

ABBYY FlexiCapture 12 Release 4 Release Notes

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Introduction

About this document

This document describes the features that have been implemented in ABBYY FlexiCapture 12 Release 4 and updates.

About the product

ABBYY FlexiCapture 12 is the latest version of ABBYY FlexiCapture, a highly scalable and flexible data capture platform for creating region-specific and vertical data capture solutions.

Installing ABBYY FlexiCapture 12

ABBYY FlexiCapture 12 may be installed on the same computer where ABBYY FlexiCapture 10 or 11 is already installed. Please refer to the ABBYY FlexiCapture 12 [System Administrator's Guide](#) for installation instructions.

Upgrading from earlier versions

ABBYY FlexiCapture 12 may be installed on the same computer where ABBYY FlexiCapture 10 or 11 is already installed, but you cannot use the setup wizard to upgrade your copy of ABBYY FlexiCapture 10 or 11 to ABBYY FlexiCapture 12.

ABBYY FlexiCapture 12 Release 4 may be used as an upgrade if you have ABBYY FlexiCapture 12 Release 1, 2 and 3 (with any updates) installed on your computer. The earlier release will be removed and Release 4 will be installed instead.

You can use ABBYY FlexiCapture and ABBYY FlexiLayout Studio projects as well as FlexiLayouts created in earlier versions of the program. If you have documents already loaded into the system, we recommend that you first complete the processing of these documents and only then migrate to ABBYY FlexiCapture 12. When you open an ABBYY FlexiCapture or ABBYY FlexiLayout Studio project created in an earlier version of the program, it will be converted to the ABBYY FlexiCapture 12 format. Once a project is converted to the new format, it can no longer be opened in an earlier version.

A detailed description of the upgrade procedure can be found in the [System Administrator's Guide](#).

OCR technologies

ABBYY FlexiCapture 12 Release 4 uses a new version of OCR Technologies (v. 16), delivering a better overall quality of OCR compared to FlexiCapture 12 Release 3 and earlier versions.

Quality tests

1. Invoice processing

Country	Invoice Number	Invoice Date	Total	Line Items	
				Rows	Quantity, Unit Price, Total
AU	93,6%	96,8%	87,4%	79,8%	66,9%
CA	94,6%	95,7%	91,6%	84,8%	60,0%
DE	93,7%	97,2%	94,8%	71,3%	58,4%
ES	98,5%	99,5%	93,4%	90,4%	60,6%
FR	93,8%	93,6%	82,5%	65,8%	53,1%
GB	94,6%	96,2%	93,0%	76,7%	61,9%
JP	89,2%	91,9%	74,7%	69,0%	53,2%
US	93,1%	93,9%	85,3%	85,4%	73,2%

2. Purchase order processing

Country	Order date	Order number	Total	Line items	
				Rows	Qty, Unit price
DE	89,7%	96,4%	98,8%	91,4%	89,9%
ES	100,0%	98,7%	100,0%	94,5%	94,5%
FR	93,2%	86.,3%	97,4%	86,6%	81,4%
US	81,3%	95.,2%	97,6%	74,5%	74,5%

3. Receipt processing

Country	Percentage with 3 correct fields	Date	Total	Currency	Country detection
Angola*	64,67%	76,00%	82,67%	93,33%	96,67%
Argentina	68,69%	78,11%	82,49%	91,58%	93,27%
Australia	78,25%	85,90%	88,97%	97,40%	97,46%
Belgium	76,28%	82,58%	90,39%	98,80%	98,20%
Bolivia	76,22%	78,66%	91,46%	97,56%	97,56%
Brazil	72,38%	79,40%	90,79%	98,29%	98,29%
Canada	83,65%	91,82%	89,26%	97,61%	97,44%
Chile	55,42%	83,33%	66,67%	97,08%	100,00%
China	71,25%	80,00%	90,00%	91,25%	87,50%
Colombia	35,30%	81,03%	44,17%	94,56%	98,29%
Costa Rica	58,35%	73,11%	80,84%	94,38%	96,13%
Czech Republic*	78,26%	87,83%	94,78%	94,78%	99,13%
Denmark*	77,49%	81,99%	96,45%	98,10%	99,53%
Dominican Republic	81,88%	85,82%	96,74%	96,74%	99,28%
Ecuador	67,08%	75,68%	85,01%	97,05%	96,81%
El Salvador	52,50%	71,90%	77,27%	93,39%	97,93%
Estonia	82,78%	90,07%	92,72%	99,34%	100,00%
Germany	83,7%	89,85%	94,85%	91,60%	94,66%
Guatemala	69,72%	78,61%	80,78%	95,56%	95,56%
Finland	88,34%	93,69%	94,10%	99,31%	99,31%
France	86,48%	92,24%	93,37%	99,17%	98,35%

