



# Release Notes RayFlow 8.0



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## Release Notes RayFlow

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# Introduction

This release of RayFlow 8.0 provides new features, as well as functional improvements and fixes for known issues from prior versions. RayFlow is available as a standalone product as well as it can serve as the backbone for the RaySuite Enterprise Solution.

Visit [www.raynet.de](http://www.raynet.de) for further information regarding the product and current community incentives.

Raynet is looking forward to receiving your feedback from your RayFlow experience. Please contact your Raynet service partner or write an e-mail to [sales@raynet.de](mailto:sales@raynet.de) to add your ideas or requirements to the RayFlow development road map!

# Feature Highlights

## KeyCloak Integration RF-5009

Keycloak is a proven solution for authentication and authorization in web applications. It has been developed by experienced developers and security experts, regularly updated and maintained. It provides a variety of authentication methods, including SMS, email, Google Authenticator, and more.

By utilizing Keycloak, RayFlow offers the flexibility to choose the most convenient method for 2-factor authentication. Additionally, Keycloak offers a user-friendly interface for managing user accounts and authentication settings, enhancing the user experience.



**Note:**

This feature is opt-in. It won't change authentication patterns automatically and is also not enabled by default. Follow the installation guide for more information about setting up this type of identity provider.

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# Security Improvements

- Fixed a vulnerability in user setting editor, where it was possible to upload any file as a profile picture. [RF-5076](#)
- Feedback plugin now supports SSL and disables TLS 1.0 for enhanced security. [RF-5090](#)

## Other Improvements

- Batch update jobs now continue processing even if an error occurs on one task, improving efficiency. RF-5109
- User view now displays first and last names for easier identification. RF-5073
- Added a language selection drop-down when importing packages from Package Store. RF-5186
- Improved column edge visibility to make resizing easier. RF-5130
- Minor improvements of Feedback Collector. RF-5096
- Improved error message for missing permissions to provide clearer feedback. RF-4914

# Resolved Issues

- Resolved issue where appointments could not be added in RayFlow Server. RF-5143
- Fixed an internal server error occurring when clicking the "translations" button with an empty title field. RF-5140
- Resolved an `ArgumentNullException` when the user selected "Use default label." RF-5176
- Fixed "access denied" error in Package Store after copying projects. RF-5174
- Removed recurring browser alerts on the Tools page when table changes are made. RF-5171
- Fixed issue preventing edits in Group Configuration within Phases view. RF-5162
- Addressed issue where saving the AD plugin configuration failed. RF-5158
- Fixed unhandled exception occurring when creating a new appointment in the RayFlow desktop client. RF-5152
- Resolved issue where decimal values in the "Order" input were not converted to integers. RF-5153
- Resolved an issue preventing custom filter creation for task types. RF-5151
- Fixed failure in project import when using templates. RF-5148
- Addressed issue that prevented creating new projects. RF-5146
- Fixed issue where saving packages from Package Store failed. RF-5145
- Resolved issue where tasks could not be imported from CSV files if default values were missing. RF-5147
- Fixed validation issues with the `DeploymentPlugin.dll` certificate in the local truststore. RF-5127
- Resolved an issue with retrieving valid properties when changing input types in Datafield Creator. RF-5126
- Updated official product page link in RayFlow Client. RF-5122
- Resolved issue where Active Directory users could not be added. RF-5120
- Fixed issue with missing documentation files. RF-5118
- Resolved an issue where notifications were not sent during task status changes using Intune-Connector. RF-5108
- Fixed issue where the `BodyBackgroundImage` project property was ignored in RayFlow. RF-5102
- Resolved issue where projects could not be opened after adding Spanish translations. RF-5101
- Addressed project import failure due to XML conflict. RF-5100
- Resolved issue where AD Group plugin removed non-AD users from projects. RF-5095
- Added missing `PackageInfoDeletions` table in `Rayflow_DeleteTasks.sql` file. RF-5092
- Fixed issue with the project deletion script not functioning correctly. RF-5087
- Fixed issue with downloading files. RF-5081
- Fixed PackageStore imports not correctly setting the language value of the selected variant. RF-5186
- Resolved issue with AD plugin not working when using IIS Application Pool User. RF-5077
- Added missing German translations for navigation buttons. RF-5068
- Resolved issue where new tasks were incomplete after creation and caused upload errors. RF-5064
- Fixed issue where login failed for users imported with Active Directory. RF-5063
- Resolved SSO issues after changing the language in RayFlow Client. RF-5062
- Fixed issue preventing the selection of all groups during user import through Active Directory. RF-5061
- Resolved issue where WebDav file depot was not functioning. RF-5055
- Fixed issue where the order of new menus in Administration > Groups was incorrect. RF-5051
- Fixed typo in the installer on the license type view. RF-4303
- Resolved issue where logging in with a local user failed when Windows authentication was enabled. RF-4990

