

# 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 11.1.0. 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 11.1.0.0 287, which you can verify after installation by doing the following:

- In Design Studio, go to **Help > About**.
- In Management Console, in the upper right corner, go to the user menu and click **About**.

## System requirements

For information on supported operating systems and other system requirements, see the *Kofax RPA Technical Specifications* document on the [Kofax RPA Product Documentation site](#). The document is updated regularly, and we recommend that you review it carefully to ensure success with your Kofax RPA product.

## Product documentation

The documentation set for Kofax RPA is available here:<sup>1</sup>

[https://docshield.kofax.com/Portal/Products/RPA/11.1.0\\_vwsnqu4c9o/RPA.htm](https://docshield.kofax.com/Portal/Products/RPA/11.1.0_vwsnqu4c9o/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.

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<sup>1</sup> 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\_11.1.0\_EN.zip  
Contains the entire Kofax RPA documentation set in English.
- KofaxRPADocumentation\_11.1.0\_JA.zip  
Contains the entire Kofax RPA documentation set in Japanese.

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
- Best Practices
- 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:

- EN and/or JA (English and Japanese, respectively)
  - `print` and/or `help` (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 11.1.0.0 x32\documentation`
  - `C:\Program Files\Kofax RPA 11.1.0.0 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. Open **Settings > Base URL**.
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. Navigate to the folder `documentation` that resides in:  
`C:\Program Files(x86)\RPA DesktopAutomation 11.1.0.0 x32`
2. Open the `Desktop Automation Service` folder from the English .zip file extracted above and copy the `EN` folder to the `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 11.1.0.0 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 11.1.0.0 x32`
  - `C:\Program Files (x86)\Kofax RPA Process Discovery Analyzer 11.1.0.0 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 11.1.0.0 x32` and `Kofax RPA Process Discovery Analyzer 11.1.0.0 x32` folders.

### Offline documentation for Kapplets

The offline documentation for Kofax RPA Kapplets is contained in the same .war file as for the Management Console, which you have already copied from the English.zip file to the required location on your computer (Tomcat installation folder). To use the Kapplets documentation in offline mode, follow these steps.

1. Depending on whether Kapplets are installed in embedded mode, on Tomcat, or on Docker, configure the required properties in the respective configuration file. For information on each installation scenario, see "Install Kapplets" in the *Kofax RPA Installation Guide*.
  - **Embedded mode.** Create an `application-help.properties` file using the following template and place it next to the `application.properties` file in the folder where Kapplets are run.

```
kapplets.services.mc.connection.url=http:// <host-url>:<port>/ManagementConsole
kapplets.services.mc.connection.username=<username>
kapplets.services.mc.connection.password=<password>
kapplets.services.help.languages-map[en]=EN
kapplets.services.help.languages-map[ja]=JA
kapplets.services.help.base-url=http://<host-url>:<port>/ManagementConsoleHelp/
@@language@@/help/kap_help/kapplets
```

```
kapplets.services.help.landing-url=http://<host-url>:<port>/
ManagementConsoleHelp/@@language@@/help/kap_help/kapplets/c_rpakappletsmain.html
```

**Note** In this scenario, the offline documentation can be used only if the Management Console is deployed on Tomcat.

- On Tomcat. To the `kapplets.xml` file, add the following properties at the end of the file.

```
<Environment name="kapplets.services.help.languages-map[en]" value="EN"
  type="java.lang.String" override="false"/>
<Environment name="kapplets.services.help.languages-map[ja]" value="JA"
  type="java.lang.String" override="false"/>
<Environment name="kapplets.services.help.base-url" value="http://<host-
url>:<port>/ManagementConsoleHelp/@@language@@/help/kap_help/kapplets"
  type="java.lang.String" override="false"/>
<Environment name="kapplets.services.help.landing-url" value="http://<host-
url>:<port>/ManagementConsoleHelp/@@language@@/help/kap_help/kapplets/
c_rpakappletsmain.html" type="java.lang.String" override="false"/>
```

- On Docker. In the `docker-compose.yml` file, add the following properties at the end of the file.

```
- KAPPLETS_SERVICES_HELP_LANGUAGES-MAP[en]=EN
- KAPPLETS_SERVICES_HELP_LANGUAGES-MAP[ja]=JA
- KAPPLETS_SERVICES_HELP_BASE-URL=http://<host-url>:<port>/
ManagementConsoleHelp/@@language@@/help/kap_help/kapplets
- KAPPLETS_SERVICES_HELP_LANDING-URL=http://<host-url>:<port>/
ManagementConsoleHelp/@@language@@/help/kap_help/kapplets/c_rpakappletsmain.html
```

2. Save the file. You may need to restart the Tomcat server for the changes to take effect.

To switch to online mode, delete the four properties from the configuration file, save the changes, and restart the server.

## New features

This section lists the features that are introduced in Kofax RPA 11.1.0.

### New Management Console user interface

In Kofax RPA 11.1.0, the Management Console user interface is completely redesigned to make your work easier and more effective. With the new interface, Management Console has an improved look and feel that is aligned with the style of the other Kofax Intelligent Automation platform products.

The Management Console documentation is fully updated to reflect the interface improvements. See "Management Console" in *Help for Kofax RPA*.

### Ability to initialize TotalAgility process with document

The integration with Kofax TotalAgility is tightened, so you can initialize a TotalAgility process using the TotalAgility step action. For example, the ability to send events to TotalAgility and modify TotalAgility variables is added to the functionality of the step action. Design Studio pre-fills the information needed in the step, which makes it easier to find the requested component and work with it.