Honduras	69,11%	82,57%	82,57%	97,55%	98,78%
Hong Kong (CN+EN)	76,90%	87,34%	87,97%	98,10%	98,10%
Hong Kong (EN)	58,22%	75,68%	67,81%	93,15%	93,15%
Ireland	83,08%	90,26%	90,26%	97,95%	97,95%
Italy	87,55%	94,18%	91,77%	99,20%	99,20%
Jordan*	38,82%	81,07%	50,00%	94,71%	95,88%
Kenya*	62,86%	79,37%	79,68%	98,41%	98,41%
Luxemburg	76,85%	83,98%	91,10%	99,11%	97,92%
Malaysia*	75,88%	84,54%	84,67%	98,59%	99,30%
Mexico	70,61%	80,79%	83,37%	97,92%	98,44%
Netherlands	88,06%	93,62%	92,89%	98,86%	97,63%
New Zealand	88,36%	91,23%	95,95%	99,49%	99,33%
Norway	73,07%	81,10%	88,35%	98,27%	98,90%
Panama	56,59%	82,29%	88,12%	74,30%	98,27%
Peru	89,24%	92,66%	95,19%	96,57%	97,48%
Poland	83,45%	88,97%	92,41%	99,08%	98,16%
Portugal*	79,87%	84,28%	94,97%	98,74%	99,37%
Singapore	86,02%	92,03%	92,88%	99,15%	98,98%
South Africa*	67,99%	80,49%	84,76%	96,34%	96,65%
Spain	85,21%	92,50%	90,70%	98,40%	98,45%
Sweden	83,94%	94,62%	88,21%	99,04%	98,89%
Thailand*	80,52%	82,76%	97,99%	99,14%	99,71%
Turkey	96,70%	97,00%	99,70%	100,00%	100,00%
UAE (EN)*	71,97%	79,53%	88,72%	97,45%	97,45%
UAE (EN+AR)*	66,51%	81,60%	83,96%	97,64%	97,64%
UK	75,27%	85,32%	85,94%	98,61%	98,92%
Uruguay	73,79%	82,71%	88,85%	97,58%	98,51%
USA	85,77%	91,72%	92,68%	98,44%	93,19%

* Receipts of this country can be processed starting from ABBYY FlexiCapture 12 Release 4.

4. Commercial invoice processing

Field	F-measure
InvoiceNumber	95,88
InvoiceDate	94,17
Total	94,42
Issuer:Name	91,41
Issuer:Address	89,25
BU:Name	92,18
BU:Address	85,17
BillTo:Name	90,72
BillTo:Address	89,91
ShipTo:Name	93,79
ShipTo:Address	93,71
Currency	87,57
INCOTerm	88,06
AdditionalCosts:Amount	85,38
LineItems:CountryOfOrigin	83,03
LineItems:Currency	85,37
LineItems:Description	83,48
LineItems:HSCode*	73,70
LineItems:Position	93,77
LineItems:Quantity	93,33
LineItems:TotalPrice	96,29
LineItems:UnitOfMeasurement	92,18
LineItems:UnitPrice	94,66

* Low capture quality for the HSCode field has been observed on documents where columns containing this field also contain other data (e.g. inside Description)

Licensing

For ABBYY FlexiCapture 12 Release 4, you need a serial number generated specifically for ABBYY FlexiCapture 12. Serial numbers generated for ABBYY FlexiCapture 12 Release 1, 2 and 3 (with any update) can also be used for Release 4.

Serial numbers for previous versions of ABBYY FlexiCapture cannot be used for ABBYY FlexiCapture 12.

UI languages

ABBYY FlexiCapture 12 Release 4 interface is available in the following languages: English, Russian, German, French, Spanish, Korean, Japanese, Czech, Serbian (Latin), Portuguese (Brazil), Polish, Chinese Simplified, Hungarian and Italian.

Notes:

- The web stations are available in all of the above listed languages except Serbian. The web stations are also translated into Chinese Traditional.
- FlexiLayout Studio is only available in English, German, and Japanese.
- FormDesigner is only available in English and Russian.
- FCAdminTools is only available in English.

Technical information

Release	Part #	Build #	Installer Build #	OCRT build #	Release date
Release 4	1299/54	12.0.4.678	476916	16.2.361.11	13.12.2021

NEW FEATURES

1. ABBYY FlexiCapture for Invoices in P2P and O2C solutions

1.1. Commercial invoices processing

A **commercial invoice** is a customs document for goods crossing international borders as part of international trade. Commercial invoices contain information about the vendor, consignee, specific delivery-related information, and additional information about the goods. You will be able to use a database of companies, create training batches for documents originating from a specific company.

ABBYY FlexiCapture now includes an out-of-the-box solution for processing commercial invoices named "Commercial Invoice." To start capturing commercial invoices, create a new ABBYY FlexiCapture project, selecting **Commercial Invoice Processing** for the type of your project. The newly created project will include a Document Definition named Commercial Invoice, complete with all the required fields and rules.

Important! Only English-language commercial invoices are supported (for all countries using this document format).

Commercial invoice are in many respects similar to invoices, and so are processed using similar algorithms. This means that you will be able to use a database of companies, create training batches for documents originating from a specific company, use country settings for country-specific keywords and tax rates, etc.