- Fixed issue where the "Last login on" field displayed incorrect data in `UserStat` reports. RF-4978
- Resolved error when deleting task types. RF-4949
- Fixed issue where the column view in Phaseview was not variable. RF-4946
- Resolved an exception occurring when using the print function in RayFlow Workflow. RF-4932
- Resolved issue where IIS application pool actions reactivated quick reports. RF-4668
- Fixed issue where linking of Datafield Groups to Task Types was not functioning properly. RF-4314
- Corrected typos in the installer. RF-4885

# Migration

This chapter of the document is meant to help users upgrade from their existing RayFlow version to RayFlow 8.0.

## RayFlow License

If the previously installed RayFlow version has been a version prior to 4.0, it will be necessary to activate the RayFlow using a new `.rsl` license file instead of the old `.license` files that were used previously to 4.0. In this case, reactivate your RayFlow license by using the license activation tool or contact the Support Team using our [Support templates](#). Information on how to reactivate a Raynet Product License can also be found in our [KnowledgeBase](#).

# RayFlow Server

## Migration from 1.x RayFlow Servers

If migrating from a 1.x RayFlow server to RayFlow 8.0, it is recommended to ask for the help of our consultants.

## Migration from 2.x RayFlow Servers or Higher to 8.0

1. Make a Backup of the Current System (This step is optional but strongly recommended)

A. Backup the SQL database:

- Start the SQL Server Management Studio.
- Right-click on the existing RayFlow database and select **Task > Back Up** from the context menu.

B. Backup the file system:

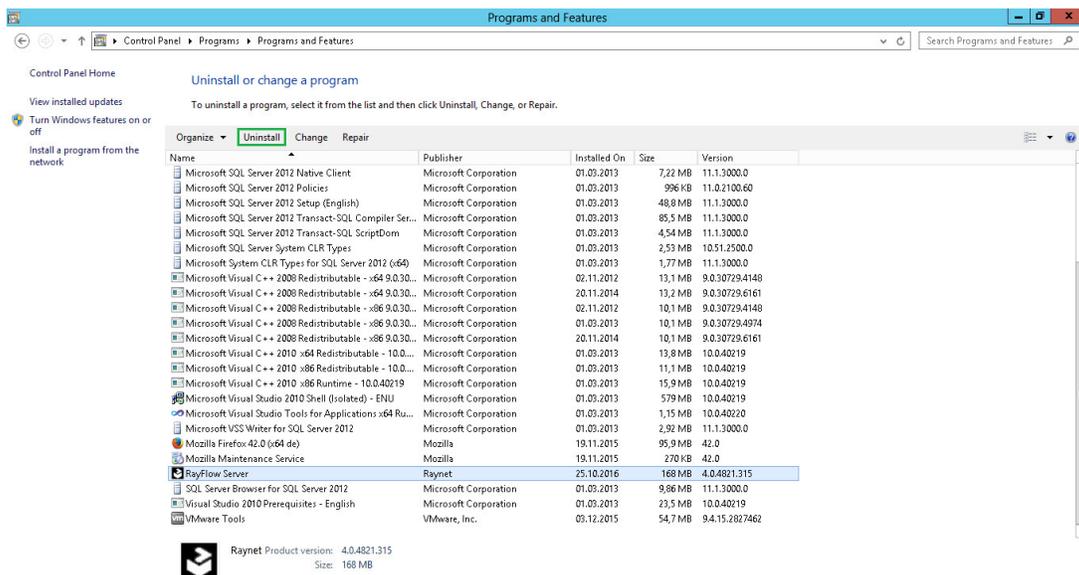
- Go to the RayFlow Server Installation directory (`%INSTALLDIR%`).
- Right-click on the directory and select **Send To > Compressed Zip Folder**.
- Store the database and the file backups at a safe location.

