



**RAYFLOW**<sup>®</sup>

Workflow  
Management

Release Notes RayFlow Server  
5.0

RayFlow is part of RaySuite.

•rayNET

24.07.2017

Release Notes RayFlow Server RayFlow Server 5.0



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Release Notes RayFlow Server RayFlow Server 5.0

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# Introduction

This release of RayFlow Server 5.0 provides new features, as well as functional improvements and fixes for known issues from prior versions. RayFlow Server is available as a standalone product as well as it can serve as the backbone for the RaySuite Enterprise Solution.



Enterprise Application Lifecycle Management

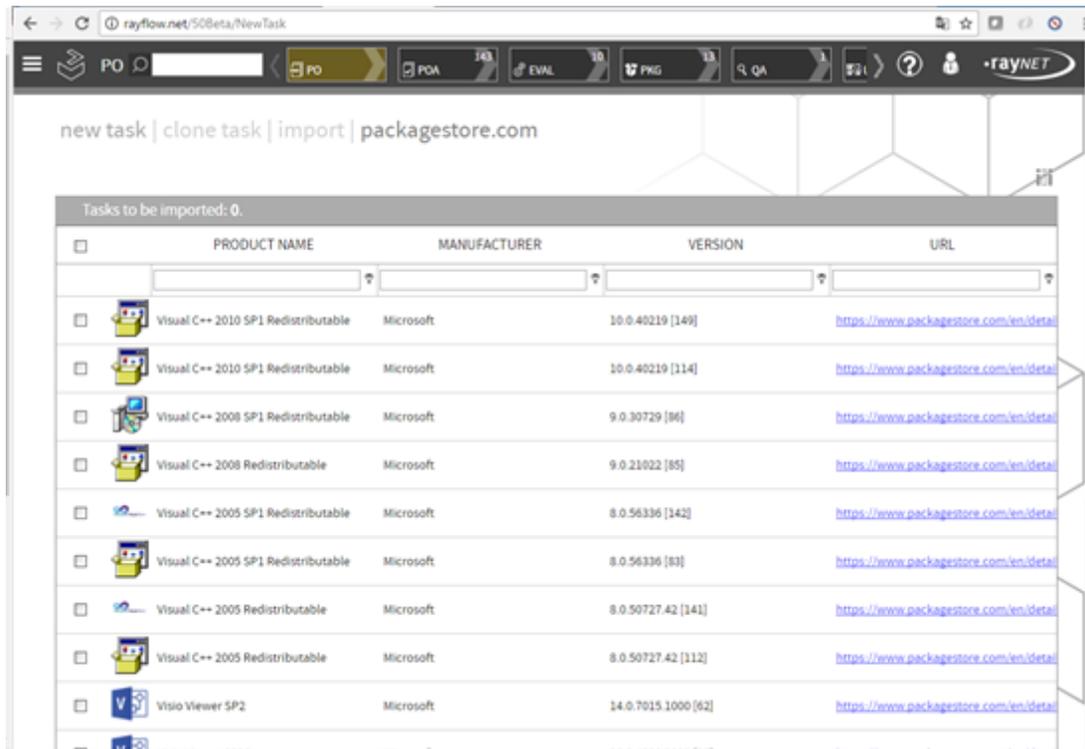
Visit [www.raynet.de](http://www.raynet.de) for further information regarding the product and current community incentives.

Raynet is looking forward to receiving your feedback from your RayFlow Server 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 Server development road map!

# What's New?

## Packagestore.com integration in NewTask view [RF-4025]

The creation phase now has a forth tab called *packagestore.com* which provides integration between RayFlow and our Package Store service, allowing one or more package properties to be imported as tasks into RayFlow.



## New Single Task View Feature [RF-3998]

There are now two ways to view a tasks information within a phase. The original multiple-task view, which occurs when a task is selected from a phases task list.

The screenshot shows the RayFlow interface with a task list at the top. The task list has columns for STATUS, TYPE, COMMANDS, APPLICATION ID, PRODUCT NAME, CREATION DATE, PHASE ENTRY, SLA, CATEGORY, and USERNAME. Two tasks are visible: 'Excel Viewer' (ID 47) and 'Word Viewer + Compatibility Pack' (ID 239). The task 'Word Viewer + Compatibility Pack' is selected and its details are shown in a modal window below. The modal window includes fields for Status (Open), User (Unassigned), SLA (MEDIUM), Category (REGULAR), and Type (Package). It also has tabs for DATAFIELDS and FILE DETAILS (7). Under FILE DETAILS, there are fields for Application Id (239), Package Name (Word Viewer + Compatibility Pack), Package Version (12.0.6514.5001), and Application language. At the bottom of the modal are 'SAVE' and 'CANCEL' buttons. The task list at the bottom shows 'eDraw Viewer' (ID PKG-00057) as the next task.

This method opens the selected task at its position within the task list itself, causing it to be surrounded by all other tasks in that list.

RayFlow 5.0 provides an additional method, called the single-task view.