To capture commercial invoices fields, the program uses both FlexiLayouts and machine learning based on neural networks. Both methods are intelligently combined to achieve the best possible results. Any fields that the program fails to capture using its machine learning algorithms will be captured by means of a suitable FlexiLayout.

1.1.1. List of fields

Field	Description
Consignee (BU*) field group: <ul style="list-style-type: none">• Name• Address• Consignee ID• Postal Code• Street• City• State or Province	<p>The recipient of the goods.</p> <p>You can use a database of business units. To do this, associate your database of business units with the data set named "BusinessUnits"</p> <p>When no database is used, only the following fields will be captured:</p> <ul style="list-style-type: none">• Name• Address• Tax ID

<ul style="list-style-type: none"> • Country • Tax ID 	
Vendor (Issuer**) field group: <ul style="list-style-type: none"> • Name • Address • Vendor ID • Postal Code • Street • City • State or Province • Country • IBAN • Bank Code • Bank Account • Tax ID • National Tax ID 	<p>The seller of the goods.</p> <p>You can use a database of vendors. To do this, associate your database of vendors with the data set named "Variants"</p> <p>When no database is used, only the following fields will be captured:</p> <ul style="list-style-type: none"> • Name • Address • Tax ID
Ship to (group of fields) <ul style="list-style-type: none"> • Name • Address 	The delivery address.
Bill to (group of fields) <ul style="list-style-type: none"> • Name • Address 	The address to which to send an invoice.
Invoice Number	The invoice number.
Invoice Date	The date the invoice was issued on.
Due Date	The due date of the invoice.
Country of Origin	The country of origin of the goods.
Country of Export	The country of export of the goods.
Country of Destination	The country of destination of the goods.
INCO Term (INCO Variants)	<p>International Commercial Terms rules:</p> <ul style="list-style-type: none"> • EXW: EX Works • FCA: Free Carrier • FAS: Free Alongside Ship • FOB: Free On Board • CFR: Cost And Freight (sometimes also specified as: CNF) • CIF: Cost Insurance Freight • DAP: Delivered At Place (sometimes also specified as: DTU) • DPU: Delivered at Place Unloaded • CPT: Carriage Paid To • CIP: Carriage Insurance Paid

	<ul style="list-style-type: none"> • DDP: Delivered Duty Paid • DDU: Delivered Duty Unpaid • DAT: Delivered at Terminal 	
Mode of Transportation	The mode of transport (land, air, water).	
Waybill Number	The number of the waybill containing information about the shipping and delivery of the goods.	
BoL Number	The number of the bill of lading serving as proof of ownership of the goods.	
Packing List Number	The packing list number for the shipment of the goods.	
Weight	The total weight of the goods.	
Weight UoM	The weight unit of measurement (kilograms, pounds, etc.).	
Total Packages	The total number of packages in the shipment.	
UoM	The unit used for counting, weighing, etc. the goods.	
Total	The total cost of all goods and services invoiced.	
Currency	The currency for the specified amounts charged for goods or services.	
Volume ^{***}	The total volume of the goods.	
Volume UoM ^{***}	The volume unit of measurement (liters, cubic meters, etc.).	
Delivery Date ^{***}	The date when the goods should be delivered.	
HS Code ^{***}	Harmonized System (HS) Codes classification.	
Additional Costs field group: <ul style="list-style-type: none"> • Type • Amount • Currency 	The type, amount, and currency of specified additional costs.	
Purchase Order^{***} repeating field group: <ul style="list-style-type: none"> • Purchase Order Number • Total 	The specified purchase order number and the total amount charged.	
LineItems repeating field group	Position	The invoice line item position.
	Country of Origin	The country of origin for the invoice line item.

	HS Code	Harmonized System (HS) Codes classification.
	Description	A description of the goods.
	Quantity	The quantity of the invoice line item.
	UoM	The unit used for counting, weighing, etc. the goods.
	Unit Price	The price charged for a unit of line item goods.
	Total (=Total price)	The total price charged for all invoice line items (including additional charges and discounts).
	NetWeight	The total net weight (the weight of the line items without packaging).
	NetWeightUoM	The net weight unit of measurement.
	Currency	The currency used in the line items.

* — **BU (Business Unit)** is the internal name of the company acting as the consignee for the goods. The Consignee field group is checked against columns in the Business Units data set.

** — **Issuer** is the internal name of the company acting as the vendor for the goods. The Vendor group of fields is checked against columns in the Variants data set.

*** — These fields are not enabled by default.

1.1.2. Validation rules

A Commercial Invoice Document Definition contains preset automatic verification rules for checking commercial invoices. Any of these rules can be enabled and disabled from the **Rules** tab in the **Document Definition Settings** dialog. You can also set up custom rules.

For details, please refer to [Validation rules](#) in the User's Guide.

