

# Workflow Management

Installation Guide RayFlow Server 6.5

RayFlow is part of RaySuite.





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Installation Guide RayFlow Server RayFlow 6.5

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# Overview

RayFlow is a software management workflow tool that helps to control and monitor the complicated IT processes in an enterprise. This guide shows how to can setup RayFlow web server in your environment.

Not only is RayFlow straightforward and easy to use it is highly customizable. To know more about, how RayFlow can help you monitor and control your enterprise IT process, contact RayNet.

# Who Should Use this Guide?

This guide is for administrators, consultants and users responsible for deployment of the RayFlow Web Server.

# **Contact Support**

For any questions about the order process and documentation, please contact the Raynet Support Team using our Support Panel at <u>https://raynetgmbh.zendesk.com</u>.

## **Documentation Requests**

We welcome all suggestions and feedback on the various documentation resources available with RayFlow and its components. Customer comments and concerns can be forwarded through a local Raynet support representative.



## Requirements

### **Hardware Requirements**

This section lists the minimal hardware requirements for devices running RayFlow.

Minimal

- Disc space: 120 GB
- RAM: 1 GB
- CPU: Pentium 4, 2.4 GHz or better Processor
- Network: 100 Mbit

Recommended

- Disc Space: 500 GB RAID 10 (4x250 GB)
- RAM: 8 GB
- CPU: Intel Core 2 Duo or better Processor
- Network: 100 Mbit

### **Software Requirements**

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

- 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 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)



# Preparing the OS

## Domain Join

Join a Domain by:

- 1. In Control Panel -> System and Security -> System select Change settings in the Computer name, domain, and workgroup settings submenu.
- 2. Click Change to the Computer Name/Domain Changes mask.
- 3. Enter the **complete Domain Name** for the whole network.

**Reboot** the system after entering user credentials (use Domain Administrator) for the domain join.

19		System	_ 🗆 X
🔄 🍥 🔹 🕇 🛃 🖌 Cor	ntrol Panel + All Control Panel Items + System	✓ ♥ Search Cont	rol Panel 🔎
Control Panel Home	View basic information about your comp	uter	Ø
Remote settings	Windows Edition		
Advanced system settings		Windows Se	rver <sup>®</sup> 2012 R2
	Computer Name/Domain Changes	System Properties	
	You can change the name and the membership of this computer. Changes might affect access to network resources.	Computer Name         Hardware         Advanced         Remote           Windows uses the following information to identify your computer on the network.         Identify your computer         Identify your computer	
	Computer name: WIN-PNL49D7MRU6 Full computer name: WIN-PNL49D7MRU6	Computer description: For example: "IIS Production Server" or "Accounting Server". Full computer name: WIN-PNL49D7MRU6 Workgroup: WORKGROUP	Change settings
	Member of Domain: RF.Jocal 3	To rename this computer or change its domain or Change Change 2	
See also	O Workgroup: WORKGROUP OK Cancel		Activate Windows
Action Center			
Windows Update		OK Cancel Apply	



## Installing the Prerequisites

For successful RayFlow web server setup, there are several prerequisites necessary on the systems.

## Microsoft .NET Framework

Microsoft .NET Framework 3.5

.NET 3.5 SP1 is a requirement for installation of Microsoft SQL Server 2012 Express Advanced SP2. If your SQL server is on-box; follow the steps to install .NET 3.5 on Windows Server 2012 R2. Note: .NET Framework 3.5 is not part of Windows Server 2012 R2. Hence while trying to install it from the Server Manager UI, you will be asked to specify alternate source path of the installation files.

Start command prompt in administrative mode and enter this:

dism /online /enable-feature /featurename:NetFX3 /all /Source:d:\sources\sxs /LimitAccess

Note: Source should be Windows installation disk. In this case located on D: Microsoft .NET Framework 4.5

Fully update the Windows Server 2012 R2, as this will add .NET 4.5 which includes .NET 4.0



### Installing the Web Server Role(IIS)

Configure the Web Server Role to support HTTP/HTTPS/FTP transfer and web services. In a Windows environment, this is covered by the Internet Information Services (IIS) To begin a role or feature installation using the server manager interface, launch Server Manager first. Once launched, selecting the Add Roles and Features option from the Server Manager Command Bar launches the Roles and Features wizard. Upon launch, the Before You Begin pane displays to administrators to provide an overview of the wizard and the operations it can perform.

<b>A</b>	Add Roles and Features Wizard
Before you begin	DESTINATION SERVER WIN-PNL49D7MRU6
Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	<ul> <li>This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.</li> <li>To remove roles, role services, or features:</li> <li>Start the Remove Roles and Features Wizard</li> <li>Before you continue, verify that the following tasks have been completed: <ul> <li>The Administrator account has a strong password</li> <li>Network settings, such as static IP addresses, are configured</li> <li>The most current security updates from Windows Update are installed</li> </ul> </li> <li>If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.</li> <li>To continue, click Next.</li> </ul> <li>Skip this page by default</li>
	< Previous Next > Install Cancel

Select Next and proceed to the Select installation type pane.

Select Role-based or feature-based installation as the installation type and click Next.



Select installatio	n type	DESTINATION SERVE WIN-PNL49D7MRU
Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	<ul> <li>Select the installation type. You can install roles and features of machine, or on an offline virtual hard disk (VHD).</li> <li>Role-based or feature-based installation Configure a single server by adding roles, role services, and</li> <li>Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructuor or session-based desktop deployment.</li> </ul>	l features.

