

Kofax RPA

Release Notes

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KOFAX

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Chapter 1

About This Release

The release notes give you late-breaking information about Kofax RPA 10.7.0. Please read this document carefully, as it contains information that is not included in other Kofax RPA documentation.

Version information

The version number for this Kofax RPA product is 10.7.0 and the build number is 162.

To verify the version number, do the following.

- In Design Studio, go to **Help > About**.
- In Management Console, look for the version number in the top left corner near the product name.

System requirements

For information on supported operating systems and other system requirements, see the *Kofax RPA Technical Specifications* document on the [Kofax RPA support page](#).

Product documentation

The documentation set for Kofax RPA is available here:¹

https://docshield.kofax.com/Portal/Products/RPA/10.7.0_oc6xl3vcnp/RPA.htm

You can also access individual guides and online help directly from your Kofax RPA installation. When you click the help button in Design Studio, Management Console, Desktop Automation Service, and Process Discovery, online documentation appears in a new browser window.

Note If the security policy for your organization restricts Internet access or the Internet connection is not stable, you can access the documentation in offline mode while using the product.

¹ You must be connected to the Internet to access the full documentation set online.

Offline documentation

To make the documentation available for use in offline mode, obtain the documentation files from the Kofax RPA product package that you downloaded from the [Kofax Fulfillment Site](#). The product package includes the following documentation files for offline use:

- `KofaxRPADocumentation_10.7.0_EN.zip`
Contains the entire Kofax RPA documentation set in English. This file is required for all users who work in offline mode.
- `KofaxRPADocumentation_10.7.0_JA.zip`
Contains the Kofax RPA documentation set that is available in Japanese. At this time, the following documentation is translated to Japanese: *Help for Kofax RPA* (also available in PDF format as *Kofax RPA User's Guide*), *Kofax RPA Desktop Automation Service Guide*, and *Kofax RPA Getting Started with Document Transformation Guide*.

After you install the Kofax RPA product, extract the contents of the documentation .zip files for the languages you require. The .zip file for each language contains the following folders:

- API
- Design Studio
- Desktop Automation Service
- Management Console
- Process Discovery

After you extract the files, the documentation folder for Design Studio, Desktop Automation Service, and Process Discovery will have the following structure:

- `documentation`
 - `EN` and/or `JA` (for English and Japanese, respectively)
 - `print` and/or `help` (for PDF documentation and Help for Kofax RPA, respectively)

For the Management Console, there are no documentation or language code folders, and only the `ManagementConsoleHelp.war` file will be added to the Management Console program files.

When the offline documentation is installed for an RPA component according to the instructions below, the component will use the offline version of the documentation by default, even if an active Internet connection exists.

Offline API documentation

The API folder contains the API references in English.

1. Copy the API folder from the English .zip file extracted above to any folder on your computer.
2. In this folder, double-click **Overview.html** to open the API documentation.

Offline documentation for Design Studio

1. Open the `Design Studio` folder from the English .zip file extracted above and copy the `EN` folder to one of the following folders, depending on your installation:
 - `C:\Program Files(x86)\Kofax RPA 10.7.0.0 x32\documentation`
 - `C:\Program Files\Kofax RPA 10.7.0.0 x64\documentation`
2. If you require the Japanese documentation, open the `Design Studio` folder from the Japanese .zip file extracted above and copy the `JA` folder to the same location.
3. Start Design Studio and navigate to **Settings > Design Studio Settings**.
4. On the **General** tab, in **Documentation location**, select **Offline** in the list.
5. Save the changes.

To switch to online mode, select **Online** in **Design Studio Settings** and save the changes.

Note If you try to access the online documentation from Kofax RPA without Internet access, the **Retrieving help and documentation** warning is displayed. If you select **Do not show this notification again** and later you want to reset this option, select **Show documentation retrieval notifications** on the **General** tab in **Design Studio Settings**.