1.1.3. Data sets

The "Commercial Invoice" Document Definition uses the following data sets:

- **Business units** – for detecting business units when using an external database.
- **Variants** – for detecting document issuers when using an external database

To connect a data set to your external database:

1. Open the Document Definition Editor.
2. Open the properties of the Commercial Invoice Definition.
3. Click the **Data Sets** tab, select the desired data set, and click **Set Up...**
4. In the **Data Set** dialog box, provide the connection string to be used to connect to your external database and configure the columns, search options, refresh period, and other settings.

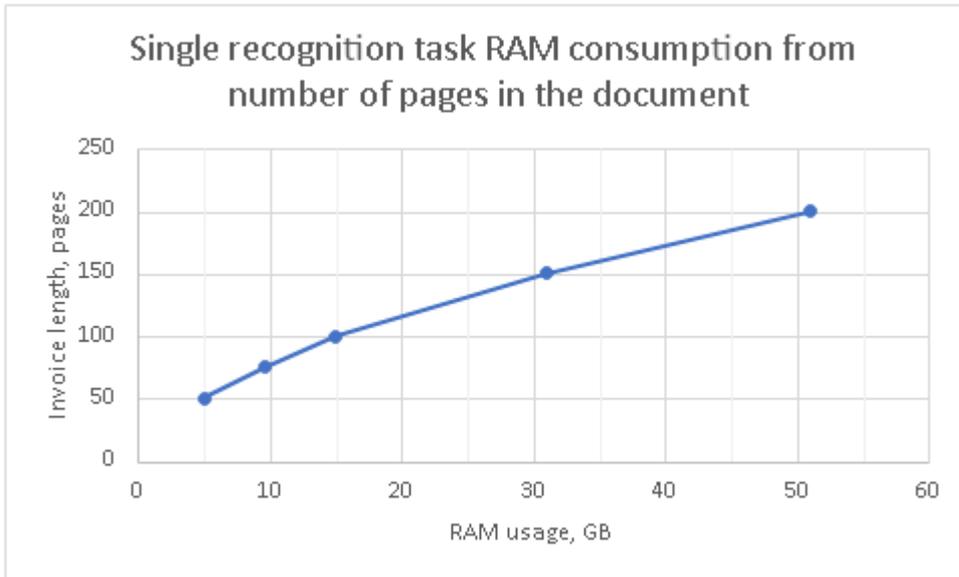
For details, please refer to [Connecting vendor and business unit databases](#) in the User's Guide (this article provides instructions for invoice capture, but they are equally applicable to commercial invoices).

1.1.4. Quality tests

For testing results, see the [Quality test section](#).

1.1.5. Known limitations

This technology relies on a new Neural Network specifically trained for commercial invoices, which provides much higher quality than was available previously. The new Neural Network is resource-intensive and requires a lot of RAM. The exact amount of RAM required depends on the number of pages in your documents.



1.2. New countries supported for receipts

The Neural Network designed to extract fields from receipts has been trained using new images from several countries, allowing more countries to be supported, as well as improving the extraction quality for countries already supported.

- New countries supported in this release: Czech Republic, Portugal, Denmark, Thailand, UAE, Angola, Malaysia, Jordan, Kenya, South Africa.
- Quality of extraction improved for: Singapore, Mexico, Hong Kong.

For testing results, see the [Quality test section](#).

2. Reporting for Business Monitoring

FlexiCapture is usually involved in client-side business processes. To control and improve any business process, the appropriate metrics are required.

Starting from ABBYY FlexiCapture 12 Release 4, a data warehouse has been introduced for business process monitoring purposes. The warehouse contains information that empowers clients to answer the following questions:

- Which batches are currently being processed?
- Which batches are about to break SLA times?
- Have all required batches been processed during the period?
- How many batches were processed with SLA times violations during the period?
- Audit trail (Which path did the document follow, by whom was it edited?)

Data is provided in the form of the current batch state, as well as the entire path taken by each batch in a product.

2.1. Enabling the feature

By default, this functionality is disabled. To enable it, you must first enable it globally and then enable it individually for each tenant that requires this data.

To enable this feature globally, set the *EnableBatchRoutingStatistic* field to *true* in the *dbo.Settings* database table.

To enable data collection for a tenant, cock the first 3 bits in the *Flags* field in the *dbo.Tenant* table. To enable data collection for all tenants in MS SQL, use the following command: `SQL Update Tenant set Flags = Flags | 4`

Please note that there are other features that can be enabled using the *Flags* field in the *dbo.Tenant* table. The following is a sample command that demonstrates how the several features could be enabled at once in MS SQL: `Update Tenant set Flags = Flags | 4 | 2 | 1`

If the feature is enabled, changes made at each stage change for every batch in the tenant are recorded to *dbo.BatchRouting* table, with the current batch states reflected in the *dbo.BatchState* table.

2.2. Getting the data

FlexiCapture provides data as CSV (Comma-Separated Values) files. The files are placed in the FlexiCapture file storage directory, with separate folders for all files for each tenant with the feature enabled. The filepath for these folders is in *TenantName\Reporting* form, with *TenantName* replaced by the tenant's actual name. Two types of data files are provided:

1. The first type corresponds to current batch states and has a name of "BatchState_YYYY-MM-DD HH-MM.csv" format, with the second part of the name specifying the date and time of the state contained in the file.
This file will contain the states for all batches present in the system at that moment.
2. The second type corresponds to the list of stages each batch has been through and has a name in "BatchRouting_--YYYYMMDD - -YYYYMMDD.csv" format, with the second part of the name specifying the period for the data present in the file.
The batch routing file is created for the previous 24-hour calendar day. If a file with the specified name is already present in the directory, the file creation task is skipped.