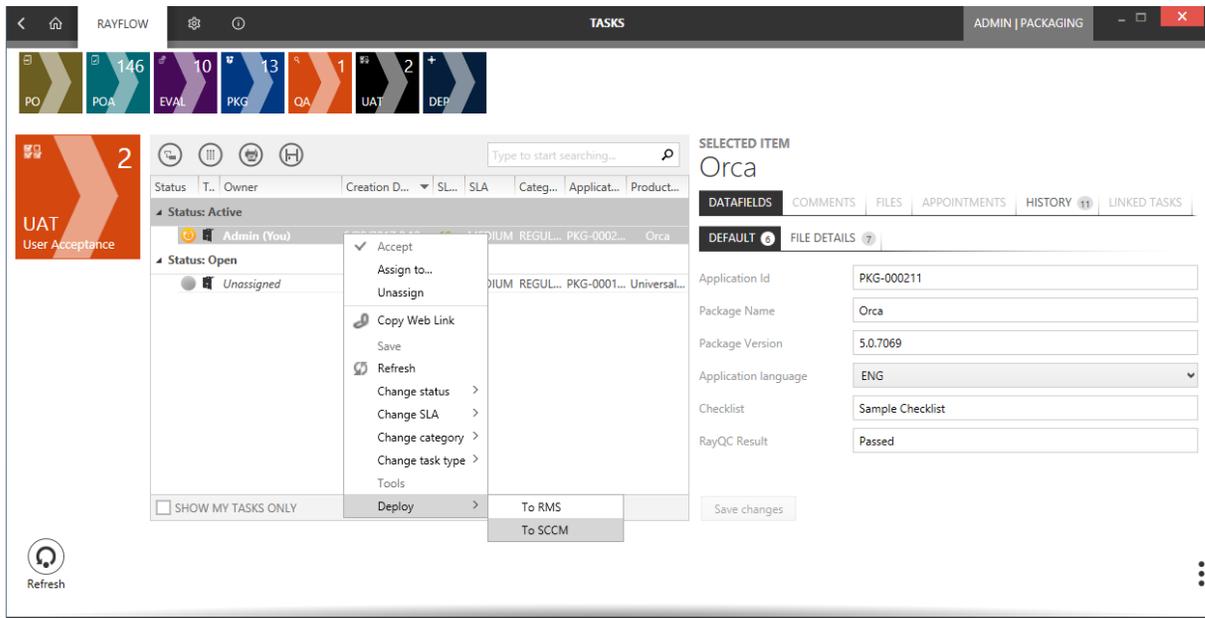
## Order Acceptance

The screenshot shows a task list with columns for STATUS, TYPE, COMMANDS, and APPLICATION ID. The task list contains three tasks. The second task, with ID 239, is highlighted. A red box highlights the pencil icon in the COMMANDS column for this task. A callout box points to this icon with the text 'Go to the single-task view'. The task list at the bottom shows 'Page 1 of 1 (3 Tasks)' and navigation buttons.

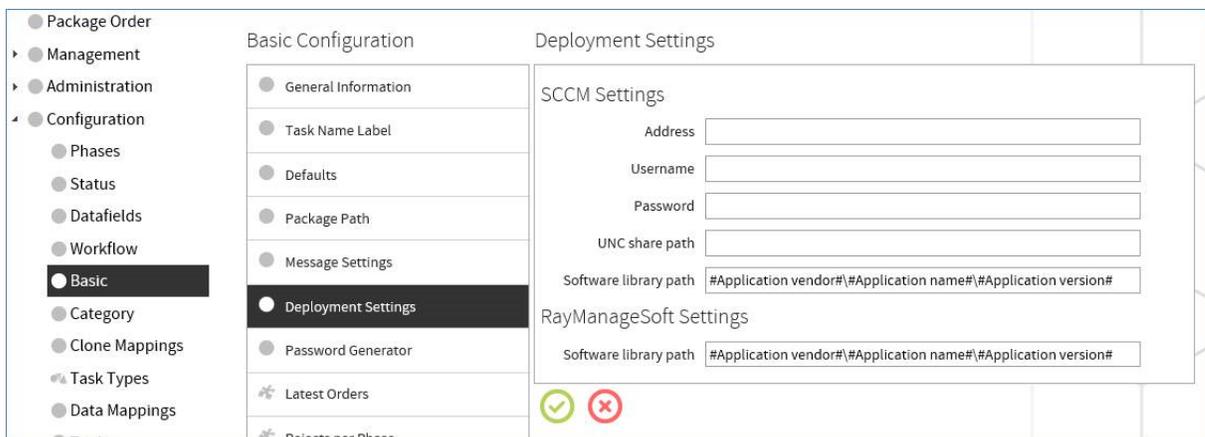
Pressing the **Go to the single-task view** button for a specific task, loads the tasks information as an actual console page, thus providing more “real-estate” in which to view and enter data.

### Package Deployment Integration [RF-3893]

The 5.0 RayFlow Client now has deploy context menu items for RMS and SCCM.



Concerning the **Configuration > Basic > Deployment Settings** options, RayFlow 5.0 now includes a **Software library** field for its **RayManageSoft Settings** section, and also adds a **SCCM Settings** section, allowing tasks to be deployed to either RMSi 10.x or SCCM 2007 and later.