**Note:**  
The content of the previous related `web.config` file will later be needed for the edition of the new `web.config` file.

## 2. Uninstall the Previous RayFlow Server

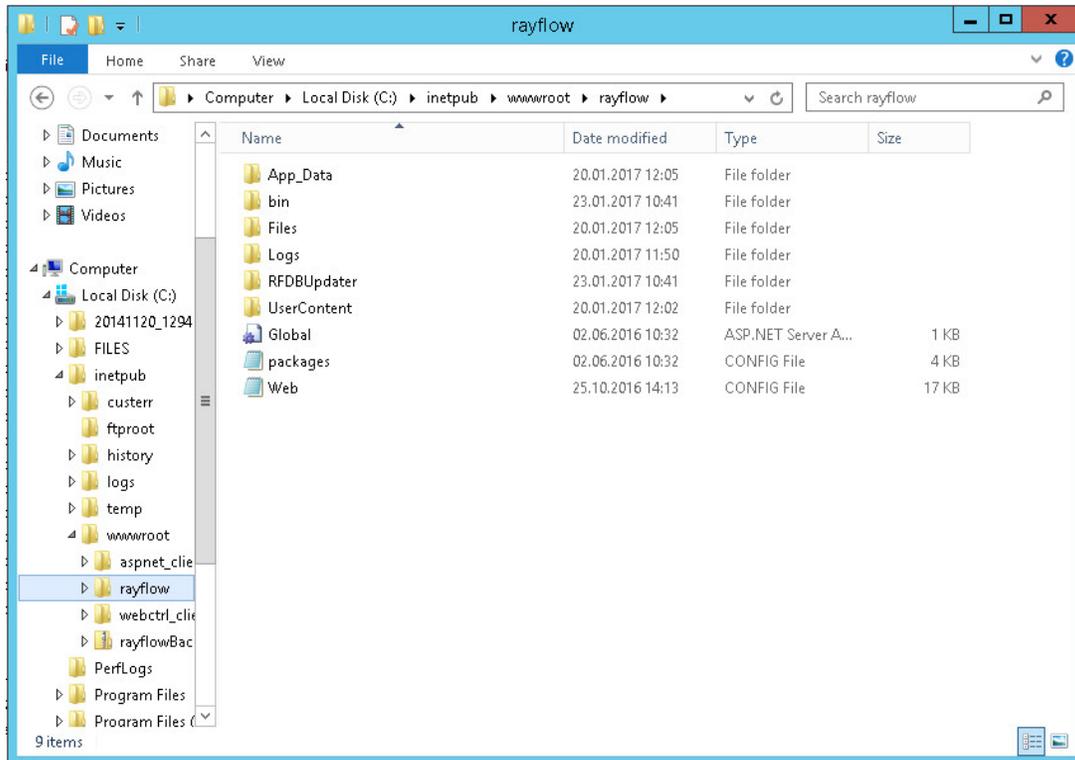
**Warning:**  
If step 1 has been skipped, make sure that the `web.config` file of the previous installation is kept available in a safe location.