The period (in milliseconds) after which the files are created is controlled by the following registry key: *ServerShadowActivityManagerProcessBatchReportingPeriod* which is located by the address *HKLM\Software\Flexicapture\12.\FlexiBR*. By default, files are created every 4 hours.

3. Changes in system requirements

Starting from ABBYY FlexiCapture 12 Release 4:

1. The following Windows versions are no longer supported: Windows 7 SP1, Windows 8.1, and Windows Server 2008 R2 SP1.
2. 32-bit operating systems are no longer supported.
3. MS SQL Server versions older than MS SQL Server 2016 SP2 are no longer supported.
4. Windows 11 is now supported.
5. PostgreSQL 11 and later is now supported.

4. ABBYY FlexiCapture for Enterprises

4.1. Improvements to e-mail import

Starting from ABBYY FlexiCapture 12 Release 4, a new mailbox import method has been added. Now you can import several emails over a single connection to the inbox, i.e. several batches can now be created in a single import task, improving the overall performance of email import.

By default, the new import method is disabled. To enable it, specify the maximum number of import task batches that can be created in the *HKEY_LOCAL_MACHINE\SOFTWARE\ABBYY\FlexiCapture\12.0\FlexiBR\HotFolderManagerContinuousImportImportLimit* key on the machine that has the Processing Server installed.

Additionally, a detailed operation time logging feature has been implemented for import tasks. To enable detailed logging, set the following registry key to "true":

HKEY_LOCAL_MACHINE\SOFTWARE\ABBYY\FlexiCapture\12.0\FlexiBR\WriteTimersInTaskLogAllowed=True.

Note: The value of the *WriteTimersInTaskLogAllowed* key is set on machines that are running Processing Stations. By default, its value is set to **false**.

4.2. FCAdminTools. New /Cert, /SourceCert, and /TargetCert keys

Starting from ABBYY FlexiCapture 12 Release 4, FCAdminTools commands can be used on servers that have Mutual SSL installed. The following keys have been added to the commands:

- /Cert - a certificate thumbprint used for mutual SSL authentication. This key is used to pass an encoded certificate hash for a server with Mutual SSL installed as a string.
- /SourceCert - a certificate thumbprint used for mutual SSL authentication on the server of the source project. This key is used to pass an encoded certificate hash for a server with Mutual SSL installed as a string.
- /TargetCert - a certificate thumbprint used for mutual SSL authentication on the server of the target project. This key is used to pass an encoded certificate hash for a server with Mutual SSL installed as a string.

For more information, see [the FCAdminTools command help guide](#).

4.3. New Security event log event types

Starting from ABBYY FlexiCapture 12 Release 4, the following event types have been added to the security event log:

- SET_TenantCreated = 11 (tenant created),
- SET_TenantDeleted = 12 (tenant deleted),
- SET_ProjectDeleted = 13 (project deleted),
- SET_ProjectChanged = 14 (project changed),
- SET_BatchTypeCreated = 15 (batch type created),
- SET_BatchTypeDelete = 16 (batch type deleted),
- SET_BatchTypeChanged = 17 (batch type changed),
- SET_TemplateCreated = 18 (document definition created),
- SET_TemplateDelete = 19 (document definition deleted),
- SET_TemplateChanged = 20 (document definition changed),
- SET_ProjectHotFolderEnable = 21 (project hot folder enabled),
- SET_ProjectHotFolderDisable = 22 (project hot folder disabled),
- SET_ManualCleanUpStart = 23 (manual cleanup started),
- SET_CleanUpEnable = 24 (automatic cleanup enabled),
- SET_CleanUpDisable = 25 (automatic cleanup disabled),
- SET_AuditingConfigurationChanged = 26 (security event log configuration changed)

Every event logged in dbo.SecurityEventLog is identified by the SecurityEventTypeId attribute (values listed above). Moreover, each event can have the following additional attributes:

- Date (the date and time of event),
- Writer (the user that made the change),
- WriterTenantId (the ID of the tenant of the user that made the change),
- Principal (the ID of the user/group affected by the event),
- TenantId (the ID of the tenant that the affected user/group belongs to),
- Details (additional information about the event),
- RemoteHost (the IP address of the computer used to make the change).