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

## Ability to pass additional metadata in Document Transformation

The integration with the Document Transformation Service is improved to support the ability to add metadata to the input document. The addition of metadata to your documents enriches the transformation experience and creates better results in the output. The data is added to the input document as XValues that are available in the device tree after the processed documents are received back from the Document Transformation Service.

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

## My Projects pane in Design Studio

The new My Projects pane unifies the My Projects, Shared Projects, and Database views in Design Studio. Local databases are displayed in the subtree with local projects, and each Management Console has an independent subtree with its own projects and databases. Also, it is possible to include or exclude remote projects from refresh in Design Studio.

For more information, see "My Projects" in *Help for Kofax RPA*

## Localization to Japanese extended

The Japanese localization of the Kofax RPA environment is extended to cover Kofax RPA installers for Windows, Desktop Automation robots, and the entire Kofax RPA documentation set. For the installers, the display language is set automatically in accordance with the Format and Location features in Windows. For Design Studio, the display language is set manually using the common.conf file.

For more information, see "Switch Display Language for Management Console and Design Studio" in the *Kofax RPA Installation Guide*.

## Advanced robot execution management

This product version introduces an advanced robot execution mechanism to allow for an easier maintainable setup. You can now schedule jobs to run in a queue upon availability of required resources, such as Desktop Automation Service, license units, or RoboServer execution slots, which enables you to utilize your resources and licenses in a more efficient manner.

Starting with version 11.1.0, jobs from schedules with a higher priority are provided access to the required resources and are executed sooner than those with a lower priority. Also, if a schedule job is not given access to the required resource and executed by the time the pre-configured timeout is reached, the job stops queuing.

For more information, see "Create New Schedule" and "Queuing of schedule jobs" in *Help for Kofax RPA*.

## Ability to trigger robots by emails

You can set up your robots to start upon receiving emails by a certain email account. You can extract attachments, header information, and email content, or use emails simply as triggers to start robots.

For more information, see "Email triggers" in *Help for Kofax RPA*.

## Extract from E-mail step in Web Automation

This step helps you extract data from an email message saved in MIME format in an .eml file. You can extract both plain text and HTML format data as well as any attachment.

For more information, see "Extract from E-mail" in *Help for Kofax RPA*.

## Process Discovery improvements

### **Analyzer clusters**

Automatic process detection using machine learning algorithms and increased data flow in Process Discovery require more processing power. To streamline the need for efficient and effective data processing, Process Discovery 11.1.0 introduces Analyzer cluster configuration for high performance, big data analysis.

The Process Discovery Analyzer cluster is based on the Apache Spark technology. A cluster is a distributed computing framework consisting of several computers acting as cluster nodes that run the Process Discovery Analyzer application.

### **Improved Agent performance**

Process Discovery Agents are completely redesigned to improve performance and stability.

### **Full resolution screen shots**

Screen shots in Kofax Insight are now presented in full resolution as compared to 400x400 pixels in the previous version of Process Discovery.

### **Native UI automation for Chrome**

Process Discovery implements native UI automation support for the Chrome browser. Use Chrome as the default browser in your environment to improve the data analysis.

For more information, see *Help for Kofax RPA*.

## Support for OmniPage OCR

Starting with Kofax RPA 11.1.0, you can use the OmniPage technology for text recognition. Kofax OmniPage offers industry-leading OCR for fast, easy, and accurate document conversion. OmniPage includes all supported languages in the installation to eliminate the need to download and install additional language packages.

For more information, see *Help for Kofax RPA*.

## New PDF step in Desktop Automation

You can extract data from a PDF document in a Desktop Automation robot. The robot can navigate through a multi-page document, and the extracted text format is based on the internal data and structure of the PDF document.

For more information, see "Desktop Automation Step Actions > PDF" in *Help for Kofax RPA*.

## Editing of Desktop Automation robots simplified

In the previous release, it was possible to edit Desktop Automation robots only after they were called from the respective Web Automation robots. Kofax RPA 11.1.0 provides the ability to perform basic editing of Desktop Automation robots independently from Web Automation robots. Basic editing includes addition of action steps, configuration of input values and variables, and other actions that do not involve the use of external, real-time data and applications.

For more information, see "Desktop Automation > Get Started" in *Help for Kofax RPA*.

## Export of old Desktop Automation steps improved

The export of old Desktop Automation steps can be performed not only from Web Automation robots, but also from snippets containing such steps. For convenience when working with multiple robots and/or snippets at the same time, you can right-click any folder in the My Projects view and click **Export Desktop Automation Robots** to convert any found old Desktop Automation steps to Desktop Automation robots at once. In the same way, you can select and right-click multiple Web Automation robots and/or snippets containing old Desktop Automation steps.

Additionally, during the export process, you can assign descriptive names to future Desktop Automation robots, preview them, select a new location, and more.

For more information, see "Convert old Desktop Automation action step" in *Help for Kofax RPA*.

## Other improvements to Desktop Automation robots

The following improvements are also introduced to Desktop Automation robots.

### **Ability to parameterize devices**

The ability to parameterize automation devices helps reuse Desktop Automation robots. A Desktop Automation robot is no longer locked to a specific device, and you can pass it various actual devices as input to the device parameters.

