



**RAYFLOW<sup>®</sup>**

Workflow  
Management

**Release Notes RayFlow 5.2**

RayFlow is part of RaySuite.

•rayNET

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Release Notes RayFlow RayFlow 5.2

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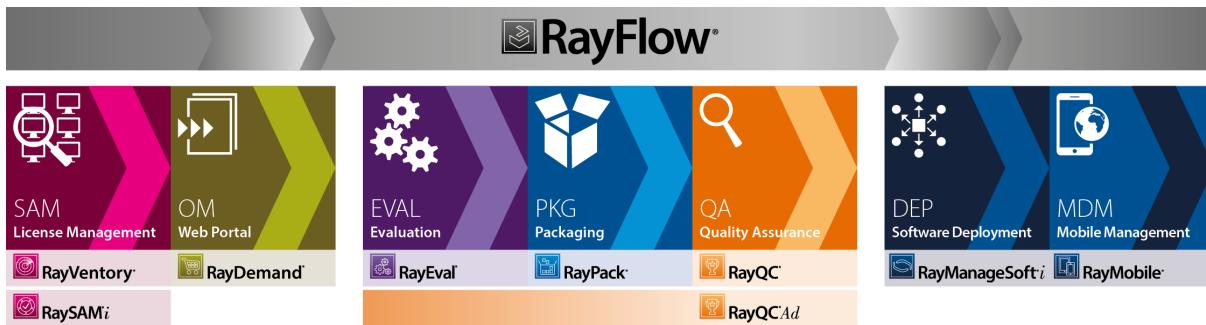
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# Introduction

This release of RayFlow 5.2 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.



Enterprise Application Lifecycle Management

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!

# What's New?

The following chapters contain an overview of the improvements, resolved issues, and the new features that are part of the new release of RayFlow 5.2.

## General

The following features and improvements affect both, RayFlow Server and RayFlow Client.

### Other

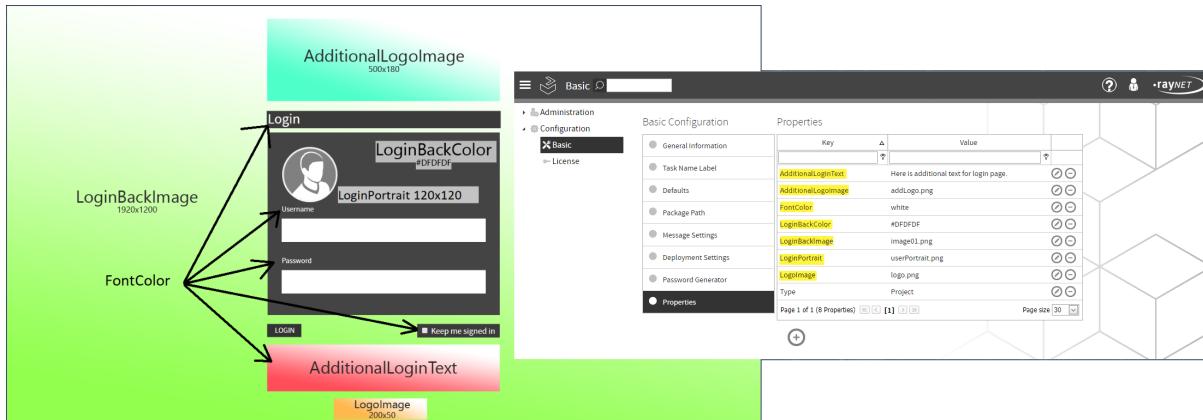
- **RF-1243** Datafields with the same sorting number are now ordered alphabetically.
- **RF-4178** A new report which shows the SLA calculated in days and a new report which shows a list of all users of a project have been added to RayFlow.
- **RF-4193** When adding a new topic, there is now a validation if the topic name already exists in the workflow.
- **RF-4194** A chapter explaining the functionality of linked tasks has been added to the RayFlow documentation.

## RayFlow Server

This section highlights the new features and improvements which affect the RayFlow Server.