After the old `web.config` file has been saved uninstall the old version of RayFlow Server. To uninstall RayFlow Server use the Windows Control Panel. In the **Uninstall or change a program** section, select the entry for RayFlow Server. Right-click on the entry and select **Uninstall** from the context menu.



**Be aware:**  
Folders which contain customized data (icons, license files, files uploaded to tasks, etc.) will not be deleted by this action and will remain in the `%INSTALLDIR%` or in its subfolders.

In the screenshot below there is an example of data that will remain after uninstalling the old RayFlow Server.



### 3. Installation of RayFlow Server 8.0

Install the current version of the RayFlow Server to the %INSTALLDIR% folder using the MSI installer. Detailed information on how to install the new RayFlow Server can be found in the Server Installation Guide for RayFlow.



**Warning:**  
Skip the database creation during the installation!

### 4. Edition of the New Web.config File

Open the web.config file which is located in the %INSTALLDIR% in a text editor and replace the connection string with the connection string of the old web.config file (see either the first or the second step). Save the changes to the new web.config file.

Example:

```
<!-- Your connectionstring -->
<connectionStrings>
  <add name="RayflowEntities"
    connectionString="Data Source=(local);Initial Catalog=Rayflow;Integrated
      Security=True;MultipleActiveResultSets=True;App=EntityFramework"
    providerName="System.Data.SqlClient"/>
</connectionStrings>
```

### 5. Upgrade the RayFlow Database

The database needs to be updated using the RayFlow-Updater. This is a simple console program which contains the four parameters which are necessary to update the RayFlow database to the latest state without the use of SQL scripts.

```
rfDBUpdater.exe -path %INSTALLDIR%\RFDBUpdater\ -upgrade -wait
```

The application itself is located in the following directory of the RayFlow Server installation: %INSTALLDIR%\RFDBUpdater\

Example of how to launch an update from a local folder:

```
rfDBUpdater.exe -upgrade -wait
```

Example of how to launch an update from any folder:

```
rfDBUpdater.exe -path %INSTALLDIR%\RFDBUpdater\ -upgrade -wait (with full path %INSTALLDIR%)
```

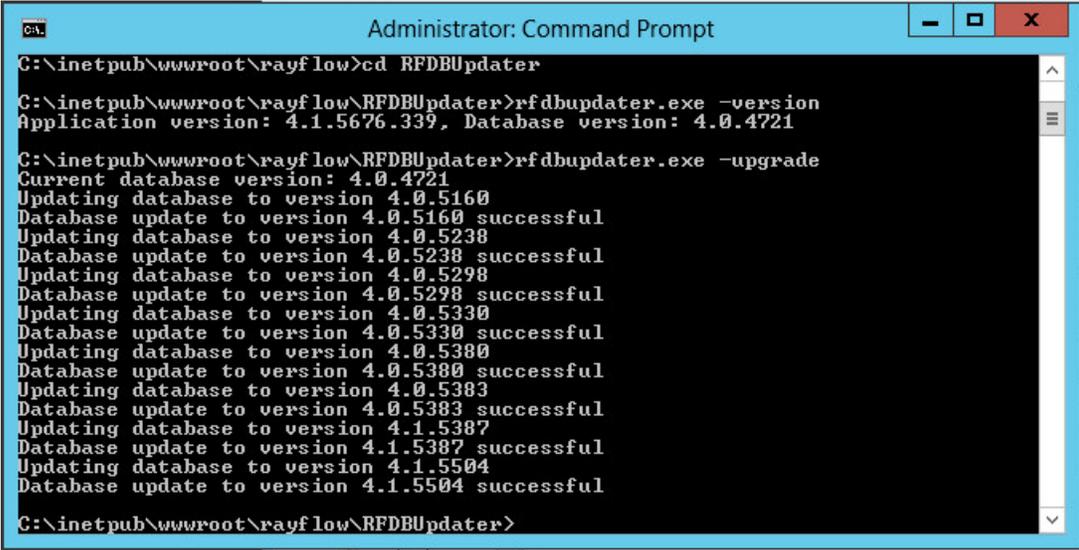
List of Arguments:

**-path:** The path containing the RayFlow Server installation. It is necessary for the Database/Connection string which will be taken from the `web.config` in the given path. At the same time, the path is the address of the SQL Scripts folder which also resides in the same folder. The path can be omitted if the command is launched from the RayFlow Server installation folder.