### **Ability to put focus on errors in workflow**

When a step is inserted from a flow point in a Desktop Automation robot, and that step contains an error or multiple errors, the location of the first error is indicated in the expanded step.

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

## Improvements in Chromium-based browser

The following improvements are introduced to the Chromium-based built-in browser.

### **Wait Downloads in Browse step**

This action sets a waiting period for the files that are being downloaded from a website. This can be useful when you need to know if a file is finished downloading or how many downloads are still active, similar to standard web browsers.

For more information, see "Desktop Automation Step Actions > Browse" in *Help for Kofax RPA*.

**Ability to redirect print from printer to PDF**

This enhancement addresses limitations in handling of pop-up dialog boxes for printer selection. Starting with this version, if you want to send an opened HTML page or a document to a physical printer, the system automatically opens the "Save page as PDF document" dialog box instead, which enables you to save your document in PDF format on a file system or a Robot File System for further use.

**Screen Size in Browse step**

This option enables you to specify the browser window width and height in pixels.

For more information, see "Desktop Automation Step Actions > Browse" in *Help for Kofax RPA*.

## Application and component actions introduced

Kofax RPA 11.1.0 introduces a simpler way to access action steps that are available for a specific remote or local application in its current state. Application steps are actions available by right-clicking the application tab in the Recorder View. Component steps are actions available by right-clicking an element in the Recorder View or the tree view.

- For remote desktop applications, the Focus application action is added to bring the selected application into focus. For example, you can use this step to bring a minimized application into the foreground.
- For locally running applications, the lists of application and component actions vary. For a description of actions, see the respective sections in *Help for Kofax RPA*.

Locally running application	Available application-level actions	Available component-level actions
Excel	Select, Select Sheet, Scroll To, Get Value, Get Number Value, Get Hyperlink, Get Sheet Name, Clear, Set Value, Set Number Value, Set Formatting, Set Hyperlink, Set Sheet Name, Set Column Width, Set Row Height, Insert Sheet, Insert Rows, Insert Columns, Delete Sheet, Delete Rows, Delete Columns, Test Cell Type, Set Named Range, Close	Select, Select Sheet, Get Value, Get Number Value, Get Hyperlink, Clear, Set Value, Set Number Value, Set Formatting, Set Hyperlink, Set Column Width, Set Row Height, Insert Rows, Insert Columns, Delete Rows, Delete Columns, Test Cell Type, Set Named Range
Document Transformation Browser	Count Pages, Count Documents, Close, Get Document	Get Field Value
PDF	Extract text, Next Page, Previous Page, Goto Page	Extract text
Windows	-	Set Keyboard Focus
Terminals	Close, Go To, Enter Field	-
Chromium-based browser	Close Window, Execute JavaScript	Scroll To

## New introduction window in Design Studio

In Design Studio, the Welcome to Kofax RPA window is replaced with a new Introduction tab that helps you quickly get started with robot building, learn about the Kofax RPA concepts, customize and configure your Design Studio, and more. For convenience, you can leave the Introduction tab opened and refer to it whenever you need it, such as to see the list of recent files.



## REST service for queuing of schedule tasks

A new REST service, *tasks*, is introduced in this release for queuing of schedule tasks. With this service, you can get an example structure of a robot input required to run the robot, queue robot tasks, and obtain robot execution results.

For more information, see "Management Console REST API" in the *Kofax RPA Developer's Guide*.

## Other improvements

### **Support for Kerberos Authentication in Call REST Web Service**

The Negotiate authentication is supported for the Call REST Web Service step. For more information, see *Help for Kofax RPA*.

### **Support for key modifiers extended**

Key modifiers for a mouse click are also supported for automating Windows applications and while using the built-in browser in Desktop Automation. For information on the Click step, see "Desktop Automation > Click" in *Help for Kofax RPA*.

### **Support for virtual input driver mouse**

The virtual input driver supports both a hardware printer and a mouse. For more information, see "Activate the virtual input driver" in *Help for Kofax RPA*.

### **Ability to select cluster as Desktop Automation Service provider**

In the Management Console settings, you can not only select shared databases to be available in Design Studio, but also select Desktop Automation Services from a certain cluster or all clusters to be available in Design Studio clients.

For more information, see "Management Console > Settings > Design Studio" in *Help for Kofax RPA*.

### **Shortcut for favorite steps**

An option for adding favorite steps directly from the Insert Menu is added to Web Automation robots. Right-click in a Web Automation robot and click **Insert Step > Add new Favourite Step here**.

### **New examples for Getting Started Guide**

Examples in the *Kofax RPA Getting Started with Desktop Automation Guide* have been updated based on the newly updated Kofax Education website. The updated step-by-step tutorial shows how to filter information on the site, extract details on the available training courses, and write it to an Excel file.

## Changes in behavior

This section describes product behavior that is changed in Kofax RPA 11.1.0.

## User management always enabled

To mitigate the potential security risk of unauthorized access to a Management Console from other computers, user management is enabled by default in embedded mode, and the default **admin** superuser password is available. When you log in to a Management Console for the first time, use the default superuser password. Once you are logged in, you can change the password and create other users and groups on the **Users & groups** page under **Admin** in the Management Console.

For more information, see "Introduction to Management Console" and "Users & groups" in *Help for Kofax RPA*. Also, see [Documentation on starting Management Console](#).

## Desktop Automation workflow term replaced

The term "Desktop Automation workflow" is replaced with "Desktop Automation robot" in the user interface and documentation.