Offline documentation for Management Console

1. Open the `Management Console` folder from the English .zip file extracted above and copy the `ManagementConsoleHelp.war` file to:
`C:\<Tomcat installation folder>\Tomcat <version>\webapps`

Note The English and Japanese .zip files contain the same .war file, which includes both English and Japanese documentation. If you copied the .war file from the English .zip file and you require the Japanese version of documentation, no further actions are needed.

2. Start the Management Console.
3. On the **Admin** tab, in the **Settings** section, open the **Base URL** settings.
4. Select **Use local documentation**. In **Local Documentation base URL**, specify the URL to the Tomcat website containing the documentation.
Example: `http://localhost:8080/ManagementConsoleHelp/`
5. Save the changes.

You may need to refresh the Management Console for the changes to take effect.

To switch to online mode, clear **Use local documentation** in the Base URL settings and save the changes.

Offline documentation for Desktop Automation Service

1. In the following folder, create a new folder called `documentation`.
`C:\Program Files(x86)\RPA DesktopAutomation 10.7.0.0 x32\documentation`
2. Open the `Desktop Automation Service` folder from the English .zip file extracted above and copy the `EN` folder to the newly created `documentation` folder.
3. If you require the Japanese documentation, open the `Desktop Automation Service` folder from the Japanese .zip file extracted above and copy the `JA` folder to the same location.

To switch to online mode, delete or move the `documentation` folder from the `RPA DesktopAutomation 10.7.0.0 x32` folder.

Offline documentation for Process Discovery

1. In each of the following folders, create a new folder called `documentation`.
 - `C:\Program Files (x86)\Kofax RPA Process Discovery Agent 10.7.0.0 x32`
 - `C:\Program Files (x86)\Kofax RPA Process Discovery Analyzer 10.7.0.0 x32`
2. Open the `Process Discovery` folder from the English .zip file extracted above and copy the `EN` folder to the newly created `documentation` folders.
3. If you require the Japanese documentation, open the `Process Discovery` folder from the Japanese .zip file extracted above and copy the `JA` folder to the same locations.

To switch to online mode, delete or move the `documentation` folder from the `Kofax RPA Process Discovery Agent 10.7.0.0 x32` and `Kofax RPA Process Discovery Analyzer 10.7.0.0 x32` folders.

New features

This section lists the features that are introduced in this product release.

Sentiment analysis and named entity extraction in Document Transformation

The Kofax RPA Document Transformation Service can now perform sentiment analysis and named entity extraction. The Sentiment project provided with the installation helps you detect the mood of the text, such as positive or negative, and extract entities, such as company names, person names, and so on. You can use the Sentiment project to process customer reviews to understand whether customers are satisfied with the service or not. Moreover, you can use it to find all mentions of your company in an article.

For more information, see "Open Document Transformation Browser" in the *Help for Kofax RPA*.

Commenting for steps

In the Desktop Automation Editor, you can now write comments for steps and Group steps in the Comment window.

For more information, see "Desktop Automation Editor" in the *Help for Kofax RPA*.

Tagging for robots

One or more tags can now be created for a robot. The tags are displayed in the Management Console and can be used to filter the list of robots. A tag can include up to 128 characters, both numbers and letters.

Improvements in Design Studio user interface

The following improvements are introduced to the Design Studio user interface:

- Windows in Design Studio are dockable now: They can be moved, re-sized, or docked to its default position.
- Support for multiple screens setup.
- The My Projects view, Shared Projects view, and Database view are merged into one My Projects pane.

Improvements in Desktop Automation Editor

The following improvements are introduced to the Desktop Automation Editor:

- Ability to save the automation workflow to a PDF file
- Ability to go to the current flow point in the automation workflow
- Ability to select range of steps by using Shift and Ctrl

Multi-version clusters

A cluster can include RoboServers of different Kofax RPA product versions, making it possible to gradually update the robots. In the cluster, robots of older versions are forwarded to the nearest available version of RoboServer. You can also specify a Kofax RPA version after which legacy robots should not be upgraded beyond.

