

Brainware for Invoices

Release Notes

Version: 3.5.x

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Brainware for Invoices 3.5 Release (December, 2021)

This document contains important information about the 3.5 release of Brainware for Invoices (BFI) and previous releases. Read this file before you begin your installation.

This section contains information about the bug fixes that were done as a part of this release.

Compatibility

You can only use Brainware for Invoices version 3.5 with the following Intelligent Capture versions. Additionally, the system must have Microsoft .NET Framework 4.6 installed.

Brainware for Invoices Release	5.7	5.7.1	5.8	5.9	5.9.1	BIC Foundation EP 1	BIC Foundation EP2
3.5	No	No	No	No	No	Yes	Yes

New Features

BFI 3.5 – Product Enhancement List

Category	Description
Extraction	<ul style="list-style-type: none"> Enhanced generic header field extractions for the invoice number, invoice date, PO number, invoice tax amount and the in-voice total fields. Enhanced Line item extraction particularly for cases in which a line-level-discount or a line-level-tax amount is found.
Bank Account	Added new configuration options that can be used to confirm whether a single default bank account defined on the vendor master is present in the document or not. Subsequently, a flag is available at the time of export specifying whether this defaulted bank account is confirmed or not.
Company Code	Added the ability to maintain company code master data through Solution Configuration Manager (SCM).
Invoice Number	Added the ability to store invoice number history

Category	Description
	within the BFI configuration database.
Line Items	Added the ability to accommodate line level discounts. A line level discount is expressed as an amount which is subtracted from the quantity multiplied by the unit price. This has been done by extending the line item mathematical validation.
PO Number	Added new configuration options for purchase order look-ups against a database and/or Workday, which enable the user to default a purchase order site ID if none is available on the purchase order header.
General Validation	Added a new option to the field configuration table that allows the user to specify whether character padding should only occur for field values that are all numeric or not.
Line Pairing	<ul style="list-style-type: none"> Added a new configuration option that allows the user to scan a purchase order prior to line pairing to check for duplicate purchase order line item numbers. Line pairing is not carried out if duplicate line numbers are detected. Added the ability to maintain unit of measure conversion ratios through SCM.
Automatic Tax Determination	<ul style="list-style-type: none"> Added the ability to maintain tax code master data through SCM. Added the ability to maintain plant master data through SCM.
Miscellaneous Charges	Added the ability to maintain general ledger account coding master data for miscellaneous charges through SCM.
Scripting	<ul style="list-style-type: none"> Added new methods named FormatTextToAZ09 and IsDate to the Solution Utility library. Added a new method named ConvertToISOCCode to the Solution Lookup library.

Category	Description
User Exits	<p>Added a new user exit named UserExitChangePODetails which allows the user to change elements of the PO header subsequent to a look-up to the purchase order during validation and export. The user exit is only called for PO validations that are performed against Workday and against a database.</p>
Reporting	<ul style="list-style-type: none"> Added a new column named TAX_STATUS to the BRWDocument table that records the status of automatic tax code determination for relevant documents. If the solution is configured to use extended logging, all reporting SQL statements executed during export are now written into the log file.
SAP	<ul style="list-style-type: none"> Added the ability to specify whether the destination SAP system is SAP S/4HANA, as opposed to ECC 6.0, which is required if the user wants to read purchase order condition records or create documents directly into SAP using web services. Added the ability to configure the name of the SAP table that is queried to retrieve purchase order condition records. Introduced a new rule that rejects validation of any purchase order number that is greater than 10 characters.
SAP web services	<ul style="list-style-type: none"> Introduced a new function named BINARY_RELATION_CREATE_COMMIT to simplify implementation of image linking using SAP document services. Improved SAP purchase order web services look-up for SAP S/4HANA so that it is tolerant of the NFMETALLITMS table being returned in the XML response. Extended SAP web service user name and password parameters to 100 characters in SCM.

Category	Description
	<ul style="list-style-type: none"> Improved logging to provide more detail in the event that an invalid XML response is received for the purchase order look-up.
Workday	Use of the unit of measure code at line item level as opposed to the unit of measure description.

BFI 3.5.2

Oracle 19c ODAC is supported.

Fixed Defects**BFI 3.5 to BFI 3.5.1 – Defect Correction List**

Defect ID	Description
SOL1-1341	A date in the YYYY.MM.DD format is not being auto-formatted correctly if the date format in Verifier is MM/DD/YYYY.
SOL1-1354	The 'Input string was not in a correct format' error is raised when passing unpaired line to standard <code>ProcessDirector</code> function.
SOL1-1361	The 'SNC_PARTNERNAME missing' error is thrown when connecting to SAP using SNC.

BFI 3.4.1 to BFI 3.5 – Defect Correction List

Defect ID	Description
SOL1-449	Workday PO look-up should return UOM code, instead of the description.
SOL1-457	Improper error message is displayed in User Created DB option when Initial Catalog is not selected in BFI Installer in SQL Server Environment.
SOL1-474	Vendor ID cannot be validated if site ID contains lower case characters.

Defect ID	Description
SOL1-506	Vendor details can be set incorrectly for PO invoices if external vendor ID is used with no site ID.
SOL1-525	An error message "Input string was not in a correct format" is raised during line pairing if negative PO condition is returned from SAP.
SOL1-541	Uninstallation of BFI Installer doesn't uninstall & unregister ICAL DLLs if their installation directory is different from BFI installation directory.
SOL1-545	Uninstallation of ICAL Installer doesn't remove & unregister the ICAL DLLs when the user is not using the default installation path.
SOL1-572	ActiveX Automation Error raised when using SAP methods in UserExitSendToSAPProcessDirectorGeneric.
SOL1-616	ProcessDirector Late Archiving fails with 'process cannot access the file' error for TIFF images.
SOL1-628	Extraction fails with 'Nullable object must have a value' error due to alpha amount candidate for CGST.
SOL1-629	Incorrect log messages are displayed during export if reporting table BRWDocument column is too small.
SOL1-634	'Hexadecimal value cannot be included in a name' error raised during XML export if configured XML tag has a space.
SOL1-735	Runtime error in UserExitXMLOutput does not stop document export.
SOL1-637	Document Type is incorrectly set to 'CREDIT' for certain invoices.
SOL1-736	Changing the invalid reason does not re-validate fields for some unrelated rules.
SOL1-738	Withholding tax data populated in

Defect ID	Description
	UserExitPostLinePairing is not passed to SAP.
SOL1-750	SAP document number is not written into reporting DB on second export attempt.
SOL1-762	Line item is assigned incorrect miscellaneous charge category if no aliases are defined.
SOL1-763	Incorrect Verifier extraction user is written to Visibility when document is reclassified to Void class with custom fields.
SOL1-764	Changes made by user in BIC connection string during BFI Installation does not get reflected in BRWSQL.
SOL1-766	PO number is exported as POR number in XML output.
SOL1-768	Field cross-validation is not triggered in Verifier if document class is child class of Invoices.
SOL1-770	Call to SAP HANA PO look-up web service throws 'Object reference not set' error.
SOL1-780	MIRA pop-up does not appear upon change of purchase order with a different vendor.
SOL1-787	PO look-up is not retrieving condition records when using SAP HANA.
SOL1-788	An error "Web service processing" is raised during SAP document posting using web services with SAP HANA.
SOL1-791	SAP PO validation via RFC can validate a PO number that is too long.
SOL1-805	SAP document creation fails if total amount has more than 4 decimal places.
SOL1-901	Universal Upgrade Scripts when executed on a previously upgraded PIC1 2.7 database cause

Defect ID	Description
	incorrect data insertion in BRWUser table.
SOL1-926	Field formatting settings are not applied to VendorID field.
SOL1-1011	System can use an alpha candidate returned by ALE Learnset Manager (ALM) for a custom field configured to ignore candidates that do not contain at least one digit.
SOL1-1060	Currency being incorrectly set as USD and marked valid.
SOL1-1065	Line pairing can set unplanned delivery cost incorrectly for MIRA invoice where freight is captured in line items.
SOL1-1072	Worktext and table are passed as null in UserExitCellTextFormatting.
SOL1-1077	Line pairing should not consider multiple POs if invoice is MIRA.
SOL1-1112	Local extraction in Verifier does not follow server-side validation rules.
SOL1-1117	Manual Database Creation Option deletes pre-configured BFI databases during installation.
SOL1-1197	Field data is not written to Visibility for custom classes.
SOL1-1198	The yes option in Alternate Payee message box does not work in Verifier.
SOL1-1209	Running BFI DB update scripts for Oracle may not insert Chinese characters correctly.

Brainware for Invoices 3.4 Release (January, 2021)

This document contains important information about the 3.4 release of Brainware for Invoices (BFI) and previous releases. Read this file before you begin your installation.

