August 2018

# Rotor-Gene AssayManager® v1.0 IVD (US) Quick-Start Guide

For installation and setup of Rotor-Gene AssayManager v1.0





QIAGEN GmbH QIAGEN Strasse 1 40724 Hilden GERMANY

R2

MAT

9022737, 9022739



Sample to Insight

## Contents

Installing Rotor-Gene AssayManager v1.0
Minimum computer requirements5
General download and installation instructions10
Outdated certificates on Windows 7
Installation prerequisites on Windows 1012
Installation instructions for core application v1.017
Installation instructions for a plug-in19
Getting started
Additional software on connected computers
Anti-virus software
Firewall and networks27
System tools
Operating system updates56
FAQ

## Installing Rotor-Gene AssayManager v1.0

This Quick-Start Guide summarizes instructions for the installation and setup of Rotor-Gene AssayManager v1.0. Before using Rotor-Gene AssayManager v1.0, it is essential that you read "Getting Started" in the *Rotor-Gene AssayManager Core Application User Manual* HB-1350 (available as a .pdf file on the QIAGEN website) carefully and pay particular attention to the safety information.

Rotor-Gene AssayManager v1.0 uses a database (Microsoft® SQL Server® Express) to store all data. The database can be installed locally or on a remote system. The Microsoft SQL Server database provides backup and restore mechanisms. For detailed information about backup and restore instructions, refer to the "Maintenance" section in the *Rotor-Gene AssayManager Core Application User Manual.* 

**Note**: Most screenshots in this document are created based on Windows 7 operating system. If the behavior between Windows 7 and Windows 10 is different, a separate description and screenshot are provided for Windows 10.Rotor-Gene AssayManager v1.0 can be installed with 3 different configurations:

Task/configuration	Description
Install on stand-alone computer*	<ul> <li>A user with local system administration privileges installs the database (Microsoft SQL Server Express) including initial data, the Rotor-Gene AssayManager v1.0 application, and at least one Rotor-Gene AssayManager v1.0 plug-in on a computer.</li> <li>The user is completely guided by the installation wizard and will be prompted for input, if necessary.</li> </ul>
Set up a stand-alone computer,* which is connected to a network, and install Rotor-Gene AssayManager v1.0 on an additional computer* connected to the first	<ul> <li>Proceed as described in "Install on stand-alone computer*".</li> <li>The computer* is connected to the local area network.</li> <li>Rotor-Gene AssayManager v1.0 and at least one Rotor-Gene AssayManager v1.0 plug-in is installed on one or multiple computers by a user with local administration privileges. During installation the user is prompted for connection to the database, which has to be provided by the database administrator.</li> </ul>

\* The term "computer" is used to describe a notebook or a PC, and not a server.

Continued on next page

## Continued from previous page

Task/configuration	Description
Use existing database server and install Rotor-Gene AssayManager v1.0 on one or multiple computers*	• A user with all required database administration privileges uses the installation wizard to install only a new database instance including initial data on an existing database server.
	<ul> <li>The database administrator is responsible for checking whether the database server fulfills the Rotor-Gene AssayManager v1.0 requirements. The administrator is also responsible for performing all database administration tasks necessary to back up the system before installation. Furthermore, the database administrator must guarantee the functionality of the system after the successful installation or a failed installation.</li> </ul>
	• Rotor-Gene AssayManager v1.0 and at least one Rotor-Gene AssayManager v1.0 plug-in are installed on one or multiple computers by a user with local administration privileges. During installation the user is prompted for connection to the database, which has to be provided by the database administrator.

\* The term "computer" is used to describe a notebook or a PC, and not a server.

#### Minimum computer requirements

A laptop computer with the required specifications for operating the Rotor-Gene® Q MDx instrument and Rotor-Gene AssayManager v1.0 is provided by QIAGEN as part of the Rotor-Gene Q instrument. In general, the following minimum requirements must be met to run Rotor-Gene AssayManager v1.0:

Minimum computer requirements

System	Requirements
Display	1024 x 768 pixel resolution or higher
Supported operating systems	Windows® 7 Professional (32 or 64 bit) with Service Pack 1 Windows® 10 with version 1709 or newer (32 or 64 bit)
Disk space	250 GB
Processor	Intel® Core™ i3-380M Processor or higher
Memory	4 GB RAM recommended
USB interface	4 USB 2.0 ports or higher. If necessary, a USB Hub can be ordered through QIAGEN
	Contact www.qiagen.com for details
DVD-ROM drive	1
Pointing device	Touchpad or mouse or equivalent is required
Service packs required	Microsoft Windows® 7: Service Pack 1
	Microsoft Windows® 10 Version 1709 or newer
Bluetooth®	Switched off
PDF viewer or similar	Already installed
Power options	Never turn off hard disks, hibernate or go to standby

**Note**: Rotor-Gene AssayManager v1.0 consists of different components working together. The core application v1.0 is complemented by different plug-ins that provide assay type specific analysis and visualization of results. The core application v1.0 is mandatory for working with Rotor-Gene AssayManager v1.0. At least one plug-in must be installed. Optionally, additional plug-ins can be installed. Plug-ins may not be available worldwide. See **www.qiagen.com** for details.

**Note**: A stable power connection is required. Unstable power connections can cause loss of data.

#### Configuration for Windows security

The laptop computers that are provided by QIAGEN for use with your Rotor-Gene Q instrument have Microsoft Windows 7 or 10 pre-installed and are configured with a standard (non-administrative) Windows user account and with an administrator account. In routine usage of the system, the standard account shall be used, since Rotor-Gene AssayManager v1.0 is designed to run without administrator rights. The administrator account shall only be used to install the Rotor-Gene AssayManager v1.0 software and a virus scanner (please see chapter for anti-virus software). Using the administrator account is indicated by a red desktop background. Please make sure, that you always log in as standard user for routine use.

The default password of the administrator account is as follows: "Q1a#g3n!A6". Please change the administrator password after first login. Please make sure that the password is secure and does not get lost. There is no password for the standard account.

If your configuration is different and no non-administrative account is contained, system administrators shall set up an additional standard Windows user account to prevent access to critical system areas, such as "Program Files", "Windows" directory (e.g. access to installation or uninstallation functionality, including applications, operating system components, date/time settings, Windows updates, firewall, user rights & roles, anti-virus activation), or performance relevant settings like power saving. Multiple users can then be configured within the Rotor-Gene AssayManager v1.0 user management.

Creation of standard user account for Windows 7

To create a standard user account, please follow these steps:

- 1. From the Start menu, open the Control Panel and select the User Accounts/Manage Accounts.
- 2. Choose Create a new account.

BE + User Accounts + Manage Accounts	Search Control Panel
Choose the account you would like to chang	e
Admin Administrator	Guest Guest account is off
Create a new account What is a user account?	
Create a new account What is a user account? Additional things you can do	
Create a new account What is a user account? Additional things you can do Set up Parental Controls	

3. Name the account and select Standard User as the account type.



4. Click Create Account.

Creation of standard user account for Windows 10

1. Right-click the Windows button and select Computer Management.



2. Expand the Local Users and Groups and click the Users folder.



3. While the Users folder is highlighted, click the Action tab and select New User.



4. Name the account, optionally set a password and click Create.

New User		?	×
User name:	Operator		
Full name:			
Description:			
Password:	•••••		
Confirm passwor	d: ••••••		
User must ch	ange password at next logon		
User cannot	change password		
Password ne	ver expires		
Account is d	sabled		
Help	Create	Clo	se

## General download and installation instructions

If you download software from the QIAGEN website on a different computer than that one on which the software shall be installed, please make sure that the flash drive used to transfer the software is free of viruses. QIAGEN strongly recommends to perform a virus scan using an up-to-date virus scanner on the flash drive to avoid a contamination.

**Note**: Checksum confirmation is required to secure software integrity after web download is successfully completed and before subsequent handling of the software. Therefore, software checksum verification is requested before installation of the downloaded plug-in is started. For detailed information on confirmation of software integrity during download and file transfer, please check the "QIAGEN software integrity verification process" description document, which is provided together with the software package on the QIAGEN webpage.

## Outdated certificates on Windows 7

All installation packages, contained in the Rotor-Gene AssayManager v1.0 installer are signed with validated certificates, trusted by Microsoft. This validity is checked by the operating system for every new program which shall be installed on the system. To be able to verify the validity of installer packages, the operating system maintains a list of trusted root certification authorities which is updated automatically by the **automatic root update mechanism** introduced by Microsoft during the lifetime of Windows 7.