For more information, see "RoboServer" and "Configure Cluster Settings" in the *Help for Kofax RPA*.

Dynamic license distribution

Starting with this version of Kofax RPA, you can switch between **static** and **dynamic** CRE (Concurrent Robot Execution) license distribution in clusters. In static mode, CREs are distributed evenly between online RoboServers in the cluster. In dynamic mode, RoboServers receive the licenses from the cluster per request. A RoboServer can get as many licenses as it requests if they are available.

For more information, see "Concurrent Robot Execution" in the *Kofax RPA Installation Guide*.

Automatic Desktop Automation Service upgrade

Kofax RPA Desktop Automation Service can run multiple versions of robots, which is done by automatically downloading the needed packages from the Management Console and seamlessly upgrading or downgrading the service to match the robot version. The installed service package options are located on the Windows tab in the Desktop Automation Service window.

For more information, see "Configure Desktop Automation Service" in the *Help for Kofax RPA*.

General finder improvements

When designing a Desktop Automation workflow to automate Windows applications, websites in built-in browser, spreadsheet processing in Excel driver, and document processing in Document Transformation Service, each step now uses an improved heuristic for finders based on the type of application, to reduce the need for users to manually reconfigure finders to produce a robust robot.

Improved trace logging for robot steps

The trace log for robots is improved and now includes more detailed information on the executed robot. For the Desktop Automation steps, the statements in the log are prefixed with DA.

For more information, see "Profiling" in the *Help for Kofax RPA*.

Improved event logging for Desktop Automation Service

Kofax RPA now collects usage information on specific Desktop Automation Service events, such as time the event occurred, type of event, name of the robot, execution ID, and so on.

For more information, see "Logging for Desktop Automation Service" in the *Help for Kofax RPA*.

Enhanced conversion functionality in Desktop Automation

The conversion functionality of Desktop Automation facilitates data conversion and robot development. With this functionality, you can automatically convert manually entered data and, together with extract steps, convert extracted data and then store the result in variables.

Collectively, the group of the following steps is referred to as a converter group:

- Convert Value
- Extract Value
- Extract Clipboard
- Extract Tree as XML

You can use these steps to extract and/or convert data.

For more information, see the respective sections and "Data Conversion" in the *Help for Kofax RPA*.

Configure Management Console WAR file

Kofax RPA contains the `Configurator.jar` command-line tool to extract configuration from or apply configuration to a Management Console WAR file.

You can use this tool to apply necessary settings to Management Console WAR file, such as when upgrading your Kofax RPA installation without tedious manual configuration of each installed Management Console.

For more information, see "Configure Management Console WAR file" in the *Kofax RPA Administrator's Guide*.

"Manual processing time saved" report

The "Manual processing time saved" table in the Kofax Analytics for RPA Overview report provides information on the difference between the value specified in the Human Processing Time option in the Robot Configuration dialog box in Design Studio and the actual duration of the robot run calculated for all robot runs during the specified period. In the Human Processing Time option, you can specify the time required for a person to perform the same task that the selected robot performs during its run.

For more information, see [Additional Documentation](#) and "Kofax Analytics for RPA views" in the *Kofax RPA Administrator's Guide*.

Robot File System on SFTP and FTP

The Robot File System can now be configured on SFTP and FTP servers. For FTP, FTPS is supported.

For more information, see "Robot File System" in the *Help for Kofax RPA*.

Ability to save file to Robot File System in built-in browser

When downloading a file from a website in Desktop Automation or saving the open web page as a PDF document, you can now choose to store the file on a Robot File System.

For more information, see "Access Websites" in the *Help for Kofax RPA*.

