

4.8 SR8 Installation and Upgrade Guide January 17, 2017

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Innovative Solutions



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 Genetec Technical Assistance Portal (GTAP). GTAP is a support website that provides in-depth support information, such as FAQs, knowledge base articles, user guides, supported device lists, training videos, product tools, and much more.

Prior to contacting GTAC or opening a support case, it is important to look at this website for potential fixes, workarounds, or known issues. You can log in to GTAP or sign up at https://gtap.genetec.com.

• Genetec Technical Assistance Center (GTAC). If you cannot find your answers on GTAP, you can open a support case online at https://gtap.genetec.com. For GTAC's contact information in your region see the Contact page at https://gtap.genetec.com.

NOTE Before contacting GTAC, please have your System ID (available from the About button in your client application) and your SMA contract number (if applicable) ready.

- Licensing
 - For license activations or resets, please contact GTAC at https://gtap.genetec.com.
 - For issues with license content or part numbers, or concerns about an order, please contact Genetec Customer Service at customerservice@genetec.com, or call 1-866-684-8006 (option #3).
 - If you require a demo license or have questions regarding pricing, please contact Genetec Sales at sales@genetec.com, or call 1-866-684-8006 (option #2).

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- **GTAP Forum.** The Forum is an easy to use message board that allows clients and Genetec staff to communicate with each other and discuss a variety of topics, ranging from technical questions to technology tips. You can log in or sign up at https://gtapforum.genetec.com.
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1 Introduction

This document explains how to install Omnicast software and how to upgrade the software from a previous version.

2 System Requirements

For the Omnicast 4.8 System Requirements document, click here.

3 Interoperability

This section describes how Omnicast 4.8 SR8 works with earlier versions of Omnicast and with Security Center.

3.1 Supported federations

Omnicast 4.8 SR8 can federate the following systems:

- Omnicast 3.5, 4.0, and 4.1 (live video only)
- Omnicast 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, and 4.8 (full functionality)

Omnicast 4.8 SR8 can be federated to version 5.1, 5.2, and 5.3 of Security Center using the Omnicast 4.8 Compatibility Pack. For more information about installing the 4.8 Compatibility Pack for Security Center, see the Security Center Installation and Upgrade Guide.

3.2 Security Center interoperability

IMPORTANT A Security Center 5.1, 5.2, 5.3 Archiver role cannot be hosted on a machine where Omnicast 4.x Archiver is installed.

Omnicast 4.8 SR8 can coexist on the same server with the following versions of Security Center:

• Security Center 4.0, 5.0, 5.1, 5.2, and 5.3.

4 VMware

You can install Omnicast in a VMware environment following the same procedures performed during a regular installation:

- For a Server installation, see "Omnicast 4.8 SR8 Server Installation" on page 8. Note that all Omnicast services can be installed in the virtual environment.
- For a Client installation, see "Omnicast 4.8 SR8 Client Installation" on page 18.

Note: Performance is affected when running Omnicast in the virtual environment.

5 Installing Omnicast 4.8 SR8

5.1 Before you install

5.1.1 Omnicast Server prerequisites

If you are using Windows 7, Microsoft .NET Framework 3.5 SP1 must be activated (turned on) before the Omnicast Server installation. It is normally on by default, however, if it is off:

- 1. Click Start > Control Panel > Programs and Features.
- 2. In the Programs and Features window, click Turn Windows features on or off.
- 3. In the Windows Features dialog box, select the Microsoft .NET Framework 3.5.1 option.
- 4. Click OK.

5.1.2 Web Applications prerequisites

If you want to install the Omnicast Web Applications (Web Live Viewer and Web Archive Player), you must do the following:

- Add the Web client http address to your Trusted sites (Tools > Internet Options > Security > Trusted sites > Sites). The Web client address uses the following syntax: http://Web Applications server hostname or IP address/client. For example, if you are going to install the Web Applications on a server named Confucius, you would add: http://Confucius/client to your Trusted sites.
- If you are connected to the internet, the Web Application IIS prerequisites will be automatically downloaded during the installation. If there is no internet connection available, any prerequisites you are missing can be found on your Omnicast DVD in the following folder: \Server\ISSetupPrerequisites.

Note: If you are using Windows XP or Windows 2003, you will require your Windows installation CD to install the IIS prerequisites.