**-upgrade:** Using this parameter will update the database to the latest state.

**-version:** Get the current version of RayFlow.

**-wait:** Wait for a key action.



```
Administrator: Command Prompt
C:\inetpub\wwwroot\rayflow>cd RFDBUpdater
C:\inetpub\wwwroot\rayflow\RFDBUpdater>rfdbupdater.exe -version
Application version: 4.1.5676.339, Database version: 4.0.4721
C:\inetpub\wwwroot\rayflow\RFDBUpdater>rfdbupdater.exe -upgrade
Current database version: 4.0.4721
Updating database to version 4.0.5160
Database update to version 4.0.5160 successful
Updating database to version 4.0.5238
Database update to version 4.0.5238 successful
Updating database to version 4.0.5298
Database update to version 4.0.5298 successful
Updating database to version 4.0.5330
Database update to version 4.0.5330 successful
Updating database to version 4.0.5380
Database update to version 4.0.5380 successful
Updating database to version 4.0.5383
Database update to version 4.0.5383 successful
Updating database to version 4.1.5387
Database update to version 4.1.5387 successful
Updating database to version 4.1.5504
Database update to version 4.1.5504 successful
C:\inetpub\wwwroot\rayflow\RFDBUpdater>
```

**Note:**

If any errors are reported, please contact the support team.

## 6. Manual Configuration

(The necessity of these steps depends on the environment.)

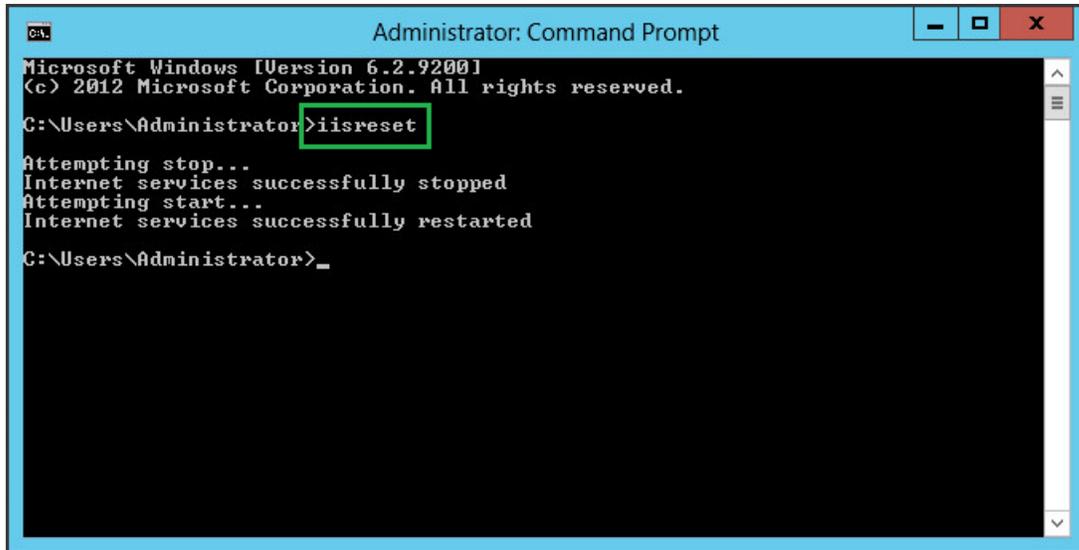
### Internet Information Services (IIS) restart

Restart the Internet Information Services either using the Internet Information Services Manager or via Command Prompt using the iisreset command line.