This section contains information about the bug fixes that were done as a part of this release.

Compatibility

You can only use Brainware for Invoices version 3.4 with the following Intelligent Capture versions. Additionally, the system must have Microsoft .NET Framework 4.6 installed.

Brainware for Invoices Release	5.7	5.7.1	5.8	5.9	5.9.1	Brainware EP 1	BIC Foundation EP2
3.4	No	No	No	No	No	Yes	Yes

Upgrade compatibility for BFI 3.4

The following items must be taken into consideration when upgrading to 3.4 from an earlier version of BFI.

IIS Reset

If you use SCM, you must perform an IIS reset after you have upgraded the BFI configuration database to version 3.4.

ODP .NET 4

If you use an Oracle database, you need to ensure that ODP .NET 4 is installed on all machines running BFI, including Verifier workstations.

New Features

BFI 3.4 – Product Enhancement List

Category	Description
Extraction	Generic improvements in the extraction of invoice number, invoice date and tax amount fields based on customer example documents.
Line Pairing	Added the Visibility line pairing status code 15 for documents where line pairing fails on the unit price tolerance check.

Category	Description
Miscellaneous Charges	Added the ability to specify negative phrases that must not appear in a line item extraction to be assigned to a miscellaneous charge category
Export	<ul style="list-style-type: none"> Added the ability to configure an override export path that takes precedence over the export path set on the RTS instance. Ensured the availability of the Workday tax applicability reference as a value that can be exported at line item level in the XML, CSV file and database export.
ERP System Integration	<ul style="list-style-type: none"> Added the ability to use SAP web services for document posting / parking, late archiving of images via SAP, and also for creating a link between an archived document and a document in SAP either using SAP ArchiveLink or SAP document services. Added the ability for the system to park a PO invoice automatically if posting fails due to a Workday validation error during export to Workday. Previously, export from BFI would fail if a PO invoice could not be posted successfully.
ALM Integration	Added the ability to connect BFI to an instance of ALM. This feature can be used to help improve extraction for 35 of the standard invoice header fields as well as to keep the ALM learnset updated as documents are corrected by Verifier users. The feature also includes enhancements to the Visibility database tables so that the performance of ALM can be reported upon, and the ability to extend the use of ALM to custom base classes.
BFI Installer	<ul style="list-style-type: none"> Introduced more intuitive screens in the BFI installer wizard for selecting an Oracle or SQL server database. Upgraded ICAL installer to add the registry settings recommended for BFI to the target machine.

Category	Description
Oracle	Updated the Oracle Database Provider for .NET used by BFI from version 2 to version 4 so that it is now aligned with the version required by Solution Configuration Manager.

Fixed Defects

BFI 3.4.1 to BFI 3.4.2 – Defect Correction List

Defect ID	Description
SOL1-525	'Input string was not in a correct format' error raised during line pairing if negative PO condition is returned from SAP.
SOL1-1341	'SNC_PARTNERNAME missing' error raised when connecting to SAP using SNC.
SOL1-1484	Unicode characters exported from BFI are lost when using the Perceptive Integration Framework.

BFI 3.4 to BFI 3.4.1 – Defect Correction List

Defect ID	Description
SOL1-572	ActiveX Automation Error raised when using SAP methods in UserExitSendToSAPProcessDirectorGeneric.

BFI 3.3.1 to BFI 3.4 – Defect Correction List

Defect ID	Description
SOL1-402	UserExitLinePairingPOs does not permit changing the PO list for line pairing.
SOL1-400	'Error during field validation' raised in Verifier when validating line items if columns (settings) are missing in BRWFLD.

Defect ID	Description
SOL1-397	Incorrect payment terms code is populated from the selection dialog in Web Verifier.
SOL1-391	'Requested Form Inconsistent' error appears when opening Verifier batch if the user language is not 'EN' and a field error description contains '%'. fnWriteXMLField function strips '&' from inserted values.
SOL1-392	
SOL1-301	System fails to create a document with tax in Workday.
TFS # 32472	'Word index out of range' error raised during line pairing.
TFS # 32759	Line items incorrectly exported as header miscellaneous charge.
TFS # 32880	Incorrect extraction of document number for credit note.
TFS # 33136	Solution.Utils.GetDatabaseConnectionString method not handling encrypted password correctly.
TFS # 33187	fnFormatAmountForExport not formatting some amounts correctly / overflow error for large amounts.
TFS # 33299	UserExitTerminate is not triggered.
TFS # 33602	Universal Update Scripts do not work on DFI 2701.
TFS # 33698	Export to SAP fails when converting WBS elements.
TFS # 33777	'Object reference not set' error thrown when creating a document in SAP if 'VENDOR NOT FOUND' invalid reason is set.
TFS # 33778	'Object reference not set' error occurs when validating Workday service PO with missing item reference.
TFS # 33782	Winwrap DicVal function not does not retrieve values

Defect ID	Description
	correctly for BRWEXP tables.
TFS # 33783	PO type field does not switch to SERVICE for a Workday service PO.
TFS # 33787	Line pairing can choose wrong line item via material number if PO uses generic material numbers.
TFS # 33810	Line pairing fails with 'all PO lines are either fully invoiced or marked for deletion' error even if just one PO line is fully invoiced or marked for deletion.

Brainware for Invoices 3.3 Release (March, 2020)

This document contains important information about the 3.3 release of Brainware for Invoices (BFI) and previous releases. Read this file before you begin your installation.

This section contains information about the bug fixes that were done as a part of this release.

Compatibility

You can only use Brainware for Invoices version 3.3 with the following Intelligent Capture versions. Additionally, the system must have Microsoft .NET Framework 4.6 installed.

Brainware for Invoices Release	5.7	5.7.1	5.8	5.9	5.9.1	BIC Foundation EP1	BIC Foundation EP2
3.3	No	Yes*	Yes*	Yes*	Yes	Yes	Yes

* Indicates that the memory utilization and the XML output file document page information features are available only if you are using BIC 5.9.1. and later versions.

New Features

BFI 3.3 – Product Enhancement List

Category	Description
Extraction	<ul style="list-style-type: none"> Ability to extract a delivery note number at line item level for US freight invoices.

Category	Description
	<ul style="list-style-type: none"> General improvements made to amount extraction.
Configuration	<ul style="list-style-type: none"> Added Max Past Years option to the Date Settings so that the extraction of dates where the year is too far in the past can be prevented. Added Use PO Order Vendor option to the Vendor Settings so that the user can choose to return the order vendor rather than the invoice-presented-by vendor when reading a purchase order in SAP. Added the ability to specify an encrypted password when importing an associative search engine pool from a database table. Improved logging for configuration errors relating to the currency and company code database look-ups.
User Exits	UserExitAssignClientIDToDocument added to allow custom logic to be used when assigning a client ID to a document.
Scripting	<ul style="list-style-type: none"> Added GetAddressCustom function to the Utility Library to allow the retrieval of address information for an associative search engine field on a custom base class. Added UpdateSettings method to the Settings library to allow the loading of the full BFI configuration database settings within the script of a custom base class. The Search Field Mapping settings from the BFI configuration database are now loaded globally for all base classes in ScriptModule_Initialize.
BFI Installer	Added the ability to support TLS 1.2 so that the current standard protocols can be used to secure the environment.
ERP System Integration	Added the ability to use SAP web services instead of RFC for all data look-ups to SAP. For example:

Category	Description
	Purchase order, company code and service entry sheet.

Fixed Defects

BFI 3.3.1 to BFI 3.3.2 – Defect Correction List

Defect ID	Description
TFS# 33810	BFI 3.3: Line pairing fails with 'all PO lines are either fully invoiced or marked for deletion' error even if just one PO line is fully invoiced or marked for deletion.
SOL1-738	BFI 3.4: Withholding tax data populated in UserExitPostLinePairing not passed to SAP.
SOL1-768	BFI 3.4: Field cross-validation not triggered in Verifier if document class is child class of Invoices.
SOL1-780	BFI 3.4: MIRA pop-up does not appear upon change of purchase order with a different vendor.

BFI 3.3 to BFI 3.3.1 – Defect Correction List

Defect ID	Description
TFS #33778	'Object reference not set' error occurs when validating Workday service PO with missing item reference.
TFS #33783	PO type field does not switch to SERVICE for a Workday service PO.

BFI 3.2 to BFI 3.3 – Defect Correction List

Defect ID	Description
TFS #32270	BFI 3.3 SCM Package does not deploy against Oracle.