## Export workflow to PDF option removed

It is no longer possible to export a Desktop Automation workflow to a PDF file.

## Access to system clipboard restricted in browser

Currently, it is not possible to use the system clipboard to copy and paste content inside one or multiple robots while using the Chromium-based built-in browser.

## Uninstallation can now remove all files

When uninstalling Kofax RPA, you can now choose to uninstall all related files, including the My Robots and/or Examples folders and Kofax RPA settings stored in the local data folder. For example, on Windows, the data folder would be located in `C:\Users\\AppData\Local\Kofax RPA\`.

## Audit log file format migrated to log4j2

The format of the audit log file used for Management Console logging is migrated from log4j to log4j2. If you modified the former file, `log4j.properties`, you need to recreate it to match the new format and rename it to **log4j2.properties**.

For more information on the new format, see "Audit Log for Management Console" in the *Kofax RPA Administrator's Guide*.

## Memory limit for JVMs increased

The maximum memory limit for the Design Studio and RoboServer JVMs is increased from 2 GB to 8 GB to match the minimum system requirements. The increase applies to the 64-bit installer only.

## Pre- and post-processing scripts not supported

For security reasons, it is no longer possible to run pre- and post-processing scripts in a schedule. Only pre- and post-processing robots are supported.

## Kapplet User and Kapplet Administrator roles not used

Although, the Kapplet User and Kapplet Administrator roles are preserved for backward compatibility, they have no effect on the Management Console.

For information on roles used in Management Console, see "Users & groups" in *Help for Kofax RPA*.

## HTTP Request Authentication not available

The HTTP Request Authentication feature is no longer available in Kofax Analytics for RPA.

## Chapter 2

# Resolved issues

This chapter lists previously reported issues that are resolved when you install Kofax RPA 11.1.0.

This version is cumulative and includes the resolved issues that were delivered in Kofax RPA 11.0.0 Fix Pack 1. For details, see the ReadMe file for Kofax RPA 11.0.0 Fix Pack 1, which is available from the [Kofax Fulfillment Site](#).

## Empty tree returned for page

**1523918:** The Chromium-based browser returned an empty tree when the web page was opened using the *javascript:* protocol.

## Some names could not be used in RFS

**1510655:** If a robot that was configured to use the Robot File System contained Japanese characters in the name, the robot could not access the Robot File System.

## Unable to connect Design Studio to Management Console in specific cases

**1501920:** Design Studio version 10.7.0 could not connect to Management Console if Connectors or Desktop Automation robots were uploaded to the Management Console repository.

## Password store entries not restored

**1500604:** If a project export containing password store entries was created, the entries were removed from the project, and then the project backup was imported to a Management Console with the "Import project" option, the password store entries were not restored.

## Kapowlock unable to connect to remote desktop services

**1500567:** Kapowlock was unable to connect to remote desktop services that had client access licenses (CALs) installed.

## Unable to run Flash content in Chromium-based browser

**1496988:** It was impossible to run a Desktop Automation robot containing Flash content in the Chromium-based browser.

## Design Studio became unresponsive due to large robot execution

**1495222:** Execution of large Web Automation robots caused Design Studio to become unresponsive.

## Issue with WrappedCSSNode and CSSRule

**1492768:** The WrappedCSSNode did not validate situations when CSSRule was set to NULL or when the parentStyleSheet() was NULL.

## Name with ampersand led to errors in Design Studio

**1477697:** If Design Studio set to Japanese contained a project with an ampersand in the name, and the user attempted to create multiple robots in the project, an error was returned.

## Unable to restore backup with two identical resources

**1473613:** Management Console failed to restore a project backup when two identical resources existed in a library.

## Java API exception in findMostAvailableSlots()

**1473235:** When running a robot using the Java API, a Java API exception was reported in the findMostAvailableSlots() method.

## Mouse movement could fail

**1467499:** Under certain circumstances, the mouse movement action worked incorrectly in a Desktop Automation robot.

## Constraint violation when restoring project with OAuth user

**1460665:** The issue occurred when two project backups contained the same OAuth users with identical names that were bound to the same OAuth applications but had different IDs. When restoring one of the backups on top of another, the Management Console returned an error.

## Call REST Web Service with proxy server caused error

**1458363:** When executing a Call REST Web Service step with a configured proxy server, it reported the error *Unsupported authentication scheme: Negotiate*.

## ClassCastException when executing robot with Browse step

**1454677:** The ClassCastException error was reported when running a Desktop Automation robot to open a website.

## Issue with text match difference

**1453449:** The Regex implementation in Design Studio and the drivers was different, which prevented from constructing finders with text matching that included certain special characters.

## SSL/TLS connections remained open for closed application

**1453098:** If a Desktop Automation robot had an established SSL connection and then the respective application was closed, the session was not ended.

## Explorer 11 listed as supported for new Kapplets

**1452977:** The *Kofax RPA 11.0 Technical Specifications* document erroneously listed Internet Explorer 11 as a supported browser for revised Kapplets.

## Robots called with API not listed in RoboServers section

**1451924:** Robots were not listed in **Management Console > Admin > RoboServers** when they were called using the Java API method DefaultRobotLibrary.

## Date string parsed incorrectly

**1451254:** The parse() method in a Web Automation robot could not process the date and time "T" separator in a string correctly. For example, the string "2011-10-10T14:48:00" was parsed incorrectly.

## HttpClient generating incorrect NTLMv2 response

**1447292:** When executing a Call REST Web Service step with a proxy or target server with NTLMv2 authentication, it failed because the HttpClient library requested the Target Name and Target Info List to be non-empty.