If your operating system or the list of trusted root certification authorities is in an outdated state, Microsoft cannot verify the validity of the pre-requisite packages, installed by the Rotor-Gene AssayManager v1.0 installer. This will result in the following error message during installation:

"Setup has detected that the publisher of file '...' cannot be verified. Installation cannot proceed since the certificates of the operating system are outdated."

Note: The error message will only appear if you click **Details <<**. See screenshot below.

🔞 RotorG	ieneAssayManager Setup	×
	An error occurred while installing system components for RotorGeneAssayManager. Set cannot continue until all system components have been successfully installed.	đ
Deta Setup has \SQLSys( certificate Quick Sta	ails << Close s detected that the publisher of file 'C:\Users\admin\AppData\Local\Temp\VSDEF6C.tmp ClrTypes\SQLSysClrTypes_x86.msi' cannot be verified. Installation cannot proceed since t es of the operating system are outdated. Have a look into the Rotor-Gene AssayManager art Guidance to find more information about updating the certificates.	) he
See the s more infor	setup log file located at 'C:\Users\admin\AppData\Local\Temp\VSDEF6C.tmp\install.log't mation.	for

Visit the QIAGEN website for updates and instructions to solve this problem.

Installation prerequisites on Windows 10

The Microsoft SQL Server installed together with Rotor-Gene AssayManager v1.0 needs a preinstalled Microsoft .NET Framework in version 3.5. If you use a laptop, distributed by QIAGEN, this installation is already done. If your configuration is different, you must install the .NET Framework 3.5 manually on Windows 10 operating systems using these two options.

Installation with the feature manager (active Internet connection required)

1. Click Start and type Windows Features.

#### 2. Click Turn Windows features on or off.



3. Select the .NET Framework 3.5 (includes .NET 2.0 and 3.0) check box and click OK.



4. On the next window, select **Download files from Windows Update**. **Note**: You must be connected to the Internet.

		×
~	🧱 Windows Features	
	Windows needs files from Windows Update to finish installing some features.	
	ightarrow Download files from Windows Update	
	→ Don't connect to Windows Update No changes will be made to your PC.	
	Cance	!

5. When the installation process is completed successfully, a confirmation message will appear. You can continue installing Rotor-Gene AssayManager v1.0.



Installation with Windows 10 installation media (offline installation using Windows 10 DVD)

- 1. Insert the Windows 10 installation media (e.g., DVD).
- 2. Open a command prompt with administration privileges.
  - a. Click Start and type Command Prompt.
  - b. From the search result, right-click the Command Prompt and select Run as administrator.



c. On the User Account Control window, click Yes. Enter a password if required.



 Type the following command in the Command Prompt (without quotation marks): "DISM /Online /Enable-Feature /FeatureName:NetFx3 /All /LimitAccess /Source:d:\sources\sxs"

If your installation media is not drive d (for, e.g., a Windows 10 DVD), please change "d:\sources\sxs" to the path matching to your system.



4. When the installation process is completed successfully, a confirmation message will appear. You can continue installing Rotor-Gene AssayManager v1.0.



Installation instructions for core application v1.0

**Note:** The Rotor-Gene AssayManager v1.0 and v2.1 are independent products and cannot be used in parallel on one system. In addition, Rotor-Gene AssayManager v2.1 does not replace the Rotor-Gene AssayManager v1.0.

- 1. Check if the instructions described in these sections need to be performed first:
  - Installation prerequisites on Windows 10
  - Outdated certificates on Windows 7
- Place the Rotor-Gene AssayManager v1.0 core application installation DVD into the DVD drive of the computer.
- 3. Double-click My Computer and select the DVD drive.
- 4. Double-click setup.exe.

The setup wizard automatically opens the Rotor-Gene AssayManager Setup window.

🖟 Rotor-Gene Assay	Manager Setup	x
QIAGEN	Welcome to Rotor-Gene AssayManager Setup	
Select the packag Installation pack © Rotor-Gene © Rotor-Gene	es to be included in the installation: ages AssayManager application, prerequisites and SQL Server Express AssayManager application and prerequisites	
Messages		
	OK	incel

**Note**: Rotor-Gene AssayManager v1.0 requires an MS SQL Server 2014 Express instance with mixed mode authentication and TCP/IP network protocol activated for installation. The installation process depends on whether MS SQL Server 2014 Express is already installed or should be installed on the local system, or whether Rotor-Gene AssayManager v1.0 will be installed with a remote connection to an existing SQL Server on an external system. Details about the different installation configurations can be found in "Getting Started" in the *Rotor-Gene AssayManager IVD (US) Core Application User Manual*.

5. Select the required installation packages and click **OK**. Follow the instructions to set up the software.

Rotor-Gene AssayManager v1.0 uses several software packages provided by third parties. If the packages are not available on the computer, these software packages are automatically installed at the beginning of the Rotor-Gene AssayManager v1.0 setup. Follow the instructions if necessary.

**Note**: Depending on the software packages installed, a reboot of the system may be required before proceeding with the setup. After the reboot, the installation procedure is resumed automatically.



6. Follow the setup wizard steps. Details can be found in the "Getting Started" section of the *Rotor-Gene AssayManager IVD (US) Core Application User Manual.* 

After the core application v1.0 is installed successfully, continue with the plug-in installation.

**Note**: Future updates will be provided on the QIAGEN webpage and/or distributed by QIAGEN on CD/DVD to the customer.

### Installation instructions for a plug-in

At least one plug-in must be installed for the use of Rotor-Gene AssayManager v1.0. Plug-ins can only be obtained on DVD.

**Note**: Plug-ins for Rotor-Gene AssayManager v1.0 are not compatible with Rotor-Gene AssayManager v2.1.

**Note**: The installation of the UDT Basic Plug-in is taken as an example for the installation of any plug-in.

Note: The UDT mode is not intended for use with FDA cleared or approved nucleic acid tests.

- 1. Place the plug-in installation DVD (provided with the software) into the DVD drive of the computer or download the plug-in from the QIAGEN website, if available.
- 2. Double-click **My Computer** and select the DVD drive, if using a DVD.
- 3. To start the UDT Basic Plug-in setup wizard, double-click **UDTBasic.Installation.V1\_0\_6.msi** (the filename my change slightly depending on the used version).
- 4. Click Next to proceed. Follow the instructions to set up the software.



5. Select the features to be installed.

Select the way you want features to be in	stalled.
Click the icons in the tree below to change	the way features will be installed.
	This feature requires 1287KB on your hard drive.
	Browse.

## Explanation of features:

UDT basic plug-in	This feature updates the Rotor-Gene AssayManager v1.0 application with the UDT Basic Plug-in.
	<b>Note</b> : The UDT mode is not intended for use with FDA cleared or approved nucleic acid tests.
	This feature is needed always if Rotor-Gene AssayManager v1.0 and its database are installed on one system. The feature can be deselected only if a database server without the Rotor- Gene AssayManager application is to be updated.
Update database schema	After the Rotor-Gene AssayManager v1.0 installation, the database schema contains unspecified Rotor-Gene AssayManager v1.0 tables only. This feature adds the UDT-specific tables.
	This feature is needed if Rotor-Gene AssayManager v1.0 and its database are installed on one system. The feature can be deselected only if the database is installed on a separate server and was updated by a prior UDT Basic Plug-in installation.

Disk Usage	Click this button to show an overview of the available and required disc space.
Back	Click this button to return to the previous screen.

- 6. To proceed with the installation of the selected features, click **Next**.
- 7. Follow the setup wizard steps. Details can be found in the "Getting Started" section of the *Rotor-Gene AssayManager Core Application IVD (US) User Manual.*

## Getting started

For a detailed description of Rotor-Gene AssayManager v1.0, refer to "Basic Concepts and General Software Usage" in the *Rotor-Gene AssayManager Core Application IVD (US) User Manual* (available by clicking **User Manual** during the Rotor-Gene AssayManager v1.0 installation process).

 To launch the Rotor-Gene AssayManager v1.0, click the Start menu and select QIAGEN/Rotor-Gene AssayManager. You can also double-click the Rotor-Gene AssayManager icon on your desktop.



.

2. Enter **admin** in both **User ID** and **Password** fields. Select the mode from the **Mode** drop-down list and click **OK**.

٦

QIAGEN	Kotor-Gene AssayManage
User ID	
-	
Password	
Password	

Explanation of modes:

- Closed mode The Closed mode is reserved only for validated assay profiles that have been preconfigured by QIAGEN. These assay profiles are signed by checksum and can only be modified by QIAGEN as part of the development and validation procedure of assays.
- Test mode The User Defined Test mode uses assay profiles created by laboratory users who predefine assay parameters using standard Rotor-Gene Q software. The UDT mode allows run and analysis of homebrew or third-party assays as well as self-developed assays.