Select the destination server from the server pool and proceed to the Select Server Roles pane by clicking Next:

B	Add Role	es and Features V	/izard	_ <b>D</b> X
Select destination	n server			DESTINATION SERVER WIN-PNL49D7MRU6
Before You Begin	Select a server or a virtual	I hard disk on which t	to install roles and features.	
Installation Type	<ul> <li>Select a server from the</li> </ul>	he server pool		
Server Selection	<ul> <li>Select a virtual hard d</li> </ul>	isk		
Server Roles	Server Pool			
Features				
Web Server Role (IIS)	Filter:			
Role Services	Name	IP Address	Operating System	
Confirmation	WIN-PNL49D7MRU6	192.168.47.128	Microsoft Windows Server 2012 R	2 Standard
Results				
	1 Computer(s) found			
		Server Manager. Off	lows Server 2012, and that have bee ine servers and newly-added servers	
		< Prev	vious Next > Inst	all Cancel

Select Web Server (IIS) in the Server Roles menu and click Next to proceed:



Select server roles	5	DESTINATION SERV WIN-PNL49D7MR
Before You Begin Installation Type	Select one or more roles to install on the selected server.	Description
Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Application Server DHCP Server DNS Server Fax Server Fax Server File and Storage Services (1 of 12 installed) Hyper-V Network Policy and Access Services Print and Document Services Remote Access Remote Access Remote Desktop Services Volume Activation Services Volume Activation Services Wheb Server (IIS) Windows Deployment Services Windows Server Essentials Experience Windows Server Update Services Vindows Server Update Services	Web Server (IIS) provides a reliabl manageable, and scalable Web application infrastructure.

On the Features window, expand the .NET Framework 4.5 Features and then select ASP.NET 4.5

à	Add Roles and Features Wizard	_ <b>D</b> X
E Select features Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Select one or more features to install on the selected server.  Features	DESTINATION SERVER WIN-PNL49D7MRU6 Description Desktop Experience includes features of Windows 8.1, including Windows Search. Vindows Search lets you search vour device and the Internet from one place. To learn more about Desktop Experience, including how to disable web results from Windows Search, read http:// go.microsoft.com/fwlink/? Linkld=390729
	Direct Play Enhanced Storage Failover Clustering	
	< Previous Next >	Install Cancel

Click on the Next > button.



Web Server Role	e (IIS) Destination server Win-pnl49d7mrue
Before You Begin Installation Type Server Selection Server Roles Features	Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 8.5 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 8.5, ASP.NET, and Windows Communication Foundation. Things to note:
Web Server Role (IIS)	<ul> <li>Using Windows System Resource Manager (WSRM) can help ensure equitable servicing of Web server traffic, especially when there are multiple roles on this computer.</li> </ul>
Role Services Confirmation Results	<ul> <li>The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTT errors), monitor and log server activity, and configure static content compression.</li> </ul>
	More information about Web Server IIS

In Role Services, customize the installation by selecting following services and then click on the Next > button.



- Web Server
- o Common HTTP Features
- ✓ Default Document
- ✓ Directory Browsing
- ✓ HTTP Errors
- ✓ Static Content
- $\circ$  Health and Diagnostics
- ✓ HTTP Logging
- ✓ Logging Tools
- ✓ Tracing
- $\circ$  Performance
- ✓ Static Content Compression
- $\circ \text{ Security}$
- ✓ Request Filtering
- ✓ Digest Authentication
- Application Development
- ✓.NET Extensibility 3.5
- ✓.NET Extensibility 4.5
- ✓ ASP.NET 3.5
- ✓ ASP.NET 4.5
- ✓ ISAPI Extensions
- ✓ ISAPI Filters

Management Tools

- ✓ ISS Management Console
- ✓ IIS6 Management Compatibility
- ✓ IIS 6 Metabase Compatibility
- ✓ IIS 6 Management Console
- ✓ IIS 6 Scripting Tools
- ✓ IIS6 WMI Compatibility
- ✓ IIS Management Scripts and Tools



<b>B</b>	Add Roles and Features Wizard	_ <b>D</b> X
Select role service Before You Begin Installation Type Server Selection Server Roles Features		DESTINATION SERVER WIN-PNL49D7MRU6 Description IIS 6 Scripting Tools provide the ability to continue using IIS 6 scripting tools that you built to manage IIS 6 in IIS 7, especially if
Web Server Role (IIS) Role Services Confirmation Results	<ul> <li>✓ Directory Browsing</li> <li>✓ HTTP Errors</li> <li>✓ Static Content</li> <li>HTTP Redirection</li> <li>WebDAV Publishing</li> <li>✓ Health and Diagnostics</li> <li>✓ HTTP Logging</li> <li>Custom Logging</li> <li>✓ Logging Tools</li> <li>ODBC Logging</li> <li>Request Monitor</li> <li>✓</li> <li>✓ Ⅲ&lt; &gt;</li> </ul>	your applications and scripts that use ActiveX Data Objects (ADO) or Active Directory Service Interface (ADSI) APIs. IIS 6 Scripting Tools require Windows Process Activation Service Configuration API.
	< Previous Next	> Install Cancel

### Click Install:

2	Add Roles and Features Wizard	_ <b>D</b> X
Confirm installat	ion selections	DESTINATION SERVER WIN2012DEMOS
Before You Begin	To install the following roles, role services, or features on selected server, click In	istall.
Installation Type	Restart the destination server automatically if required	
Server Selection Server Roles Features	Optional features (such as administration tools) might be displayed on this page been selected automatically. If you do not want to install these optional features their check boxes.	
Web Server Role (IIS) Role Services	.NET Framework 4.5 Features ASP.NET 4.5	^
Confirmation	Web Server (IIS) Web Server	
Results	Common HTTP Features Static Content	
	Default Document	
	Directory Browsing	
	HTTP Errors	
	HTTP Redirection	~
	Export configuration settings Specify an alternate source path	
	< Previous Next >	nstall Cancel

When the IIS installation completed, the wizard reflects the installation status:



	View installation progress	
Installation Type	Feature installation	
	A restart is pending on WIN-PNL49D7MRU6. You must restart the destinatio installation.	n server to finish t
	Disaten Develor	
Web Server Role (IIS)	Directory Browsing HTTP Errors	-
Role Services	Static Content	
Confirmation	Health and Diagnostics	
Results	HTTP Logging	
	Tracing	
	Logging Tools	
	Performance	
	Static Content Compression	-
	Security	

Click Close to exit the wizard and Restart your server.