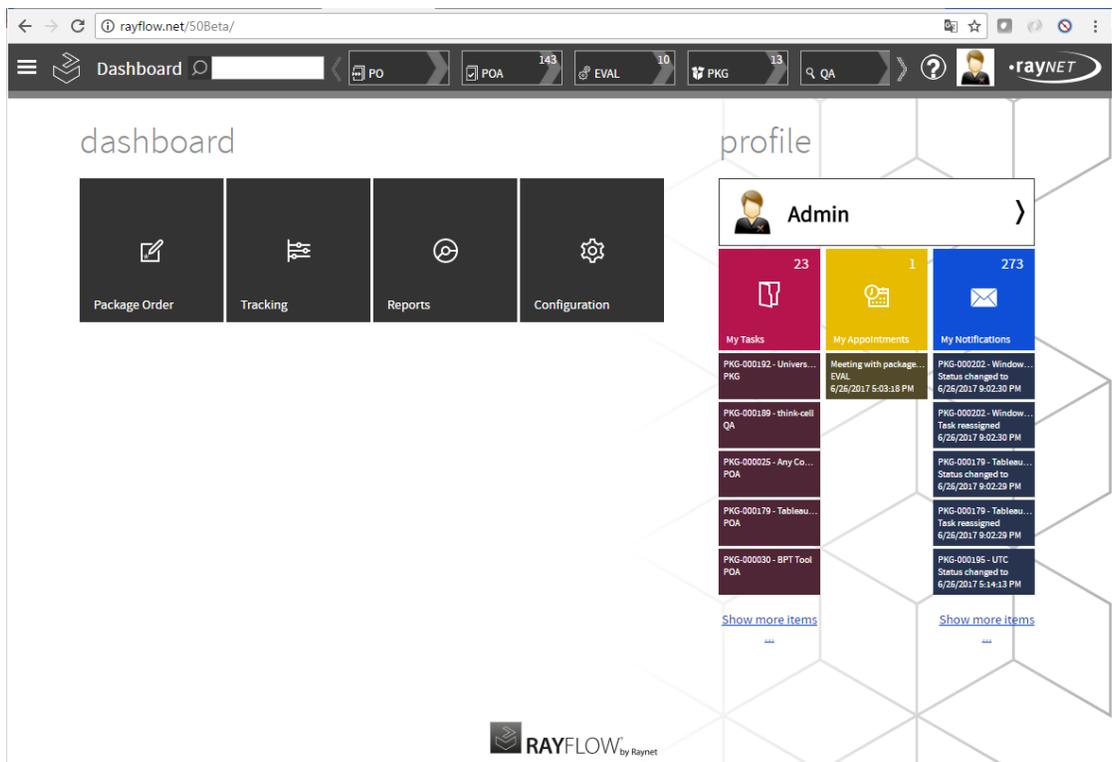
If the user running the RayFlowClient is a member of SCCM's **Application Author** role, then there is no need to enter a username and password here. The UNC share should be a location that SCCM utilizes for its software library.

### SCCM Settings

Address	192.168.233.128
Username	
Password	
UNC share path	\\192.168.233.128\SWLibrary\$\Applications\
Software library path	#Manufacturer#\#Product Name#\#Product Version#

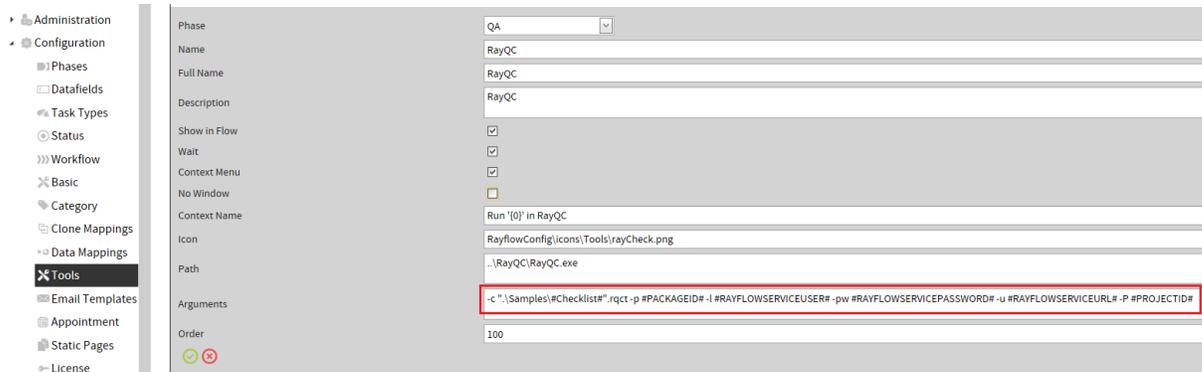
### New Intuitive User Interface Design [RF-4036]

New icons and fonts have been implemented into the 5.0 UI to give it a fresher look.



## Default RayQC Checklist DataField [RF-4037]

Along with RayQC's default tool argument which utilizes a location included with the RayQC installation, RayFlow 5.0 also provides a default value for its 'Checklist' datafield, which relates to an actual checklist that is provided with the RayQC installation:



The screenshot shows the configuration interface for a tool. The left sidebar lists various categories, with 'Tools' selected. The main panel displays the configuration for a tool named 'RayQC'. The 'Arguments' field is highlighted with a red box and contains the following command:

```
-c \"\":Samples\#Checklist#.rqct -p #PACKAGEID# -i #RAYFLOWSERVICEUSER# -pw #RAYFLOWSERVICEPASSWORD# -u #RAYFLOWSERVICEURL# -P #PROJECTID#
```

### New role type: Observer [RF-3998]

The observer role type allows users to see all datafields within a project when opening a task in single-task view mode.

To make use of this role type, one must first create a new group and assign this type to it.