Defect ID	Description
TFS #32096	Upgrade scripts that update databases to BFI version 3.2 do not drop BRWCTR table if BRWCountry table already exists.
TFS #32074	Incorrect formatting of amounts with three decimal places for currency without sub-units.
TFS #31726	When using the dynamic verifier form, if there is a break in the sequencing of the invalid reason Index IDs in the BRWIVRTYPE table, a 'Verifier form inconsistent' error message is displayed in Verifier.
TFS #31703	If VendorASSA field settings are incorrect, an 'Object Reference not set' error is raised during PostExtract.
TFS #31694	If there is a single vendor candidate, invoice number DB validation is not executed for NO-PO invoices.
TFS #31664	Document export does not fail if there is an issue with the SAP down-payment lookup.
TFS #30593	When using the dynamic verifier form, if there is more than one invalid reason with the same display text, a 'Verifier form inconsistent' error message is displayed in Verifier.
TFS #30443	System passes 0 to SAP as a default tax code for unplanned delivery costs.
TFS #30442	Incorrect handling of the invoice date "le 1er août 2019", producing a false positive.
TFS #30407	Addition of an alias for freight in BRWMSCCategory can cause degradation in line item extraction.
TFS #30359	When creating documents in SAP, the exchange rate defaults to 1.
TFS #29958	If reporting is on and a custom field exists with a field name that is less than three characters in length, an 'Index and length must refer to a location within the string' error is raised.

Defect ID	Description
TFS #29932	Incorrect message that reads 'Purchase order has not been released (EN199)' is sent to SAP after a document is changed to NO-PO and the PO number is removed.
TFS #29740	If the BRWCountry table already exists in a database which is to be upgraded, the Universal Upgrade Script fails.
TFS #29730	While opening a document where the client ID is not determined, an error that reads 'The verification form "" was changed from project script, but doesn't exist in the project' is displayed.
TFS #29704	When not using a dynamic Verifier form, the invalid reason list changes are not displayed unless the project file is updated.
TFS #29204	Break Out MM And FI For Reporting option fails to update for a posted document.
TFS #28852	Failure to extract the correct total amount on certain invoices.
TFS #28523	The vendor selected from a filtered vendor search list does not get populated in the Vendor field.
TFS #28498	Line pairing chooses an incorrect line based on unit price despite multiple hits.
TFS #28461	The log file displays an 'Object reference not set' error raised during PONumber_PostEvaluate.

Brainware for Invoices 3.2 Release (August, 2019)

This document contains important information about the 3.2 release of Brainware for Invoices (BFI) and previous releases. Read this file before you begin your installation.

This section contains information about the product compatibility, enhancements, and bug fixes that were done as a part of this release.

Compatibility

You can only use Brainware for Invoices version 3.2 with the following Intelligent Capture versions. Additionally, the system must have Microsoft .NET Framework 4.6 installed.

Brainware for Invoices Release	5.7	5.7.1	5.8	5.9	5.9.1	BIC Foundation EP1	BIC Foundation EP2
3.2	No	Yes*	Yes*	Yes*	Yes	Yes	Yes

* Indicates that the memory utilization and the XML output file document page information features are available only if you are using BIC 5.9.1. and later versions.

If you are upgrading to BFI 3.2 from a previous version, please refer to the following Knowledge Base article which explains how to correct an issue concerning the Country Settings in Solution Configuration Manager. The Knowledge Base article is called **"System error. Try again later" when attempting to access the Global Country Settings in Solution Configuration Manager.**

New Features

BFI 3.2 – Product Enhancement List

Category	Description
Extraction	Ability to extract payment terms from an invoice. You can configure the system to compare the extracted terms with the terms on a purchase order and/or in the vendor master record, and then export the most favorable terms downstream.
Extraction/Validation/Export	<ul style="list-style-type: none"> Added extraction, validation, compliance checking, tax coding and export abilities for India invoices. Ability to define the lengths of fields for database export so that the extracted data is not truncated or lost. Overall optimization in extraction logic and process. The Primary and Secondary VAT rates functionality in BRWTAXCONFIG has been restricted so that it does not apply to invoices from the US. Added extended digit check to the invoice number validation.
Configuration	<ul style="list-style-type: none"> Improved memory utilization for the internal

Category	Description
	<p>storage of project configuration settings.</p> <p>Note: This feature is only available if using Brainware Intelligent Capture 5.9.1 or later versions.</p> <ul style="list-style-type: none"> Ability to perform the VAT compliance check for countries other than those that participate within the common EU VAT framework.
Security	<p>Added support for RSA3072 password encryption.</p> <p>Note: This feature is only available if you are using Brainware Intelligent Capture version 5.9.1, or later versions.</p>
Third-party Support	<ul style="list-style-type: none"> Integrated with Workday covering company code validation, purchase order validation and the creation of documents in Workday during export. Support for SAP S/4HANA ERP upgrades.
BFI Installer	<ul style="list-style-type: none"> Introduced the following warning on the welcome screen: Warning - The BFI Installer is currently usable for NEW INSTALLATIONS ONLY. If you need to uninstall or upgrade, please refer to the Installation Guide for steps to follow. Use of this installer application for purposes other than an NEW Installation could corrupt an existing implementation. The installer can no longer be used to uninstall a previous version of the application. A warning message that an existing version needs to be removed manually, is displayed. The installer can no longer be used to overwrite an existing database. The user will either need to change the database name or manually remove the existing data-base table before continuing.

Category	Description
	<ul style="list-style-type: none"> When installing BFI, if the connection string for the Brainware Intelligent Capture database is encrypted, the user will be required to enter the connection string manually.
Database Update	Ability to upgrade the Brainware for Invoices configuration database from any version to the current one with the use of a universal database upgrade script.
Onbase Integration	<p>The standard XML output file now includes document page information required for Onbase integration.</p> <p>Note: This feature is only available if using Brainware Intelligent Capture 5.9.1, or later versions.</p>

BFI 3.1.2 to 3.2 – Defect Correction List

Defect ID	Description
TFS #32269	BFI 3.2 SCM Package does not deploy against Oracle.
TFS #27695	Incorrect parsing of Czech dates.
TFS #26821	Brainware for Invoices formats YY.MM.DD dates incorrectly despite vendor country listed in BRWDAT.YYMMDDCountries.
TFS #26790	Brainware for Invoices extracts an incorrect currency from Andritz invoice.
TFS #26663	Multi-line invoice number passes in Verifier despite exceeding maximum field length.
TFS # 26249	BFI Installer fails when installing to a BIC installation with an encrypted password in the connection string.
TFS #26028	Exchange rate might be exported incorrectly if the

Defect ID	Description
	VAT table is used.
TFS #25470	Invoice number formatted to a blank string passes in Verifier despite being set as a mandatory field.
TFS #24660	BRWFLD.DecimalPlaces setting does not produce the expected result during data export for amounts with more than two decimal places.

Brainware for Invoices 3.1.2 Release (April, 2019)

This document contains important information about the 3.1.2 release of Brainware for Invoices (BFI) and previous releases. Read this file before you begin your installation.

This section contains information about the bug fixes that were done as a part of this release.

BFI 3.1.1 to 3.1.2 – Defect Correction List

Defect ID	Description
TFS #24738	BFI Installer: Installer fails if the specified database name contains a dot (For example, BFI 3.0).
TFS # 25251	During reporting, exporting new document classes throws an error.
TFS # 25554	Silent Installer: Existing database tables are overwritten during the installation process when using the silent installer.
TFS # 25601	When pairing multiple lines on the invoice to multiple PO lines as a group, the first invoice line item is exported as paired, but the other invoice line items are exported twice - as both paired and unpaired.
TFS # 25855	After upgrading a pre 2.5 project to 3.1, object reference not set error appears in log file during Pre-extraction.
TFS # 25863	If the FieldType column for any field in BRWFLD is left blank, the extraction fails with Object reference not set to an instance of an object errors during pre and post-extraction.

Defect ID	Description
TFS # 25900	Repeated clicking of the uninstall button causes the uninstallation operation to terminate unexpectedly.
TFS # 25987	Instances of the terms PICl and Perceptive still exists in the SCM field level help for BFI 3.1.2 package.
TFS # 26036	During processing, in some instances, alpha characters are being stripped out of the invoice number.

Brainware for Invoices Release 3.1.1 (February, 2019)

This document contains important information about the 3.1.1 release of Brainware for Invoices (BFI) and previous releases. Read this file before you begin your installation.

This section contains information about the bug fixes that were done as a part of this release.

