

ABBYY FineReader Server 14 Release 4 Release Notes

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Introduction

About this document

This document describes the improvements that have been implemented in ABBYY FineReader Server 14 Release 4.

Installing the new version

ABBYY FineReader Server 14 Release 4 can be installed on a computer that has ABBYY Recognition Server 4 or earlier installed.

The configuration settings from your previous version of ABBYY Recognition Server can be imported into ABBYY FineReader Server 14. For further information, please see “Upgrading from previous versions” in the *System Administrator’s Guide*.

ABBYY FineReader Server 14 Release 1 cannot be updated automatically to ABBYY FineReader Server 14 Release 4.

However, ABBYY FineReader Server 14 Release 1 Update 1 and later can be automatically updated to ABBYY FineReader Server 14 Release 4.

1. Release 4

1.1. Key improvements

ABBYY FineReader Server 14 Release 4, part #1340/32, build # 14.0.4.005, OCR Technologies build # 16.3.404.3, release date 31.08.2023

- Ability to remove metadata from output files
- Export to JSON
- Ability to search content using regular expressions in audit workflows
- Login/password for timestamp server in workflow settings
- Ability to remove online licenses
- Ability to switch licenses automatically
- Improved productivity compared to ABBYY FineReader Server 14 Release 2
- Added neural-network-based OCR for European languages

1.2. Ability to remove metadata from output files

FineReader Server 14 Release 3 now allows users to delete metadata from output files. This is useful when users need to delete the personal data of their employees before publishing documents outside their organization or archiving documents.

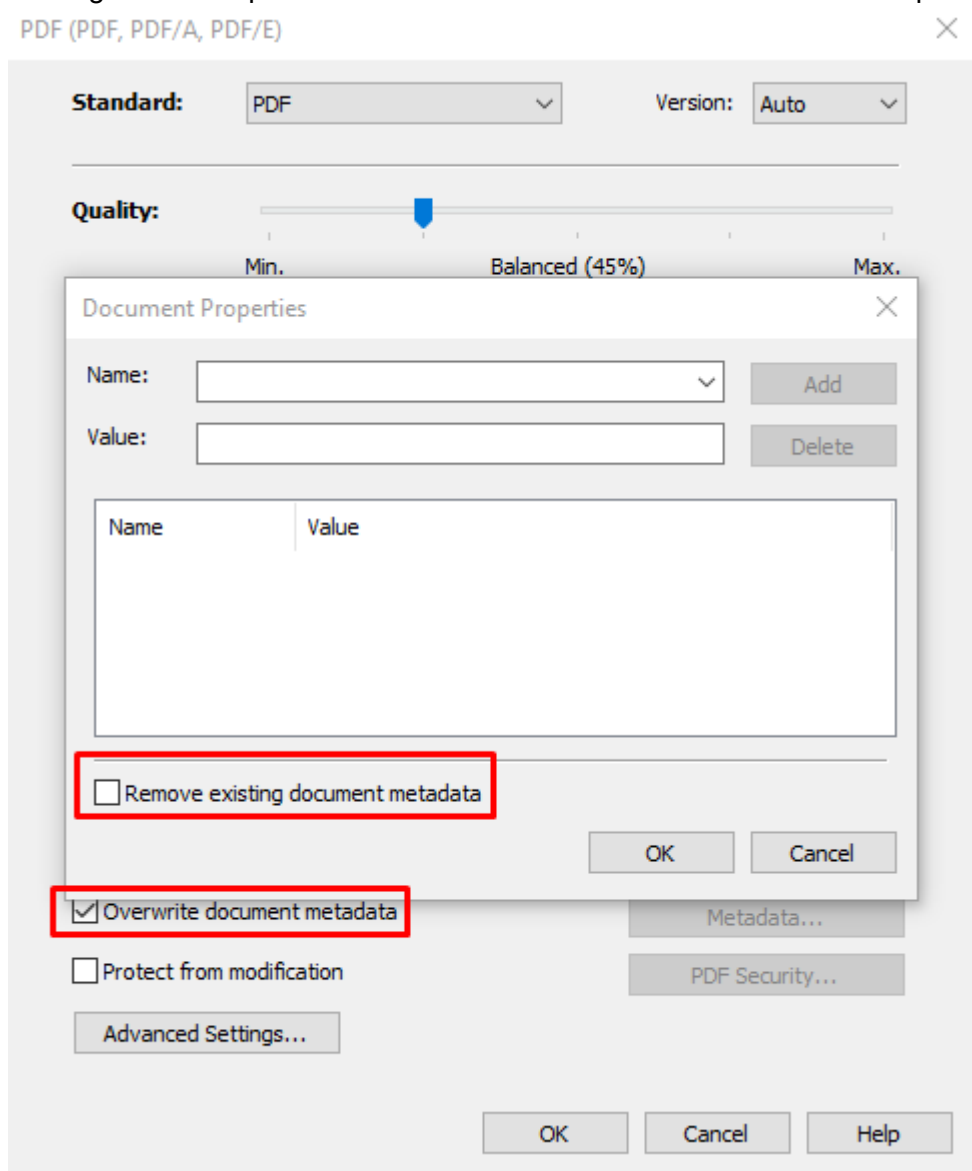
Metadata will only be removed from output files in the following office formats: PDF, DOC(X), XLS(X), and PPT(X). Metadata containing author names and document names will be deleted.