### Customization of the Login Page **RF-3357**

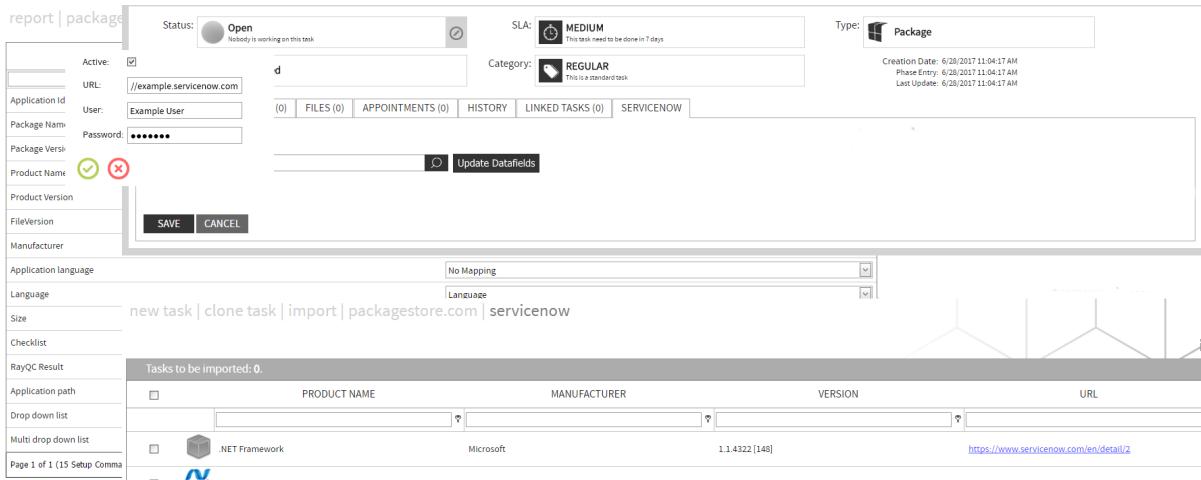
With this release of RayFlow, new options for branding have been added to RayFlow. It is now possible to customize your RayFlow Login Page to fit your corporate design.



Different options for customization have been added, including multiple options to integrate images of various sizes which will show your logos and branding.

## Import and Update Tasks from Service Now [RF-4129](#); [RF-4130](#); [RF-4140](#)

It is now possible to import and update tasks directly from ServiceNow. Furthermore, datafields can be directly mapped to ServiceNow properties to be able to update them easily.



Product Name	Manufacturer	Version	URL
.NET Framework	Microsoft	1.1.4322 [148]	<a href="https://www.servicenow.com/en/detail/2">https://www.servicenow.com/en/detail/2</a>

## Delete a Project via Script [RF-4202](#)

It is now possible to delete a RayFlow project using a SQL script.

### Other

- RF-3391 RayFlow can now calculate the estimated date of delivery and notify the intended recipients by email notification.
- RF-4050 Datafields can now be added to custom placeholders.
- RF-4197 The performance of datafield related operations has been improved.
- RF-4223 A new sample checklist is now available when using the RayQC tool with RayFlow.

# RayFlow Client

This section highlights the new features and improvements which affect the RayFlow Client.

### Other

- RF-1168 The subphases column is now hidden if no subphases exist.
- RF-4207 In this release the user settings for deployment have been improved.

# Resolved Issues

The following issues from the previous version of RayFlow have been resolved in this release.

## General

The following issues which affected both, RayFlow Server and RayFlow Client have been resolved in the latest version.

- [RF-4179](#) A user with observer rights only can remove uploaded files.
- [RF-4192](#) There is a problem with the **Link More Tasks** dialog if many tasks are linked.
- [RF-4214](#) The removal of files fails if the folder of the file is a virtual directory.

## RayFlow Server

The following issues have been resolved in the latest version of RayFlow Server.