**Note**: The UDT mode is not intended for use with FDA cleared or approved nucleic acid tests.

**Note**: For usage of the User Defined Test mode (UDT mode) functionalities, a compatible UDT mode plug-in is required to be installed. A log-in in UDT mode without installation of the corresponding plug-in will give you no access to administrative tasks and you can neither perform experiments nor any analysis.

- 3. Enter a new, secure password.
- 4. To create user accounts, click the Configuration menu and select the User Management tab.

T

🖉 Ro	tor-Gene As	ayManager										- 0	X
File	Help					*	_						
a	AGEN	Setup	Approval	Archive	XT Service	Configuration			MDX Cycler 1	Cycler 2	MDX Cycler 3	Cycler 4	
Setti	ngs User	Management	Cycler Ma	anagement	Archive	Management	Assay Profiles	Report Profiles	_	_	_	_	
Reg	jistered users	٠î											
L	Jser ID			▲ First na	me		Last	name	Roles	•			-
		•											- 11
													- 11
													- 11
													- 11
													- 11
ŀ													- 11
Ē													- 11
													- 11
													- 11
													- 11
													- 11
													- 11
													- 11
													- 11
													Ť
	Show only	activated user	profiles							Refr	esh list	New user	
	8	Closed M	ode							March	25, 2015	Gina Doe	→Ø

For more details, see the section "Managing Users" of the *Rotor-Gene AssayManager Core* Application IVD (US) User Manual.

**Note**: It is strongly recommended to create at least one additional user account, without an Administrator role, at first login. If a single user of Rotor-Gene AssayManager v1.0 aggregates different user roles including the "Administrator" role, there is a high risk that the access to the software will be completely blocked if this user forgets the password.

5. Click the Settings tab, and configure the settings for Rotor-Gene AssayManager v1.0.



For more details, see "Settings" in the *Rotor-Gene AssayManager Core Application IVD (US)* User Manual.

## Additional software on connected computers

Rotor-Gene AssayManager v1.0 software manages time-critical processes during the PCR run and the data acquisition process. For this reason, it is important to ensure that no other processes use significant system resources and thus slow down the Rotor-Gene AssayManager v1.0 software. It is particularly important to pay attention to the points listed below.

System administrators are advised to consider any impact that a modification to the system may have on the resources before implementing it.

#### Anti-virus software

QIAGEN is aware of the threat that computer viruses cause to any computer that exchanges data with other computers. Rotor-Gene AssayManager v1.0 software is expected to be primarily installed in environments where local policies are in place to minimize this threat. However, QIAGEN recommends the use of a virus scanner in any case. The selection and installation of an appropriate virus scanning tool is in the customer's responsibility. However, QIAGEN has validated the Rotor-Gene AssayManager with the laptop computers provided by QIAGEN in combination with the following two virus scanners to show compatibility:

- Symantec Endpoint Protection V12.1.6
- Microsoft Security Essentials V4.10.209\*

Please refer to the product page on QIAGEN.com for the latest versions of anti-virus software that have been validated in combination with Rotor-Gene AssayManager v1.0.

If a virus scanner is selected, make sure that it can be configured in a way that the database folder path can be excluded from the scan. Otherwise, there is the risk of database connection errors. Since Rotor-Gene AssayManager v1.0 creates new database archives dynamically, it is required to exclude the folder path to the files and not as single files. We do not recommend the use of virus scanners where only single files can be excluded, (e.g. McAfee Antivirus Plus V16.0.5). If the computer is used in an environment without network access, please also make sure that the virus scanner supports offline updates.

To get consistent results after installation of a virus scanner, a system administrator should ensure the following:

- As explained above, the database folder path of the Rotor-Gene AssayManager v1.0 needs to be excluded from file scans. The folder path is as follows depending on the MS SQL server version which initially created the database: C:\Program Files\Microsoft SQL Server\MSSQL10\_50.RGAMINSTANCE\MSSQL\DATA or C:\Program Files\Microsoft SQL Server\MSSQL12.RGAMINSTANCE\MSSQL\DATA
- Updates to the virus database are not performed when the Rotor-Gene AssayManager v1.0 is in use.

<sup>\*</sup> After installation of **Microsoft Security Essentials**, you shall check that Windows updates are deactivated since the installation might activate this setting (please read chapter "Operating system updates").

• Please make sure that full or partial scans of the hard drive are disabled during real-time PCR data acquisition. Otherwise there is a risk of adverse impact on the performance of the instrument.

Please read the manual of your selected virus scanner for configuration details.

## Firewall and networks

The Rotor-Gene AssayManager v1.0 can run either on computers without network access (if the database is located on the same computer that controls the Rotor-Gene Q instrument), or can run in a network environment (if a remote database server is used). For networked operation, the firewall on the laptop computer provided by QIAGEN is configured in a way that inbound traffic is blocked for all ports, except those ones required to establish a network connection.

Please note that blocking incoming connections does not affect responses to requests triggered by the user such as updating anti-virus definition files, or connecting the Rotor-Gene AssayManager v1.0 to the centralized database server. Outgoing connections are allowed as this may be required for retrieving updates or when the Rotor-Gene AssayManager v1.0 is configured to work with a centralized database server.

If your configuration is different, QIAGEN recommends to configurate the firewall in the same way as described above. To this end, a system administrator has to login and has to perform the following steps:



#### 1. Open the Control Panel and select Windows Firewall on Windows 7.

For Windows 10, click **Start** and type **Windows Defender Firewall**. From the search result, click **Windows Defender Firewall**.



#### 2. Select Use recommended settings.



#### 3. Check that the following settings are active:



If you use a setup of a stand-alone computer, which is connected to a network and you want to install Rotor-Gene AssayManager v1.0 on another computer to connect to the first (cf. configuration), a system administrator must create an exception in the firewall configuration. This exception can be created by performing the following steps:



1. Select SQL Server Configuration Manager from the Start menu (on Windows 7).

On Windows 10, click **Start** and type **SQL Server 2014 Configuration Manager**. From the search result, click **SQL Server 2014 Configuration Manager**.



2. Expand the SQL Server Network Configuration menu and select Protocols for RGAMINSTANCE.

## 3. Point to TCP/IP protocol name, right-click and select Properties.

🚡 Sql Server Configuration Manager			
File Action View Help			
🗢 🄿   🖄   🖫 🔒   🛛			
<ul> <li>SQL Server Configuration Manager (Local)</li> <li>SQL Server Services</li> <li>SQL Server Network Configuration (32bit)</li> <li>SQL Native Client 10.0 Configuration (32bit)</li> <li>SQL Server Network Configuration</li> <li>Protocols for RGAMINSTANCE</li> <li>SQL Native Client 10.0 Configuration</li> </ul>	Protocol Name Shared Memory Named Pipes VIA Propu Help	Status Enabled Enabled erties	
Opens the properties dialog box for the current selection	on.		

 On the IP Addresses tab, remove the predefined value in the TCP Dynamic Ports field. Enter 1433 (i.e., the SQL standard port) in the TCP Port field and click OK.

Note: If the	port is ir	n use, you	ı can use	any other	unused port.
--------------	------------	------------	-----------	-----------	--------------

	IP4		•			
	Active	Yes	_			
	Enabled	No				
	IP Address	127.0.0.1				
	TCP Dynamic Ports	0	_			
	TCP Port		_			
Ð	IP5					
	Active	Yes				
	Enabled	No				
	IP Address	fe80::5efe:10.100.56.85%28				
	TCP Dynamic Ports	0				
	TCP Port		≡			
Ð	IPAII					
	TCP Dynamic Ports					
	TCP Port	1433				
			Ŧ			
TC	CP Dynamic Ports					
BI	ank, if dynamic ports are no	ot enabled. To use dynamic ports, s	et to			
0.						

5. Open the **Control Panel** and select **Windows Firewall** (or search for **Windows Defender Firewall** on Windows 10).