 Install 32-bit Java SE 7 Update 45 on the computer where you want to run the Web Client. 32bit Java SE 7 is provided with the Omnicast Installshield.
 Note: The Omnicast Web client does not support 64-bit Java.

5.2 Omnicast 4.8 SR8 Server Installation

Follow this procedure if you are installing Omnicast Server for the first time.

- 1. Insert the Omnicast installation DVD in your computer's DVD drive. If the InstallShield Wizard does not appear, double-click *setup.hta* in the Omnicast root directory.
- 2. In the InstallShield Wizard, click Server installation.



3. If necessary, follow the on-screen instructions to install any missing prerequisite software.

You may be prompted to reboot during the course of the installation of the prerequisites. If a reboot is requested, you must do so to complete the installation. After the system reboots, any remaining prerequisites are installed.

Note: Depending on the sequence of prerequisites to install, you may have to restart the installation.

- 4. Once the prerequisite software is installed, click **Next**.
- 5. Read and accept the License Agreement, and click Next.
- 6. Select the language Omnicast Server will use, and click Next.

To change to another software language after the installation, use the *Language Tool*. Your Omnicast license must allow you to use the selected language. The availability of a language in the drop-down list does not necessarily mean you have the license to use it.

For information about how to change the selected language, see "Changing the software language" on page 21.

7. Select the default installation folder, and click **Next**. To choose a different installation folder, click **Change**.

Note: Regardless of where you choose to install your software, you need to have at least 6 GB of free space on your C: drive (or wherever \Windows is installed). Otherwise, the InstallShield will display a message that says you do not have enough free space.

- 8. In the Select Type window, select **Typical**, Archiver, or **Custom** installation type.
 - **Typical** Installs the most frequently used server components (Directory, Gateway, Archiver, Virtual Matrix and WatchDog).
 - Archiver Installs all necessary components for a server operating only as an Archiver.
 - **Custom** Allows you to choose which program features you want to install. This option is recommended for advanced users. You can install the following features:
 - Directory
 - Directory Failover Coordinator
 - Archiver
 - Restore Archiver
 - Gateway
 - Federation Server (and all components)
 - Metadata Engine
 - Virtual Matrix
 - Auxiliary Archiver
 - Web Applications
 - Tools (Discovery Tool)
 - Online Help (allows you to access the Online Help by clicking F1 in the Server Admin)
- 9. If you chose a **Custom** installation, click the plus sign next to **Services** to display a list of installation choices.

Choose how each feature will be installed by selecting the icon to the left of the feature. For example, if you want to install all the services, click the icon beside **Services**, and click **This** feature, and all subfeatures, will be installed on the hard drive.

😸 Genetec Omnicast Server 4.8 - InstallShield Wizard	—
Custom Setup Select the program features you want installed.	4
Click on an icon in the list below to change how a feature is ins	talled.
Services Oirectory Directory Failover Coordinator X Directory Failover Coordinator X Archiver Gateway X Federation Server X Metadata Engine Virtual Matrix Virtual Matrix	Feature Description Contains the system services. This feature requires 197MB on your hard drive. It has 4 of 9 subfeatures selected requiring 359MB on your hard drive.
Install to: C:\Program Files\Genetec Omnicast Server 4.8\ InstallShield	
Help Space < Back	Next > Cancel

- 10. Click Next.
- 11. Specify the username and password that will be used by the Omnicast services to log on to Windows.

You have the choice to use the default username and password (OmnicastSvcUsr) or to specify your own. If you specify your own, the syntax is as follows:

- For a user that is a member of a domain: Domain\Username.
- For a local user: Computername\Username or Username.

The selected user must have the "Log on as a service" user right. A local user also needs to be a member of the Administrators group.

12. If you selected to install the **Directory Failover Coordinator** in the previous step, you will have to specify whether this computer is to be used as a **Primary Directory server** or a **Backup Directory server**, and click **Next**.

If you select **Backup Directory server**, you will need to indicate the name of the machine that the local Gateway should connect to, and whether it should connect to a Directory or another Gateway.