## SQL Server Installation

To initialize the installation start the Setup.exe from DVD/ISO/fileshare Start the installation by selecting the option New SQL Server stand-alone installation or add feature to an existing installation.



Skip the Setup Support Rules with the OK button when everything has passed In the next window enter the product key/select the version and click OK to proceed further.



1	SQL Server 2012 Setup	_ □	x
Setup Support Rul	es		
Setup Support Rules ider corrected before Setup ca	tify problems that might occur when you install SQL Server Setup support files. Failures must be an continue.		
Setup Support Rules	Operation completed. Passed: 8. Failed 0. Warning 0. Skipped 0.		
	Show details >> View detailed report	Re-	run
	ОК	Cance	
	UK UK	Cance	-

Check for updates if any and then click Next to proceed to the License Agreement window.

1	SQL Server 2012 Setup			- 🗆 X	
Product Updates Always install the latest updates to enhance your SQL Server security and performance.					
Product Updates Install Setup Files	There are no updates for SQL Server found online.  Read our privacy statement online Learn more about SQL Server product updates			Check again	
		< Back	Next >	Cancel	

Accept the license terms and proceed further with Next.



To install SQL Server 2	2012, you must accept the Microsoft Software License Terms.	
License Terms Product Updates	MICROSOFT SOFTWARE LICENSE TERMS	
Install Setup Files	MICROSOFT SQL SERVER 2012 EXPRESS	
	These license terms are an agreement between Microsoft Corporation (or based on where yo live, one of its affiliates) and you. Please read them. They apply to the software named abow which includes the media on which you received it, if any. The terms also apply to any Micros	e,
	updates,	
	<ul> <li>supplements,</li> </ul>	
	Internet-based services, and	
	sunnort services	
	I sunnort services	/ Prir
		Prin
	Сору	

Ensure that every Support Rule has passed and ignore the Windows Firewall warning. Click on the Next button.

1	SQL Server 2012 Setup	_ <b>D</b> X			
Setup Support Rules Setup Support Rules identify problems that might occur when you install SQL Server Setup support files. Failures must be corrected before Setup can continue.					
Setup Support Rules	peration completed. Passed: 6. Failed 0. Warning 1. Skipped 0.				
Feature Selection					
Installation Rules					
Instance Configuration	Hide details <<	Re-run			
	iew detailed report				
Server Configuration	Rule	Status			
Database Engine Configuration	Fusion Active Template Library (ATL)	Passed			
Reporting Services Configuration	Previous releases of SQL Server 2008 Business Intelligence Devel	Passed			
	No SxS install with SQL Server "Denali" CTP0	Passed			
	Consistency validation for SQL Server registry keys	Passed			
<sup>-</sup>	Consistency valuation for SQL Server registry keys Computer domain controller	Passed			
	Microsoft .NET Application Security	Passed			
	Windows Firewall	Warning			
	A windows inewait	warning			
	< Back Next >	Cancel Help			
		11. 11			

On the Feature Selection window select following features:



- Instance Features
- ✓ Database Engine Services
- ✓ Full-Text and Semantic Extractions for Search
- Shared Features
- ✓ SQL Server Data Tools
- ✓ Client Tools Connectivity
- ✓ Client Tools Backward Compatibility
- ✓ Documentation Components
- ✓ Management Tools Basic
- ✓ Management Tools Complete

Specify the directory for your installation and click Next to proceed with the installation.

2	SQL Server 2012 Setup		x
Feature Selection Select the Express features to in Setup Support Rules	stall.	Feature description:	
License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Instance Features         Instance Features         SQL Server Replication         Full-Text and Semantic Extractions for Searc         Reporting Services - Native         Shared Features         SQL Server Data Tools         Client Tools Connectivity         Client Tools SDK         Documentation Components         Management Tools - Basic         Management Tools - Complete         SQL Client Connectivity SDK         LocalDB         III         Select All         Unselect All         Shared feature directory:         El\Program Files\Micross         Shared feature directory (x86):	The configuration and operation of each instance feature of a SQL Server instances.         isolated from other SQL Server instances.         SQL Server instances can operate side-by-side on the same computer.         Prerequisites for selected features:         Already installed:         Windows PowerShell 2.0         Microsoft NET Framework 3.5         Microsoft Visual Studio 2010 Redistributab         Microsoft NET Framework 4.0         To be installed from media:         <	·

In the next step verify the installation Rules for Passed or Not Applicable and go on with the Next to the Instance Configuration.

Keep the configuration to the Default instance, settings, and directory.



5	SQL S	erver 2012 Se	etup		_ <b>D</b> X
Instance Configuration	n				
Specify the name and instance	e ID for the instance of SQL Serv	er. Instance ID b	becomes part of	the installation path.	
Setup Support Rules Feature Selection Installation Rules	<ul> <li><u>D</u>efault instance</li> <li>N<u>a</u>med instance:</li> </ul>	MSSQLSERVE	R		
Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration	Instance <u>I</u> D: Instance <u>ro</u> ot directory:	MSSQLSERVE E:\Program F	R iles\Microsoft SC	QL Server\	
Reporting Services Configuration Error Reporting Installation Configuration Rules Installation Progress	SQL Server directory: Reporting Services directory:	-		L Server\MSSQL11.MS	
Complete	Installed instances:	nce ID	Features	Edition	Version
			< <u>B</u> ack	Next > Car	ncel Help

Verify that the Disk Space Requirements are fulfilled and proceed further.

1	SQL Server 2012 Setup	×				
Disk Space Requirements Review the disk space summary for the SQL Server features you selected.						
Setup Support Rules Feature Selection Installation Rules Instance Configuration <b>Disk Space Requirements</b> Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Disk Usage Summary: Orive C: 3306 MB required, 12509 MB available System Drive (C:\): 3306 MB required Drive E: 2878 MB required, 1019 MB available Shared Install Directory (E:\Program Files\Microsoft SQL Server\): 1060 MB required Instance Directory (E:\Program Files\Microsoft SQL Server\): 1818 MB required					
	< Back Next > Cancel Help					

On the Server Configuration window set the SQL Server Browser service`s startup type to Automatic and then click Next to proceed with the installation.