## Multiple JavaScript dialogs could not be opened

**1445897:** The Chromium-based browser could not open an alert, prompt, or confirmation dialog box if another dialog box of one of these types was already opened.

## Lost connections when SSL/TLS connection was closed

**1444465:** The tn3270 terminal driver supports tunneling sessions over SSL and TLS. When such an SSL/TLS connection was closed, other connections were lost and it was not possible to open new connections.

## Error in Desktop Automation when detecting windows tree change

**1444343:** When change detection was running in the Windows driver, it requested a screen shot to see whether the visuals had changed and the tree should be extracted. Copying the screen shot sometimes failed, which caused the Desktop Automation Service to become unresponsive.

## PowerShell Connector handled character encoding incorrectly

**1443990:** When using a Custom Action step with a PowerShell Connector, if the string contained text with diacritics, the Connector returned an error.

## Kapplets login failed for user with valid credentials

**1443879:** An error was shown when an LDAP user was trying to log in to Kapplets with valid credentials but the email address format was invalid.

## Finder validation failed for Guarded Choice constructions

**1442946:** A validation issue occurred if a Desktop Automation robot contained a combination of the Guarded Choice step with an Application Found Guard and another guard.

## Drop-down list flickered when clicking <select>

**1441284:** When a drop-down list was opened, clicking the <select> element for this drop-down list caused the list to flicker.

## Kapplets failed for robots with special characters

**1440992:** If a robot contained special characters in the name, Kapplets failed to run this robot.

## Attended robots did not work

**1438310:** Attended robots failed to run.

## Documentation incorrectly stated location of auth.dll

**1427295:** The incorrect location of the auth.dll file was given in the *Kofax RPA Administrator's Guide*.

## Error when loading URL with double quotes

**1414566:** When loading a URL containing double quotation marks in the Chromium-based browser, an error was returned.



## 'Max queued robots' did not work for robots called with API

**1414357:** The "Max queued robots" setting in Management Console did not work for robots called with the API. The documentation now states that this setting is only used with deprecated methods such as SocketBasedObjectRQLProtocol in the Java API to call RoboServers directly without calling the cluster.

## Unable to use host and instance in cluster settings

**1411908:** When adding a new database in the cluster settings, it was not possible to configure the host and instance name.

## Finder of Move Mouse failed for derived attributes

**1411388:** On a remote device, the component finder of a Move Mouse step failed if derived attributes were used.

## JavaScript returned incorrect string for font-family

**1405203:** JavaScript returned an incorrect string when the font-family style was used.

## Systray app became unresponsive on Windows 7

**1403345:** If the KB4537820 and KB4537829 updates were installed on Windows 7 with extended security support, the DeviceAutomationServiceControl.exe app became unresponsive on startup.

## Loaded layout not retained after reopening Design Studio

**1402114:** When a saved panel layout was loaded, it was not retained after Design Studio was closed and then reopened.

## Restore failed if custom database type was specified

**1399843:** Restoring a Kofax Kapow 10.2.0 backup failed intermittently if a custom database type was specified.

## Backup from 10.7.0.2 failed to restore

**1397109:** When restoring a Kofax RPA 10.7.0.2 backup in Management Console, an error was returned.

## Some Desktop Automation robots did not work on Docker

**1396923:** Desktop Automation robots that used the Chromium-based browser did not work on Docker.

## Too large commit messages caused error

**1380395:** When a commit message entered while uploading a robot from Management Console to Design Studio was longer than 255 characters, an error was returned. Starting with this version, Kofax RPA does not allow you to upload items with a commit message longer than 255 characters.

## Delay observed while initializing JTree

**1380319:** Initializing SelectionSupportingTree took too much time, which resulted in a lengthy Load Page execution.

## Role did not restrict robot downloads

**1375651:** A group role prevented you from downloading robots from the Management Console, but the same restriction was not applied to Design Studio when it was connected to the Management Console using the same credentials.

## Repository-based robot library and Library:/ URL failed

**1375442:** If a robot that read files from the library using Library:/ URL was uploaded to the Management Console repository, and then the API action was used to create a code snippet to run the robot using the API, the robot failed.

## Unable to select document type in KTA step

**1370878:** It was not possible to select a document type in the Create Document action in the KTA step when using Kofax TotalAgility version 7.7 with a Desktop Automation robot.

## Changes in robots not synchronized

**1369337:** Robot Lifecycle Management did not synchronize robots that were re-uploaded to Management Console.

## Poor performance when running Close Window

**1369274:** The Close Window step was too slow when used on large HTML files.

## Issue with documentation on DTS installation

**1369089:** The Document Transformation Service installation procedure described in the *Kofax RPA Installation Guide* contained steps that were not required.

## Callback URL credentials converted to lowercase

**1368407:** When running a Document Transformation Service robot, credentials were added to the Management Console REST URL for the callback robot that were converted to lowercase, which resulted in an error on the Management Console side.

## Issue with nowMethodCallback

**1362970:** The nowMethodCallback method for the WebKit-based browser became unresponsive.

## Print to PDF not saving files to Robot File System

**1362253:** If the Robot File System was set up on a Windows system and a robot ran on a Linux system, the Print to PDF function did not save files to the specified share if the robot had finished execution before the function was completed.

## Slowdown when requesting project inventory

**1358213:** When Design Studio was requesting project inventory from the Management Console, it took too much time to respond.