13. In the Database Server Selection window, do one of the following:

🗒 Genetec Omnicast Server 4.8 - InstallShield Wizard		×
Database Server Selection		
Choose the SQL database that best suits your needs.		
Install a new database server		
InstallShield will install a new Microsoft SQL Server Expre the system database server.	ress on this computer to serve as	
OMNICAST		
Ise an existing database server		
Select an existing Microsoft SQL Server to use with Gen	netec Omnicast Server 4.8.	
(local)\SQLEXPRESS	▼ B <u>r</u> owse]
InstallShield		
< <u>B</u> ack	Next > Cancel	

- If SQL database server is not installed on the computer, select Install a new database server. This option will install Microsoft® SQL Server 2008 R2 Express Edition on the computer and create a database instance. By default it's called Omnicast but the name can be changed if desired.
- If SQL database server is installed on the computer and you would like to use this database, select Use an existing SQL database server. In the Database Server list, select the existing SQL Server name. For example, you can type: *PCNAME\SQLEXPRESS, where PCNAME* is the name of the server computer where the Gateway will reside and SQLEXPRESS is the name of the database server instance. SQLEXPRESS is the default database name.

- If you are using an existing database server on a remote machine, it is important that the Username specified in step 11 has the rights to access that server.
- 14. Click Next.
- 15. In the *Firewall Rules* window, select the **Allow Genetec Omnicast Server 4.x to create necessary firewall rules for its applications** option.

Select this option to ensure that all installed Server applications and their default ports are added as exceptions to the firewall.

16. In the *WinPcap Installation* window, select the **Install WinPcap 4.1.2** option. This option allows you to capture diagnostic data for units and other services in Omnicast. For more information about creating a network packet capture, see "Network packet capture" and "Diagnose Network Connectivity" in the *Omnicast Administrator Guide*.

The WinPcap 4.1.2 Installation Wizard opens.

🕞 WinPcap 4.1.2 Setup		_	_ • •
Win Pcap	WinPcap 4.1.2 Installer Welcome to the WinPcap	- 4. 1. 2 Installation Wizard	
This product is	brought to you by	CACE	ŝ
Packet Captur	ing and Network	Analysis Solutio	ons
			Ŧ
Nullsoft Install System v2,46 -		Next >	Cancel

- 17. In the WinPcap Installation Wizard, follow the installation instructions.
- 18. In the *Installation options* window, select the **Automatically start the WinPcap driver at boot time** option, and click **Install**.
- 19. Click **Finish**, and continue with the Omnicast Server installation.
- 20. In the Omnicast InstallShield Wizard, click Install.

Note: You may get a message asking you to enable Telnet Client to have full access to the Watchdog console. This message is only a reminder. Click **OK** to continue with the installation, but make sure you enable Telnet Client after the installation is complete.

The Server Admin Configuration Wizard opens just before the installation completes.

Serv	er Admin Configuration	on Wizard
		Step #1: License installation
÷	License installation	License installation
	Configure services	
	Configure extensions	
	Configure Gateway settings	
	Configure connections to the Gateway	
	Restart services	
		Skip Cancel < Back Next >

21. In the Server Admin Configuration Wizard, activate your Omnicast license and configure the Server Administrator service.

You can choose to activate your license and configure the Server Admin at a later time, but you cannot access your system until your license is activated.

- To configure the Server Admin at a later time, click **Skip** until the Server Admin Configuration Wizard closes, and continue with step 22.
- To configure the Server Admin now, go to "Configure the Server Admin" on page 13.
- 22. Close the Server Admin.
- 23. In the InstallShield Wizard, click Finish to complete the installation.

All the services installed on this computer should appear under **System** in the entity tree shown in the left pane of the Server Admin.

IMPORTANT After you have configured all the entities in your system (users, cameras, sites, alarms, etc.), you should back up your system configuration database (DirectorySQL).

5.2.1 Configure the Server Admin

The Server Admin Configuration Wizard helps you to configure your license, network card settings for services and extensions, directory and gateway connections, and databases. This wizard appears the first time you access the Server Admin during your Omnicast installation. After that, you can access the wizard at any time from the *Tools* menu in the Server Admin.

IMPORTANT When you click **Next** on any of the steps, your changes are applied immediately, not at the end of the wizard. To skip a configuration step, click **Skip** on any one of the pages.

To configure the Server Admin:

- 1. Open the Server Admin Configuration Wizard.
 - If you are installing Omnicast Server, this wizard opens automatically.
 - If you have already installed Omnicast Server, click on Tools > Server Admin Configuration Wizard in the Server Admin.
- 2. In Step #1: License installation, do the following:
 - To activate your license after you are done configuring the Server Admin, click **configure** license once the wizard is completed, and click Next.
- 3. In Step # 2: Configure services, make sure all the installed services are using the same network card.