#### 6. Select Advanced settings.



## 7. Open the **Inbound rules** menu.

File       Action       View       Hep         Ibband Rules       Islowed Rules       I	Windows Firewall with Advanced	d Security			
Image: Source Strewall with Advance       Intermed Nucles         Image: Source Strewall with Advance       Name       Group       Perfile         Image: Source Strewall with Advance       Name       Group       Perfile       Name         Image: Source Strewall with Advance       Name       Group       Perfile       Name         Image: Source Strewall with Advance       Source Strewall with Advance       Perfile       Name         Image: Source Strewall with Advance Projector (YDS Dr.       Connect to a Network Projector (YDS Dr.       Cone Networking - Dramatic Advance Networking All	File Action View Help				
Windows Firewall with Advance       Inbound Rules         Name       Group       Profile         Outsound Rules       Name       Group       Profile         Outsound Rules       BranchCache Content Retrieval (HTTP-In)       BranchCache Content Retrieval (HTTP-In)       BranchCache Per Discove.       All         BranchCache Per Discovery (MSD-In)       BranchCache Per Discover, All       BranchCache Per Discove.       All       BranchCache Per Discove.       All         Connect to a Network Projector (TCP-In)       Connect to a Network Projector (WSD Ev.       Proveta.         Core Networking - Dynamic Host Config       Core Networking - Multitast Listener PR.       Core Networking Alll	♦ ♦ 2 🖬 🗟 🛛 🖬				
Mane       Group       Profie       Inbound Rule:          © Urbound Rule:       BranchCache Content Retrival (HTTP-h)       BranchCache - Content Retrival (HTTP-h)       RenchCache - Poer Discover.       All         BranchCache Peer Discovery (WSD-in)       BranchCache - Poer Discover.       All       View Rule       View Rule         Connect to a Network Projector (TCP-h)       Connect to a Network Proje       Domain to Retrie View Rome Projector (WSD Ev       Connect to a Network Projector (WSD Ev       Domain to Retrie View Rome Projector (WSD Ev       Domain to Retrie View Rome Projector (WSD Ev       Connect to a Network Projector (WSD Ev	Windows Firewall with Advance	Inbound Rules			Actions
<ul> <li>BranchCache Content Retrieval (HTTP-In)</li> <li>BranchCache - Content Retr.</li> <li>All</li> <li>BranchCache Per Discovey, All</li> <li>Connect to a Network Projector (TCP-In)</li> <li>Core Networking - Destination Unreacha.</li> <li>Core Networking - Networking All</li> <li>Core Networking - Postination Unreacha.</li> <li>Core Networking - Networking All</li> <li>Core Networking - Multicast Listener Rep Core Networking All</li> <li>Core Networking - Networking - Multicast Listener Rep Core Networking All</li> <li>Core Networking - Networking - Multicast Listener Rep Core Networking All</li> <li>Core Networking - Networking - Multicast Listener Rep Core Networking All</li> <li>Core Networking - Networking - Multicast Listener Rep Core Networking All</li> <li>Core Networking - Networking - Multicast Listener Rep Core Networking All</li> <li>Core Networking - Networking - Core Networking All</li> <l< td=""><td>🗱 Inbound Rules</td><td>Name</td><td>Group</td><td>Profile ^</td><td>Inbound Rules</td></l<></ul>	🗱 Inbound Rules	Name	Group	Profile ^	Inbound Rules
<ul> <li>Connection Security Rules</li> <li>BranchCache Hosted Cache Server (HTT.</li> <li>BranchCache Hosted Cache Server (HTT.</li> <li>BranchCache Peer Discovery (WSD-In)</li> <li>BranchCache Peer Discovery (WSD-In)</li> <li>Connect to a Network Projector (TCP-In)</li> <li>Connect to a Network Projector (TCP-In)</li> <li>Connect to a Network Projector (WSD Ev.</li> <li>Corne Networking - Dustination Unreacha.</li> <li>Core Networking - Intern Group Mana.</li> <li>Core Networking - Intern Group Mana.</li> <li>Core Networking - Multicast Listenr Pu.</li> <li>Core Networking - Multicast Listenr Pu.</li> <li>Core Networking - Nutlicast Listenr Pu.</li> <li>Core Netw</li></ul>	Outbound Rates	RanchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr		New Rule
▶ market Australe Bere Discovery (WSD-In)       Branch Cache Peer Discover, MSD-In)       Branch Cache Peer Discover, MSD-In)       Branch Cache Peer Discover, MII         ■ Granch Cache Peer Discovery (WSD-In)       Connect to a Network Projector (TCP-In)       Connect to a Network Projector (WSD Ev.       Connect to a Network Projector (WSD Ev.       Domain         ■ Connect to a Network Projector (WSD Ev.       Connect to a Network Projector (WSD Ev.       Connect to a Network Projector (WSD Ev.       Domain         ■ Connect to a Network Projector (WSD Ev.       Connect to a Network Projector (WSD Ev.       Connect to a Network Projector (WSD Ev.       Connect to a Network Projector (WSD-In)       Connect to a Network Projector (WSD-In)       Core Networking       All         ■ Connect to a Network Projector (WSD-In)       Core Networking       All       All       Branch Cache Peer Discover, All       Branch Cache Peer Discover, All         ■ Connect to a Network Projector (WSD-IN)       Connect to a Network Projector (WSD-IN)       Connect to a Network Projector (WSD-IN)       Domain       Branch Cache Projector (WSD-IN)       Branch Cache Projector (WSD-IN)       Branch Cache Projector (WSD-IN)       Domain       Domain       Domain	Connection Security Rules	BranchCache Hosted Cache Server (HTT	BranchCache - Hosted Cach		
Connect to a Network Projector (TCP-In) Connect to a Network Projector, Source to a Network Projector (WSD Ev. Connect to a Network Projector (WSD Ev. Core Networking All Core Networking - Dynamic Host Config. Core Networking All Core Networking - IPHTPS (TCP-In) Core Networking All Core Networking - IPHTPS (TCP-In) Core Networking All Core Networking - Multicast Listener Qu. Core Networking All Core Networking - Neighbor Discovery A. Core Networking All Core Networking - Ruter Advertisment. Core Networking All Core Networking - Tree Societation (D. Core Networking All Core Networking - Tree Societation (D. Core Networking All Core Networking - Ruter Advertisment. Core Network		BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove	All E	Y Filter by Profile
<ul> <li>Connect to a Network Projector (TCP-In)</li> <li>Connect to a Network Projector (WSD Ex</li> <li>Connect to a Networking - Networking - Destination Unreacha</li> <li>Core Networking - Destination Unreacha</li> <li>Core Networking - Dynamic Host Config</li> <li>Core Networking - Phyternet Group Mana</li> <li>Core Networking - Phyternet Group Mana</li> <li>Core Networking - Phyternet Group Mana</li> <li>Core Networking - Multicast Listener Pa</li> <li>Core Networking - Multicast Listener Pa</li> <li>Core Networking - Networking - All</li> <li>Core Networking - Networking - Networking All</li> <li>Core Networking - Networking - Networking - Al</li></ul>		Connect to a Network Projector (TCP-In)	Connect to a Network Proje	Domain	
<ul> <li>Connect to a Network Projector (WSD Ev Connect to a Network Projector (WSD Ev Core Networking - Dynamic Host Config Core Networking - Dynamic Host Config Core Networking - Internet Group Mana Core Networking - Internet Group Mana Core Networking - Internet Group Mana Core Networking - Multicast Listener Du Core Networking - Multicast Listener Du Core Networking - Multicast Listener Qu Core Networking - Multicast Listener Qu Core Networking - Multicast Listener Qu Core Networking - Multicast Listener Ru Core Networking - Nater Advertisment Core Networking - Nater Advertisment Core Networking - Multicast Listener Ru Core Networking - Rueter Advertisment Core Networking - Rueter Advertisment Core Networking - Rueter Advertisment Core Networking - Time Exceed (ICMP Core Networkin</li></ul>		Connect to a Network Projector (TCP-In)	Connect to a Network Proje	Private	🐨 Filter by Group
<ul> <li>Connect to a Network Projector (WSD Ev Connect to a Network Projector (WSD v Connect to a Network Projector (WSD v Cornect to a Network Projector (WSD v Core Networking - Destination Unreacha Core Networking - Dynamic Host Config Core Networking - Dynamic Host Config Core Networking - Dynamic Host Config Core Networking - Multicast Config Core Networking - Multicast Listener Du Core Networking - Multicast Listener Pu Core Networking - Natificast Discover A Core Networking - Natificast Discover A Core Networking - Parameter Problem C Core Networking - Parameter Problem C Core Networking - Router Advertisement Core Networking - Router Advertisement Core Networking - Router Advertisement Core Networking - Router Solicitation (C Core Netwo</li></ul>		Connect to a Network Projector (WSD Ev	Connect to a Network Proje	Domain	View
<ul> <li>© Connect to a Network Projector (WSD Ev Connect to a Network Projector (WSD Ev Connect to a Network Projector (WSD For Connect to a Networking - Destination Unreacha Core Networking - Dynamic Host Config Core Networking - Dynamic Host Config Core Networking - Internet Group Mana Core Networking - Multicast Listener Do Core Networking - Multicast Listener Rep Core Networking - Multicast Listener Rep Core Networking - Multicast Listener Rep Core Networking - Nighbor Discovery A Core Networking - Ni</li></ul>		Connect to a Network Projector (WSD Ev	Connect to a Network Proje	Private	Defeat