Internet Information Services Manager:



"iisreset" command line:



```
Administrator: Command Prompt
Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.
C:\Users\Administrator>iisreset
Attempting stop...
Internet services successfully stopped
Attempting start...
Internet services successfully restarted
C:\Users\Administrator>
```

# RayFlow Client

## Upgrading the RayFlow Application

### General upgrade preparations

RayFlow 8.0 is delivered as an MSI software package. In order to install it safely:

1. Download the MSI package for RayFlow 8.0 from the Raynet resource repositories.  
(If you have not already received credentials, please contact the Raynet support team via [support@raynet.de](mailto:support@raynet.de) to get them via email)
2. Copy all files that need to be kept for later reuse or look-up (such as `RayFlow.exe.config` for proxy settings, `dashboard.xml`)
3. Execute the RayFlow 8.0 MSI package and work yourself through the setup routine.

### Adjusting the newly installed RayFlow instance

1. Define config files and settings according to the old system state.
2. Launch RayFlow.
3. If there are issues regarding broken or missing functionality, please feel free to contact the Raynet support team via [support@raynet.de](mailto:support@raynet.de).

# System Requirements

## RayFlow Server

### Hardware Requirements

#### Minimal

- Minimum disk space required: 120 GB
- Minimum RAM required: 4 GB
- Pentium 4, 2.4 GHz Processor

#### Recommended

- CPU Intel Core i5 or i7
- 8GB RAM
- Disc Space: 500 GB RAID 10 (4x250GB)

### Prerequisite Software

The following are the minimum software requirements for the installation and running of RayFlow 8.0.

- Windows Server 2016 or higher
- Microsoft SQL Server 2016 or higher
- IIS 7 or higher
- .NET Framework 4.7.2



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**Note:**

Minimum server requirement for .NET Framework 4.7.2 is Windows Server 2008 SP2. Further information on system requirements for .NET Framework 4.7.2, can be found under the following link: <https://msdn.microsoft.com/en-us/library/8z6watww%28v=vs.110%29.aspx>

- Microsoft Report Viewer Runtime (Required to view SSRS Reports)

Please refer to the following links for system requirements related to different versions of Microsoft Report Viewer Runtime

#### **Microsoft Report Viewer 2012 Runtime**

- <http://www.microsoft.com/en-us/download/details.aspx?id=35747>

#### **Microsoft Report Viewer Redistributable 2008**

<http://www.microsoft.com/en-us/download/details.aspx?id=577>

- Crystal Report Runtime 2010 13.0.14 (Only required if Crystal Reports are used for reporting)

#### **Supported internet browsers:**

- Mozilla Firefox version 93 and newer
- Google Chrome / or another Chrome based browser, version 95 or higher
- Microsoft Edge version 95 or higher
- While other browsers and versions may work with the product, they have not been fully tested and are therefore not guaranteed to perform optimally.
- It is recommended to use a screen resolution of at least 1024x768 pixels

# RayFlow Client

## Hardware Requirements

### Minimal

- CPU Pentium IV / Core2 processor
- 4 GB RAM
- 1 GB free hard disk

### Recommended

- CPU Intel Core i5 or i7
- 8 GB RAM
- 10 GB free hard disk

# Additional Information

Further information regarding RayFlow can be found in several resources which are available.

- The *Operations Supplement* provides information about third-party software and libraries redistributed with RayFlow.
- The *Administration and Configuration Guide* provides detailed information about RayFlow Server.
- The *Installation Guide* provides detailed information on how to setup a RayFlow server instance.
- The *User Guide* provides information for user of the RayFlow client.
- The product website <https://raynet.de/enterprise-software-packaging/workflow-management/> provides information about the product, news, and support.
- Raynet and its partners offer a range of training courses that can also be customized to meet your requirements. For more information on these courses, speak with your Raynet consultant or contact the Raynet Sales department via [sales@raynet.de](mailto:sales@raynet.de).



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### **Get in touch**

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