No metadata will be removed from output files in any other formats.

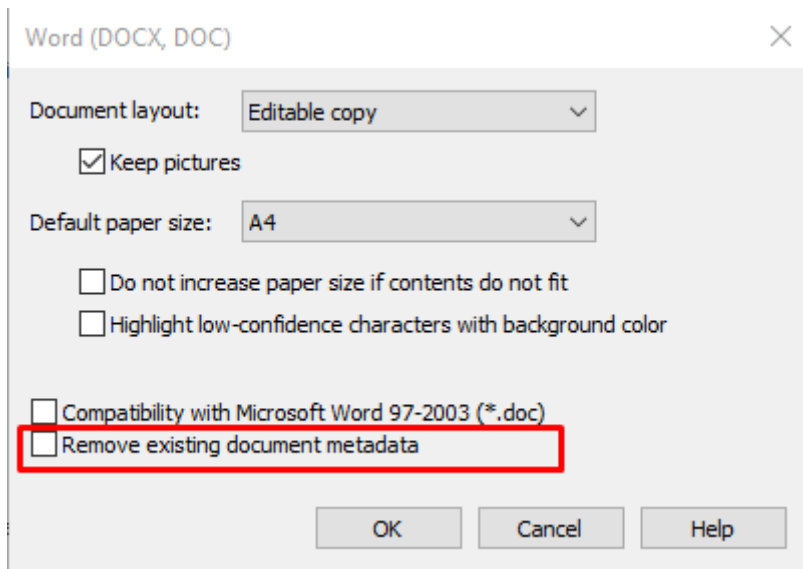
When Word, Excel or PowerPoint documents are converted to Word, Excel or PowerPoint, or when documents are saved into any of the above formats, metadata will only be removed if Microsoft Office is specified as the conversion application in the workflow.

To remove metadata from output documents, users will need to select the corresponding option in the output settings dialog box of the corresponding format:

- For PDF, the **Remove existing document metadata** option can be found in the dialog box that opens when the **Overwrite document metadata** option is selected:



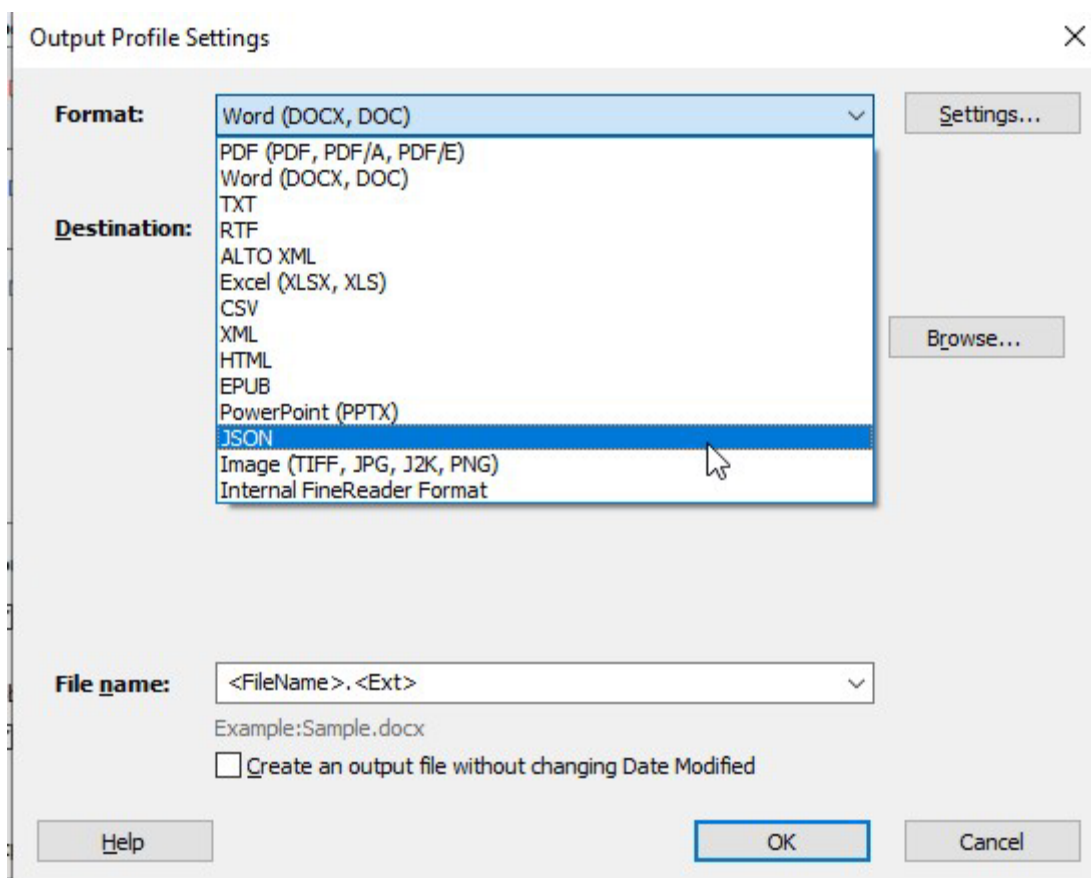
- For Word, Excel, and PowerPoint, the **Remove existing document metadata** option can be found in the output settings dialog box of the respective format. The screenshot below shows the Microsoft Word output settings dialog box:



1.3. Export to JSON

In ABBYY FineReader Server 14 Release 3, JSON has been added as an output format. Output JSON files will contain information about the recognized text and its formatting.

JSON can be selected in the **Output Profile Settings** dialog box:



1.4. Ability to search content using regular expressions in audit workflows

In archiving and storage optimization scenarios, users can now use regular expressions in audit workflows to find documents in selected document stores. The program will search for text strings in all the documents in any of the supported formats, including image formats.

This feature will help users get a clearer picture of what's inside their document libraries before they start processing their documents.

For demonstration purposes, a number of sample regular expressions have been provided.

To use regular expression search, the user will need to enter one or more regular expressions, specify the languages of the documents to be searched, and specify the document store containing the documents.

The audit workflow will create a report listing the documents that contain text strings matching the regular expression(s).

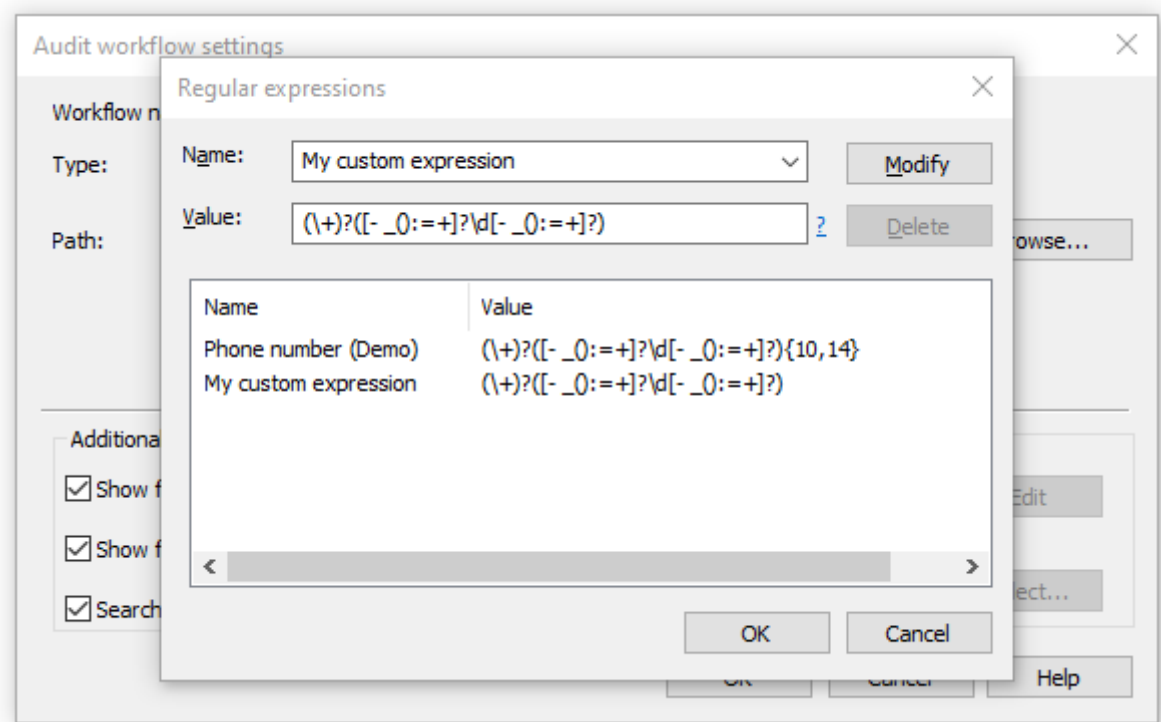
To search for documents containing text matching a regular expression, the user must select the **Search for text patterns** option when creating or editing their audit workflow:

The screenshot shows the 'Audit workflow settings' dialog box. It has a title bar with a close button (X). The main area is divided into several sections:

- Workflow name:** A text input field containing 'Workflow'.
- Type:** A dropdown menu showing 'Shared Folder'.
- Path:** A text input field containing 'C:\Users\osudeykina\Desktop\for audit workflow' and a 'Browse...' button.
- Additional reports:** A section with three checked checkboxes:
 - 'Show files larger than' with a value of '100' and 'MB'.
 - 'Show files older than' with a date '18.06.2020' and a dropdown arrow.
 - 'Search for duplicate files'.
- Regular expression search:** A section with a red border around the 'Search for text patterns' checkbox and the 'Edit' button. Below it, 'Document languages:' is set to 'English' with a 'Select...' button.

At the bottom, there are three buttons: 'OK', 'Cancel', and 'Help'.

In the **Regular expressions** dialog box, the user must enter their desired regular expression(s):



Once the regular expressions have been specified, the user will be taken to the previous dialog box, where they will need to select the language(s) of the documents to be searched.

1.5. Login/password for timestamp server in workflow settings

Users can now specify the address, login, and password required to access the timestamp server used for their digital signatures.

This is done by adding two tags for the login and password after the address of the timestamp server in the XML file containing the workflow settings:

```
<TimestampServer>timestamp.digicert.com</TimestampServer>
<TimestampServerLogin>Login</TimestampServerLogin>
<TimestampServerPassword>Password</TimestampServerPassword>
```

1.6. Ability to remove online licenses

In scenarios where all online license data must be removed, a /CloudLogout command is now available in LicenseManagerConsole.exe.

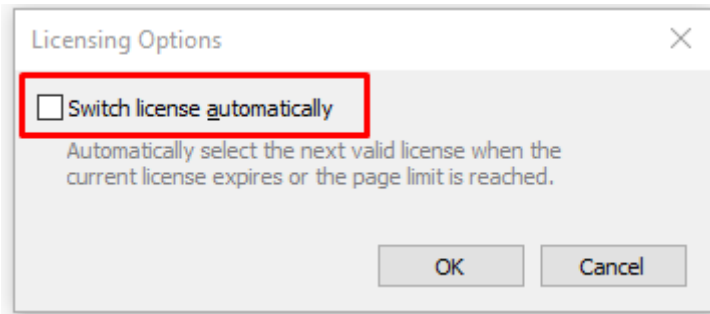
This is typically required when transferring licenses between computers without waiting for CloudTicketExpiration or CloudTicketUpdate. The user now can:

- Save the online token for the current licenses
- Execute /CloudLogout on the source computer
- Import the token to the target computer

1.7. Ability to switch licenses automatically

Now if a user has several valid licenses (e.g., one license that expires at the end of the year and one license that allows processing a certain number of pages), the user can set up ABBYY FineReader Server to switch to the next valid license when the current license expires.