<ul> <li>Connect to a Network Projector (WSD Ev Connect to a Network Projector (WSD-in)</li> <li>Connect to a Network Proje.</li> <li>All</li> <li>Core Networking - Destination Unreacha Core Networking</li> <li>Core Networking - Destination Unreacha Core Networking</li> <li>Core Networking - Dynamic Host Config Core Networking</li> <li>Core Networking - Dynamic Host Config Core Networking</li> <li>Core Networking - Distination Unreacha</li> <li>Core Networking</li> <li>Core Networking - Dynamic Host Config Core Networking</li> <li>Core Networking - Distination Unreacha</li> <li>Core Networking</li> <li>Core Networking - Internet Group Mana</li> <li>Core Networking</li> <li>Core Networking - Multicast Listener Do</li> <li>Core Networking - Multicast Listener Rep</li> <li>Core Networking</li> <li>Core Networking - Nughbor Discovery S</li> <li>Core Networking</li> <li>Core Networking - Nughbor Discovery S</li> <li>Core Networking</li> <li>Core Networking - Neighbor Discovery S</li> <li>Core Networking</li> <li>Core Networking - Neighbor Discovery S</li> <li>Core Networking</li> <li>Core Networking - Router Adventisement</li> <li>Core Networking</li> <li>Core Networking - Time Exceeded (ICMP</li> <li>Core Networking</li> <li>Core Networking - Time Exceeded (ICMP</li> <li>Core Networking</li></ul>		Onnect to a Network Projector (WSD Ev	Connect to a Network Proje	Domain	G Kerresh
<ul> <li>Connect to a Network Projector (WSD-In)</li> <li>Connect to a Network Projector (WSD-In)</li> <li>Core Networking - Destination Unreacha</li> <li>Core Networking - Destination Unreacha</li> <li>Core Networking - Dynamic Host Config</li> <li>Core Networking - Dynamic Host Config</li> <li>Core Networking - Dynamic Host Config</li> <li>Core Networking - Internet Group Mana</li> <li>Core Networking - Multicast Listener Do</li> <li>Core Networking - Multicast Listener Rep</li> <li>Core Networking All</li> <li>Core Networking - Multicast Listener Rep</li> <li>Core Networking All</li> <li>Core Networking - Neighbor Discovery A</li> <li>Core Networking All</li> <li>Core Networking - Neighbor Discovery S</li> <li>Core Networking All</li> <li>Core Networking - Parameter Polem (I</li> <li>Core Networking All</li> <li>Core Networking - Router Advertisement</li> <li>Core Networking All</li> <li>Core Networking - Router Advertisement</li> <li>Core Networking All</li> <li>Core Networking - Router Advertisement</li> <li>Core Networking All</li> <li>Core Networking - Time Exceed (ICMP</li> <li>Core Networking All</li> <li>Core Networking - Time Exceed (ICMP</li> <li>Core Networking</li></ul>		Onnect to a Network Projector (WSD Ev	Connect to a Network Proje	Private	📑 Export List
Image: Core Networking - Destination Unreacha       Core Networking       All         Image: Core Networking - Dynamic Host Config       Core Networking       All         Image: Core Networking - Dynamic Host Config       Core Networking       All         Image: Core Networking - Dynamic Host Config       Core Networking       All         Image: Core Networking - Dynamic Host Config       Core Networking       All         Image: Core Networking - Internet Group Mana       Core Networking       All         Image: Core Networking - IPHTTPS (TCP-In)       Core Networking       All         Image: Core Networking - IPHTTPS (TCP-In)       Core Networking       All         Image: Core Networking - Multicast Listener Du       Core Networking       All         Image: Core Networking - Multicast Listener Qu       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Packet Too Big (CMP       Core Networking       All         Image: Core Networking - Packet Too Big (CMP       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Adv		Connect to a Network Projector (WSD-In)	Connect to a Network Proje	All	? Help
Core Networking - Destination UnreachaCore NetworkingAllCore Networking - Dynamic Host ConfigCore NetworkingAllCore Networking - Dynamic Host ConfigCore NetworkingAllCore Networking - Internet Group ManaCore NetworkingAllCore Networking - IPHTIPS (TCP-In)Core NetworkingAllCore Networking - IPHTIPS (TCP-In)Core NetworkingAllCore Networking - Multicast Listener DoCore NetworkingAllCore Networking - Multicast Listener PoCore NetworkingAllCore Networking - Multicast Listener RepCore NetworkingAllCore Networking - Multicast Listener RepCore NetworkingAllCore Networking - Neighbor Discovery ACore NetworkingAllCore Networking - Neighbor Discovery SCore NetworkingAllCore Networking - Router AdvertisementCore NetworkingAllCore Networking - Tree Could Coller Distributed Transaction CoomingAllCore Networking - Teredo (UDP-In)Core NetworkingAllCore Networking - Tree Sceeded (ICMPCore NetworkingAllCore Networking - Tree Sceeded (ICMPCore NetworkingAllCore Networking - Teredo (UDP-In)Core NetworkingAllCore Networking - Teredo (UDP-In)Core Networking <t< td=""><td></td><td>🕜 Core Networking - Destination Unreacha</td><td>Core Networking</td><td>All</td><td></td></t<>		🕜 Core Networking - Destination Unreacha	Core Networking	All	
Image: Core Networking - Dynamic Host Config       Core Networking All         Image: Core Networking - Dynamic Host Config       Core Networking All         Image: Core Networking - Internet Group Mana       Core Networking All         Image: Core Networking - IPHTIPS (TCP-In)       Core Networking All         Image: Core Networking - PV6 (Pv6-In)       Core Networking All         Image: Core Networking - Multicast Listener Do       Core Networking All         Image: Core Networking - Multicast Listener Qu       Core Networking All         Image: Core Networking - Multicast Listener Qu       Core Networking All         Image: Core Networking - Multicast Listener Rep       Core Networking All         Image: Core Networking - Multicast Listener Rep       Core Networking All         Image: Core Networking - Multicast Listener Rep       Core Networking All         Image: Core Networking - Nulticast Listener Rep       Core Networking All         Image: Core Networking - Neighbor Discovery S       Core Networking All         Image: Core Networking - Packet Too Big (ICMP       Core Networking All         Image: Core Networking - Router Advertisement       Core Networking All         Image: Core Networking - Parameter Problem (I       Core Networking All         Image: Core Networking - Router Advertisement       Core Networking All         Image: Core Network		Ore Networking - Destination Unreacha	Core Networking	All	
Image: Core Networking - Dynamic Host Config       Core Networking       All         Image: Core Networking - IPHTTPS (TCP-In)       Core Networking       All         Image: Core Networking - IPHTTPS (TCP-In)       Core Networking       All         Image: Core Networking - IPHTTPS (IPA-In)       Core Networking       All         Image: Core Networking - Multicast Listener Do       Core Networking       All         Image: Core Networking - Multicast Listener Qu       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Nulticast Listener Rep       Core Networking       All         Image: Core Networking - Nulticast Listener Rep       Core Networking       All         Image: Core Networking - Nulticast Listener Rep       Core Networking       All         Image: Core Networking - Nulticast Listener Rep       Core Networking       All         Image: Core Networking - Neighbor Discovery A       Core Networking       All         Image: Core Networking - Parameter Problem (       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Route		Ore Networking - Dynamic Host Config	Core Networking	All	
Image: Core Networking - IPHTTPS (TCP-In)       Core Networking       All         Image: Core Networking - IPHTTPS (TCP-In)       Core Networking       All         Image: Core Networking - IPV6 (IPv6-In)       Core Networking       All         Image: Core Networking - Multicast Listener Do       Core Networking       All         Image: Core Networking - Multicast Listener Do       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Nulticast Listener Rep       Core Networking       All         Image: Core Networking - Nulticast Listener Rep       Core Networking       All         Image: Core Networking - Neighbor Discovery A       Core Networking       All         Image: Core Networking - Neighbor Discovery S       Core Networking       All         Image: Core Networking - Parameter Problem (I       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Solicitation (IC       Core Networking       All         Image: Core Networking - Ti		Ore Networking - Dynamic Host Config	Core Networking	All	
Image: Core Networking - IPHTTPS (TCP-In)       Core Networking       All         Image: Core Networking - IPHG (IPAG-In)       Core Networking       All         Image: Core Networking - Multicast Listener Do       Core Networking       All         Image: Core Networking - Multicast Listener Qu       Core Networking       All         Image: Core Networking - Multicast Listener Qu       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Nutlicast Listener Rep       Core Networking       All         Image: Core Networking - Nutlicast Listener Rep       Core Networking       All         Image: Core Networking - Neighbor Discovery A       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Parameter Problem (I       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Solicitation (IC       Core Networking       All         Image: Core Networking		Core Networking - Internet Group Mana	Core Networking	All	
