incorrectly if there is a discrepancy in the house number for the same street, or in a PO box number.
- Incorrect weightings applied to total amount candidates leading to a mis-extraction.
- Script error is thrown if the number of entries in the BRWCurrency table exceeds 99. A new limit has been applied and 999 entries are now permitted.
- If CSV file output is configured to generate a combined file per batch and one or more documents in the batch are classified to a class other than invoices, the CSV file incorrectly retains a TMP file extension.
- The system loads the invoices class verification form for document in state 550 in Verifier even for custom base classes with a different form assigned.
  - Workaround: This can be corrected by forcing the correct form in the script in `UserExitVerifierFormLoad`.
- An `invalid index` script error is raised during the extraction of a delivery note number from a Chinese language VAT invoice.
- Incorrect date is extracted and set to valid.
- Verifier lets a user pass a zero value total invoice amount without setting an appropriate valid reason by hitting **Enter** on either the **VendorID**, **PONumber**, **DocumentType**, **InvoiceType**, or **InvalidReason** fields.
- Euro symbols are not recognized as a currency symbol, hence `currency` is not extracted.
  - Workaround: If the project only processes English language documents, Deselecting the **Activate Support For Western Languages** option in the project settings fixes this.
- The script to create the unit of measure conversion table is missing from the DFI table creation script for SQL server.
- Users assigned the `ADM` role in the BRWUser table where no client group is specified should be granted rights to see documents from all clients.
- An error message field is displayed against the currency field when populated and valid.
- If a user in BRWUser is set up for Windows authentication, and if the `RequiresReview` flag was set to `TRUE`, then any documents verified do not go to the 699 review state.
- If a document is split in Verifier, the document image export to reporting fails as the `OFRDOCUMENT` record for the image doesn't exist. Now, when an image is split in Verifier, a new reporting database record is created following manual re-classification.
- During line pairing, zero value lines are selected during the MIRA process.
- Line pairing doesn't work in the MIRA process for a miscellaneous charge only invoice where there was no GR on the PO.
- The script to create the BRWCountry table contains outdated information regarding EU member countries and currencies. Information is now correct as of 21st March 2013.
- A script error is raised when extracting data from a CJKT document if the **YourRef** field has format strings defined and a candidate is generated.
- The train folder supplied is set as `read only`, which causes errors if someone tried to train the project.

- Customer project name shows in the default batch directory in the project settings in Designer. This has now been replaced with a generic file path.
- Setting for the bill-to VAT registration number field in the BRWFLD table is not applied.
- Learnset for the Invoice\_CN class is not encrypted.
- Template classification engine is still in use within the project file, which rendered it incompatible with older versions.
- An OCR quirk causes issues with the extraction of the invoice date field where a Chinese comma is present to the left of the date.
- Script error is raised when analyzing a document indicating that the **IBAN** column is missing from the BRWSRC table. This issue arose when the **IBAN** field was removed from the BRWSRC table, as it was discontinued between builds 2100 and 2101.
- Database creation script doesn't insert rows into the BRWEXPHeader table for the YourRef, IBAN, and BIC fields.
- The column **YYDDMMCountries** in the BRWDAT table is incorrectly named. It should be named **YYMMDDCountries**.
- If a field is set to be a text field in BRWFLD and is set to remove special characters, this legitimate letters are removed from the Latin alphabet (for example, Ö).
- Quantity in the line items table is formatted incorrectly if a comma is used as the decimal separator for the quantity and total line item amount.
- A change in the reporting country for tax in `UserExitSetReportingCountry` changes the country associated with the invoice company code, which means that the tax code assignment could fail.
- Miscellaneous charges could be mishandled during line pairing if the miscellaneous charge on the PO is raised as a separate line item and has not been goods receipted.
- During line pairing, a quantity conversion could be miscalculated if there are price units present on the PO and invoice line.
- Invoice number is not extracted correctly for a given example if Finereader 8 is used.
- Export event fails where `CheckForMultiplePOs` is set to YES and one or more purchase orders identified contained an apostrophe.
- Formatting of the field content of the **VendorASSA** field on the intercompany level includes fields that do not exist in the sample pool provided.
- The extraction learnset on the invoices class shows that it had been trained with 31 documents, but there are actually 35 wdc files in the train folder. Four have been removed as unnecessary.
- Russian is included as a FR10 default OCR language, and this should not be the case.
- Oracle and SQL server scripts for the standard tables do not reflect product branding and include references to IDC-distiller. Additionally, in the Oracle script, the national currency for Estonia is set as EEK, which has now been changed to EUR.
- Line pairing may raise a script error failing the export event if a purchase order is more than 10 digits long.
- When attempting to select the correct PO line from a purchase order where multiple lines are set up for the same material, the system mistakenly chose the wrong line for a particular test case.
- If the system is configured to use site IDs, and a new PO is entered in Verifier which belongs to a completely different vendor to that in the vendor field, the dialog box that lets the user accept the PO vendor doesn't not include the PO vendor address information.
- An invalid delivery date incorrectly sets the invoice date to be invalid.
- The delivery date is mistakenly populated with the value true if a country filter is set.
- Table correction facility for the **LineItems** field doesn't always work in Verifier.
- `UserExitFilterVendorSearch` doesn't fire when a vendor search is executed in Verifier.

- In Verifier, if cross-validation of the amount fields is deactivated, it's possible to introduce an invalid character into one amount field, then hit enter on another, and the invalid amount value is passed.
- Duplicate strings are present in the label definitions for `LineItemsGeneric` on the `Generic` class. The duplicates are removed.
- The `PONumbers` table still appears at the bottom of the dynamic verifier form even if it is deactivated in the `BRWFLD` table.
- Document header fields (such as, `DocClass`, `ScanDate`, and `DocumentLink`) do not appear in the XML output file despite being selected for output in the `BRWEXPHeader` table.
- The **Employee Search** button is still present on the dynamic Verifier form even if the **Employee ID** field is deactivated in the `BRWFLD` table.
- Reporting is not updated with the name of the client in `BRWClient` for a given document.
- Users cannot be uploaded in `BRWUsers` using the **password** option.  
An extra method is added at this level to allow user creation with a password, as opposed to just using Windows authentication.
- If the `BRWTXJCodes` table is populated with entries for a given profile ID, a document for a client using that profile ID raises a script error during extraction, which can freeze RTS.
- Amount fields can be outputted incorrectly (such as, 100 times too big) if the machine locale is set to use a comma as the decimal separator.
- The standard database export for the tax table fails with an SQL error notifying that the number of entries in the `VALUES` clause don not match the number of `INSERTS`.
- The **SetCompanyCodeFromPO** option in the `BRWPON` table doesn't work.
- Script errors are raised during extraction if `CJKT` transliteration is activated in the project settings.
- If the table `BRWCSV` is populated with entries for a given profile ID, a document for a client using that profile ID raises a script error during extraction, which could freeze RTS.
- The XML encoding header set in the `BRWEXP` table is not written into the standard XML file.
- When trying to use the standard database export, the system raises an error reporting that no database export tables are configured in `BRWEXP` even if they have been configured.
- When exporting an XML file, line items are still exported even if the line items field is deactivated in `BRWFLD`.
- If an invalid database connection is specified in the INI file for the DFI for BPO database, a script error is raised during extraction, potentially freezing RTS.
- DFI 2.0 DB table creation scripts do not include primary keys and constraints. These have now been added for the 2.1 DB creation scripts.
- Flags for `AmountSubtotal` and `AmountTax` are changed incorrectly if the VAT table is activated.