BFI 3.1 to 3.1.1 – Defect Correction List

Defect ID	Description
TFS #24702	The script for the BFI database upgrade from 3.0 to 3.1, did not copy the data in the BRWCUS table.
TFS #24704	The permissible maximum length of an ASE ODB SQL statement is 255 characters, which is inadequate.
TFS #24705	The default length of the column [BRWDocument]. [USEREXTRV] is 20 characters, which is inadequate for entering domain names and so on.
TFS #24714	PIF status updates do not send the correct client ID for PostOCR / PostClassify if default client ID is not set to zero.
TFS #24715	Upgrade script for BFI 3.0 to 3.1 overwrites the setting for ActivateVendorFiltering in BRWGRL.
TFS #24741	PIFOutputKey in BRWPCO table cannot be configured to accept value 'FILENAME'.

Defect ID	Description
TFS #24743	PIF is not reported for documents that are manually classified as Void.
TFS #24767	SAP posting fails with a runtime error, if the quantity passed has more than three decimal places.
TFS #24794	An out of bounds exception occurs when the verifier is launched for the first time and a batch is opened.
TFS #24798	Invoice gets marked for down payment even when the Downpayment SGL Codes field is empty.
TFS #25040	Entry of 10-MAR-2018 into a date field does not get validated.
TFS #25054	The pField parameter is set to nothing in UserExitPOValidateStart
TFS #25057	The VOID class script has an issue that logs errors when actions are carried out involving the VOID class.
TFS #25066	During line pairing, an 'object reference not set to an instance of an object' error can occur if an invoice line item is paired to a PO where more than one line item is for the same material.
TFS #25068	While using the Brainware Table Correction tool for line items, the quantity field does not format correctly prior to the mathematical validation of the row, invariably leading to a validation error.
TFS #25070	During PO Number validation, an error stating "Object reference not set to an instance of an object" occurs.
TFS #25105	Field validation stops working in Verifier Test Mode with 'Type Mismatch' error in log file.
TFS #25203	Line pairing exports wrong quantity and total if more than one PO line for multiple materials is selected.
TFS #25213	Line pairing exports wrong quantity if more than one

Defect ID	Description
	PO line for multiple materials is selected.
TFS #25214	Line pairing exports wrong total if more than one PO line for multiple materials is selected.

Brainware for Invoices Release 3.1 (December, 2018)

This document contains important information about the 3.1 release of Brainware for Invoices (BFI). Read this file before you begin your installation.

This document contains information about enhancements, bug fixes, and specific information that might apply to your setup.

Compatibility

You can only use Brainware for Invoices version 3.1 with Intelligent Capture, version 5.7.1 or higher. Additionally, the system must have Microsoft .NET Framework 4.6 installed.

New Features

BFI 3.1 – Product Enhancement List

Category	Description
Extraction	<ul style="list-style-type: none"> Extraction improvements across all fields based on customer samples provided. Addition of new field to capture invoice payment terms. Ability to restrict PO Number extraction to the first page.
User exits / scripting	<ul style="list-style-type: none"> Addition of new user exits for the payment reference field and custom fields 1-5. Addition of a new method (ConnectToBAPI) to the solution SAP library that allows a developer to connect to SAP and instantiate a connection to a BAPI in Winwrap using the ICAL SAP .NET connector. Addition of a new method (ModifyPDGenericHeader) to the SAPFunction data type that simplifies adding or modifying a

Category	Description
	<p>header value passed to the ProcessDirector generic function module.</p> <ul style="list-style-type: none"> • Addition of new methods (GetCandidateContext) and (GetWordIDForList) to the solution utility functions library. • Addition of new methods (DicValTable) and (GetHighestIndexIDForGroup) to the solution settings library to facilitate ease of accessing indexed custom parameters in Winwrap script.
Configuration	<ul style="list-style-type: none"> • Introduction of a new role (AEB) to facilitate user configurations in the SCM. • Ability to configure a custom amount field as either a tax amount, a miscellaneous charge, or a standalone amount, so that Brainware can include it in the standard mathematical validation and process it appropriately during line pairing. • Ability to configure the system to change the purchase order type field to SERVICE and process it as a service invoice during line pairing if the purchase order line items have a unit price of 1. • Ability to force-stop an invoice from a particular vendor at a global or processing profile specific level. • Ability to support custom tables within BFI 3.1 through use of indexed custom parameters. • Extension of scope of the Description Tolerance parameter in the solution line pairing settings to enable rejection of any material line item from pairing, if the invoice unit price (adjusted for any unit of measure differences) falls out of tolerance with the purchase order line item unit price.
Runtime Server	<p>Addition of a compatibility switch for customers who have upgraded from older versions of Brainware so that batch priority can continue to be set from RTS</p>

Category	Description
	rather than by the client.
Verifier	<ul style="list-style-type: none"> Ability to mark the Vendor ID as invalid for documents where the invoice type is changed to Non-PO in verifier. Addition of an invalid reason rule that can be used to create a custom invalid reason to skip manual entry of line items in Verifier.
Platform	ICAL DLLs have been upgraded to use .NET Framework 4.6.
Installer	The Brainware for Invoices Installer has been upgraded to support Brainware for Invoices 3.1.

Fixed Defects

BFI 3.0 to 3.1– Defect Correction List

Defect ID	Description
TFS #20394	The BFI system is unable to process and return the correct service sheet acceptance number for a recent external reference document.
TFS #22402	Tiff export fails when the dpi is set at 100 or 450.
TFS #22437	Tiff export supports G4FAX and 300 dpi only.
TFS #22439	The error message for the Import Client ID from database feature still displays URN, instead of substituting URN with the correct client key.
TFS #22442	The BFI system does not populate the default decimal place value (.00) for an amount other than 0 and not having any decimal place values.
TFS #22445	The BFI system does not use the SqlConnectionGroup set against GetPOLinesFromDB settings to fetch the database connection object.

Defect ID	Description
TFS #22573	Line pairing selects the wrong line for generic multiple materials.
TFS #22616	SAP does not change Verifier color scheme to SAP color scheme.
TFS #22619	Documentation states that you can add standard Field Validation script to custom fields added to BRWFLD
TFS #22673	The DstHost.exe.config file is not found on operating the Brainware for Invoices Installer on a system that has upgraded from PIC 5.7 to Brainware Intelligent Capture 5.8.1.
TFS #22854	PIF update missing from PostImport.
TFS #22870	The verifier thick client intermittently displays the database password when a connection error occurs.
TFS #22871	Visibility DB Script needs to be updated for PID fields in BRWdocument.
TFS #22873	BFI Installer fails to create RTS Instances when using Oracle for Core Product database and encounters issues when using Windows Authentication.
TFS #22878	BFI system fails to register ICAL DLLs while operating the BFI installer silently when ICALInstallPath tag value contains multiple words.
TFS #22988	Credit note is incorrectly identified as an invoice.
TFS #23022	Validation is not triggered for a new user-defined field.
TFS #23138	Vendor is validated even if vendor's PO box zip value is provided but PO box number is missing.
TFS #23139	Line items are extracted incorrectly from the tax / subtotal summary line summing up a false positive.

Defect ID	Description
TFS #23203	Extraction of client ID defaults to 0 if the system fails to determine the client ID from the document filename or from a database based on document URN.
TFS #23204	Document is processed straight away through a system assigned to a client using a profile without entries in the processing profile specific tables, with the log file filled with irrelevant error messages.
TFS #23226	Invalid character index / count error raised during processing of Russian document.
TFS #23227	The BFI system fails to recognize a multi-line PO in SAP with a line item category of 9/D as a limits PO.
TFS #23293	BFI Installer 3.1 needs additional and clarified logging for error handling.
TFS #23302	BFI Installer encounters an unhandled exception when an invalid connection string for configuration or reporting database connections is provided.
TFS #23562	Warning message logged for BFI import RTS instance during BFI installation.
TFS #23609	Attempting to disable EmployeeASSA by setting the Analysis Engine to None throws an error message in Verifier.
TFS #23638	PO data missing from the PONumberValidate user exit.
TFS #23646	Inconsistent database encrypted password handling with PICI 2.x
TFS #23648	UserExitPostLinePairing is missing the strError parameter that controls SAP invoice post / parking.
TFS #23655	UserExitReadPODetails 'Site ID must be provided' error raised even when site IDs are not used
TFS #23657	System does not accept non-numeric PO line item

Defect ID	Description
	numbers if using UserExitReadPODetails.
TFS #23676	UserExitReadPODetails incorrectly requires currency to be populated in order to validate a PO.
TFS #23679	Export fails during line pairing for UserExitReadPODetails if PO currency is different from the invoice currency.
TFS #23687	BRWPCO Settings not working for Client ID other than 0.
TFS #23688	BFI Installer fails to create RTS instances when the time format is set to 24hours.
TFS #23689	BFI Installer does not fail when RTS Installation fails.
TFS #23693	Setting bInNoPOFound to <code>true</code> in 'UserExitReadPODetails' has no effect.
TFS #23720	Object var is nothing error is thrown when populating PO lines in UserExitReadPODetails.
TFS #23725	When using the BFI installer to create the Oracle database and connection string, the UTF8 formatting enters the wrong SYMBOL value in the BRWCURRENCY table for Japanese and Chinese Yen.
TFS #23728	Foreign Key constraints is missing from BFI_Config tables
TFS #23746	ActiveX Automation: No such method or property error message is thrown when passing a parameter in UserExitCreateSAPDocument.
TFS #23773	fnFindSAPConnection missing from GlobalFunctions script.
TFS #23805	The BFI system throws a Vendor Does Not Exist error message during validation even though the vendor is available.