- [RF-4058](#) The file download from webDAV depots is not working.
- [RF-4071](#) It is not possible to save deployment settings unless SCCM details are entered as well.
- [RF-4166](#) It is possible that access to the second page of a datafield list within a phase is blocked after upgrading RayFlow.
- [RF-4189](#) Datafield values which are surrounded by quotation marks are not imported into RayEval.
- [RF-4190](#) After a bank holiday is created the day which is following the bank holiday is blocked.
- [RF-4198](#) After the default datafield group has been renamed, its datafields are not shown in the phase.
- [RF-4200](#) Disabled datafields still show active and editable configuration properties.
- [RF-4201](#) The page of the PackageStore does not load if the server is connected using a proxy.
- [RF-4203](#) Inactive options of multi-dropdown datafields are still displayed as active in the UI.
- [RF-4205](#) The order of the user multi-dropdown list in the phase views is wrong.
- [RF-4216](#) It is possible to delete the default project using the RayFlow\_DeleteProject.sql script.
- [RF-4218](#) The page **Basic > Deployment Settings** needs to have its software library path values changed to match the datafields that are included in the packaging project.
- [RF-4225](#) There are two datafields in the standard packaging project that are named "Application version".
- [RF-4227](#) The **Data Mappings** page shows the **servicenow** tab even if the **Service Now Configuration** is set to inactive.

# RayFlow Client

The following issues have been resolved in the latest version of the RayFlow Client.

- RF-3215 The tools are not ordered by their order number.
- RF-4195 Escaping of command lines does not work correctly if a datafield value is starting with quotation marks.
- RF-4229 The root user is not able to log into RayFlow.
- RF-4230 The RayFlow Client crashes if no license is available.
- RF-4231 The RayFlow Server URL information given during installation is not used when the client is being started for the first time.
- RF-4232 The information from the MSI are not updated to the datafield.
- RF-4233 The answer file in the deployment wizard cannot be saved.

# Migration

This chapter of the document is meant to help users upgrade from their existing RayFlow version to RayFlow 5.2.

## 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 5.2, it is recommended to ask for the help of our consultants.

### Migration from 2.x RayFlow Servers or Higher to 5.2

#### 1. Make a Backup of the Current System

**(This step is optional but strongly recommended)**

##### A. Uninstall the previous version of RayFlow Server:

- 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.

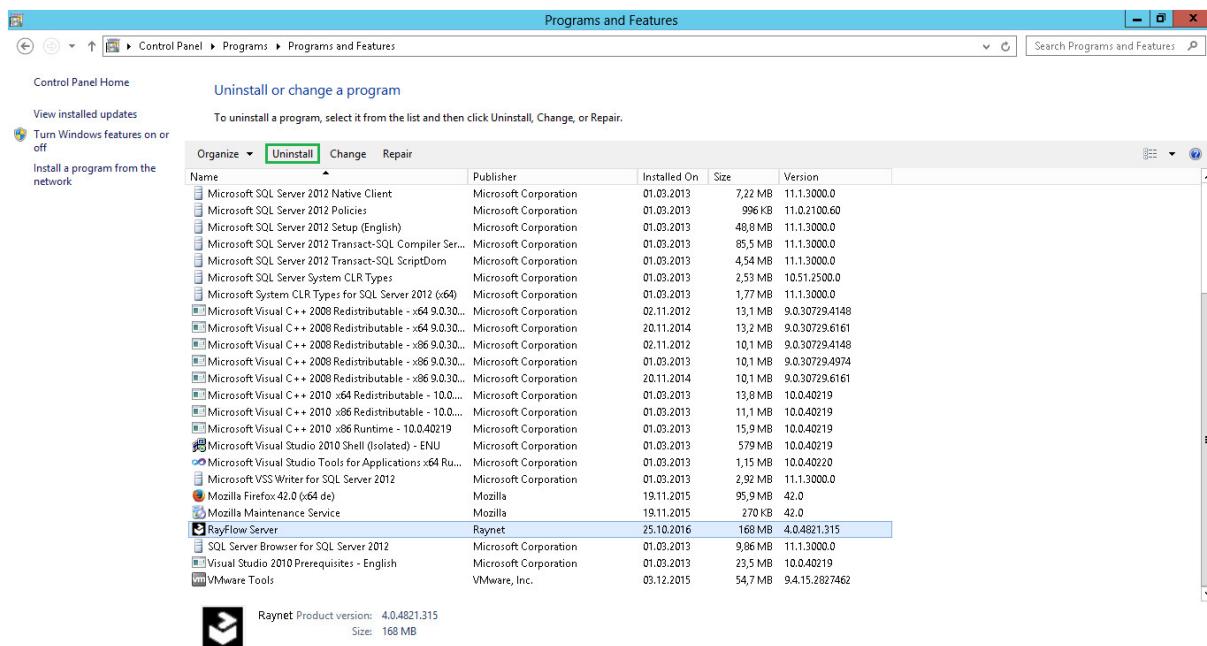
## 2. Uninstall the Previous RayFlow Server