## Shell action not passing parameters as expected

**1357984:** On Linux, the PowerShell action of the Connectors in the Custom Action step did not work as expected during the step execution.

## TotalAgility and RPA value boundaries did not match

**1356285:** The following parameter types had mismatching boundaries in RPA and TotalAgility: Currency, Decimal, Double, Float, Long, Short.

## Windows applications did not run with process name

**1343762:** Some built-in 32-bit Windows applications did not run in a Desktop Automation robot with their process name.

## Properties and Data State panes appeared in wrong order

**1322876:** In Design Studio, the Properties and Data State panes were sometimes docked in the wrong order.

## Unable to set formulas in Excel

**1313377:** SetContentOfExcelStepAction did not recognize a formula when the value originated from a variable or an expression.

## Issue with setting view position in Excel

**1311969:** An issue occurred when trying to set a column width in Excel.

## Excel file with custom date formatting caused issues

**1305311:** When opening an Excel file with a Load File step that contained a file with custom date formatting, Design Studio became unresponsive.

## Audit log entries lacked user prefix

**1305131:** Audit log entries did not always contain the user name added as the first part of the text.

## Assigning XML caused connection timeout error

**1269617:** When setting an XML variable with content, the check against DTD did not take into account the Design Studio proxy setting, and if only the proxy connection was available, the XML assignment led to the error *Invalid XML. Connection timed out: connect*.

## Accented characters could not be used in robots on Linux

**746316:** Accented characters with a dead key could not be used in Desktop Automation robots on Linux.

## OAuth error handling was vague

**710473:** In Management Console, when creating a user with an OAuth application that had the same characters as an existing user name, the error message did not clearly explain the problem.

## Management Console could stall

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

## Chapter 3

# Known issues

This chapter contains information about potential issues that you may encounter while using Kofax RPA 11.1.0. The workarounds are provided, as applicable.

## vc\_redist files missing from Windows RoboServer Docker image

**1538549:** vc\_redist files are missing from the Windows RoboServer Docker Image.

**Workaround:** If you plan to use Docker to deploy Kofax RPA, you need to manually add the following files to the `docker-win\roboserver` subfolder in the Kofax RPA installation folder. You can download the files from the Microsoft website.

- Microsoft Visual C++ 2010 Redistributable Package (x64):  
vc\_redist.100.x86.exe
- Microsoft Visual C++ 2013 Redistributable Package (x64):  
vc\_redist.120.x86.exe
- Microsoft Visual C++ 2017 Redistributable Package (x64):  
vc\_redist.141.x86.exe

## Some tabs reset after being saved and refreshed

**1536884:** Settings on the following tabs in **Management Console > Settings > General** are reset to their initial value after being changed, saved, and then refreshed: **Login**, **RoboServer purge**, and **Base URL**. This is also relevant for the **From address** field on the SMTP tab.

**Workaround:** After changing settings on any of these tabs, save the changes and refresh the page before proceeding to other tabs.

## Schedules not working after importing backup

**1536508:** When the user is trying to import a backup in Management Console, and the import fails, the existing schedules switch to their default values and can no longer be started.

**Workaround:** To start the schedules, they need to be recreated. Before importing a backup, we recommend that you create a backup of the current Management Console state.

## Errors occur when using Kapplets database

**1532653:** Some errors occur when you try to use an existing Kapplets 11.0.0 database in Kapplets 11.1.0. The Kapplets 11.0.0 database contains user and system preferences that are not applicable to a clean Kapplets 11.1.0 installation.

**Workaround:** In Management Console, in the upper right corner, go to the user menu and click **Settings**. In the **Settings** window, click **Reset all settings**. This option clears all of the stored settings, and Kapplets 11.1.0 can work with your 11.0.0 Kapplets database.

## Recommendations to ensure robot password security

**1530720:** A malicious robot developer with elevated project rights may theoretically retrieve the password that was previously set as input to a robot job in a schedule. The attacker needs to have malicious intent and sufficient knowledge about the internals of the scheduler.

We recommend that you use the password store, internal or CyberArk, to securely manage access to credentials, secret keys, or passwords that need to be passed to a robot. Make sure to update the key material used to securely store passwords and certificates in the Management Console database (see *Help for Kofax RPA* for more information).

By following these guidelines, you can prevent any potential malicious attacks that would compromise the security of credentials, encrypted keys, or robot passwords.

## Uninstalling DTS does not remove license utility

**1524460:** When uninstalling the Document Transformation Service version 11.0.0 to prepare for a new installation, the license utility is not entirely removed.

**Workaround:**

1. Uninstall the old Document Transformation Service version.
2. Install a new Document Transformation Service version and then uninstall it.
3. Install the new version again.

## Synchronizer shows logs in console only

**1524075:** After Synchronizer.exe is started, logging appears only in the Synchronizer.exe console. The logs should be written to the synchronizer.log file instead.

## Kaplets use system collation instead of schema collation

**1523086:** Kofax RPA Kaplets that use MySQL database use the collation from the database properties variable "collation\_database" instead of using the schema collation. It may result in Unicode characters to be shown incorrectly if the "collation\_database" is not set to a Unicode collation.

**Workaround:** Make sure that you use the schema collation for the utf8mb4 character set in the database system variables "collation\_connection," "collation\_database," and "collation\_server."

## Parameter validation rejects optional string parameters

**1518036:** Parameter validation on Desktop Automation signature-based steps rejects optional string parameters with an expression that evaluates to an empty string.