Defect ID	Description
TFS #23807	Warning message logged for BFI_Import RTS instance during BFI installation.
TFS #23808	Incorrect message returned when retrieving non-existent error message code (DicVal /Settings.GetErrorMessage).
TFS #23809	BFI Installer: Database name entry field should not display when using Oracle.
TFS #23889	Line pairing incorrectly pairing EUR PALLET misc charge line to PO material line.
TFS #23890	Vendor filtering should not be enabled by default in BFI general settings.
TFS #23923	System passes ICAL object arrays into user exits instead of Winwrap arrays.
TFS #23953	Inability to connect to BICI 3.0 using MSOLEDB data provider.
TFS #24054	After line pairing, the value of 'wrbrtr' in the PO lines array is incorrect.
TFS #24055	Apart from passing POs with paired and unpaired lines, the LineData array also passes POs with lines that are available for pairing.
TFS #24073	Missing parameters for UserExitCustomExport & UserExitCreateSAPDocument.
TFS #24168	If the tax code value is not entered in the configuration database, the BFI system overwrites the original state tax code with a blank value.
TFS #24199	The invalid reason rule for Missing/Invalid PO does not work when using a standard verifier form.
TFS #24224	Dynamic Verifier form not translating class name or the field-in-focus display name into the preferred language.

Defect ID	Description
TFS #24386	GR values not being calculated correctly during the SAP PO look-up for a SAP GR-IV PO if goods receipt / invoice receipt reversals have taken place.
TFS #24544	Setting a duplicate PO in UserExitReadPODetails results in a failed export.
TFS #24558	Tax table not being set correctly if unplanned costs are taxable.
TFS #23559	Balance mismatch in Tax table if the invoice tax is less than or more than the calculated tax.
TFS #24561	Export fails for a service invoice with a miscellaneous charge when line pairing is switched off for services.
TFS #24562	The miscellaneous charge is being processed as zero leaving the invoice out of balance for NO-PO invoices where line items are required.
TFS #24573	September month spelled in Russian language is incorrectly recognized as April.
TFS #24578	Alternate payee search incorrectly says that a vendor has no permitted payees when just one exists.
TFS #24582	Substitution rules configured through BRWSubstitution are not being applied to fields during export.
TFS #24586	Incorrect value adjustment to UserExitSAPPostingRetry makes the system run into an infinite loop of posting the incorrect invoice.
TFS #24595	Export fails if unplanned delivery charge exceeds maximum threshold.
TFS #24638	A field configured with the same minimum and maximum character length results in the value not being padded correctly.
TFS #24641	URL for SAP document link not being created

Defect ID	Description
	properly if a URL is not configured in BRWIMP.
TFS #24666	Invoice number history check marks invoice number invalid if vendor partitions are used.
TFS #24672	PO partition does not work for standard PO numbers.
TFS #24677	Line pairing exports the same line twice, as paired and unpaired.
TFS #24678	System not handling float(53) data type correctly when reading PO line item amounts.

Upgrade compatibility for BFI 3.1

The following items must be taken into consideration when upgrading to 3.1 from an earlier version of BFI.

UserExitPONumberValidate

In Brainware for Invoices 3.1, the interface has been changed to pass only the data associated with the validated purchase order number, rather than an array of all purchase orders read during the current session. Hence, the parameter `IngIndex` is no longer passed into the user exit as the `POHeader` and `POLineItems` refer to a single purchase order.

Any custom scripting in this user exit should be changed accordingly.

UserExitXMLOutput

This user exit is now called once per XML document, as opposed to once per section of the XML file. The user exit interface also now passes in the XML file as a formal parameter.

The function 'fnWriteXMLField' and 'fnWriteXMLDateField' can still be used, but the interface has changed.

For example: `fnWriteXMLField("HCDocInfo", "New document information")`

When placed in the DocHeader section of the select case this statement becomes: `fnWriteXMLField("DocInfo", "New document information", cXMLDocHeader, xmlDoc)`

This can be placed anywhere in the function. Please refer to the XML File Export section of the BFI Installation Guide for more information.

SAP data types

BFI 3.1 uses the SAP .Net Framework to connect to SAP as opposed to the classic RFC library which is no longer supported by SAP. This means that any custom code that uses these objects must be converted to use the properties and methods provided for the new replacement SAP data types.

For that reason, the SAP related objects passed into user exits such as, oBA-PIHeader in 'UserExitCreateSAPDocument' no longer possess the standard properties and methods associated with the classic RFC library used in BFI 2.x.

For example: `oBAPIHeader.Value("REF_DOC_NO") = "INV001"` now becomes:
`oBAPIHeader.SetValueByName("REF_DOC_NO", "INV001").`

The new SAP data types provided are SAPFunction, SAPStructure and SAPTable. Please refer to the SAP configuration section of the BFI Installation guide for more information.

Brainware for Invoices Release 3.0 (May, 2018)

This document contains important information about the 3.0 release of Brainware for Invoices (BFI). Read this file before you begin your installation.

This document contains information about enhancements, bug fixes, and specific information that might apply to your setup.

Compatibility

You can only use Brainware for Invoices version 3.0 with Intelligent Capture, version 5.7 SP1 or higher.

New Features

BFI 3.0 – Product Enhancement List

Category	Description
Extraction	Improved the recognition of Candian GST, PST, and HST fields.
Extraction/Validation/Export	A new standard field is added to capture the Chavo de Acesso value from Brazilian invoices. The specific field functionality includes a Modulus 11 checksum validation for extracted values.
Configuration	<p>Enabled controlling the Remote Matching Service (RMS) configuration options externally from the Brainware Intelligent Capture Designer. This helps to migrate projects from the testing to the production environment without making changes by using Designer. BIC version 5.7 introduced RMS as an alternative implementation of the Associate Search Engine (ASE). A project can be configured to use RMS in Designer application by selecting the "Remote Matching Service" option from the "Used core engine" list when the "Associative Search Engine" is selected as the analysis engine. After the "Remote Matching Service" is selected, the connection options can be specified via the GUI. The necessary connection options are:</p> <ul style="list-style-type: none"> • URL • Connection String • Search Index <p>BFI configuration now allows "Remote Matching Service" to be selected and configured through the Solution Configuration Manager, thereby eliminating the need to use the Designer GUI.</p>

Fixed Defects

BFI Project Build 2801 to 3000 – Defect Correction List

Defect ID	Description
TFS#20334	Vendor address validation search does not treat Thai characters correctly.
TFS#20377	Capture merges two lines during line pairing and exports incorrect data to SAP.
TFS#20545	Extended currency check does not consider company code country currency.
TFS#21035	"Line items price unit" column formats 1'000 to 1 rather than 1000.
TFS#21502	Incorrect delivery note is extracted.
TFS#21506	Slight reduction in extraction occurs for invoice total amount.
TFS#21555	Line pairing may occur incorrectly if unit price is less than a penny.
TFS#21577	'User SYSTEM cannot be found in BFI database' error message is displayed in the RTS log file. 'SYSTEM' refers to the RTS service user, so this user name may vary from one implementation to another.
TFS#21622	Line Item Extraction results are affected by matching OS language and User Language settings.
TFS#21748	False positive on invoice number for AMF Slovakia invoice.
TFS#21787	Correction for error messages referring to INI file is implemented.
TFS#21805	Amount formatting issue occurs for hyphen used as a decimal separator.
TFS#21975	Order number is extracted incorrectly as delivery date.
TFS#22039	Script error is raised if miscellaneous charge is paired to PO line and other unpaired lines and conditions exist.
TFS#22052	Documents are exported successfully if XML file is blank due to an invalid encoding header.
TFS#22056	Export to Process Director generic function may create work items with no data for invoices, where two or more line items have SHEET_NO populated.
TFS#22059	Line pairing does not handle multiple materials with the same unit price correctly.

Defect ID	Description
TFS#22159	Vendor validation using US PO Box Zip Code does not account for extended format.
TFS#22169	Document classified to a custom base class runs into an endless loop.
TFS#22178	System marks extracted alternate payee as valid when it is not on the document.