5. ABBYY FlexiCapture web applications

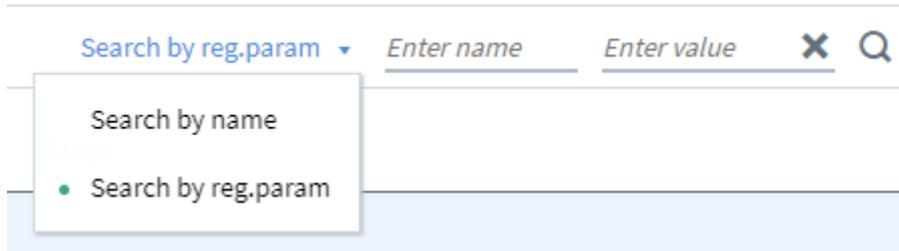
5.1. Filtering batches by registration parameter on Web Capture Stations

Starting from ABBYY FlexiCapture 12 Release 4, users of the Web Capture Station can filter batches by registration parameters. In previous versions, this functionality was only available for Web Verification Stations.

To sort batches by registration parameters:

1. On the Web Capture Station, click  .

2. In the drop-down list, select **Search by reg.param**.



3. Enter the name and value of the desired registration parameter.

Important! This feature works only if the ABBYY Scanning Plugin has been installed from the FlexiCapture 12 Release 4 installation package. If you have an older version of ABBYY Scanning Plugin installed, delete it in Control Panel\Programs\Programs and Features, and then install the new version of the plugin.

6. General improvements

6.1. New handwritten text recognition module

In ABBYY FlexiCapture 12 Release 4, a new module to recognize handwritten text has been added. This module lets you process documents containing handwritten text and data. This can include, for example, handwritten invoices, addresses on mail envelopes, and insurance forms. Previously, FlexiCapture could only recognize hand-printed text. The new module is able to recognize both handwritten and hand-printed text.

Note: The handwritten text recognition module is installed separately. To obtain an installation package for the module, contact ABBYY.

6.1.1. Using the new handwritten text recognition module

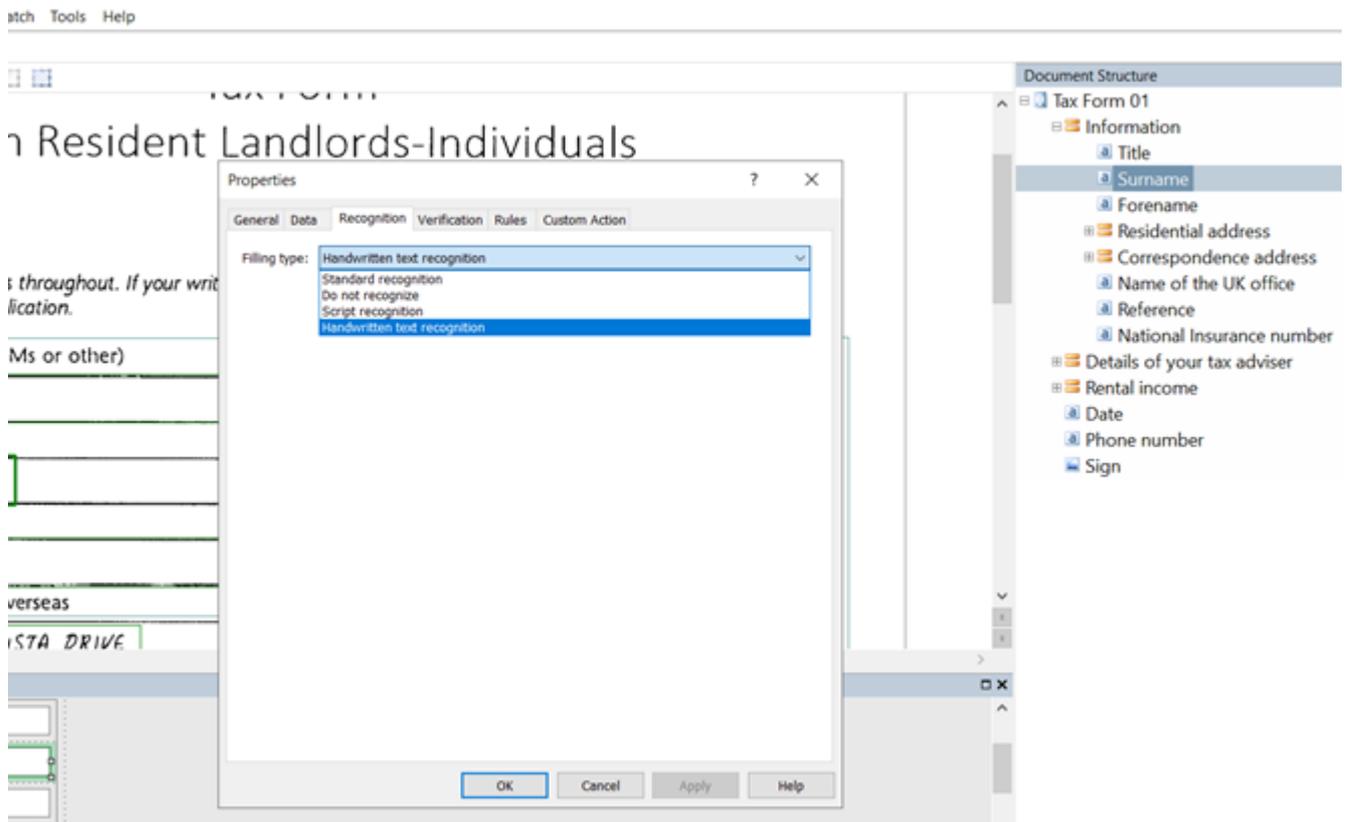
The handwritten text recognition module can be used in any project. Handwritten recognition can only be applied to specific fields, i.e. it cannot be applied to entire pages. The module also supports multi-line fields.