				1022566
Setup Support Rules	Service Accounts Collation			
Feature Selection Installation Rules	Microsoft recommends that you use	a separate account for each	SQL Server serv	rice.
Instance Configuration	Service	Account Name	Password	Startup Type
Disk Space Requirements	SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic 🗸
Server Configuration	SQL Full-text Filter Daemon Launc	NT Service\MSSQLFDLa		Manual
Database Engine Configuration	SQL Server Browser	NT AUTHORITY\LOCAL		Automatic 🗸
Installation Progress Complete				

In the Database Engine Configuration set the SQL Server Administrators to Domain Admins and local System Admins and click Next to proceed.

1	SQL Server 2012 Setup	_ <b>_</b> ×					
Database Engine Configuration Specify Database Engine authentication security mode, administrators and data directories.							
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration <b>Database Engine Configuration</b> Reporting Services Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Server Configuration         Data Directories         User Instances         FILESTREAM           Specify the authentication mode and administrators for the Database Engine.         Authentication Mode         Image: Configuration M						
	BUILTINVAdministrators (Administrators)	QL Server administrators lave unrestricted access o the Database Engine. Cancel Help					

Skip the Error Reporting in next window.



rer features and services. Specify the information that you would like to automatically send to Microsoft to improve future releases
Specify the information that you would like to automatically send to Microsoft to improve future releases
of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. See the Microsoft SQL Server 2012 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.

Verify that all the installation Configuration Rules are Passed or Not applicable and check if everything is ready to install in the next window The Installation Progress is shown.

1	SQL Server 2012 Setup	-		x
Installation Progress				
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Creating servicing cache folder.			
	Next > Cancel		Help	

Verify if the Installation of various SQL Server features succeeded.



Complete		
Your SQL Server 2012 instal	lation completed successfully with product updates.	
Setup Support Rules	Information about the Setup operation or pose	ible next steps:
Feature Selection	Feature	Status
Installation Rules	Management Tools - Complete	Succeeded
Instance Configuration	Client Tools Connectivity	Succeeded
Disk Space Requirements	Client Tools Backwards Compatibility	Succeeded
Server Configuration	Management Tools - Basic	Succeeded
Database Engine Configuration	SQL Server Data Tools	Succeeded
	Database Engine Services	Succeeded
Error Reporting		
Installation Configuration Rules		
Installation Progress	Details:	
Complete	Viewing Product Documentation for So	QL Server
	been installed. By default, the Help Viewer SQL Server, you can use the Help Library	and manage the documentation for SQL Server ha component uses the online library. After installing Manager component to download documentation t see <u>Use Microsoft Books Online for SQL Server</u> 24683>.
	Summary log file has been saved to the followi <u>C:\Program Files\Microsoft SQL Server\110\Se</u> PNL49D7MRU6 20140710 135421.bt	ng location: tup Bootstrap\Log\20140710_135421\Summary_WIN
	C:\Program Files\Microsoft SQL Server\110\Se	



### **Installing Crystal Reports**

Installation of Crystal Reports is only required for users who are using Crystal Reports for Reporting

Install Crystal Reports 12.0 by running the following administrative command line:

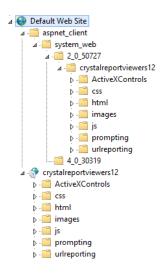
```
msiexec.exe /I .\CRRuntime 12 0 mlb.msi /quiet /l*vx E:\crruntime.log
```

Crystal Reports will use the IIS's DefaultAppPool application pool as well as create the following IIS virtual directory and application:



This page lets you view and manage the list of applications. Applications contain content and code.

The applications have been filtered by the DefaultAppPool application pool.					
Remove filter					
Filter: -	🌱 Go 👒 🥁 Show All   Group by: No Grouping 🔹				
Virtual Path 📩	Physical Path	Site	Application Pool		
/crystalreportviewers12	C:\Program Files (x86)\Business Objects\Common\4.0\crystalreportviewers12	Default Web Site	DefaultAppPool (v4.0)		
Root Application	%SystemDrive%\inetpub\wwwroot	Default Web Site	DefaultAppPool (v4.0)		





### Installing Microsoft Report Viewer Runtime

Microsoft Report Viewer Runtime is required to view SQL Server Reporting Services (SSRS) reports in RayFlow.

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

Report Viewer 2005 Service Pack 1

http://support.microsoft.com/kb/933137

• Crystal Report 2008 Runtime (Only Required if Crystal Reports are used for reporting).

Follow the steps to successfully install Microsoft Runtime Viewer 2012.

Download Microsoft SQL Server System CLR Types package and install it.

1. Start the CLR Types Installer. Click on the **Next** button.

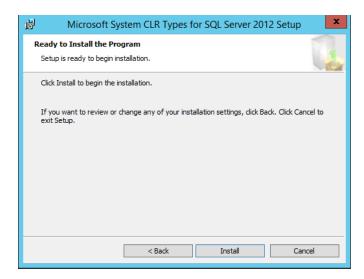
岁 Microsoft	System CLR Types for SQL Server 2012 Setup
	Welcome to the Installation Wizard for Microsoft System CLR Types for SQL Server 2012
	Setup helps you install, modify or remove Microsoft System CLR Types for SQL Server 2012. To continue, dick Next.
	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

2. Agree to the terms and condition and click on the **Next** button.



<b>P</b>	Microsoft Sys	stem CLR Types f	or SQL Server 20	12 Setup	×
	se Agreement ase read the following l	icense agreement care	fully.		1
MICF	ROSOFT SOFTWAR	E LICENSE TERMS			^
MICF	ROSOFT SYSTEM C	LR TYPES FOR MI	CROSOFT SQL SER	VER 2012	
base They	d on where you live apply to the softwa	an agreement betw , one of its affiliate are named above, v he terms also apply	s) and you. Please i which includes the n	read them.	
•ι	ıpdates,				~
_	ccept the terms in the l o not accept the terms	cense agreement in the license agreemer	nt		
		< Back	Next >	Cancel	

3. Click on the **Install** button.



4. Installation progress is shown.



i Install	Microsoft System CLR Types for SQL Server 2012 Setup
	program features you selected are being installed.
Ą	Please wait while the Installation Wizard installs Microsoft System CLR Types for SQL Server 2012. This may take several minutes.
	Status: Publishing product information
	< Back Next > Cancel

5. Click on the **Finish** button to finalize the installation.

🗒 Microsoft	System CLR Types for SQL Server 2012 Setup
	Completing the Microsoft System CLR Types for SQL Server 2012 installation
	Setup has installed Microsoft System CLR Types for SQL Server 2012 successfully. Click Finish to exit.
	< Back Finish Cancel

Download Microsoft Report Viewer Runtime (link to the download page is provided at the start of this chapter).