## Kaplet user missing group affiliation in imported backup

**1517340:** When a backup file containing a Kaplet user with the specific double-byte character set name is imported to a Management Console, the Kaplet user does not belong to a Management Console group that the user was initially assigned to.

## Process Discovery database user password not encrypted

**1517076:** The Process Discovery database user password is not encrypted when stored in the Management Console.

## File common.conf can only be used for initial configuration

**1516977:** The common.conf file can only be used to configure a Management Console for the first time, which includes the display language to use. If subsequent configuration is required for the Management Console, it cannot be performed with common.conf.

**Workaround:** Perform any subsequent configuration directly in the Management Console interface.

## WebSphere not supported for new Management Console

**1516885:** The new Management Console does not work on WebSphere.



## File org\_freedesktop\_general may get locked

**1512677:** When running multiple robots simultaneously, the org\_freedesktop\_general file used by the D-Bus protocol to authenticate the server and client may get locked by one robot for a short period of time, preventing another robot from accessing this file to read cookies from it.

## 'Jobs timeout' and 'Execution time limit' converted to minutes

**1502164:** During schedule creation, the "Jobs timeout" and "Execution time limit" property values are converted from seconds to minutes. This occurs only when the value in seconds can be converted to whole minutes.

For information on these properties, see "Schedules" in *Help for Kofax RPA*.

## OAuth app not allowing project synchronization

**1499121:** When a Management Console contains an OAuth application in the repository, it is not possible to synchronize two projects with the VCS user.

## No dialog box to upload missing files during schedule creation

**1498832:** The dialog box that enables you to automatically upload any missing dependencies during schedule creation in Management Console is not available in this product version.

**Workaround:** During schedule creation, ensure that all snippets and/or type files associated with the uploaded robot are present in the Management Console repository.

## Load Page fails to open website pages that use Japanese characters

**1498551:** A Desktop Automation robot may fail to open website pages that contain Japanese characters. This issue was reported while using the built-in browser on a Windows system set to a Japanese regional format.

## Restoring backup fails if it contains case-sensitive folders

**1496143:** Restoring a backup in Management Console is not possible if the backup contains folders with similar names that are case-sensitive, such as "test" and "Test."

## Robot using RFS does not work if copy is in another project

**1478872:** A robot with steps that use the Robot File System does not work if a copy of this robot is uploaded to another project in Management Console.

## Error occurs when creating bookmark

**1452320:** When you try to create an Insight Viewer bookmark in Kofax Analytics for RPA 2.2, an error occurs, and the bookmark is not saved.

## Symbols in Kapplets workspace name lead to errors

**1445050:** Using the following symbols in workspace names in Kapplets leads to errors:

/ \ % ? . {

**Workaround:** Do not use these symbols in workspace names in Kapplets.

## Group step with Load Page leads to error

**1407189:** Making a Group step that contains a Load Page step in a Minimal Execution robot leads to errors after you enter a name for the group and click Enter.

## Some variable types cannot be used in Raise Job Event

**1403260:** Using the following variable types in the Raise Job Event action in the KTA step leads to errors: `date`, `byte`, `document`, `float`, `double`, `nullable date`, `nullable string`, and `currency`.

## Trigger mappings not restored with backup

**1398421:** Management Console backup files created in versions 10.3.0.0 - 10.3.0.9 do not include trigger mapping data. Use the following workaround to create a backup that will contain all correct data. This workaround was introduced in version 10.3.0.10.

### **Workaround**

**For enterprise Management Console**

This procedure restores trigger mappings and applies to the Management Console deployed on Tomcat that contains attended robots with trigger mappings.

1. Stop Tomcat and back up your database before continuing.
2. Before installing the 11.1.0 .war file, open it and modify the version.properties file, which resides in WEB-INF\classes, to match the version you are upgrading from.  
For example, if you are upgrading from 10.3.0.5, the text in the file must be:  
fullVersion=10.3.0.5 266
3. Install the updated 11.1.0 ManagementConsole.war file on Tomcat. It will start a 11.1.0 Management Console with the old database.
4. Create a backup to contain all data including the trigger mappings.
5. Install a new 11.1.0 Management Console with an empty database (without changes to the .war file).
6. Restore the backup created in Step 4.

#### For development Management Console

This procedure restores trigger mappings and applies to the embedded Management Console that contains attended robots with trigger mappings.

1. Stop the original Management Console and back up the folder:  
C:\<username>\AppData\Local\Kapow\10.3.0.x\_<build number>  
to  
C:\<username>\AppData\Local\Kapow\10.3.0.x\_<build number>\_original
2. Install Kofax RPA 11.1.0 and do not start the Management Console.
3. Open the ManagementConsole.war file, which resides in <program folder>\RPA 11.1.0 <build number>\WebApps, and modify the version.properties file, which resides in WEB-INF \classes, to match the version you are upgrading from.  
For example, if you are upgrading from 10.3.0.5, the text in the version.properties file must be:  
fullVersion=10.3.0.5 266
4. Delete all files from:  
C:\<username>\AppData\Local\Kapow\10.3.0.x\_<build number>\Temp
5. Add the updated ManagementConsole.war file to the original version to:  
<program folder>\Kapow 10.3.0.x <build number>\WebApps\
6. Start the Management Console original version. It will start a 11.1.0 Management Console with the old database.
7. Create a backup to contain all data including the trigger mappings.
8. Install a new 11.1.0 Management Console with an empty database (without changes to the .war file).
9. Restore the backup created in Step 7.