## Create New Group

Name

Description

Type

CREATE

CANCEL

In this example, the **Checklist** and **RayQC Result** datafields are configured not to be visible within the DEP phase, which is why the **ProjectManager** user cannot see them when opening a task in multi-task view mode:

Software Deployment

STATUS	TYPE	COMMANDS	APPLICATION ID	PRODUCT NAME	CREATION DATE	PHASE ENTRY	SLA	CATEGORY	USERNAME
			PKG-000001	Orca	7/3/2017 11:38 AM	7/3/2017 11:47 AM	MEDIUM	REGULAR	Unassigned

**Status:** Open  
Nobody is working on this task

**User:** Unassigned

**SLA:** MEDIUM  
This task need to be done in 10 days

**Category:** REGULAR  
This is a standard task

**Type:** Package

**Creation Date:** 7/3/2017 11:38:05 AM  
**Phase Entry:** 7/3/2017 11:47:25 AM  
**Last Update:** 7/3/2017 11:47:25 AM

DATAFIELDS | COMMENTS (0) | FILES (0) | APPOINTMENTS (0) | HISTORY | LINKED TASKS (0)

DEFAULT (4) | FILE DETAILS (7)

- ▶ **Application Id** PKG-000001  
The Applications identifier
- ▶ **Package Name** Orca Editor  
Name of package object
- ▶ **Package Version** 5.0.0.0  
Version of package object
- ▶ **Application language** ENG  
The products standard language

**SAVE** **CANCEL**

Page 1 of 1 (1 Tasks) ⏪ ⏩ [1] ⏪ ⏩ Page size 15

[Create Filter](#)

When the ProjectManager user then switches to fingle-task view mode by pressing **Go to the single-task view** icon , the datafields that are not configured to be visible in the DEP phase are now displayed:

Current phase: DEP

**Status:** Open  
Nobody is working on this task

**User:** Unassigned

**SLA:** MEDIUM  
This task need to be done in 10 days

**Category:** REGULAR  
This is a standard task

**Type:** Package

**Creation Date:** 7/3/2017 11:38:05 AM  
**Phase Entry:** 7/3/2017 11:47:25 AM  
**Last Update:** 7/3/2017 11:47:25 AM

DATAFIELDS | COMMENTS (0) | FILES (0) | APPOINTMENTS (0) | HISTORY | LINKED TASKS (0)

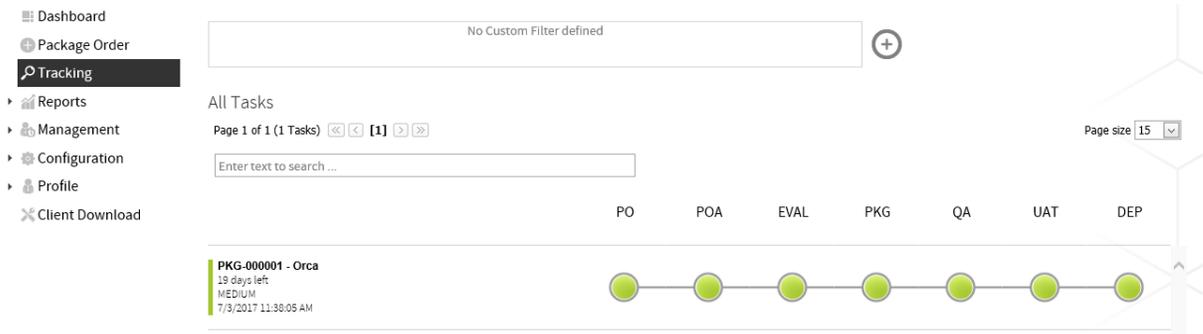
DEFAULT (6) | FILE DETAILS (7)

- ▶ **Application Id** PKG-000001  
The Applications identifier
- ▶ **Package Name** Orca Editor  
Name of package object
- ▶ **Package Version** 5.0.0.0  
Version of package object
- ▶ **Application language** ENG  
The products standard language
- ▶ **Checklist** Sample Checklist  
Name and/or Path to the RayQC checklist file.
- ▶ **RayQC Result** Passed  
Populated by RayQC post-processing.