1. Start the runtime installer and click on the **Next** button.



谩	Microsoft Report Viewer 2012 Runtime
	Welcome to the Installation Wizard for Microsoft Report Viewer 2012 Runtime
	Setup helps you install, modify or remove Microsoft Report Viewer 2012 Runtime. To continue, dick Next.
	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

2. Agree to the terms and condition and click on the **Next** button.

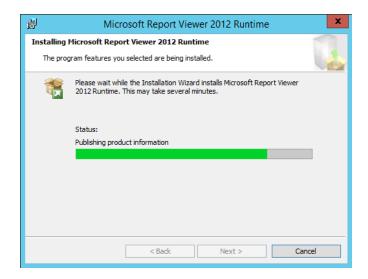


3. Click on the **Install** button to initialize the installation routine.



<b>i</b>	Microso	oft Report Vie	wer 2012	Runtime		X
Ready to	Install the Progra	m				
Setup is	ready to begin install	ation.				
Click Ins	tall to begin the instal	lation.				
If you w exit Seta	ant to review or chan .p.	nge any of your ins	tallation setti	ngs, dick Ba	ck. Click Cance	el to
		< Back	Ins	tall	Cance	el

4. Installation progress is shown.



5. Click on the **Finish** button to finalize the installation routine.



Completing the Microsoft Report Viewer 2012 Runtime installation
Setup has installed Microsoft Report Viewer 2012 Runtime successfully. Click Finish to exit.



# **RayFlow Server Deployment**

Follow the steps mentioned below to successfully install RayFlow.

After installing the prerequisites for the RayFlow Server start the RayFlow installer.

1. RayFlow installer start-up page is shown. Click on the **Next** button to proceed.

谩	RayFlow Server - Install
	Welcome to the Install Wizard for RayFlow Server
	The Install Wizard will install RayFlow Server on your computer. Click Next to continue or Cancel to exit the Install Wizard.
	WARNING: This program is protected by copyright law and international treaties.
	Next > Cancel

2. Read the license agreement. To proceed accept the license terms (activates the next button) and click on the **Next** button.

1	RayFlow Server - Install	x
	License Agreement You must agree with the license agreement below to proceed.	
	RayFlow Workflow Tool END USER LICENSE AGREEMENT	^
	IMPORTANT-READ CAREFULLY:	
	This End-User License Agreement ("Agreement") is a legal contract between you (either (a) an individual user or (b) a business organization ("Licensee") and Licensor (as designated below) for Licensor's Software, as identified on a quote or license certificate, including any associated libraries (the "Software"), and any media, printed materials and electronic documentation. The Software municipal cane or meta product modules that are not accessed in included in the software in the software and the software in the software in the software municipal cane or meta product modules that are not accessed in the included in the software in the software in the software in the software included in the software in the softwar	~
	● I accept the terms in the license agreement	
	$\bigcirc$ I do not accept the terms in the license agreement	
R	layPadk ®	
	< Back Next > Cancel	



3. If the installation directory is required to be changed then click on the **Change..** button and select the new installation directory. Click on the **Next** button.

₩	RayFlow Server - Install
	tion Folder ext to install to this folder, or click Change to install to a different folder.
Þ	Install RayFlow Server to: C: \inetpub\wwwroot\rayflow\ Change
RayPack ®	< Back Next > Cancel

4. Setup type options are shown. Select the type as required.



5. When **Custom** is selected as the installation type, The custom setup page is shown. Click on the **Next** button to proceed.



뻻	RayFlow Server - Install	x
	n Setup t the program features you want installed.	
	an icon in the list below to change how a feature is installed.	
	This feature requires 106ME your hard drive.	3 on
Install t C:\inet	ub/wwwroot/rayflow/ Change	2
	Help Space < Back Next > Cance	el

- 6. SQL Configuration options are shown:
- **Default**: When this option is selected, the installer creates RayFlow database and sets up a test project along with the default project into it.
- **Minimal**: RayFlow database is created and only default project.
- Not Configure: User can choose to manually configure RayFlow database.

Select the **Default** option and then click on the **Next** button.

岗 RayFlow Server - Install	x
Select SQL configuration Choose the type of the SQL-Database that best suits your needs.	
Please select a SQL configuration type.	
The most common SQL will be configured.	
O Minimal	
The minimal SQL will be configured.	
O Not configure	
SQL Server will not be configured. Recommended for advanced users.	
RayPack ®	
< Back Next >	Cancel

7. Select the SQL database on which RayFlow database will be hosted. If RayFlow server is on the same machine as SQL Server then simply leave default local.

In case the connection is made using SQL Server authentication, select the option and enter



#### Login ID and Password.

Specify the name of the database catalog and then click **Next**.

🚽 Ra	ayFlow Server - Install	x
Database Server Select database server and author	entication method	
Database server that you are insta (loca) Connect using:		Browse
<ul> <li>Windows authentication crede</li> <li>Server authentication using the</li> </ul>		
Login ID: sa Password:		
Name of database catalog:		
RayFlow		Browse
RayPack ®		
	< Back Next >	Cancel

8. The installer checks the connection to SQL database and if successful the IIS Web Application configuration page is shown. Use default or specify the IIS Configuration properties and then click on the **Next** button.