## Desktop icons not always part of Program Manager tree

**1384485:** A Desktop Automation robot cannot select icons on the desktop after the Win+D key combination is pressed. The Win+D key combination is a shortcut to hide and show the desktop. Before the keys are pressed, the icons on the desktop are listed under the Program Manager pane. After Win+D is pressed, the icons are hidden, which prevents the Desktop Automation robot from identifying the icon elements to display in the automation tree.

**Workaround:** If the goal of using Win+D is to minimize all windows and show the desktop, use **Win+M** instead. This key combination does not hide icons, so they remain available in the automation tree.

## Unable to run some robots with remote API

**1371327:** If a database mapping is created in Management Console in **Repository > Databases**, the robot cannot be started with the remote API.

**Workaround:** Create a database mapping in the My Projects view (Shared Databases section) in Design Studio and use it with robots you want to start with the remote API.

## Unicode not supported for CyberArk Application ID

**1362162:** In Password Vault in CyberArk, it is not possible to create a safe or account name in Unicode.

## KTA step configuration cleared after change

**1359670:** When a Desktop Automation robot with the KTA step is opened for editing, the KTA step is marked with an icon to warn that the configuration is unavailable. After an attempt to change any configuration parameter for the process, the step configuration collapses to the KTA Server level. After expanding the step, the previous configuration is discarded and the user needs to reconfigure the step.

## SAML not supported for Kapplets

**1355484:** Authentication with SAML is not supported in Kofax RPA Kapplets.

## Windows 7 not supported for virtual keyboard driver

**1354870:** The virtual keyboard driver required by the Desktop Automation Service is built with User-Mode Driver Framework 2.0 and is only supported on Windows 10, Windows Server 2016, and Windows Server 2019.

## RoboServer cannot re-run robots on computer with DAS

**1351686:** RoboServer cannot run a Desktop Automation robot more than once if it is installed on the same computer as the Desktop Automation Service.

## Large PDF file issue in Kapplets

**1337449:** A Kapplet with a large PDF file used as a binary input value generates an "Out of memory" error message.

**Workaround:** Change the "Maximum memory pool" value on the Tomcat server or the `max_allowed_packet` value in the MySQL `my.ini` file.

## 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.

## RPA Administrators cannot assign some roles

**1289988:** Users belonging to the RPA Administrators group cannot assign the Project Administrator, Developer, or Process Discovery Client roles to user groups in a project.

## Characters in localized version of Kofax Analytics for RPA may not display

**1281128:** Characters in the localized version of Kofax Analytics for RPA may not display correctly if you use MySQL 5.7 or earlier with Insight for data and meta databases.

**Workaround:** Either upgrade your MySQL server to version 8.0 or later, or make sure the default character set for the server and all its components in MySQL 5.7 is set to UTF-8.

## Project with too many types causes error

**1263908:** If you have a large number of types (180 or more) in a single project in Design Studio, it may cause the StackOverflow error and prevent you from opening and editing your Desktop Automation robot.

**Workaround:** Do not store too many types in one project.

## Missing shortcut for Management Console on Start menu

**1218466:** The Windows 10 Start menu hides duplicate URL links, so if you have several Management Console installations, only the link to the first installed version is present on the Start menu.

## Error occurs while backup is restored

**1168320:** When restoring a backup containing a file with a backslash in the name, an error about a corrupted file is shown. As the backslash character is not allowed for file names in a file system, the backup fails to be restored. The file with a backslash can be uploaded to the Kofax RPA project using the Repository API that does not prevent such files from uploading.

**Workaround:** When naming your work objects, such as robots, types, or snippets, do not use a backslash or other characters that may be reserved or have a special meaning in a file system. If you already have a backup containing file names with a backslash, unarchive the backup and then archive it again to work around the issue.

## 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.

## Tab titles are truncated

**739186:** The maximum length of tab titles in Desktop Automation 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.

## 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).

## 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 the 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 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.

## 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 Desktop Automation robots.

**Workaround:** Change display scaling to 100% on automation devices.



## Chapter 4

# Additional documentation

This chapter contains information that is not included in the Kofax RPA 11.1.0 product documentation. The documentation will be updated in the next release.

## Set privileges when installing Document Transformation components

When installing Document Transformation components, consider the following:

- Executing the PowerShell scripts, `EnableDocumentTransformationWindows7.ps1` and `EnableDocumentTransformationWindows10.ps1`, requires PowerShell version 3 or later.
- Both IIS services, Kofax RPA Document Transformation Service and Document Transformation Thin Client Server, must have modification privileges on the folders used by the Document Transformation Service. The PowerShell scripts, `EnableDocumentTransformationWindows7.ps1` and `EnableDocumentTransformationWindows10.ps1`, attempt to set these privileges automatically. If the scripts are not used or fail to assign the privileges, the IIS application pool users must be explicitly assigned access to the Document Transformation folders.

On Windows 7, a reboot might be required before IIS creates the IIS application pool users.

## Documentation on starting Management Console

Starting the embedded Management Console with the default **superuser** name and password from the Windows Start menu, you do not need to open the RoboServer Settings application and set up any parameters as currently described in the documentation. All necessary parameters are included in the Start menu shortcut.

## Robots of different versions in Kapplets

Do not use robots of different Kofax RPA versions in a Kapplet, because doing so may lead to errors.