Ability to extract value from control elements in Desktop Automation

In the built-in browser in Desktop Automation, you can now extract the value of a form control element, such as input and textarea elements, and store it in a variable. This can be useful when you need to extract the content from a pre-filled, interactive web form, such as a person's name, email address, telephone number, date of birth, and so on.

For more information, see [Additional Documentation](#).

Docker support for Document Transformation Service

In this release, the Docker support is added to the Document Transformation Service, which includes additions for the sentiment analysis and named entity extraction.

For more information, see the respective Docker readme file included in your installation.

Changes in behavior

This section describes product behavior that is changed in Kofax RPA 10.7.0.

Number of login attempts not limited

In previous Kofax RPA versions, by default, the number of login attempts performed by a user was limited to three and the wait time before the next attempt was limited to ten minutes. Starting with this version, the check for login attempts and wait time is disabled by default.

For more information, see [Additional Documentation](#).

Number of matches limited in image finder

The image finder is limited to 3000 matches per finder, such as a robot stops searching for a matching image after it finds 3000 instances.

"Recorder view" renamed to "Applications"

The Recorder view pane in Design Studio is renamed to Applications.

The documentation does not yet contain this change and will be updated in an upcoming release.

Kofax Analytics for RPA documentation relocated

Starting with Kofax RPA version 10.6, Kofax Analytics for RPA installation and configuration documentation is included in the "Kofax Analytics for RPA" chapter in the *Kofax RPA Administrator's Guide*.

Chapter 2

Resolved Issues

This chapter lists the resolved issues in Kofax RPA 10.7.0. Each Kofax RPA product release is cumulative and includes the resolved issues from earlier releases.

Japanese strings in Migrate dialog box were incorrect

1316148: In the Migrate dialog box, the "How to backup" drop-down menu contained incorrect Japanese strings.

Send databases setting worked incorrectly

1309786: When setting "Send databases from this cluster to Design Studio" in the Management Console to "All Clusters," the list of databases could only be retrieved by the admin user, though any user with the View privilege should be able to get the databases related to the respective cluster.

Error when calling stored procedure

1306592: Calling a stored SQL procedure in a DB2 instance caused an error.

The nonce-`<base64-value>` inline scripts not supported

1303794: The "nonce-`<base64-value>`" part in the script-src directive was not supported, which led to errors when inline scripts were executed.

Resource file could not be deleted

1299698: A Resource file could not be deleted from the Management Console after restoring the project.

Open Excel file led to errors

1295467: An open Excel file with grouped rows and columns caused errors.

Management Console in LDAP mode did not work

1295466: The Management Console did not work in the LDAP mode.

Extract Location step could become unresponsive

1294146: The Extract Location step could become unresponsive on components with zero width and/or height.

Design Studio returned 407 error

1293164: Design Studio returned the 407 proxy authentication required error when the proxy was used to connect to the Management Console to get a license.

Provisional loads not reset after browser was stopped

1290938: When the built-in browser was stopped by WaitCriteria but provisional loads did not finish yet, they were reset incorrectly.

Right-click action did not work in built-in browser

1293158: The right-click action did not work in the built-in browser in Desktop Automation.

Characters in localized version of Kofax Analytics for RPA displayed incorrectly

1281128: Characters in the localized version of Kofax Analytics for RPA could be displayed incorrectly if you used MySQL 5.7 or earlier with Insight for data and meta databases.

Garbage characters displayed in email address

1266699: If the user included Japanese characters in the To Address field of a Send Email step, garbage characters were displayed in the To field for the recipient.

Lookup password did not work with proxies

1075661: The Lookup Password step did not work with proxies needed for robot processing.

Offset in Applications view

765652: When using Windows 10 in combination with VMware for Desktop Automation, the rendering in the Applications view (former Recorder View) could be offset.

Chapter 3

Known Issues

This chapter contains information about potential issues that you may encounter while using Kofax RPA 10.7.0. The workarounds are provided, as applicable.

RoboServers cannot be re-added to Management Console

1324417: RoboServers cannot be re-added to the Management Console after changing the license distribution mode to Static.