Brainware for Invoices Release 2.8 (August, 2017)

This document contains important information about the 2.8 release of Brainware for Invoices (BFI). Read this file before you begin your installation.

This document contains information about enhancements, bug fixes, and specific information that might apply to your setup.

New Features

BFI 2.8 – Build 2800 – Product Enhancement List

Category	Description
Configuration	Enabled connection to SAP using Secure Network Connection. This ensures that the SAP environment is secure.

Fixed Defects

BFI Project Build 2701 to 2800 – Defect Correction List

Defect ID	Description
TFS#21299	System requires user to clear the freight amount for NO-PO invoices if VAT table is used.
TFS#21300	Line items may not be extracted if CJKT multi-byte encoding is enabled.
TFS#21301	Script error is returned during VAT table extraction for sample document.
TFS#21302	Incorrect row is extracted into the VAT table.

Brainware for Invoices Release 2.7.2701 (June, 2017)

This document contains important information about the 2.7.2701 release of Brainware for Invoices (BFI). Read this file before you begin your installation.

This document contains information about enhancements, bug fixes, and specific information that might apply to your setup.

Compatibility

You can only use Brainware for Invoices, version 2.7.2701, with Intelligent Capture, version 5.5 SP3 and higher.

Fixed Defects

BFI Project Build 2.7 – 2700 to 2701 – Defect Correction List

Defect ID	Description
TFS#20599	Line pairing is extracting incorrect results although unit price difference must reject it.
TFS#20806	The "INVOICE AMOUNTS DO NOT ADD UP" invalid reason is not working if the VAT table is used.
TFS#20584	System does not recognize the formatting of Italian dates for the month of June (GIUGNO).
TFS#20614	System continues to look for a tax code when a blank tax code (an exception) is found.
TFS#20462	System does not convert 'EUROS' to 'EUR' in Verifier.
TFS#20513	The invoice type option "SetByVendor" does not work if the company code is blank.
TFS#20537	Alternate Payee is not logged during SAP export.
TFS#20314	Negative formats are not working for amount fields that are assigned in the "NegativeType" column in the BRWFLD table during export.
TFS#20421	The Peoplesoft purchase order number is not splitting correctly.
TFS#20429	The vendor specific tax code is not getting selected from the tax code table (BRWTAX).

Brainware for Invoices Release 2.7 (September, 2016)

This document contains important information about the 2.7 release of Brainware for Invoices (BFI). Read this file before you begin your installation.

This document contains information about enhancements, bug fixes, and specific information that might apply to your setup.

Compatibility

You can only use Brainware for Invoices, version 2.7, with Intelligent Capture, version 5.5 SP3 and higher.

New Features

BFI 2.7 – Build 2700 – Product Enhancement List

Category	Description
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, BFI verifies that the value of VAT and the country relevant to the invoice match with the corresponding database values.
Extraction	Added the ability to extract multiple VAT rates and amounts. BFI can now extract up to three different VAT rates and amounts from VAT related invoices.
SAP/ Configuration	Down payment GL indicators are now configurable. The down payments with the GL account indicator that are configured can now be automatically parked in SAP.

Fixed Defects

BFI Project Build 2.7 – 2602 to 2700 – Defect Correction List

Defect ID	Description
2107 TFS#2089	If 'ConnectToSAP' is disabled in table BRWSAP, but 'ValidateFromSAP' is set to TRUE in table BRWCCO, the system must validate an extracted company code against SAP.
2108 TFS#2090	If a charge code or a charge code ID was present during pairing a service invoice against a single line service PO held in a database, these could not be copied into the exported line pairing results.
2109 TFS#2097	The configurable separator is not accounted for during export of the delivery note table content
2101 TFS#2074	The system extracted a POR number incorrectly from a non-Swiss invoice. These numbers must only be extracted from the Swiss invoices.
2102 TFS#2072	False positive on invoice total amount for Source LF invoice.
2103 TFS#2100	The system was not able to extract an invoice date for the month of February if OCR settings included the French language.
2104	The system converted table names configured for the purchase order and invoice number

Defect ID	Description
TFS#2084	history validations to upper case, which caused problems for case-sensitive Oracle databases.
2105 TFS#2104	If a substitution rule is configured for a text field, it must replace the export field content with the substituted value upon export. This did not work for a partial substitution.
2106 TFS#2105	If the system is configured to post or park a SAP document at the time of export and link the document to an archived image using the SAP Archivelink later, then the linking could fail. This occurs without failing the export if a SAP Archive ID is not configured.
2107 TFS#2106	False positive on invoice total amount.
2108 TFS#2076	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.
2109 TFS#2091	The language of the Dynamic Verifier form failed to reflect user preferences if the user was set up as a domain user in table BRWUser.
2110 TFS#2107	Date format YYYY-MMM-DD (e.g. 2016-APR-10) was not formatted correctly.
2111 TFS#2096	If the 'StopAllCredits' option in 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.
2122 TFS#20267	If an alternative invalid reason text for 'NONE' had been configured in table BRWTexts, this was not displayed on the Dynamic Verifier form if an alternate default text other than 'NONE' was configured in table BRWIVR.
2123 TFS#2070	An 'Invalid table' error occurred during the system security update if an Oracle database is used.
2124 TFS#20275	An 'array index out of range' error occurred when trying to post or park an invoice in SAP, if the number of withholding tax entries in the vendor master data is greater than 3.

Brainware for Invoices Release 2.6 (November 9, 2015)

This document contains important information about the 2.6 release of Brainware for Invoices (BFI). Read this file before you begin your installation.

This document contains information about enhancements, bug fixes, and specific information that might apply to your setup.

Compatibility

You can only use Brainware for Invoices, version 2.6, with Intelligent Capture, version 5.5 SP3 and higher.

New Features

BFI 2.6 – Build 2600 – Product Enhancement List

Category	Description
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 BFI database in order to 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 BFI engines are used.
Reporting/ Configuration	Invoice line item reporting feature - upon export, the system writes the line item data into the Visibility reporting database tables. This can be switched on and off using the INI file setting 'ActivateLineItemReporting'.
Export/ Configuration/ Scripting	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. Field candidate information can also be included on an optional basis. User exit 'UserExitOCRXMLOutput' is also added to enable custom development.
Export/ SAP/ Configuration/ Scripting	Process Director export feature now includes an option to use the Process Director 'generic' function module which can perform late archiving. This includes a dedicated user exit 'UserExitSendToSAPProcessDirectorGeneric' for this function.
Validation/ Configuration	A new configuration option 'AlwaysUsePOVendorSiteID' is added to the BRWVND 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.
Extraction	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.
Export/ Configuration	The ProcessIT export is extended to include the VAT table information in the XML file, if that field is activated within the BRWFLD table. This is primarily for use with the Readsoft Online integration piece.
Line Pairing/ Scripting	A new user exit 'UserExitRejectPOForLinePairing' is added to allow a user reject a purchase order for line pairing based upon custom criteria, which can include data contained within the purchase order header, such as the vendor ID.

Category	Description
Line Pairing	Enhanced the line pairing algorithm so that pricing data is brought in to help distinguish between lines with near identical descriptions that fail the distance check.
Validation/ Configuration	A new configuration option is added for the invoice number validation so that, if the history check is activated, the extracted candidate is always marked invalid if its weight does not surpass a minimum weighting entered into the 'InvoiceNumberConfidence' parameter in the BRWNUM table.
Export/ SAP	A new option 'ConvertWBSElements' is added to the BRWSAP table. If this option is activated, the system automatically does a look-up to SAP in instances where account assignment data is required and one or more of those assignments involves a WBS element. In this case, the external WBS element read from the purchase order needs to be converted to an internal WBS element to be accepted by the SAP posting/parking BAPIs.

Fixed Defects

BFI Project Build 2.6 – 2601 to 2602 – Defect Correction List

Defect ID	Description
2100 TFS#2077	For three provided invoice document examples, the currency was extracting incorrectly.

BFI Project Build 2.6 – 2501 to 2601 – Defect Correction List

Defect ID	Description
2097 TFS#11560	Error is raised in log file if an Oracle database is used for Visibility reporting, the document is split manually in Verifier, and the last page is re-classified as void.
2098 TFS#10733	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.
2099 TFS#11591	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.
2100 TFS#11612	Incorrect total amount is extracted from backing sheet of sample document, unlike a previous version of BFI .