Image: Core Networking - IPv6 (IPv6-In)       Core Networking       All         Image: Core Networking - Multicast Listener Do       Core Networking       All         Image: Core Networking - Multicast Listener Qu       Core Networking       All         Image: Core Networking - Multicast Listener Qu       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Neighbor Discovery A       Core Networking       All         Image: Core Networking - Neighbor Discovery S       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Parameter Problem (I       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Time Succeeded (ICMP       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking -		🕑 Core Networking - IPHTTPS (TCP-In)	Core Networking	All	
Image: Core Networking - Multicast Listener Do       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Multicast Listener Rep       Core Networking       All         Image: Core Networking - Neighbor Discovery A       Core Networking       All         Image: Core Networking - Neighbor Discovery S       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Parameter Problem (I       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core		🕑 Core Networking - IPv6 (IPv6-In)	Core Networking	All	
Ore Networking - Multicast Listener Qu       Core Networking       All         Ore Networking - Multicast Listener Rep       Core Networking       All         Ore Networking - Multicast Listener Rep       Core Networking       All         Ore Ore Networking - Multicast Listener Rep       Core Networking       All         Ore Ore Networking - Neighbor Discovery A       Core Networking       All         Ore Ore Networking - Neighbor Discovery S       Core Networking       All         Ore Ore Networking - Packet Too Big (ICMP       Core Networking       All         Ore Ore Networking - Packet Too Big (ICMP       Core Networking       All         Ore Ore Networking - Packet Too Big (ICMP       Core Networking       All         Ore Ore Networking - Parameter Problem (I       Core Networking       All         Ore Ore Networking - Router Advertisement       Core Networking       All         Ore Ore Networking - Router Advertisement       Core Networking       All         Ore Ore Networking - Time Exceeded (ICMP       Core Networking       All         Ore Ore Networking - Time Exceeded (ICMP       Core Networking       All         Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)         Distributed Transaction Co		Core Networking - Multicast Listener Do	Core Networking	All	
Image: Core Networking - Multicast Listener Rep Core Networking       All         Image: Core Networking - Neighbor Discovery A       Core Networking       All         Image: Core Networking - Neighbor Discovery S       Core Networking       All         Image: Core Networking - Neighbor Discovery S       Core Networking       All         Image: Core Networking - Neighbor Discovery S       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Parameter Problem (I       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)         Image: Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC		Ore Networking - Multicast Listener Qu	Core Networking	All	
Image: Core Networking - Nutricast Listener Rep Core Networking       All         Image: Core Networking - Neighbor Discovery A       Core Networking       All         Image: Core Networking - Neighbor Discovery S       Core Networking       All         Image: Core Networking - Neighbor Discovery S       Core Networking       All         Image: Core Networking - Parameter Droblem (I       Core Networking       All         Image: Core Networking - Parameter Problem (I       Core Networking       All         Image: Core Networking - Parameter Problem (I       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Trane Exceeded (CMP       Core Networking       All         Image: Core Networking - Time Exceeded (CMP       Core Networking       All         Image: Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)         Image: Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)		Core Networking - Multicast Listener Rep	Core Networking	All	
Image: Core Networking - Neighbor Discovery A       Core Networking       All         Image: Core Networking - Neighbor Discovery S       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Packet Too Big (ICMP       Core Networking       All         Image: Core Networking - Parameter Problem (I       Core Networking       All         Image: Core Networking - Router Advertisement       Core Networking       All         Image: Core Networking - Router Solicitation (IC       Core Networking       All         Image: Core Networking - Teredo (UDP-In)       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Core Networking - Time Ex		Core Networking - Multicast Listener Rep	Core Networking	All	
Core Networking - Neighbor Discovery S       Core Networking       All         Core Networking - Packet Too Big (ICMP       Core Networking       All         Core Networking - Parameter Problem (I       Core Networking       All         Core Networking - Router Advertisement       Core Networking       All         Core Networking - Router Advertisement       Core Networking       All         Core Networking - Router Advertisement       Core Networking       All         Core Networking - Teredo (UDP-In)       Core Networking       All         Core Networking - Time Exceeded (ICMP       Core Networking       All         Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)       Distributed Transaction Comman         Distributed Transaction Coordinator (RPC)       Distributed Transaction Comman       Domain		Core Networking - Neighbor Discovery A	Core Networking	All	
Image: Core Networking - Packet Ioo Big (ICMP       Core Networking - All       All         Image: Core Networking - Parameter Problem (I       Core Networking - All       All         Image: Core Networking - Router Advertisement       Core Networking - All       All         Image: Core Networking - Router Advertisement       Core Networking - All       All         Image: Core Networking - Router Advertisement       Core Networking - All       All         Image: Core Networking - Teredo (UDP-In)       Core Networking       All         Image: Core Networking - Time Exceeded (ICMP       Core Networking       All         Image: Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)         Image: Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)		Core Networking - Neighbor Discovery S	Core Networking	All	
Core Networking - Parameter Problem (I       Core Networking       All         Core Networking - Router Advertisement       Core Networking       All         Core Networking - Router Solicitation (IC       Core Networking       All         Core Networking - Teredo (UDP-In)       Core Networking       All         Core Networking - Time Exceeded (ICMP       Core Networking       All         Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)         Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)       Distributed Transaction Coordinator (RPC)		Core Networking - Packet Too Big (ICMP	Core Networking	All	
Core Networking - Router Advertisement Core Networking All Core Networking - Teredo (UDP-In) Core Networking - Time Exceeded (ICMP Core Networking All Core Networking - Time Exceeded (ICMP Core Networking All Distributed Transaction Coordinator (RPC) Distributed Transaction Coo Private Distributed Transaction Coordinator (RPC) Distributed Transaction Coo Domain Distributed Transaction Coordinator (RPC)		Core Networking - Parameter Problem (I	Core Networking	All	
Core Networking - Toredo (UDP-In) Core Networking All Core Networking - Time Exceeded (ICMP Distributed Transaction Coordinator (RPC) Distributed Transa		Core Networking - Router Advertisement	Core Networking	All	
Core Networking - Feredo (UDP-In) Core Networking All Core Networking - Time Exceeded (ICMP Core Networking All Distributed Transaction Coordinator (RPC) Distributed Transaction Coo Private Distributed Transaction Coordinator (RPC) Distributed Transaction Coo Domain		Core Networking - Kouter Solicitation (IC	Core Networking	All	
Core vectoring - Time Exceede (ICVIr Core Vectoring Air     Distributed Transaction Coordinator (RPC) Distributed Transaction Coo Private     Distributed Transaction Coordinator (RPC) Distributed Transaction Coo Domain		Core Networking - Teredo (UDP-In)	Core Networking	All	
Distributed Transaction Coordinator (RPC) Distributed Transaction Coo Private		Distributed Transaction Coordinator (PDC)	Distributed Transaction Coo	All Drivate	
Pristoria a Tansaction Continuation (PC) Distribute a Tansaction Cou Domain		Distributed Transaction Coordinator (RPC)	Distributed Transaction Cool	Private	
Distributed Transaction Coordinator (RP Distributed Transaction Coo Domain - 1		Distributed Transaction Coordinator (RPC)	Distributed Transaction Coo	Domain -	
< III b < III	<	< III	bishibacca mansaction coo	+	
					1