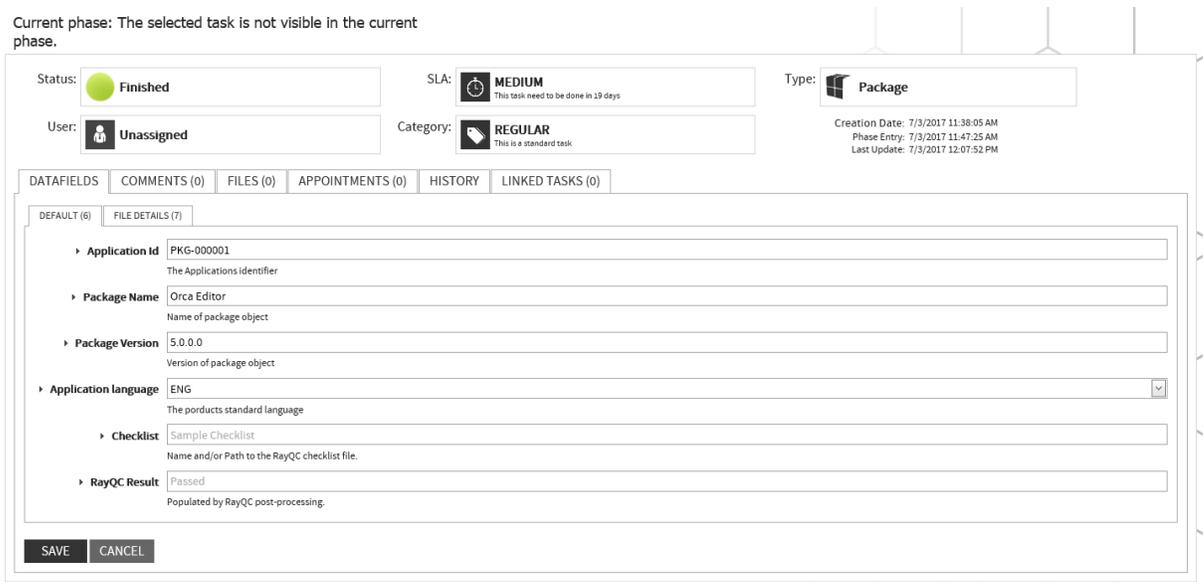
**SAVE** **CANCEL**

### Ability to view completed tasks [RF-3998]

In previous versions, once a task had completed its run through the entire project it was no longer accessible within the UI, and only its tracking history could be reviewed.



In 5.0, Project Managers and above can now select a completed task via any phase within the Tracking page and have its details displayed within the single-task view in an editable state, allowing it to be brought back into the project if required.



# Improvements & Enhancements

## Quick Search should forward to single task view instead of phase view RF-4092

When a quick search is performed and a task is selected from the result set, it is now opened in single task view mode.

## Copy/Export/Import Project - Needed extensions RF-4029

The copy project action now includes tasktype datafield group assignments, file depot settings, and datafield descriptions.

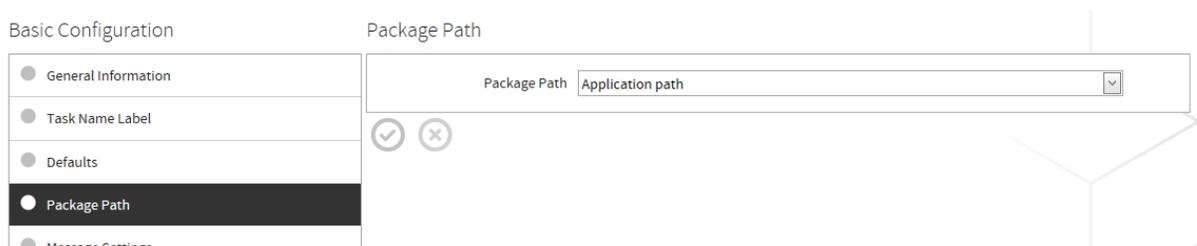
## Data fields should have default descriptions RF-3901

The datafields included in the demo Packaging project now have descriptions:

DATAFIELD NAME	PROPERTIES
<input type="text"/>	<input type="text"/>
<b>Application Id</b> The Applications identifier	Editable   Global   Unique   Visible <input type="checkbox"/> <input type="checkbox"/>
<b>Package Name</b> Name of package object	Editable   Global <input type="checkbox"/> <input type="checkbox"/>
<b>Package Version</b> Version of package object	Editable   Global <input type="checkbox"/> <input type="checkbox"/>
<b>Product Name</b> Can be auto-populated by the RayFlowClient from EXE files.	Editable   Global   Visible <input type="checkbox"/> <input type="checkbox"/>
<b>Product Version</b> Can be auto-populated by the RayFlowClient from EXE and MSI files.	Editable   Global <input type="checkbox"/> <input type="checkbox"/>
<b>FileVersion</b> Can be auto-populated by the RayFlowClient from EXE files.	Editable   Global <input type="checkbox"/> <input type="checkbox"/>
<b>Manufacturer</b> Can be auto-populated by the RayFlowClient from EXE files (Copyright) and MSI files (Authors).	Editable   Global <input type="checkbox"/> <input type="checkbox"/>
<b>Application language</b> The products standard language	Editable   Global <input type="checkbox"/> <input type="checkbox"/>
<b>Language</b> Can be auto-populated by the RayFlowClient from EXE files.	Editable   Global <input type="checkbox"/> <input type="checkbox"/>
<b>Size</b> Can be auto-populated by the RayFlowClient from EXE and MSI files.	Editable   Global <input type="checkbox"/> <input type="checkbox"/>
<b>Checklist</b> Name and/or Path to the RayQC checklist file.	Editable <input type="checkbox"/> <input type="checkbox"/>
<b>RayQC Result</b> Populated by RayQC post-processing.	Editable <input type="checkbox"/> <input type="checkbox"/>
<b>Application path</b> Source location to be used by RaySuite tools (Package Path property).	Editable   Global <input type="checkbox"/> <input type="checkbox"/>
Page 1 of 1 (13 Datafields) <input type="button" value="⏪"/> <input type="button" value="⏴"/> <b>[1]</b> <input type="button" value="⏵"/> <input type="button" value="⏩"/>	
Page size <input type="text" value="15"/> <input type="button" value="⏴"/> <input type="button" value="⏵"/>	

## Improving the Packaging project RF-3901

The demo Packaging project now has a default PackagePath value:



It also has a number of datafield names that allow them to be auto-populated by the RayFlowClient. Please refer to RF-3901's screenshot as these datafields can easily be identified by their descriptions.