뤙	RayFlow Server - Install	
IIS Web Application configuration         Select the IIS configuration tasks that setup will perform.		
RayFlow Server requires configuration of Internet Information Services (IIS). The wizard does this for you automatically. Uncheck any or all of the following options if you wish to perform these configuration tasks later.		
App Pool:	RayFlowPool	
Web Site:	RayFlowWeb	
TCP Port:	80	
Web App:	RayFlow	
☑ Configure IIS for RayFow HTTP service		
RayPack ®		
	< Back Next > Cancel	

9. Local account can be used as the IIS Application Pool Identity. However, when the server is part of a domain, from security point of view a user can use a domain user as identity by selecting **Custom Account**.

Click on the **Next** button.



₿	RayFlow Server - Install	×
IIS Application F Select the Applica	<b>Yool Identity</b> Ition Pool Identity tasks that setup will perform.	
RayFlow Server re	equires configuration of Application Pool Identity.	
Built-in account (LocalSystem)		
○ Custom acco	unt (using the Login and password below)	
User name:	Administrator	
Password:	12345	
RayPack ®		
	< Back Next >	Cancel

10. RayFlow server registration page is shown. If at hand provide the order number of license file for your RayFlow Server. Otherwise select **Skip activation** to activate later and then click **Next**.

涉 RayFlow Server - Install Wizard 🗙		
License Type Choose the license type that best suits your needs.		
O <b>Order Number</b> Select for online activation.		
License File     Offline activation using license file.     Browse		
Skip activation     The activation wizard wil be run at the start of the RayFlow Server.		
RayPack (®		

11. Click on the **Install** button to startup the installation routine.



1	RayFlow Server - Install	
	Ready to Install the Program The wizard is ready to begin installation.	
	Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
F	RayPack ®	

12. Installation progress is shown.

閿	RayFlow Server - Install
	g RayFlow Server gram features you selected are being installed.
1 <del>1</del>	Please wait while the Install Wizard installs RayFlow Server. This may take several minutes.
	Status:
RayPack ®	< Back Next > Cancel

13. Click on the **Finish** button to finalize installation of RayFlow.



퀑	RayFlow Server - Install
	Install Wizard Completed
	The Install Wizard has successfully installed RayFlow Server. Click Finish to exit the wizard.
	< Back Finish Cancel

13. Launch RayFlow. The login page is loaded into the view. To continue to work on a project, a user will first need to activate RayFlow with a valid licence. For more information on license activation, please refer to Product Activation chapter of the *RayFlow Server User and Administration Guide*.



# Establish ODBC Connection

ODBC Connection is only required by the Crystal Reports and hence this section of the document is only valid for users who are using Crystal Reports as their reporting solution in RayFlow.

Run C: \Windows\SysWOW64\odbcad32.exe as Administrator in order to create a System DSN ODBC connection to the database.

ODBC Data Source Administrator (32-b	it) ×
User DSN System DSN File DSN Drivers Tracing Connection Pooling About	t
System Data Sources:	
Name Platform Driver	Add
	Remove
	Configure
An ODBC System data source stores information about how to connect to A System data source is visible to all users on this machine, including NT	
OK Cancel	Apply Help

Click on the **Add** button to add a new data source. This will open drivers list, for which you wish to create the data source. Scroll down the list and select **SQL Server** and then click **Finish**.

-	ODBC Data Source Administrator (32-bit)	x
User DSt	Create New Data Source	
System Name	Select a driver for which you want to set up a data source.	
	Name V^	
	Microsoft ODBC for Oracle 6	
	Microsoft Paradox Driver (*.db ) 6	
	Microsoft Paradox-Treiber (*.db ) 6	
	Microsoft Text Driver (*.txt; *.csv) 6	_
	Microsoft Text-Treiber (*.txt; *.csv) 6	
	SQL Server 6 ≡	
	SQL Server Native Client 11.0 2	
	de	er.
	< Back Finish Cancel	
	Carcer	
	OK Cancel Apply H	elp
		·



In the next dialog, as shown in the image below specify the name and description of your data source and then select the server and click **Next >** to proceed.

Note:

If the SQL Server is not listed in the dropdown list or if the dropdown list fails to load, manually enter the servers name. If the database resides on a named instance, enter server\_name\instance\_name. If a non-default SQL port is to be used, add :port\_number to the **Server** field value.

C	reate a New Data Source to SQL Server
	This wizard will help you create an ODBC data source that you can use to connect to SQL Server. What name do you want to use to refer to the data source? Name: RayFlow How do you want to describe the data source? Description: RayFlow database Which SQL Server do you want to connect to? Server: (ccal)
	Finish Next > Cancel Help

If a non-default SQL port is to be used, press the **Client Configuration...** button and then uncheck the **Dynamically determine port** check-box and enter the port number into its now active field as shown below. If the standard SQL port (1433) will be used, simply press the **Next** > button.



M	licrosoft SQL Server DSN Configuration
	How should SQL Server verify the authenticity of the login ID?
	Connect to SQL Server to obtain default settings for the additional configuration options.
	Password:

	Add Network Library Co	onfiguration X
Server alias:		
Network libraries Named Pipes TCP/IP	Connection parameters Server name:	
<ul> <li>Multiprotocol</li> <li>NWLink IPX/SPX</li> <li>AppleTalk</li> <li>Banyan VINES</li> <li>VIA</li> <li>Other</li> </ul>	Dynamically determine     Port number:	e port
		OK Cancel Help

Click **Next >** to proceed.



	master       ✓         Attach database filename:       ✓         ✓       Use ANSI quoted identifiers.         ✓       Use ANSI nulls, paddings and warnings.         ✓       Use the failover SQL Server if the primary SQL Server is not available.
--	--

Click **Finish** to finalize adding the data source.