WebClient service must have Startup Type set to Automatic

1324413: For the Desktop Automation Service to mount a Robot File System share, the WebClient service on Windows must have Startup Type set to Automatic. On Windows 7 and Windows 10 the WebClient service startup is set to Manual by default. The first time the service tries to mount a share, an error 67 is generated, but the mounting attempt starts the WebClient service.

License distribution compatibility issue

1324411: Dynamic license distribution in clusters is not available for RoboServers version 10.3.x to 10.6.x until fix packs for those versions are released. If you change the license distribution mode from Static to Dynamic, RoboServers below version 10.7 without fix packs are disabled and not visible on the RoboServers tab in the Management Console. To enable the RoboServers, change the license distribution to the Static mode.

Management Console can become unresponsive

1314188: If the RoboServer logging database cannot be reached, the Management Console can become unresponsive.

Document Transformation .NET version requirement

1313129: The sentiment analysis and named entity extraction features require .NET version 4.7.2 or higher on Windows 2010 and Windows Server 2016.

Workaround: Install the latest .NET version to use these features on Windows 2010 and Windows Server 2016.

Issue with deleting file from Windows mapped share

1312329: When the Robot File System file share is mapped to a Windows drive (as configured in the Desktop Automation Service), the Windows WebDAV client used for the mapping caches information from the file share. On rare occasions, it may cause the mapped Windows drive to have an outdated view of the file share.

Workaround: Turn off the caching in the Windows Registry on the computer where the Desktop Automation Service is running.

1. In the registry, locate the following key:

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\MRxDAV\Parameters
```

2. Change the value of the following parameters to **0**.

- FileNotFoundCacheLifeTimeInSec
- FileInformationCacheLifeTimeInSec

3. Restart the computer.

Automatic Desktop Automation Service upgrade limitations

If you upgrade Desktop Automation Service from 10.6 to 10.7 as described in the "Automatic Desktop Automation Service Upgrade" in the *Kofax RPA Installation Guide*, note the following:

- The installed packages are not listed on the Windows tab of the Desktop Automation Service configuration window.
- You cannot lock a package, thus trigger robots will not work.

Workaround: Perform a regular DAS 10.7 installation to enable the full Automatic Desktop Automation Service upgrade functionality.

Lock screen and RDP connection features support

The lock screen and RDP connection features in Desktop Automation are only supported if the Desktop Automation Service runs on Pro or Enterprise editions of Windows 7 or Windows 10. The Home edition of Windows does not have the remote desktop host and cannot be connected to using RDP.

Windows Server 2016: security settings update required

Running the Document Transformation Service on Windows Server 2016 requires the following change to the Windows security settings:

1. In the *IIS AppPool\Kofax RPA Document Transformation Client* script, add an entry for the Thin Client IIS application pool user.
2. Open security settings for `C:\Document Transformation\Batch`.
3. Allow all missing permissions for the user, save the changes, and apply the settings.

No title in some applications

747918: In the Desktop Automation Editor, applications opened with "Run as Administrator" can be seen but they do not have an application title.

To see all application titles in the widget tree in the editor, run Design Studio with administrator rights.

Accented characters cannot be input on Linux

746316: Accented characters using a dead key cannot be input on Linux.

Tab titles are truncated

739186: The maximum length of tab titles in the Desktop Automation Editor is 32 characters, including spaces and dashes. Titles that exceed the maximum length are truncated automatically.

Workaround: Do not use title names longer than 32 characters.

Management Console may stall

705318: An incorrectly configured logdb database might cause Management Console to stall indefinitely.

Workaround: Double-check the configuration settings of the logdb database before running Management Console.

Expression editors can become unresponsive

695039: Expression editors become unresponsive if zeroes are added after the following characters: dollar sign (\$) and the number one (1).

Display scaling on remote devices can displace selection

If VMware is used for hosting remote devices, text and icon scaling can displace selections in some applications, leading to unexpected behavior for robots using Desktop Automation.

Workaround: Change display scaling to 100% on automation devices. For example, to change display scaling on Windows 7, go to **Control Panel > Display** and select 100% as the scaling factor.

Chapter 4

Additional Documentation

This chapter contains information that is not included in the Kofax RPA 10.7 product documentation.

Ability to extract value from form control elements

The following types of input elements are supported for extraction: "text," "email," "number," "range," "tel," "time," "search," "url," "month," "week," "date," "datetime-local," "color," "checkbox," and "radio." For "checkbox" and "radio," either "true" or "false" is extracted, depending on whether the element is checked or cleared.

To extract an input element value, in the widget tree, right-click such an element and click **Extract Value > Derived Attribute > value into**.

Number of login attempts not limited

Starting with this version, the check for login attempts and wait time is disabled by default. To override this default, edit the following section in the authentication.xml file located in: <Tomcat installation folder>\WebApps\Management Console\WEB-INF\spring