**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.

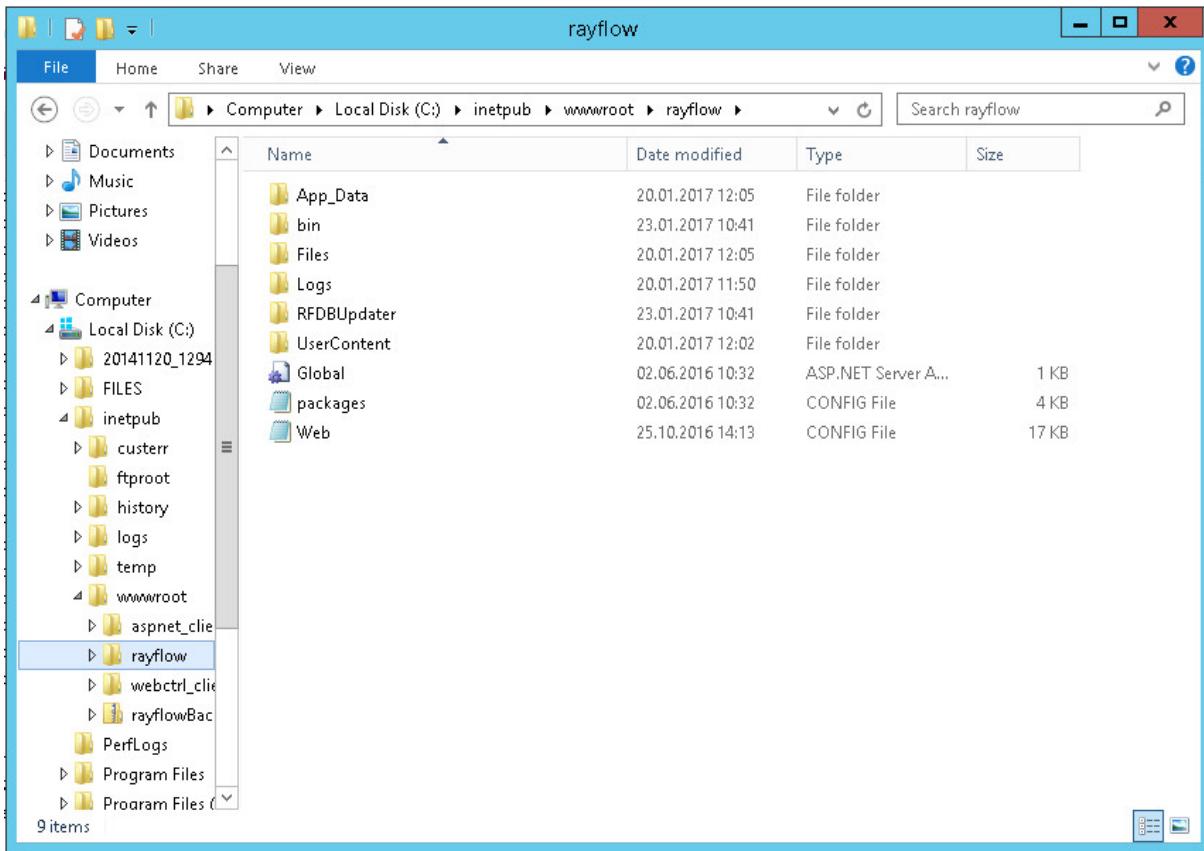
After the old `web.config` file has been saved uninstall the old version of RayFlow Server.