	Verifying the network card s	ettings for your services	
	10.100.6.61 - Microsoft Virtual Mag	hine Bus Network Adapter	
Configure services			
	Service	Network card	IP address
Configura	Archiver	Microsoft Virtual Machine Bus Network Ad	10.100.6.61
ovtansions	Auxiliary Archiver	Microsoft Virtual Machine Bus Network Ad	10.100.6.61
extensions	Directory	Microsoft Virtual Machine Bus Network Ad	10.100.6.61
	Directory Failover Coordinator	Microsoft Virtual Machine Bus Network Ad	10.100.6.61
	Federation	Microsoft Virtual Machine Bus Network Ad	10.100.6.61
Configure	Gateway	Microsoft Virtual Machine Bus Network Ad	10.100.6.61
Gateway	Metadata Engine	Microsoft Virtual Machine Bus Network Ad	10.100.6.61
settings	Restore Archiver	Microsoft Virtual Machine Bus Network Ad	10.100.6.61
	Virtual Matrix	Microsoft Virtual Machine Bus Network Ad	10.100.6.61
Configure			
connections to			
the Gateway			
Configure			
databases			

If all the services are already using the same network card, it will be shown in the **Network Card** field. To choose another network card, or if not all the services are using the same network card, select one from the **Network card** drop-down list, and click **Next**. 4. (Only if the Archiver is installed) In *Step #3: Configure extensions*, make sure all the installed extensions are using the same network card.

Note: This step is only available if your Omnicast license is activated, and you are accessing the Server Admin Configuration Wizard from the *Tools* menu.

If all the extensions are already using the same network card, it will be shown in the **Network card** field. To choose another network card, or if not all extensions are using the same network card, select one from the **Network card** drop-down list, and click **Next**.

- 5. (Only if the Gateway is installed) In Step #4: Configure Gateway settings, do the following:
 - a) Set the **Connection type** to **Directory** or **Gateway**.

The default connection type for the Gateway is **Directory**. The name of the current Directory/Gateway that the Gateway is connected to is displayed underneath.

b) Set the redirection type under **Default supported connection** to **Automatic detection**, **Unicast UDP**, **Multicast**, or **Disabled**.

The default redirection type is Automatic detection.

- 6. In *Step #5: Configure connections to the Gateway*, make sure all the installed services are using the same Gateway settings.
 - If not all services are using the same Gateway, select one from the Gateway drop-down list, and click Next.
- 7. In Step #6: Configure databases, do the following:

Note: This step is only available if you are accessing the Server Admin from the *Tools* menu, and if all the installed services are using the same database server.

Serv	er Admin Configurati	ion Wizard		_	_	_
		Step #6 : Configure d	atabases			
/		Verifying your database				
		(local)\SOLEXPRESS				
1		(
		Service	Data server	Database	Data server sta	Database status
		Archiver	(local)\SQLEXP	VideoArchiveS	Success	ОК
		Auxiliary Archiver	(local)\SQLEXP	AuxiliaryArchiv	Success	OK
/	Configure	Directory	(local)\SQLEXP	ReportingSQL	Success	OK
		Directory	(local)\SQLEXP	AlarmSQL	Success	OK
		Directory	(local)\SQLEXP	DirectorySQL2	Success	OK
		Metadata Engine	(local)\SQLEXP	ObjectStore	Success	ОК
/	Configure					
/						
	connections to					
	the Gateway					
	<i>c a</i>	Details				Diagnose
~	Configure					
	databases					
			Skip	Cancel	K K K K K K K K K K K K K K K K K K K	Next >
	Restart services					

a) In the **Data server** field, select a Data server.

Note: Changing this setting assigns the Data server to all services at once.

- b) To test the Data server connection, click the test 🕡 button.
- c) If the connection to the Data server is established, click the apply 🖶 button.

- d) To connect the services to the Data server, click **Diagnose**.
 - If the connection worked, the Data server status says Success, and the Database status says OK. Click Next.
 - If the services could not connect to the Data server, a detailed error message appears. For example, you are told if the database does not exist, or if the database version is not up to date, you will be asked if you would like to upgrade the database.
- e) To view the details about why the connection succeeded or failed, click **Details**.
- 8. In Step #7: Restart services, do the following:

Note: This step is only available if you are accessing the Server Admin from the *Tools* menu, because during the Server installation the Client applications are not installed yet.