## Integration & Configuration of Tools to the Default Project RF-3883

The tools included in the demo Packaging project have been streamlined so that each tool is shown in the flow as well as in the context menu as one configuration, instead of having a separate tool for each of those options like previous versions did.

The tools paths and arguments have also been corrected so that our PackagingSuite tools can be utilized via the RayFlowClient out-of-the-box.

## CSV import action does not utilize the default values of a given data field RF-2183

Importing tasks via a CSV has been improved in RayFlow 5.0, as default values associated with mandatory and non-mandatory datafields are now taken into account during the import process.

The new behavior is as follows:-

- If a datafield has a default value and is not included in the CSV, then the task is given that default value.
- If a datafield has a default value and is included in the CSV as an empty field, then the task is given that default value.
- If a datafield has a default value and is included in the CSV as a populated field, then the task is given the value from the CSV.

# Resolved Issues

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

- **RF-4087** If a user chooses to hide the navigation pane within a RayFlow web browser, this is now recorded and it will remain hidden for the user upon further logins.
- **RF-4058** File download from webDAV depots is now working correctly. The download will now be performed correctly and "." in a name will no longer be replaced by "\_".
- **RF-4055** The status report in Detailed Reports will now correctly show mapped textbox values.
- **RF-4039** **Project Clean** is now working if files as were deleted in a task.
- **RF-4038** Download with **save as...** is now working for files on FTP depot.
- **RF-4034** The Dropdown-Menu sort sequence is now ordered in the right way.
- **RF-4018** **File Depots** - the **PO** phase no longer ignores Phase allocation.
- **RF-3999** The column chooser now works in the **link task** dialog
- **RF-3996** An error that occurred when importing bank holidays using `.ics` files has been resolved.
- **RF-3938** There will now longer be an exception shown when the path to a tool contains invalid characters.
- **RF-3019** The **dateonlypicker** datafield will now show the correct time stamp instead of 0:00:00.

# Known Issues

Following issues are known to exist within the current version of RayFlow Server.

## **RF-3893 – Integrate deployment functions inside RayFlow Client/Web.**

- The RFC does not retrieve the SCCM Settings so the deployment wizards 'SCCM Configuration' dialog fields are empty.
- The wizard throws an error when moving to the 'Folder' dialog.
- The wizards [Test connection] button does not test the UNC share.
- The wizards export process results in success even though it had no share access so the application files were not copied.
- The wizards export process creates the application within SCCM's applications root, instead of within a sub-folder if one was specified within the 'Folder' dialog.

## **RF-4029 - Copy/Export/Import Project - Needed extensions**

- Single & multi dropdown datafield default selections are not copied.
- Task Name Label is not copied.
- Report & packagestore.com datafield mappings are not copied.

## **RF-4037 - Client or server need provide a standard RayQC check list**

- As default values only exist within the create phase, the RayQC tool argument needs to be modified to include the actual 'Sample Checklist' name.

## **RF-4064 – 'Configuration > Basic > Deployment Settings' utilize incorrect datafield names.**

## **RF-4068 – Creation phase's packagestore.com tab's performance needs improvement.**

## **RF-4070 – Data mappings for packagestore.com only support text datafields.**

## **RF-4071 – Unable to save deployment settings unless SCCM details are entered as well.**

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**RF-4079 – The observer role type displays all project datafields in the multi-Task view mode, instead of in the single-task view mode only.**

# Migration

This chapter of the document is meant to help users upgrade from their existing RayFlow version to RayFlow Server 5.0.

## Migration from 1.x RayFlow Servers

If migrating from a 1.x RayFlow server to RayFlow 5.0, it is recommended to ask for the help of our consultants.