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 5.2

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%)
```

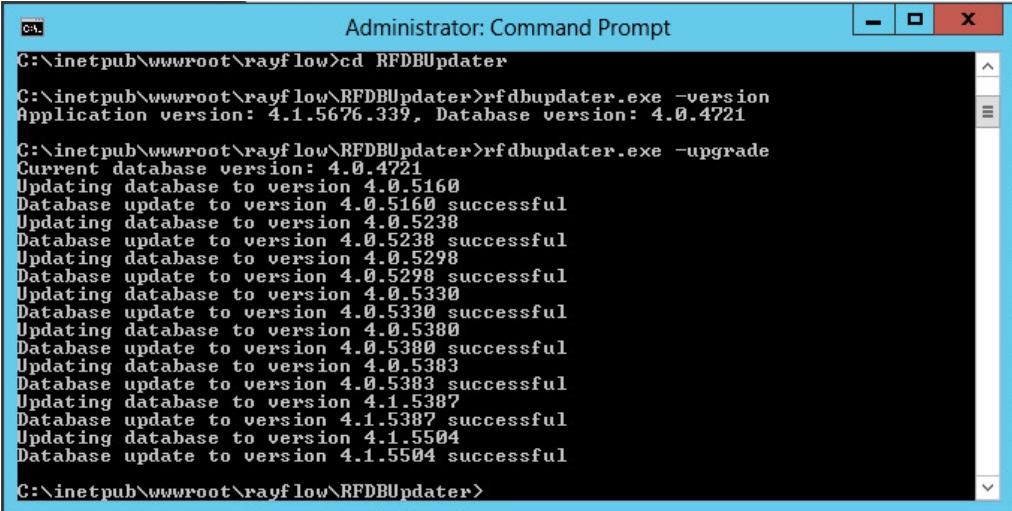
**List of Arguments:**

**-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:**

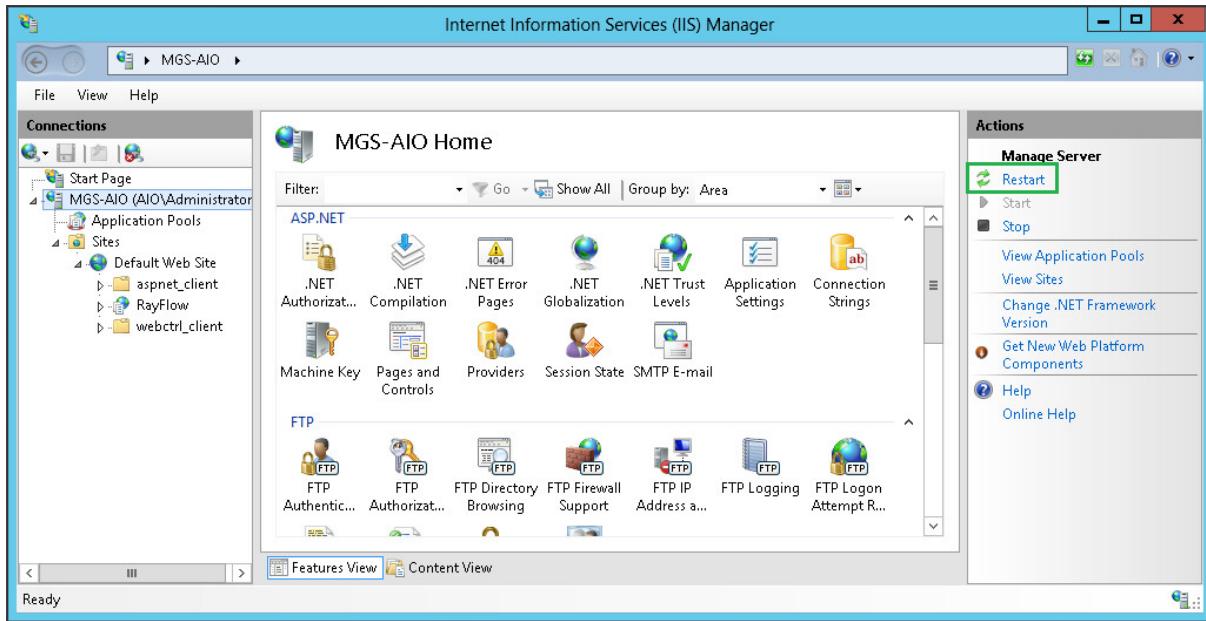
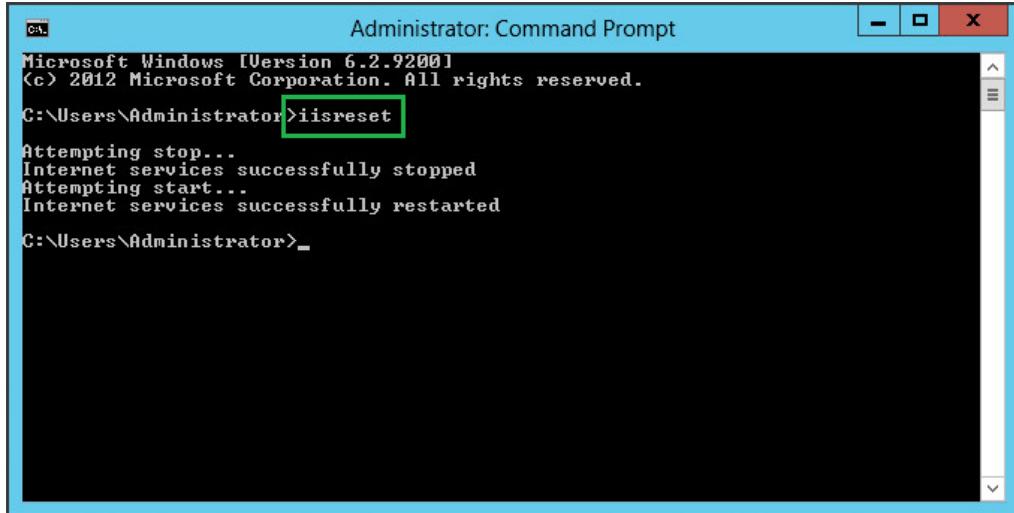
If any errors are reported, please contact the support team.

## 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:**

# RayFlow Client

## Upgrading the RayFlow Application

### General upgrade preparations

RayFlow 5.2 is delivered as an MSI software package. In order to install it safely:

1. Download the MSI package for RayFlow 5.2 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 5.2 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: 1GB
- Pentium 4, 2.4 GHz Processor
- Network 100Mbit

#### Recommended

- CPU Intel Core i5 or i7
- 8GB RAM
- Disc Space: 500 GB RAID 10 (4x250GB)
- Network 100Mbit

### Prerequisite Software

The following are the minimum software requirements for the installation and running of RayFlow 5.2.

- Windows Server 2008 SP2 or higher
- Microsoft SQL Server 2008 or higher
- IIS 7 or higher
- .NET 3.5 for SQL Server
- .NET 4.5

**Note:**

Minimum server requirement for .NET Framework 4.5 is Windows Server 2008 SP2. Further information on system requirements for .NET Framework 4.5, 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:**

- Microsoft Internet Explorer™ version 9.0 and newer
- FireFox version 3 and newer
- Chrome
- Microsoft Edge
- It is recommended to use a screen resolution of at least 1024x768 pixels.
- Although other browsers might work they are not officially recommended.

## **RayFlow Client**

### **Hardware Requirements**

#### **Minimal**

- Screen resolution: 1024 x 768 pixels
- Color settings: 16 bit
- RAM: 2GB
- Disk space: 10GB

#### **Recommended**

- Screen resolution: 1280 x 1024 pixels
- Color settings: 32 bit
- RAM: 4GB or higher
- Disk space: 100GB or more

# 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/en/Raynet-Products/RayFlow> 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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