Defect ID	Description
2101 TFS#11577	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.
2102 TFS#11621	If a field is configured to use a minimum length, as well as a maximum length with a pad character, the field is incorrectly marked as invalid if the original value extracted (before padding) is lower than the minimum length specification even when the final padded field meets it.
2103 TFS#11638	Line pairing routine selects SAP goods receipts or entry sheets that had been reversed when pairing against GR-IV / service entry sheet purchase order lines, or GRs were missing for a PO line if the previous PO line had no GR history. The first part of the issue occurs only while connecting to a SAP system where a serial number of '00' was assigned to all PO history lines in table EKBE, rather than '00' for GR and '01' for invoice.
2105 TFS#11643	A script error is raised in Verifier if the document is a SAP third party freight invoice and the user confirms the vendor ID. In addition, the first condition vendor ID being returned has the first character trimmed.
2106 TFS#11673	If the system is configured to export data to ProcessDirector and the data export fails due to a runtime / system error in SAP (SYSTEM_FAILURE) or other function module exception, or BFI is unable to connect to SAP, the document still moves to a successful export state.

Brainware for Invoices Release 2.5

Compatibility

You can only use Brainware for Invoices, version 2.5, with Intelligent Capture, version 5.5 SP3 and higher.

New Features

Category	Description
Scripting/ Extraction/ Export	Ability to retrieve custom fields from SAP during the read of a purchase order account assignment, then subsequently pass that data back to SAP during invoice creation. Two user exits 'UserExitReadSAPAccountAssignment' and 'UserExitPopulateSAPAccountAssignment' have been added for this purpose.
Scripting	New field validation user exits added 'UserExitAccountNumberValidate' and 'UserExitEmployeeIDValidate'; 'UserExitFilterEmployeeSearch' is now available for filtering the Employee ASE results; for line pairing, new user exit 'UserExitPreLinePairing' has also been added.
Export	Standard export to ProcessDirector in SAP now added, including a user exit

Category	Description
	'UserExitSendToSAPProcessDirector' for sending custom fields .
Export	Standard export to ProcessIT for Oracle EBS now added, including user exits 'UserExitPITXMLOutput' for custom changes to the output XML file .
Extraction/ Export	Support for Golden Tax solution mandated for domestic transactions that involve VAT in mainland China.
Database	Support for SQL Server 2012
Extraction	Ability to handle non-numeric purchase order line item numbers .
Configuration	New setting added to table BRWLPR 'UnitPriceTolerance' to tighten up line pairing where an invoice line pairs to a PO line due to a high correlation on the pricing.
Extraction/ Export/ Validation	New field added 'MexicanUUID' to support automatic extraction of the UUID number that appears on Mexican electronic invoices - a new user exit 'UserExitMexicanUUIDValidate' has also been added to support custom validations for this field.
Formatting	Added support for formatting of Taiwanese dates (e.g. 104/09/19 will now be formatted to 19/09/2015).
Configuration	New option added to table BRWSAP so that it is possible to configure the system to send withholding tax data upon document creation in SAP even if a withholding tax amount is not captured from the invoice.

Fixed Defects

BFI Project Build 2.4 – 2401 to 2501 – Defect Correction List

Defect ID	Description
2087 ALM#13067	If the XML (or DB) export option is switched off, but PIF export is switched on, the PIF XML output does not work properly.
2088 ALM#13083	Entries in the VAT table are still mandatory if the 'INVOICE AMOUNTS DO NOT ADD UP' invalid reason is set.
2089 ALM#13086	During line pairing, system was pairing a freight charge to a purchase order line item that already been used during the MIRA process.
2090	When exporting to XML, CSV or a database, any specific export formatting settings for the

Defect ID	Description
TFS#11505	AmountTax field in BRWFLD were being ignored.
2091 TFS#11524	Line pairing was pairing an invoice line to an incorrect purchase order line despite a clear match on material numbers.
2092 TFS#11526	Content of price unit column was not being formatted to 100 or 1000 on RTS or in Verifier, which could lead to problems during line pairing.
2093 TFS#11527	Incorrect currency defaulted from the vendor master even though the invoice currency is stated as being dollars as marked as correct.
2094 TFS#11528	Invoice line was pairing incorrectly against a purchase order line because of high correlation of amounts.
2095 TFS#11487	The BFI user table update was not working if the core product database is Oracle.
2096 TFS#10318	Documentation should be updated to replace use of 'ASSA' with 'ASE' denoting the 'Associative Search Engine'.

BFI Project Build 2.4 – 2303 to 2401 – Defect Correction List

Defect ID	Description
2077 ALM#12945	If the vendor configuration is set to use an external ID, it is possible to enter an invalid vendor ID in Verifier and the system accepts it and passes it downstream.
2078 ALM#12964	If the system is configured to extract a bill-to name from a Greek language invoice, the value is extracted, but is displayed in transliterated characters, rather than the original Greek characters. This issue would also affect other languages if special alpha characters, such as non-English A-Z, were used.
2079 ALM#12863	Document type was being set as a credit based on a negative amount even if the 'IgnoreNegativeTotal' parameter was set to TRUE/YES in the system configuration.
2080 ALM#13032	Negative amount line item was not extracted if appearing in the middle of the invoice line items.
2081 ALM#13042	'DefaultIfNothingExtr' in BRWFLD incorrectly sets a currency even if a result is extracted.
2082	System does not handle TIF Filenames containing a single quote for reporting in the

Defect ID	Description
ALM#12952	BRWDocument table. Also addressed were: <ul style="list-style-type: none"> • standard database export; • image export to the Visibility archive; • look-up for the client ID based upon the document URN.
2083 ALM#13043	Employee ID field not being populated when an employee is selected using the employee search feature.
2084 ALM#13036	False positive on the tax amount on Polish Air Products invoice.
2085 ALM#12965	'Invalid argument function value' script error rose during extraction of provided sample document.
2086 ALM#12998	In some cases, line pairing was selecting zero quantity lines if multiple lines existed on the purchase order for the same material.

BFI Project Build 2.3 – 2302 to 2303 – Defect Correction List

Defect ID	Description
2080 ALM#12966	Use of 'UserExitReadPODetails' is not functioning correctly. If the PO look-up involves a vendor site ID, the subsequent PO vendor validation fails.

BFI Project Build 2.3 – 2301 to 2302 – Defect Correction List

Defect ID	Description
2076 ALM#12854	Any code inserted to modify the flags object in 'UserExitSetDocFlags' has no effect.

BFI Project Build 2.3 – 2300 to 2301 – Defect Correction List

Defect ID	Description
2075 ALM#12844	Vendor address field incorrectly displays the vendor ID on line 1. This occurs following a vendor search when a new vendor is selected 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.

BFI Project Build 2.2 – 2202 to 2203 – Defect Correction List

Defect ID	Description
2065 ALM#12750	A drop in the extraction quality for the totals on Chinese VAT invoice was observed between build 2103 and 2202.
2066 ALM#12751	Perceptive Content messaging tables were not being updated correctly. There was a leading space in 'intelligentcapture' and 'docid' was being written instead of 'urn'.

BFI Project Build 2.2 – 2200 to 2201 – Defect Correction List

Defect ID	Description
2058 ALM#12678	If a minimum or maximum length was set for a text field in BRWFLD, the error message displayed in Verifier, if this rule was breached, was 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.'
2060 ALM#12686	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.

BFI Project Build 2.1 – 2103 to 2.2 build 2200 – Defect Correction List

Defect ID	Description
2043 ALM#12461	A script error may be raised during the line pairing process at time of export if the Brainware Intelligent Capture Line Items table contains a zero value in the Price Unit column.
2044 ALM#12498	When validating the invoice number using the sequencing check option, if the invoice number was too long to hold in a 'long' type variable, an overflow script error would occur and a false positive could result. The script error was suppressed and not visible to the user.
2045 ALM#12500	If a 10 digit PO number is entered into the PO number field in Verifier, which also has trailing special characters (e.g. 4500000100/), the PO number validates against SAP (which only considers the first ten characters), but the Verifier field content remains incorrect.
2046 ALM#12554	Script error raised if purchase order numbers are being validated using a stored procedure.
2047 ALM#12555	The system allows an invalid vendor ID to pass through Verifier if the SAP PO look-up validation is activated but the system is not set to connect to SAP.

Defect ID	Description
2048 ALM#12563	Vendor validation not considering a PO box and PO box zip if a regular street address and zip code were also available in the vendor master. This could lead to a false positive on the vendor ID if the invoice itself stated the vendor's PO box address.
2049 ALM#12564	Vendor was validating incorrectly if there was a small discrepancy in the house number for the same street, or in a PO box number.
2050 ALM#11112	Incorrect weightings applied to total amount candidates leading to a mis-extraction
2051 ALM#12538	Script error was thrown if the number of entries in the BRWCurrency table exceeded 99. A new limit has been applied and 999 entries are now permitted.
2052 ALM#12455	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.
2053 ALM#12573	The system was loading 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 script in 'UserExitVerifierFormLoad'.
2054 ALM#12581	An 'invalid index' script error was being raised during the extraction of a delivery note number from a Chinese language VAT invoice.
2055 ALM#12383	Incorrect date being extracted and set to valid.
2056 ALM#12583	The update to the Visibility reporting database fails at time of export if an SAP posting failure error message contains a single quotation mark. For example, document type 'RE' must be used.