## Migration from 2.x RayFlow Servers or Higher to 5.0

### 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

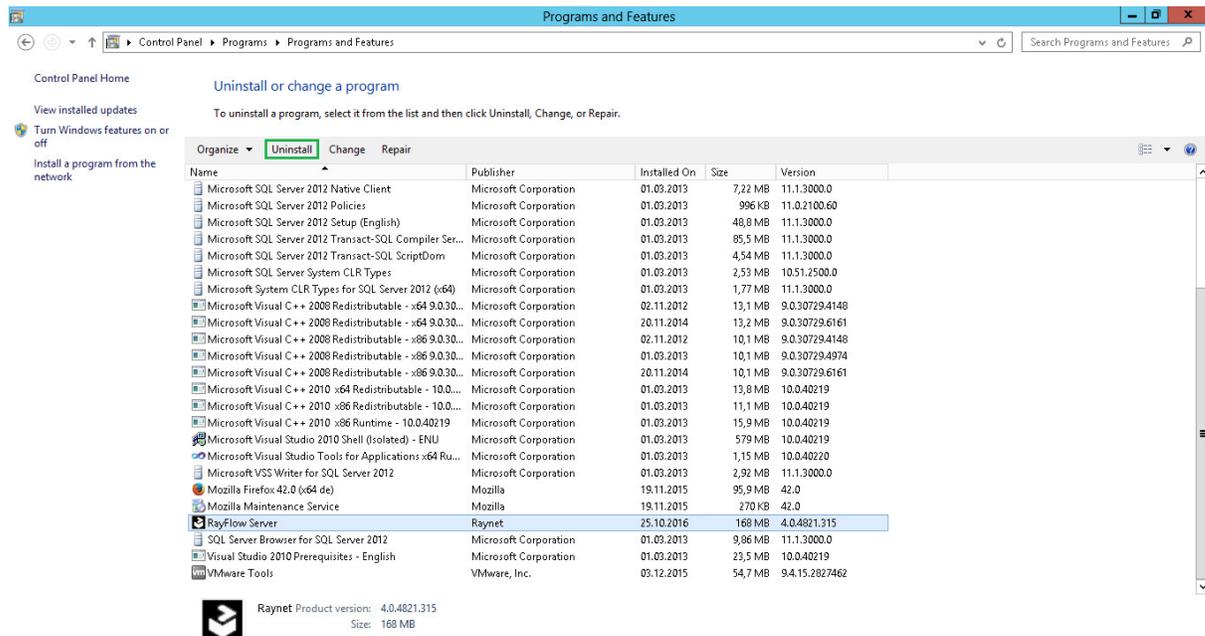


### Warning:

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.

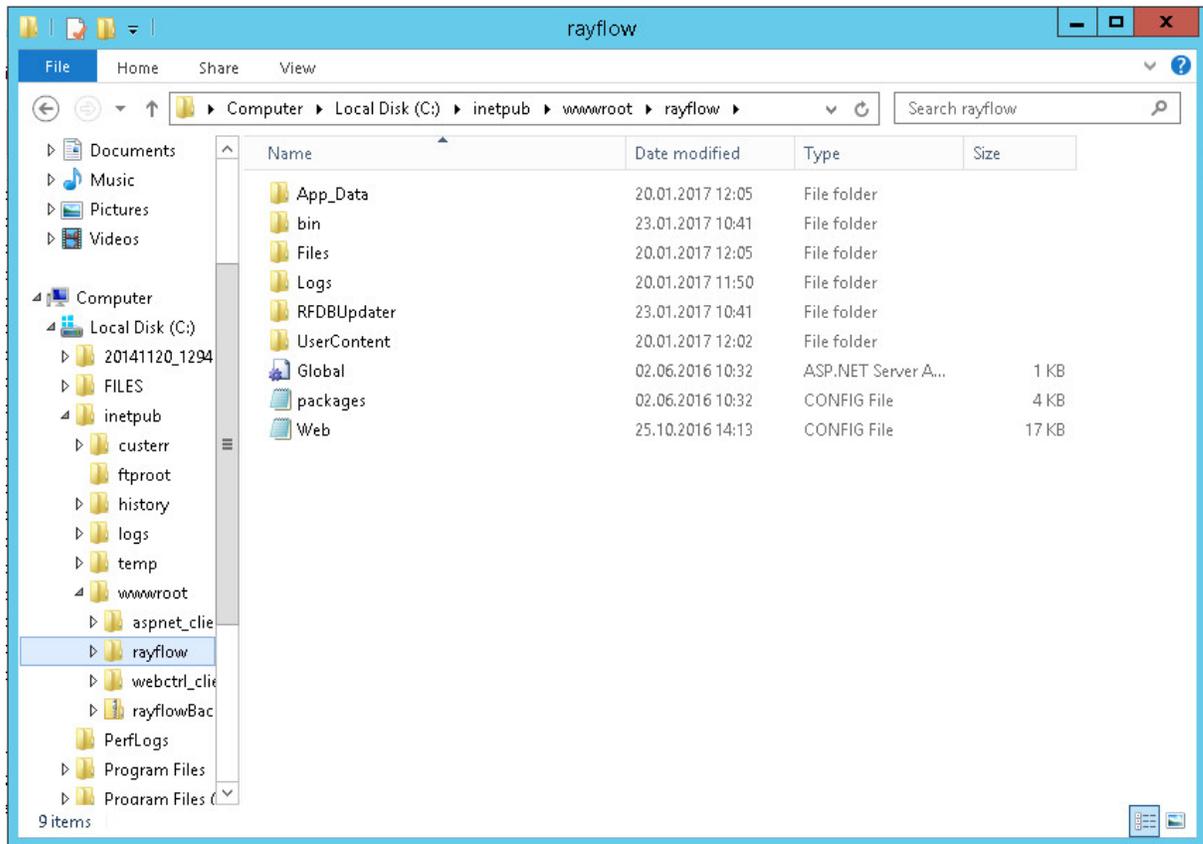
To uninstall RayFlow Server use the Windows Control Panel. In the **Uninstall or change a program** section, select the entry for RayFlow Server. Right-click on the entry and select **Uninstall** from the context menu.



### 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 5.0

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%)
```

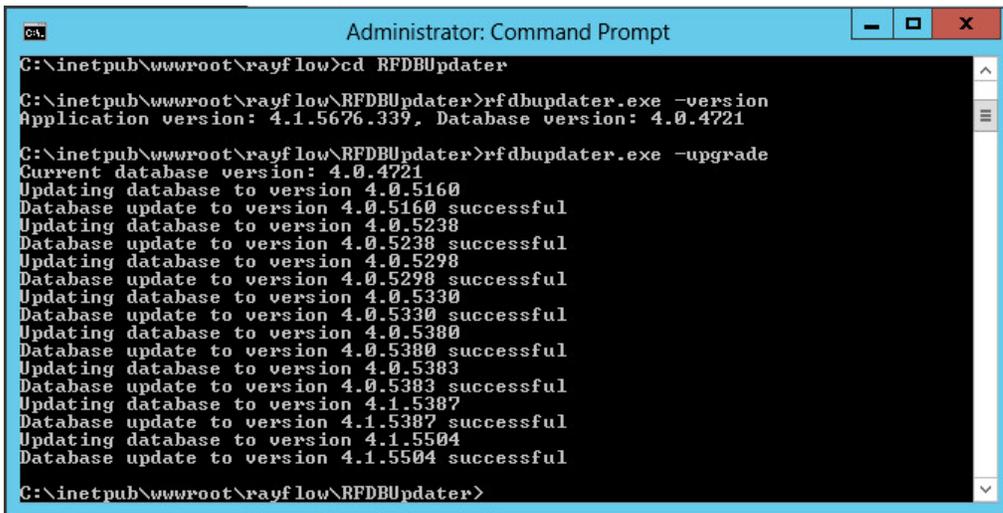
**List of Arguments:**

**-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.