## 8. On the Actions pane, select New Rule.

Windows Firewall with Advanced	Security				
File Action View Help					
🗢 🔿 🖄 🖬 🔒 👔 🖬					
Windows Firewall with Advance	Inbound Rules			Actions	
Inbound Rules	Name	Group	Profile ^	Inbound Rules	▲
Outbound Rules	BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr	All	😽 New Rule	
Monitoring	BranchCache Hosted Cache Server (HTT	BranchCache - Hosted Cach	All		
D and the second	BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove	All =	Y Filter by Frotile	•
	Connect to a Network Projector (TCP-In)	Connect to a Network Proje	Domain	Filter by State	•
	Connect to a Network Projector (TCP-In)	Connect to a Network Proje	Private	🕎 Filter by Group	•
	Onnect to a Network Projector (WSD Ev	Connect to a Network Proje	Domain	View	•
	Connect to a Network Projector (WSD Ev	Connect to a Network Proje	Private	Refresh	
	Connect to a Network Projector (WSD Ev	Connect to a Network Proje	Domain		
	Connect to a Network Projector (WSD Ev	Connect to a Network Proje	Private	Export List	
	Connect to a Network Projector (WSD-In)	Connect to a Network Proje	All	👔 Help	
	🕜 Core Networking - Destination Unreacha	Core Networking	All		
	Ore Networking - Destination Unreacha	Core Networking	All		
	Ore Networking - Dynamic Host Config	Core Networking	All		
	Ore Networking - Dynamic Host Config	Core Networking	All		
	Ore Networking - Internet Group Mana	Core Networking	All		
	🔮 Core Networking - IPHTTPS (TCP-In)	Core Networking	All		
	🔮 Core Networking - IPv6 (IPv6-In)	Core Networking	All		
	Core Networking - Multicast Listener Do	Core Networking	All		
	Core Networking - Multicast Listener Qu	Core Networking	All		
	Core Networking - Multicast Listener Rep	Core Networking	All		
	Core Networking - Multicast Listener Rep	Core Networking	All		
	Core Networking - Neighbor Discovery A	Core Networking	All		
	Core Networking - Neighbor Discovery S	Core Networking	All		
	Core Networking - Packet Too Big (ICMP	Core Networking	All		
1	Core Networking - Parameter Problem (I	Core Networking	All		
	Core Networking - Router Advertisement	Core Networking	All		
	Core Networking - Kouter Solicitation (IC	Core Networking			
	Core Networking - Time Exceeded (ICMD	Core Networking			
	Distributed Transaction Coordinator (RPC)	Distributed Transaction Coo	Private		
	Distributed Transaction Coordinator (RPC)	Distributed Transaction Coo	Domain		
	Distributed Transaction Coordinator (RP	Distributed Transaction Coo	Domain -		
<	<		+		
New Rule					

9. On the New Inbound Rule Wizard window, select Port rule type and click Next.



10. Select **TCP** and enter **1433** in the **Specific local ports** field. If the port is in use, you can use any other unused port. Click **Next**.

💣 New Inbound Rule Wizard		23								
Protocol and Ports										
Specify the protocols and ports to	Specify the protocols and ports to which this rule applies.									
Steps:										
Rule Type	Does this rule apply to TCP or UDP	?								
Protocol and Ports	TCP									
Action	O UDP									
Profile										
Name	Does this rule apply to all local ports	s or specific local ports?								
	All local ports									
	Specific local ports:	1433								
		Example: 80, 443, 5000-5010								
	Learn more about protocol and port	<u>8</u>								
		< Back Next > Cancel								

11. Select Allow the connection and click Next.

Mew Inbound Rule Wizard		X
Action		
Specify the action to be taken w	hen a connection matches the conditions specified in the rule.	
Steps:		
Rule Type	What action should be taken when a connection matches the specified conditions?	
Protocol and Ports	Allow the connection	
Action	This includes conflections that are protected with IPsec as well as those are not.	
Profile	Allow the connection if it is secure	
• Name	Back     Next and connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.  Customize  Block the connection  Learn more about actions	el

12. Check the **Domain**, **Private** and **Public** boxes, then click **Next**.

🔗 New Inbound Rule Wizard		
Profile Specify the profiles for which this	rule applies.	
Steps: Protocol and Ports Action Profile Name	<ul> <li>When does this rule apply?</li> <li>✓ Domain Applies when a computer is connected to its corporate domain.</li> <li>✓ Private Applies when a computer is connected to a private network location.</li> <li>✓ Public Applies when a computer is connected to a public network location.</li> </ul>	
	Leam more about profiles          < Back       Next >       Cancel	

13. Define a name for the rule, for example, Database Inbound Connection TCP. Click Finish.

Provide the two series of two series of the two series of the two series of the two series of the two series of two se	All represent the only	×
Name		
Specify the name and description of the	his rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action		
Profile	Name:	
Name	Database inbound connection TCF	
	Description (optional):	
	Rack Binish Cancel	
		·

After creating the TCP protocol rule, you must create another rule for UDP, which is set to port **1434** by default.

14. On the Actions	oane, select	New	Rule
--------------------	--------------	-----	------

Windows Firewall with Advanced	Security	_			
File Action View Help					
🗢 🔿 🔰 🖬 🗟 🖬					
Prindows Firewall with Advance	Inbound Rules			Actions	
🔣 Inbound Rules	Name	Group	Profile ^	Inbound Rules	<b>_</b>
Cutbound Rules	RearchCache Content Petrieval (HTTP-In)	BranchCache - Content Petr	AII	May Rula	
Connection Security Rules	BranchCache Hosted Cache Server (HTT	BranchCache - Hosted Cach			
Monitoring	RranchCache Pierr Discoveny (WSD-In)	BranchCache - Peer Discove		Filter by fofile	•
	Connect to a Network Projector (TCP-In)	Connect to a Network Proje	Domain	Filter by State	•
	Connect to a Network Projector (TCP-In)	Connect to a Network Proje	Private	Filter by Group	•
	Connect to a Network Projector (WSD Ev.	Connect to a Network Proje	Domain	- View	
	Connect to a Network Projector (WSD Ev	Connect to a Network Proje	Private	View	
	Connect to a Network Projector (WSD Ev	Connect to a Network Proje	Domain	🖸 Refresh	
	Connect to a Network Projector (WSD Ev	Connect to a Network Proje	Private	📑 Export List	
	Connect to a Network Projector (WSD-In)	Connect to a Network Proje	All	7 Help	
	Core Networking - Destination Unreacha	Core Networking	All		
	Ocore Networking - Destination Unreacha	Core Networking	All		
	Core Networking - Dynamic Host Config	Core Networking	All		
	Ore Networking - Dynamic Host Config	Core Networking	All		
	Ore Networking - Internet Group Mana	Core Networking	All		
	Core Networking - IPHTTPS (TCP-In)	Core Networking	All		
	Core Networking - IPv6 (IPv6-In)	Core Networking	All		
	Ocre Networking - Multicast Listener Do	Core Networking	All		
	Ore Networking - Multicast Listener Qu	Core Networking	All		
	Ore Networking - Multicast Listener Rep	Core Networking	All		
	🖉 Core Networking - Multicast Listener Rep	Core Networking	All		
	🖉 Core Networking - Neighbor Discovery A	Core Networking	All		
	Ore Networking - Neighbor Discovery S	Core Networking	All		
	🕜 Core Networking - Packet Too Big (ICMP	Core Networking	All		
	🕢 Core Networking - Parameter Problem (I	Core Networking	All		
	🕜 Core Networking - Router Advertisement	Core Networking	All		
	Ore Networking - Router Solicitation (IC	Core Networking	All		
	🕜 Core Networking - Teredo (UDP-In)	Core Networking	All		
	Ore Networking - Time Exceeded (ICMP	Core Networking	All		
	Distributed Transaction Coordinator (RPC)	Distributed Transaction Coo	Private		
	Distributed Transaction Coordinator (RPC)	Distributed Transaction Coo	Domain		
	Distributed Transaction Coordinator (RP	Distributed Transaction Coo	Domain 👻	-	
	•		•		
New Rule					

15. On the New Inbound Rule Wizard window, select Port rule type and click Next.

Mew Inbound Rule Wizard	
Rule Type Select the type of firewall rule to cr	eate.
Select the type of firewall rule to cr Steps: Protocol and Ports Action Profile Name	eate. What type of rule would you like to create? Program Rule that controls connections for a program. Proteined: Predefined: BranchCache - Content Retrieval (Uses HTTP) Rule that controls connections for a Windows experience. C Sustom Custom rule.
	< Back Next > Cancel

16. Select UDP and enter 1434 in the Specific local ports field. Click Next.

Prew Inbound Rule Wizard			X
Protocol and Ports			
Specify the protocols and ports to	which this rule applies.		
Steps:			
Rule Type	Does this rule apply to TCP or UDP	?	
Protocol and Ports	© TCP		
<ul> <li>Action</li> </ul>	ODP		
Profile			
Name	Does this rule apply to all local ports	s or specific local ports?	
	All local ports		
	Specific local ports:	1434	
		Example: 80, 443, 5000-5010	
	Learn more about protocol and port	<u>s</u>	
		(Back Next ) Cancel	

17. Select Allow the connection and click Next.

Mew Inbound Rule Wizard		X
Action		
Specify the action to be taken wh	en a connection matches the conditions specified in the rule.	
Steps:		
Rule Type	What action should be taken when a connection matches the specified conditions?	
Protocol and Ports	Allow the connection	
Action	This includes connections that are protected with IPsec as well as those are not.	
	Allow the connection if it is secure	
<ul> <li>Name</li> </ul>	This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Customize  Block the connection	
	Leam more about actions          < Back       Next >       Cancel	el