Note: Recognition of handwritten text is only supported for English.

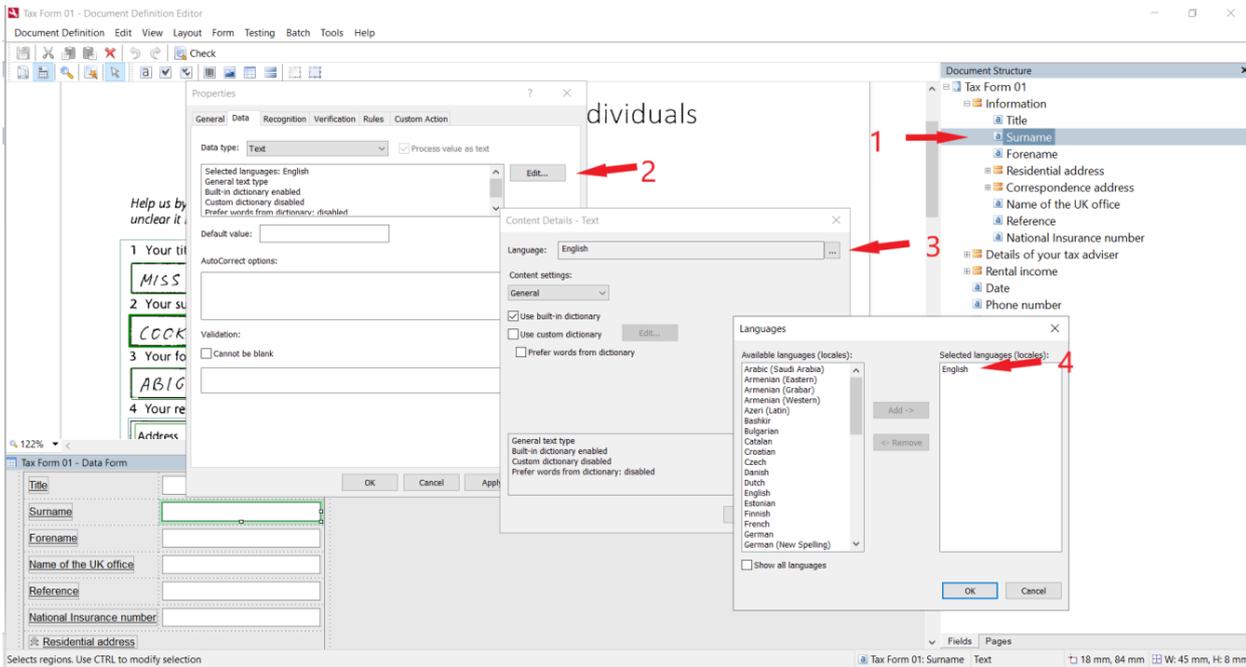
Handwritten text recognition is applied only to text fields and has to be enabled using field properties as follows:

1. Open the Document Definition Editor.
2. Open the properties of the required field.
3. Navigate to the **Recognition** tab.

- In the **Filling type** drop-down list, select **Handwritten text recognition**.



Note: Only one language should be specified in field properties when using handwritten text recognition.



6.1.2. Installing the module

To install the handwritten text recognition module, launch the **ABBY.HTR.1.0.exe** file and follow the instructions of the installation wizard.

Installing and uninstalling the module using the command line in silent mode is also supported:

- Launching the executable file with the **/s** option will install the module in silent mode, e.g.:
 “<path to the installation package>\ABBY.HTR.1.0.exe” /s
- Launching the executable file with the **/uninstall** and **/quiet** options will uninstall the module in silent mode, e.g.:
 “< path to the installation package \ABBY.HTR.1.0.exe>” /uninstall /quiet

6.1.3. Licensing of handwritten text recognition

Licenses have a Handwritten Text Recognition counter, which specifies the number of pages containing handwritten text available for recognition. Pages are subtracted from this counter if the matched Document Definition has at least one field with handwritten text. Pages are always subtracted from the global Pages limit counter as well.

When matching a Document Definition with several sections, pages are subtracted only for sections containing fields with handwritten text. For example, if handwritten text recognition is used in the first of three Document Definition sections, and that section is matched to three pages, only the first of which contains a handwritten text field, that page will be subtracted from the counter, and no pages will be subtracted from the Handwritten Text Recognition counter for the other two pages.

Re-recognition of specific fields on a page that has already been recognized will not affect the counters. Sending a page to re-recognition and deleting the previous results will not subtract a page from the counter. The same applies to re-recognition without deleting the previous results.