Ci	reate a New Data Source to SQL Server
	<ul> <li>Change the language of SQL Server system messages to:         <ul> <li>English</li> <li>Use strong encryption for data</li> </ul> </li> <li>Perform translation for character data         <ul> <li>Use regional settings when outputting currency, numbers, dates and times.</li> <li>Save long running queries to the log file:</li></ul></li></ul>
	< Back Finish Cancel Help

A dialog with summary of configuration is shown. Click on **Test Data Source** to test the connectivity.



ODBC Microsoft SQL Server Setup	SQL Server ODBC Data Source Test
A new ODBC data source will be created with the following configuration:          Microsoft SQL Server ODBC Driver Version 06.03.9600 <ul> <li>Microsoft SQL Server ODBC Driver Version 06.03.9600</li> <li>Data Source Name: RayFlow</li> <li>Data Source Description: RayFlow database</li> <li>Server: (local)</li> <li>Database: (Default)</li> <li>Translate Character Data: Yes</li> <li>Log Long Running Queries: No</li> <li>Log Driver Statistics: No</li> <li>Use Regional Settings: No</li> <li>Prepared Statements Option: Drop temporary procedures on disconnect</li> <li>Use ANSI Quoted Identifiers: Yes</li> <li>Use ANSI Quoted Identifiers: Yes</li> <li>Data Encryption: No</li> </ul> <li>Test Data Source</li>	Test Results Microsoft SQL Server ODBC Driver Version 06.03.9600 Running connectivity tests Attempting connection Connection established Verfying option settings Disconnecting from server TESTS COMPLETED SUCCESSFULLY! V

Click **OK**, a new data source is now listed in the **ODBC Data Source Administrator**.

4	ODBC Data Source Administrator (32-	·bit) X
User DSN	System DSN File DSN Drivers Tracing Connection Pooling Ab	pout
System Da	ata Sources:	
Name RayFlow	Platform Driver 32-bit SQL Server	Add
Hayriow	JZDIL JQLJEVE	Remove
		Configure
	An ODBC System data source stores information about how to connect A System data source is visible to all users of this computer, including N	
	OK Cancel	Apply Help

# Web.config

The following areas within the \RayFlow\web.config file need to be modified.

### **Connection String**

A connection string is a string that specifies information about a data source and the means of connecting to it.

### Data Source

.\ or localhost or servername or IP Address can be used if SQL is on-box. Servername or IP Address can be used if SQL is off-box. For named SQL instances, add a backslash and then enter the instance name (Data Source=servername\instancename).

To add the SQL port number use a comma followed by the port number (Data Source=servername,portnumber).

### **Network Library**

If this parameter is left out, then Winsock TCP/IP (dbmssocn) will be used by default. If the SQL Native Client is configured to accept a different protocol, then include that parameter along with the relevant protocol name:

```
Named Pipes = dbnmpntw
Shared Memory = dbmslpcn
Winsock TCP/IP = dbmssocn
```

### **Initial Catalog**

Enter the database name as this parameters value. If the database name has spaces, enter the name as-is (test database) instead of encapsulating ("test database").

### Authentication

The Integrated Security=True parameter and value is used for Windows authentication.

For SQL authentication, use the following parameters with their required values: User ID=sql\_user\_name;Password=enter\_password

### **Connect Timeout**

If this parameter is not included, then a .Net ADO connection timeout of 15 seconds is used by default.



### Keep me signed in

It is possible to enable/disable the "Keep me signed in" checkbox on the RayFlow login page. When this checkbox is checked while login, a login cookie is issued in addition to the session management cookie.

This checkbox can be enabled/disabled via the web.config file.

```
<appSettings>
    <!-- AllowRememberMe = true: Show "Keep me signed in" checkbox
on the login page -->
        <add key="AllowRememberSetting" value="true" />
        </appSettings>
```

### **SSL Cookies**

If your security standards require SSL Secured Cookies, you can enable the enforcement of SSL by setting the following flag: requireSSL="true"

```
<authentication mode="Forms">
    <form loginUrl="~/AccountLogin" timeout="2880"
cookieless="UseCookies" requireSSL="true" />
  </authentication>
```

Please note this flag is not set by default and requires the use of an SSL Certificate.

# **RayFlow Server Upgrade**

This chapter of the document is meant to help users upgrade from their existing RayFlow version to RayFlow 6.5.

## Migration from 1.x RayFlow Servers

If migrating from a 1.x RayFlow server to RayFlow 6.5, it is recommended to ask for the help of our consultants.