```
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.

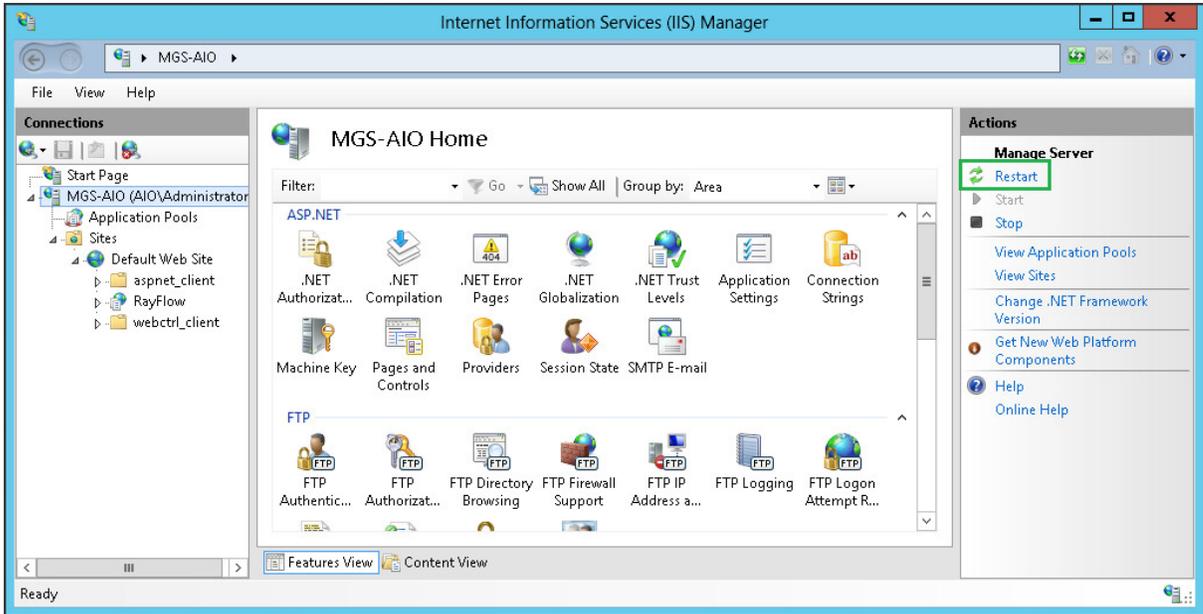
## 6. Manual Configuration

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

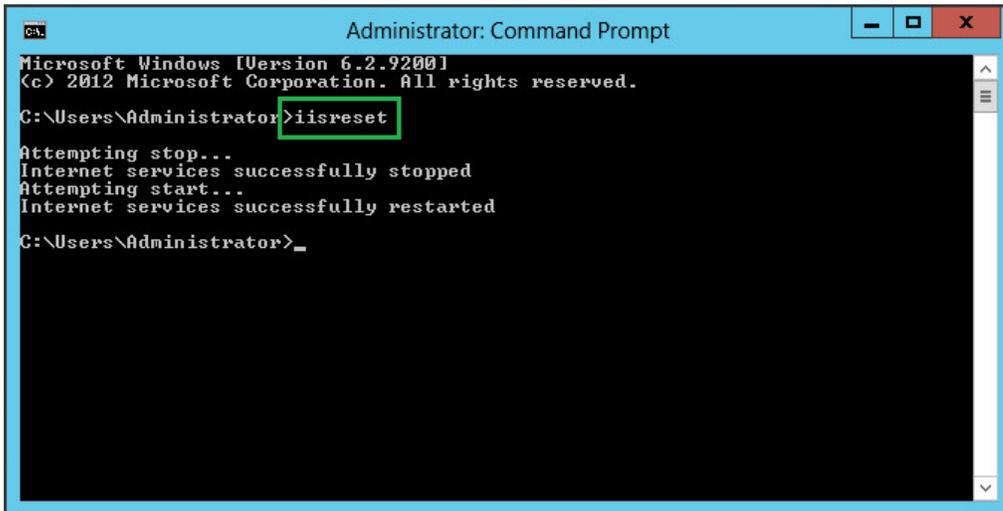
**Internet Information Services (IIS) restart**

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 License

If the previously installed RayFlow Server version has been a version prior to 4.0, it will be necessary to activate the RayFlow Server 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](#).

# System Requirements

## 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 Server 5.0.

- 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.

# Additional Information

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

- The *Operations Supplement* provides information about third-party software and libraries redistributed with RayFlow Server.
- The *Administration and Configuration Guide* provides detailed information about RayFlow Server.
- 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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