Known issues

1. A memory leak occurs in ScanningPluginBR.exe when document separation by blank pages is selected.
2. The "Send" button does not work on the Web Scanning Station for Rescan Tasks.
3. On the Web Monitoring Station, input fields are not displayed in the filter edit dialog sometimes.
4. An "Invalid parameter value" error is shown once when sending batches to server from the Scanning Station under certain conditions.
5. Sometimes, a "Trying to access a deleted object using method FormsController::CBatch::ParentCollection" IPE occurs on import.

Bug fixes

Request	Summary
399540	A "\\HotFolder\ProcessingTasks\Task1520130d contains an invalid path" error occurred when importing from a HotFolder.
404918	A "Cannot read property 'response' of undefined. Error code: rejectSaveTaskError" error occurred when cancelling a task sent using the Pega connector.
288306	A "Cannot search for an element if the last page of the document is undefined." error occurred when testing elements on multipage documents.
299148	The "Continue Line Items" feature did not work as intended.
458328	A "Failed. Type mismatch" error occurred when attempting to rescan tasks on the Web Verification Station.
429170	An "Invalid PDF file" error occurred when importing a document.
429412 , 423255 , 430680 , 436534	A "MorphoSession.cpp, 115" error occurred when training a classifier.
410065	An "RtPageElementsSplitter.cpp, 102" error occurred when exporting a searchable PDF.
304927	A "Sharing violation" error occurred when attempting field extraction training.
290587 , 373513 , 408466	A "The batch ... is at the processing stage" error occurred when attempting to update a training batch

425590	The value variants combo box was not displayed on the Verification Station when the "Cannot be blank" validation rule is selected.
415436	The program crashed when attempting to recognize the text layer of an encrypted PDF file.
428259 , 427290 , 403730	Database deadlocks occurred in various workflow stages.
418504 , 445594	Database deadlocks occurred when creating and deleting batches, as well as when updating batch statistics.
448653	Various documentation improvements.
441430	The encoding name changed from "unicode" to "UTF-16LE" in exported XML files.
452714 , 454786 , 428638	A "Cannot initialize MAPI: Microsoft Outlook is not installed" error occurred when importing emails with *.msg attachments over MS Graph API.
425534	Export to database failed if an additional trigger was used.
421321	A memory leak occurred in FCAdminTools when uploading a project.
435962	Fixed verbose error messages on Web stations.
443986 , 448067 , 451517 , 454319 , 455101	A "FlexiLayout: IPE Src\StudioObjectsTree.cpp, 133" error occurred when trying to convert elements.
422458	Colored text background was sometimes recognized as a symbol if the "Processing of PDF files" field was set to "Auto" in "Image Preprocessing Settings".
389587	The "Auto" image processing setting yielded poor recognition results.
427237	IMAP import failed with an "ORA-12899: value too large for column" error if the cc field of an email contained more than 255 characters.
393476	Hot Folder import failed after page 25 of a document.
441838	Incorrect dates were displayed in the Administration and Monitoring console in the "Interval" field in the Reports section.
410452	Incorrect text was extracted from PDF files where the text layer was encoded in UTF16.
386265 , 410143 , 427027	Incorrect text was extracted from some PDF files with the correct text layer.
437498	An "EnumConverterFT.h, 51" IPE occurred when scanning pages from folder using the Scanning Plugin.
424002	An "FSSerializedPdfFontStyle.cpp, 47" IPE occurred during recognition.
445015	An "RectangularAreasMapBodyGrid.cpp, 50" IPE occurred.

402222	An "Src\ReceiptParams.cpp, 103" IPE occurred in Receipt projects when creating a new document per each image file selected.
408249	Processing of large documents was interrupted after reaching page 153 of a document.
451251	Database deadlocks caused the system throughput to decrease after upgrading from version 11 of FlexiCapture.
452127	The "Dataset", "External database", and "Source type" elements were incorrectly placed in the Database Check Rule interface of the Japanese UI.
394388	Normalization did not work for fields of the "date" type when pressing the Tab key quickly to switch to the following field after editing the previous one.
430531 , 453197	PDF documents have a black background when imported to FlexiCapture.
459296	Rescan tasks were not displayed in the Scanning Station's Rescan Tasks section.
340500	"InvoiceIsVendorSuspicious" sometimes had the wrong value.
424554	The batch Info window could not be scrolled while working on a Web Verification station.
444751	The time spent on the task from web verification was not tracked in the database and reports.
314688	An unexpected "FC_Verification_TaskClosed" error occurred when using web verification in iframe over FlexiCapture Cloud REST API.
432543	Verification results were not saved if the annex page was removed.
440276	The Verification task could not be created if the document set contained more than 150 documents.
298136	Web Capture Station did not use the PDF processing settings from the batch type.
419419	Using the VBScript for the IExportImageSavingOptions::FieldsToRedact export property returned an object of the wrong type.
379890	Documents split by barcodes were named incorrectly on the Scanning Station when the "Delete separation pages" option was used.
461008	During the project upgrade some elements on trained layouts are lost.
393425	MS Graph shared mailbox support.