BFI Project Build 2.1 – 2102 to 2103 – Defect Correction List

Defect ID	Description
2042 ALM#12421	Verifier was letting 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.
2059 ALM#12602	Euro symbols not being recognized as a currency symbol, hence currency was not extracting. Workaround : If the project is only processing English language documents. Removing the 'Activate Support For Western Languages' option in the project settings would fix this.

BFI Project Build 2.1 – 2101 to 2102 – Defect Correction List

Defect ID	Description
2034 ALM#12326	The script to create the unit of measure conversion table was missing from the DFI table creation script for SQL server.
2035 ALM#12291	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.
2036 ALM#12361	An error message field was displayed against the currency field when populated and valid.
2037 ALM#12362	If a user in BRWUser was set up for windows authentication, then any documents verified were not going to the 699 review state if the 'RequiresReview' flag was set to TRUE.
2038 ALM#11378	If a document were split in Verifier, the document image export to Visibility would fail as the BRWDocument record for the image would not exist. Now, when an image is split in Verifier, a new Visibility record is created following manual re-classification.
2039 ALM#12412	If the system was set to connect to SAP through load balancing, then document export to SAP was being considered successful, returning an SAP document number, even though no documents in SAP were created. Multiple connections to SAP were also being established (one per call) needlessly.
2040 ALM#12380	During line pairing, zero value lines were being selected during the MIRA process.
2041 ALM#12385	Line pairing was not working in the MIRA process for a miscellaneous charge only invoice where there was no GR on the PO.

BFI Project Build 2.1 – 2100 to 2101 – Defect Correction List

Defect ID	Description
1132 ALM#12216	The script to create the BRWCountry table contained outdated information regarding EU member countries and currencies. Information is now correct as of 21 st March 2013.
2023 ALM#12218	A script error was being raised when extracting data from a CJKT document if the 'YourRef' field had format strings defined and a candidate was generated.
1133 ALM#12196	Brainware references present in project INI file. This includes the XML document tag defaulting as 'BrainwareDocument' in the project file. This has now been changed to 'Document'.

Defect ID	Description
2024 ALM#12219	The train folder supplied was set as 'read only', which would be the cause of errors if someone tried to train the project.
2025 ALM#12198	Customer project name was showing in the default batch directory in the project settings in Designer. This has now been replaced with a generic file path.
2026 ALM#12225	Setting for the bill-to VAT registration number field in the BRWFLD table was not being applied.
2027 ALM#12195	Learnset for the Invoice_CN class was not encrypted.
2028 ALM#12197	Template classification engine was still in use within the project file, which rendered it incompatible with Brainware Intelligent Capture 5.5.
2029 ALM#12232	An OCR quirk was causing issues with the extraction of the invoice date field where a Chinese comma is present to the left of the date.
2030	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 being discontinued between builds 2100 and 2101.
2031 ALM#12260	Database creation script was not inserting rows into the BRWEXPHeader table for the YourRef, IBAN and BIC fields.
2032 ALM#12261	Column 'YYDDMMCountries' in the BRWDAT table was incorrectly named. It should be 'YYMMDDCountries.'
2033 ALM#12262	If a field is set to be a text field in BRWFLD and is set to remove special characters, this was also removing legitimate letters from the Latin alphabet (for example, Ö).

BFI Project Build 2.0 to 2.1 – Defect Correction List

Defect ID	Description
1118 ALM#12115	Quantity in the line items table was being formatted incorrectly if a comma was used as the decimal separator for the quantity and total line item amount.
1119	A change in the reporting country for tax in UserExitSetReportingCountry was having the adverse effect of changing the country associated with the invoice company code, which meant that tax code assignment could fail.

Defect ID	Description
1120 ALM#12142	Miscellaneous charges could be mishandled during line pairing if the miscellaneous charge on the PO was raised as a separate line item and had not been goods receipted.
1121 ALM#11592	During line pairing, a quantity conversion could be miscalculated if there are price units present on the PO and invoice line.
1122 ALM#12148	During invoice export, the system was always making a call to SAP to check for a down payment even if the down payment check was deactivated.
1123 ALM#11254	Invoice number was not extracting correctly for a given example if Finereader 8 was being used.
1124 ALM#12118	Export event was failing where 'CheckForMultiplePOs' was set to 'YES' and one or more purchase orders identified contained an apostrophe.
1125 ALM#11249	Formatting of the field content for the VendorASSA field on the intercompany level included fields that did not exist in the sample pool provided.
1126 ALM#11084	The extraction learnset on the invoices class showed that it had been trained with 31 documents, but there were actually 35 wdc files in the train folder. Four have been removed as unnecessary.
1127 ALM#11252	Russian was included as a FR10 default OCR language, and this should not be the case.
1128 ALM#11227	Oracle and SQL server scripts for the standard Brainware Intelligent Capture tables did not reflect product branding and included references to IDC-distiller. This has now been changed to Brainware Intelligent Capture. Additionally, in the Oracle script, the national currency for Estonia was set as 'EEK', which has now been changed to 'EUR'.
1129 ALM#11585	Line pairing may raise a script error failing the export event if a purchase order is more than 10 digits long.
1130 ALM#11908	When attempting to select the correct PO line from a purchase order where multiple lines were set up for the same material, the system mistakenly chose the wrong line for a particular test case.
1131 ALM#12176	If the system was configured to use site IDs, and a new PO was entered in Verifier belonging to a completely different vendor to that in the vendor field, the dialog box offering the user the chance to accept the PO vendor did not include the PO vendor address information.
2000 ALM#12149	An invalid delivery date was incorrectly setting the invoice date to be invalid also

Defect ID	Description
2001 ALM#12149	The delivery date was being mistakenly populated with the value 'true' if a country filter was set.
2002 ALM#11109	Table correction facility for the LinelItems field was not always working in Verifier
2003 ALM#12114	'UserExitFilterVendorSearch' was not firing when a vendor search was being executed in Verifier.
2004 ALM#12113	In Verifier, if cross-validation of the amount fields in deactivated, it was possible to introduce an invalid character into one amount field, then hit enter on another, and the invalid amount value would pass.
2005 ALM#11193	Duplicate strings were present in the label definitions for 'LinelItemsGeneric' on the Generic class. The duplicates have been removed.
2006 ALM#11131	The PONumbers table still appears at the bottom of the dynamic verifier form even if it is deactivated in the BRWFLD table.
2007	Document header fields (such as, DocClass, ScanDate, and DocumentLink) were not appearing in the XML output file despite being selected for output in the BRWEXPHeader table.
2008	The employee search button was still present on the dynamic Verifier form even if the employee ID field was deactivated in the BRWFLD table.
2009	Visibility was not being updated with the name of the client in BRWClient for a given document.
2010	It was not possible to upload users in BRWUsers using the 'password' option. This is now possible if Brainware Intelligent Capture 5.4 is used as an extra method was added at this level to allow user creation with a password, as opposed to just using Windows authentication.
2011	If the BRWTXJCodes table was populated with entries for a given profile ID, a document for a client using that profile ID would raise a script error during extraction, which could hang RTS.
2012	Amount fields could be outputted incorrectly (such as, 100 times too big) if the machine locale is set to use a comma as the decimal separator.
2013	The standard database export for the tax table was failing with an SQL error complaining that the number of entries in the VALUES clause did not match the number of INSERTS.

Defect ID	Description
2014	The 'SetCompanyCodeFromPO' option in the BRWPON table was not working.
2015	Script errors could be raised during extraction if CJKT transliteration is activated in the project settings.
2016	If table BRWCSV was populated with entries for a given profile ID, a document for a client using that profile ID would raise a script error during extraction, which could hang RTS.
2017 ALM#12153	The XML encoding header set in the BRWEXP table was not being written into the standard XML file.
2018 ALM#12154	When trying to use the standard database export, the system was raising an error reporting that no database export tables had been configured in BRWEXP even if they had been.
2019 ALM#11593	When exporting an XML file, line items were still being exported even if the line items field was deactivated in BRWFLD.
2020 ALM#11130	If an invalid database connection was specified in the INI file for the DFI for BPO database, a script error was being raised during extraction, potentially hanging RTS.
2021 ALM#11140	DFI 2.0 DB table creation scripts did not include primary keys and constraints. These have now been added for the 2.1 DB creation scripts.
2022 ALM#11291	Changed flags for 'AmountSubtotal' and 'AmountTax' were being changed incorrectly if the VAT table was activated.