18. Check the **Domain**, **Private** and **Public** boxes, then click **Next**.

🔗 New Inbound Rule Wizar	d	×
Profile	io a lo poplico	
Specify the promes for which the		
Steps:		
Rule Type	When does this rule apply?	
Protocol and Ports		
Action		
Profile	Applies when a computer is connected to its corporate domain.	
Name	Private	
	Applies when a computer is connected to a private network location.	
	Applies when a computer is connected to a public network location.	
	Learn more about profiles	
	Canc	el

19. Define a name for the rule, for example, **Database Inbound Connection UDP**. Click **Finish**.

Prev Inbound Rule Wizard	×
Name	
Specify the name and description of	this rule.
Steps:	
Rule Type	
Protocol and Ports	
Action	News
Profile	Name: Database Inbound Connection UDP
Name	
	Description (optional):
	< Back Finish Cancel

For security and reliability reasons, cable-based network access must be used instead of Wi-Fi. The laptop computers that are provided by QIAGEN have a disabled Wi-Fi adapter. If your configuration is different, a system administrator must disable the Wi-Fi adapter manually which can be done by the following steps:

1. Open the **Control Panel** and select **Network and Sharing Center** (or search for **Control Panel** on Windows 10).



## 2. Select Change adapter settings.

~		
Control Panel >	All Control Panel Items   Network and Sharing Center	- + Search Con 🔎
Control Panel Home	View your basic network information and set up connections	0
Manage wireless networks	🙀 🛶 🎱 See full map	
Change adapter settings Change advanced Haring	QIAGEN-PC Internet (This computer)	
settings	View your active networks Connect to a network You are currently not connected to any networks.	
	Change your networking settings	
	Set up a new connection or network Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.	
	Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.	
	Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings.	
	Troubleshoot problems	
	Diagnose and repair network problems, or get troubleshooting information.	
See also		
HomeGroup		
Internet Options		
Windows Firewall		

## 3. Point to Wireless Network Connection, right-click and select Disable.

🚱 🔵 🗢 😰 🕨 Control Panel 🕨 Network and Internet 🕨 Net	twork Connections 🕨			<b>- </b>	Search Ne	et 🔎
Organize  Connect To Disable this network device	Diagnose this connection	Rename this connection	Change settings of this connection		• 💷	0
Local Area Connection Network cable unplugged Intel(R) Ethernet Connection I217-V	ss Network Connection	t				

4. Check that the Wireless Network Connection is disabled.

CO Control Panel > Network and Internet > Network Connections >	✓ Search Net
Organize 🕶	
Local Area Connection Network cable unplugged Intel(R) Ethernet Connection I217-V	

## System tools

Many system tools may use significant system resources even without any user interaction. Typical examples of such tools are:

- File indexing, which is performed as a background task by many contemporary office applications
- Disk defragmentation, which often also employs a background task
- Any software that checks for updates on the Internet
- Remote monitoring and management tools

**Note**: Due to the dynamic nature of information technology products and systems, this list may be incomplete. Tools may be released that are not known at the time of writing. It is important that system administrators ensure that such tools are not active on the computer while Rotor-Gene AssayManager v1.0 performing a PCR run.

## Operating system updates

#### Instructions for Windows 7

The laptop computers provided by QIAGEN are configured in a way that automatic updates of the operating system are disabled. If your configuration is different, a system administrator must disable any automatic update process of the operating system which can be done by the following steps:

1. Open the Control Panel and select Windows Update.



#### 2. Select Change settings.



## 3. On the Important updates dropdown list, select Never check for updates.

Control Panel  All Co	ntrol Panel Items  Windows Update  Change settings	✓ 4 Sea	rch Con 🔎
	Choose how Windows can install updates When your computer is online, Windows can automatically check for important updates and install them using these settings. When new updates are available, you can also install them before shutting down the computer. How does automatic updating help me? Important updates Important updates Install updates automatically (recommended) Download updates but let me choose whether to install them Check for updates but let me choose whether to download and install them Recom Never check for updates (not recommended) Window updates the same way I receive important updates Who can install updates		
	Allow all users to install updates on this computer          Note: Windows Update might update itself automatically first when checking for other updates. Read our privacy statement online.         @ OK		

4. Check that the option Never check for updates is active and click OK.

In case that updates are required due to uncovered security vulnerabilities, QIAGEN provides mechanisms to install a defined set of validated Windows security patches either online (if internet connection is available on laptop computers provided by QIAGEN), or as offline package, prepared on a separate computer with Internet connection.

Please visit the product page on QIAGEN.com for more information.

Instructions for Windows 10

If you are using Windows 10, please visit the product page on QIAGEN.com for more information.

## FAQ

Question	Answer
How can I uninstall a plug-in?	For regulatory reasons, plug-ins cannot be uninstalled. In case you want to uninstall a plug-in, the core application must be uninstalled together with the plug-in.
Why is Rotor-Gene AssayManager v1.0 unable to communicate with the cycler?	Check the cable connection between Rotor-Gene Q MDx and the computer. The USB cable might be loose or faulty. Reconnect or replace the cable. Only use cables and accessories supplied by QIAGEN. Switch off the Rotor-Gene Q MDx and switch it back on again. Restart Rotor-Gene AssayManager v1.0.
Can Rotor-Gene AssayManager v1.0 be used in parallel with the Rotor-Gene Q software on one computer?	Both programs can be installed in parallel on one computer. Make sure to have Rotor-Gene Q software version 2.3 or higher installed. However, the programs cannot be used in parallel for cycler control. As soon as the first program is started it will liaise to a switched-on Rotor-Gene Q MDx. This connection will be maintained until the program is closed or the Rotor-Gene Q MDx is switched off. If an active connection is established, the second program can only be started in virtual mode.
Why does Rotor-Gene AssayManager v1.0 not start?	<ul> <li>a) Old version of Microsoft Windows</li> <li>Rotor-Gene AssayManager v1.0 can only be operated with Windows 7 and Windows 10.</li> <li>b) No plug-in installed</li> <li>Rotor-Gene AssayManager v1.0 consists of the core software and plug-ins with application specific components. Besides the core software, at least one plug-in must be installed to be able to use Rotor-Gene AssayManager v1.0.</li> </ul>

Continued on next page

Continued from previous page

Question	Answer
What is my initial user name and password after installation of Rotor-Gene AssayManager v1.0	The initial user name and password for Rotor-Gene AssayManager v1.0 is "admin" for both. Directly after the first login you are required to change the password. Make sure to memorize the password for the "admin" account and crate additional user profiles in the Configuration environment afterwards. Note that if the password for a user account is entered incorrectly three times, the user account will be locked and can only be re-activated by a user with administrator role. If the administrator account gets locked, only a QIAGEN service technician can re- activate the Rotor-Gene AssayManager v1.0, which may cause additional charges.
After installation of Rotor-Gene AssayManager v1.0, I do not have access to the <b>Setup</b> and <b>Development</b> environments. What's wrong?	Upon first login to Rotor-Gene AssayManager v1.0, the "admin" user profile only has "Administrator" rights. Go to the user management tab in the <b>Configuration</b> environment, then update your access rights and create additional user profiles. Activate the roles "Approver", "AssayDeveloper", and "Operator" in the appropriate user profile(s). For details see the section "Getting Started" in the <i>Rotor-</i> <i>Gene AssayManager Core Application IVD (US) User</i> <i>Manual.</i>

Document	Revision History
08/2018	Updated the following parts for the new Rotor-Gene AssayManager 1.0.5 version:
	-Added support and descriptions for Windows 10
	-Added pre-requisites for the installation of RGAM on Windows 7 or Windows 10 systems
	-Updated descriptions to be compatible with the most recent configurations for laptop computers provided by QIAGEN
	-Updated and extended description of recommended virus scanner and firewall settings
	-Updated and extended description of how to deal with operating system updates

For further support with technical difficulties, please contact QIAGEN Technical Services at **www.qiagen.com**.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN®, Sample to Insight®, Rotor-Gene®, Rotor-Gene AssayManager® (QIAGEN Group); Bluetooth® (Bluetooth SIG, Inc.); Core™, Intel® (Intel Corporation); Microsoft®, SQL Server®, Windows® (Microsoft Corporation). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

HB-2193-002 1114577 08/2018 © QIAGEN, all rights reserved

Ordering www.qiagen.com/shop | Technical Support support.qiagen.com | Website www.qiagen.com