- To restart all the installed services after the Server Admin Configuration Wizard is closed, select the **Restart services** option.
- 9. Click Finish.
- 10. If you selected the **configure license once the wizard is completed** option in step 2, go to "Activate your Omnicast license".
- 11. Close the Server Admin.

If you are still in the process of installing Omnicast Server, continue with step 23 in the Server installation procedure.

5.2.2 Activate your Omnicast license

If you log on to the Server Admin again after the installation and did not previously activate your license, there will be an error message in the System License tab that says "The license key is invalid".

Ø Genetec Omnicast Server Admi	in	L□×
System Action Tools Help		
09/06/2011 3:16:20 PM	CPU Video Start Stop Restart Undo Apply	mnicas
System Girectory Girectory Failover Coordinato Geteway Federation Archiver	Validation key: 🔚 🖬 💿 Activate license: 💽 💽 The license key is invalid	
- 💼 Restore Archiver - 📰 Metadata Engine - 🥎 Virtual Matrix	Directory options Archiver options	
< •		

From the License tab, there are two ways to activate your Omnicast license:

- Web activation (use this option if you have internet access)
- GTAP (use this option if you do not have internet access)

NOTE If you try to activate your license using either method and it is invalid, an error message appears with a description about why the activation failed. For example, you are told if your license is for a previous version of Omnicast. Or, if the validation key is incorrect, you are prompted to regenerate the validation key in the registry by pressing the **Regeneration** 2 button.

To activate your license with Web activation:

- 1. In the System entity License tab, click the Activate license from the Web 20 button.
- In the Web activation dialog box, enter your 18-digit Omnicast System ID and activation Password. These were provided by the Genetec Sales department at the time of your software purchase.

Web activation	×
Web activation	^
Please, identify yourself	
System ID: 440-660-742-835170984	
Password:	
ОК	
	×

3. If your system includes multiple servers, select the server you want to apply the license to.

- 4. Click **OK**. If your configuration is correct, a confirmation message appears.
- 5. Click **OK**. Your license information appears in the Server Admin.

To activate your license through GTAP:

See "Activating your Omnicast license through GTAP".

5.3 Omnicast 4.8 SR8 Client Installation

Follow this procedure if you are installing Omnicast Client for the first time on the machine.

- 1. Insert the Omnicast installation DVD in your computer's DVD drive. If the InstallShield Wizard does not appear, double-click *Setup.hta* in the Omnicast root directory.
- 2. Click Client installation.



3. Follow the on-screen instructions to install any missing prerequisite software, and click **Install**. Once the prerequisite software is installed, click **Next**.

Depending on what is installed, you may be prompted to reboot your system during the course of the installation. If a reboot is requested, you must do so to complete the installation.

- 4. Read and accept the License Agreement, and click Next.
- 5. Select the language Omnicast Client will use, and click **Next**. This does not affect the language of the InstallShield Wizard.

You can change the Omnicast software language at a later time using the *Language Tool*. See " Changing the software language" on page 21.

6. Select the default installation folder, and click **Next**. To choose a different installation folder, click **Change**.

Note: Regardless of where you choose to install your software, you need to have at least 2 GB of free space on your C: drive (or wherever \Windows is installed), otherwise the InstallShield will indicate that you do not have enough space.

- 7. In the Select Type window, select Typical or Custom installation, and click Next.
 - **Typical** Installs all client applications (Live Viewer, Archive Player, Config Tool, and all plugins). This option requires the most disk space.

- **Custom** Allows you to choose which program features you want installed. This option is recommended for advanced users. Select a program feature to see a brief description displayed on the right. The space required for the installation of each feature is also indicated. You can install the following features:
 - Config Tool
 - Live Viewer
 - Archive Player
 - All plugins
 - Tools (Macro Editor and Report Viewer)
 - Online Help (allows you to access the Online Help by clicking F1 in the Config Tool, Live Viewer, or Archive Player)

😼 Genetec Omnicast Client 4.8 - InstallShield Wizard	×			
Custom Setup Select the program features you want installed.				
Click on an icon in the list below to change how a feature is installed.				
Image: Applications Feature I Image: Archive Player Contains used to h administration advanced system. Image: Archive Player Image: Archive Player Image: Archive Player Image: Ar	Description a collection of tools lefp the system ator configure the d capabilities of the ure requires 1KB on d drive. It has 0 of 2			
This feature will be installed on local hard drive.				
This feature, and all subfeatures, will be installed on	local hard drive.			
Install to 📁 This feature will be installed when required.				
X This feature will not be available.				
Help Space < Back Next >	Cancel			

Note: To install the Report Viewer, a running SQL instance must be accessible from the workstation.