```
<bean id="loginAttemptService"
      class="com.kapowtech.scheduler.server.spring.security.LoginAttemptService"
      lazy-init="true">
  <constructor-arg type="boolean" value="false"/>
  <constructor-arg type="int" value="3"/>
  <constructor-arg type="int" value="10"/>
</bean>
```

To enable the functionality, set the first value to **true**. The second and third values are for the number of login attempts (3 in this example) and the wait time in minutes before the next attempt (10 in this example), respectively.

Human Processing Time option

The **Human Processing Time** option on the **Basic** tab of the **Robot Configuration** dialog box in Design Studio helps you specify the time in minutes required for a person to perform the same task that the selected robot performs during its run. The difference between the specified value and the actual robot run time is displayed in the "Manual processing time saved" table of the Overview report in the Kofax Analytics for RPA.

Recognition language and language bundles in the Sentiment project

This section contains some additional information regarding the Sentiment project in the Open Document Transformation Browser step topic in help.

- Language bundles are not installed by default. To use any available language, install the appropriate language bundle. For example, to use the English language, install the Kofax NLP Western Default Language Bundle.
- To change the recognition language from default (English), perform the following steps:
 1. Open the Sentiment project in the Project Builder.
 2. Click **Project Settings**.
 3. In the **Project Settings** dialog box, click the **Properties** button.
 4. Clear the default English language option.
 5. Select the language.
 6. Close all dialog boxes.
 7. In the Project Tree, select the **Default Project Class** definition.
 8. Scroll down and select the desired language from the language list.
 9. Click **Save Project** on the **Project** tab.

For more information, see "Sentiment project" in the Open Document Transformation Browser topic in the *Help for Kofax RPA*.

Debugging with Chrome Inspector in Desktop Automation

Kofax RPA supports debugging using Chrome Inspector in the Open step of the Desktop Automation workflow. The Inspector can help you extract and save information necessary to analyze the interaction between the website and the browser and errors occurred during processing of the web content. Information is saved in the HTTP Archive (HAR) format. To save the log to a file, perform the following steps.

1. Open `cef.cfg` file located at `<Kofax RPA installation folder>\nativelib\hub\windows-x32\<hub version number>\node_modules\cef` in a text editor.
For example: `C:\Program Files (x86)\Kofax RPA 10.7.0.0 x32\nativelib\hub\windows-x32\1267\node_modules\cef`
2. Set `show_dev_tools` property to `true`, save the file, and reload your robot.
Once you execute the Open step that loads a web page, the **Chrome DevTools** window attached to the corresponding web page opens.
3. In the **Chrome DevTools** window, select the **Network** tab, click **Preserve log**, and press `Ctrl+R`. The network trace loads in the window.

4. Right-click the trace and select **Save all as HAR with content** to save the network trace in a file. Now you can open the file in a HTTP Archive inspector.