## Migration from 2.x RayFlow Servers or Higher to 6.5

### 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.

Control Panel Home	A CONTRACT OF A CONTRACT.					
	Uninstall or change a program					
/iew installed updates	To uninstall a program, select it from the list and the	en click Uninstall, Change, or Rep	air.			
urn Windows features on or						
ff	Organize 🕶 Uninstall Change Repair					855 -
nstall a program from the	Name	Publisher	Installed On	Size	Version	
etwork	Microsoft SQL Server 2012 Native Client	Microsoft Corporation	01.03.2013		11.1.3000.0	
	Microsoft SQL Server 2012 Policies	Microsoft Corporation	01.03.2013		11.0.2100.60	
	Microsoft SQL Server 2012 Setup (English)	Microsoft Corporation	01.03.2013	48,8 MB	11.1.3000.0	
	Microsoft SQL Server 2012 Transact-SQL Compiler Se		01.03.2013		11.1.3000.0	
	Microsoft SQL Server 2012 Transact-SQL ScriptDom	Microsoft Corporation	01.03.2013		11.1.3000.0	
	Microsoft SQL Server System CLR Types	Microsoft Corporation	01.03.2013		10.51.2500.0	
	Microsoft System CLR Types for SQL Server 2012 (x64		01.03.2013	1.77 MB	11.1.3000.0	
	Microsoft Visual C++ 2008 Redistributable - x64 9.0.3		02.11.2012	13,1 MB	9.0.30729.4148	
	Microsoft Visual C++ 2008 Redistributable - x64 9.0.31	Microsoft Corporation	20.11.2014	13,2 MB	9.0.30729.6161	
	Microsoft Visual C + + 2008 Redistributable - x86 9.0.31	Microsoft Corporation	02.11.2012	10,1 MB	9.0.30729.4148	
	📧 Microsoft Visual C + + 2008 Redistributable - x86 9.0.31	Microsoft Corporation	01.03.2013	10,1 MB	9.0.30729.4974	
	Microsoft Visual C++ 2008 Redistributable - x86 9.0.31	Microsoft Corporation	20.11.2014	10,1 MB	9.0.30729.6161	
	📧 Microsoft Visual C++ 2010 x64 Redistributable - 10.0.	Microsoft Corporation	01.03.2013	13,8 MB	10.0.40219	
	💷 Microsoft Visual C++ 2010 x86 Redistributable - 10.0.	Microsoft Corporation	01.03.2013	11,1 MB	10.0.40219	
	Microsoft Visual C++ 2010 x86 Runtime - 10.0.40219	Microsoft Corporation	01.03.2013	15,9 MB	10.0.40219	
	🕮 Microsoft Visual Studio 2010 Shell (Isolated) - ENU	Microsoft Corporation	01.03.2013	579 MB	10.0.40219	
	Microsoft Visual Studio Tools for Applications x64 Ru	Microsoft Corporation	01.03.2013	1,15 MB	10.0.40220	
	Microsoft VSS Writer for SQL Server 2012	Microsoft Corporation	01.03.2013	2,92 MB	11.1.3000.0	
	📵 Mozilla Firefox 42.0 (x64 de)	Mozilla	19.11.2015	95,9 MB	42.0	
	📸 Mozilla Maintenance Service	Mozilla	19.11.2015	270 KB	42.0	
	RayFlow Server	Raynet	25.10.2016	168 MB	4.0.4821.315	
	SQL Server Browser for SQL Server 2012	Microsoft Corporation	01.03.2013	9,86 MB	11.1.3000.0	
	💷 Visual Studio 2010 Prerequisites - English	Microsoft Corporation	01.03.2013	23,5 MB	10.0.40219	
	VMware Tools	VMware, Inc.	03.12.2015	54,7 MB	9.4.15.2827462	

Be aware:

Ð

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 <code>%INSTALLDIR%</code> or in its subfolders.

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



🗧 💿 🔻 🛉 🚺 🕨 Ca	mputer 🕨 Local Disk (C:) 🕨 inetpub	▶ www.root ▶ rayflow ▶	V C Search	n rayflow	,
Documents	Name	Date modified	Туре	Size	
🖻 🎝 Music	📙 App_Data	20.01.2017 12:05	File folder		
D E Pictures	bin	23.01.2017 10:41	File folder		
▷ 🛃 Videos	🚺 Files	20.01.2017 12:05	File folder		
4 🕵 Computer	\mu Logs	20.01.2017 11:50	File folder		
📭 Computer	\mu RFDBUpdater	23.01.2017 10:41	File folder		
⊿ 📥 Local Disk (C:)	퉬 UserContent	20.01.2017 12:02	File folder		
▷ b 20141120_1294	🔊 Global	02.06.2016 10:32	ASP.NET Server A	1 KB	
Þ 🎍 FILES	🥘 packages	02.06.2016 10:32	CONFIG File	4 KB	
⊿ 🍌 inetpub ▷ 🚹 custerr 🛛 🔳	🥅 Web	25.10.2016 14:13	CONFIG File	17 KB	
▷ 🎍 custerr 🛛 🔳					
▶ 🌇 history					
▷ 🔒 logs					
▷ 🕌 temp					
✓ Lettip ✓ Lettip ✓ Lettip					
> aspnet_clie					
▷ line asphec_che					
> webctrl_clie					
▷ 🚹 rayflowBac					
PerfLogs					
Program Files					

### 3. Installation of RayFlow Server 6.5

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 chapter *RayFlow Server Deployment* in this guide.

#### 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:

A

```
<!-- 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 hof to launch an update from any folder:

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



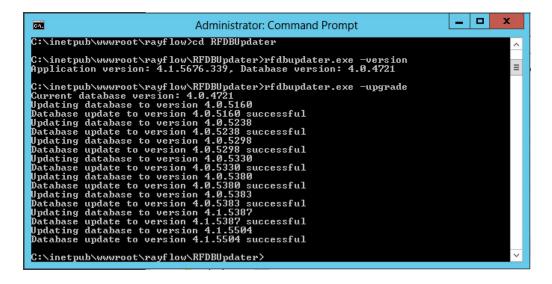
### List of Arguments:

-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.



### Note:

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

### 6. Manual Configuration

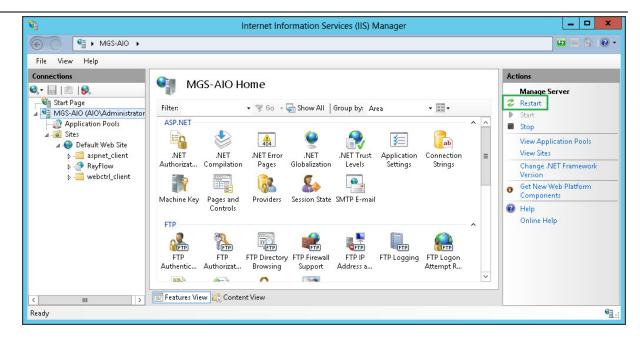
(The necessity of these steps depends on the environment.)

Internet Information Services (IIS) Restart

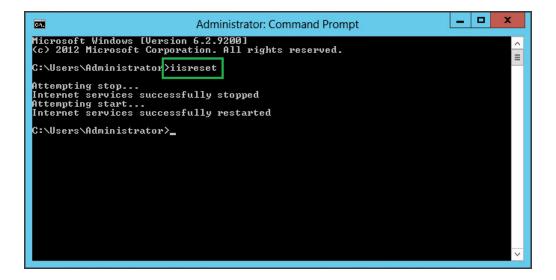
Restart the Internet Information Services either using the Internet Information Services Manager or via Command Prompt using the iisreset command line.

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 <u>Support templates</u>. Information on how to reactivate a Raynet Product License can also be found in our <u>KnowledgeBase</u>.



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