To automatically select the next valid license, the user needs to right-click the **Licensing** node in the console, select the **Licensing Options** item on the shortcut menu, and then select the **Switch license automatically** option.



1.8. Improved productivity

As ABBYY document processing technologies evolve, internal tests have shown ABBYY FineReader Server 14 Release 3 to be 3-8% more productive (depending on the settings) than ABBYY FineReader Server 14 Release 2 and 15-40% more productive than ABBYY FineReader Server 14 Release 1.

All the tests were carried out using ABBYY's collections of sample documents. Results obtained on other document collections may be different.

1.9. Added NN-based OCR for European languages

Starting from ABBYY FineReader Server 14 Release 3, neural networks are used to recognize documents in European languages.

1.10. Key bug fixes

Issue description
Error processing files: Cannot open the image file. The file may be corrupted. – Fixed
The following error occurs when opening the console after changing the Chief Administrator password: ABBYY FineReader Server 14 reported an error: Failed to retrieve login status collection. Authentication failed: invalid login name or password. – Fixed
A client reported a vulnerability in OpenOffice. The ABBYY OpenOffice version shas been updated. – Fixed

2. Release 4 Patch 1

ABBYY FineReader Server 14 Release 4 Patch 1, part #1340/33, build # 14.0.4.668, OCR Technologies build # 16.3.404.5, release date 21.11.2023

- Fixing the error "Time.cpp, 232" and "Service does not start with error 20050323"
- Fixing authorization errors in Oauth using Chilkat

3. Release 4 Patch 2

ABBYY FineReader Server 14 Release 4 Patch 2, part #1340/34, build # 14.0.4.672, OCR Technologies build # 16.3.404.5, release date 29.11.2023

- Processing of incorrect photometric interpretation

4. Release 4 Update 1

ABBYY FineReader Server 14 Release 4 Update 1, part #1340/35, build # 14.0.4.678, OCR Technologies build # 16.3.614.6, release date 29.03.2024

4.1. Key improvements

- Updates to third-party components that include fixes for vulnerabilities.
- Content Security Policy support
- "MS SQL Server LocalDB" and "MS OLE DB Driver for SQL Server" are now installed only if the "Server Manager" component is selected.

4.2. Updates to third-party components

In this release the following were updated:

- OpenOffice, up to version 4.1.15
- MS OLEDB Driver up to version 18.6.7
- libcurl up to version 8.4.0
- Swagger UI up to version 5.11.0
- JQuery up to version 3.6.0

These updates include fixes for the latest known vulnerabilities.

4.3. Content Security Policy support

The Web API and Document Conversion Service support the use of Content Security Policy.

This policy can be configured in the file:

c:\Program Files\ABBYY FineReader Server 14.0\FineReaderServerWS\Web.config

In the *<customHeaders>* section

In this section you need to specify the line:

```
<add name="Content-Security-Policy" value="default-src https: http: data: 'unsafe-inline' 'unsafe-eval';" />
```

Here are the default settings, the client can use them or change them if necessary.

4.4. Key bug fixes

Issue description
Fixed errors when using the Aggressive detection of vertical text setting, when horizontal text was recognized as vertical.
Fixed license registration server
Fixing error size of image exceed maximum allowed size
PDF and PDF\A versions are set correctly
Don't show the stack for errors in OpenOffice
Job Log filtering fixes
Fixed a bug in the work scheduler
Fixed a bug with text not being placed in frames when exporting to docx
Errors in resources in Japanese have been corrected
Fixed IPE in RLEImage.cpp
Fixed IPE in LinearAlgebra.cpp
Fixed IPE in TextColumnAnalysis.Arc.cpp
Fixed IPE in ProjectiveTransformationParams.cpp
Fixed IPE in FoundTextBlock.cpp
Fixed IPE in DocumentAnalysis.Quality.inl

5. Release 4 Update 1 Patch 1

ABBYY FineReader Server 14 Release 4 Update 1 Patch 1, part #1340/36, build # 14.0.4.680, OCR Technologies build # 16.3.614.6, release date 23.04.2024

5.1. Fixed issue with oAuth authorization

This release fixes the issue encountered by customers using oAuth authorization in MS SharePoint and for accessing POP3, IMAP, MS Graph, and SMTP mail protocols.

Customers encountering this issue, or those who wish to use oAuth authorization, need to update to the latest release.