- 8. If you chose to install the Report Viewer, you will be prompted to select a **Database Server**.
- 9. Click Next.
- 10. In the *Firewall Rules* window, select **Allow Genetec Omnicast Client 4.x to create necessary firewall rules for its applications**.

Select this option to ensure that all installed Client applications are added as exceptions to the firewall, and can function properly.

11. Click Install.

A progress bar indicates the installation status.

12. If you chose to install the Archive Player and are using Windows 2008 R2, a message appears during the installation saying that you must install the Windows Desktop Experience feature to export video in ASF format. See "Install the Desktop Experience feature for Windows 2008 R2" on page 20.

👘 Genete	ec Omnicast Client 4.8 Installer Information	×
À	In order to export video to an ASF format, you'll need to install the Windows Desktop Experience feature. To do this, please refer to the Omnicast Installation And Upgrade Guide document.	
	QK	

- 13. Click OK.
- 14. When the installation is complete, click **Finish**.

5.3.1 Install the Desktop Experience feature for Windows 2008 R2

To export video to an ASF format on a Windows 2008 R2 system, you'll need to install the Windows Desktop Experience feature.

- 1. Choose Start > Administrative Tools > Server Manager.
- 2. In the Features Summary section, click Add features.
- 3. Select the **Desktop Experience** check box, and click **Next > Install**.

5.3.2 Install the Desktop Experience feature for Windows 2012 R2

To export video to an ASF format on a Windows 2012 R2 system, you'll need to install the Windows Desktop Experience feature.

- 1. Open Server Manager and then click on Add roles and features.
- 2. On the Before you begin page, click Next.
- 3. Select Role-based or feature-based installation as installation type and click Next.
- 4. Select the appropriate server, and click Next.
- 5. Skip the Select server roles page, by clicking Next.
- 6. On the Select features page, expand the User Interfaces and Infrastructure.
- 7. Select the **Desktop Experience** checkbox.
- 8. Click Add Features > Next.
- 9. On the **Confirmation page**, select **Restart destination server automatically if required** so the server restarts when the installation is complete.

6 Changing the software language

You may change the language used in the software at any time by running the Language Tool.

Note: Your Omnicast license must support a given language before you can use it. The availability of a language in the drop-down list does not necessarily mean you have the license to use it. See International Language Support" for information regarding the use of other languages.

To run the Language Tool:

 Click Start > All Programs > Genetec Omnicast 4.8 > Tools > Language Tool. Select the desired language, and click OK. When you restart the application, it will be in the new language you selected.

7 Upgrading from Previous Omnicast Versions

7.1 Supported Upgrade Paths

Omnicast 4.8 SR8 supports the following upgrade paths from previous versions of Omnicast.

- 4.6 (all versions) to 4.8 SR8
- 4.7 (all versions) to 4.8 SR8
- 4.8 (all versions) to 4.8 SR8

7.2 Before you upgrade

Read the information in this section before upgrading Omnicast.

There is a new licensing procedure that started with Omnicast version 4.5 GA. Any licenses obtained for Omnicast versions prior to 4.5 GA will not work with Omnicast 4.8 SR8. Contact Genetec Technical Support and allow them a minimum of one business day to upgrade your license. Please schedule your upgrade accordingly.

Before upgrading the server, do the following:

- 1. Click Start > Control Panel > Administrative tools > Services.
- 2. Stop all Omnicast services from services.msc.
- 3. Exit and close the Watchdog Tray application.
- 4. Back up the Omnicast server registry keys and all Omnicast databases. For more information, see "Backup Tool" in the *Omnicast Administrator Guide*.

If you are not using the default local system user OmnicastSvcUsr to run your services, please have the logon information ready.

5. Close all Omnicast applications (Config Tool, Server Admin, Live Viewer, Archive Player).

7.3 Upgrading from Omnicast 4.x to 4.8 SR8

The following information explains how to upgrade from a previous Omnicast version to 4.8 SR8. **Note:** Administrator privileges are required to perform an upgrade.

7.3.1 Upgrading Server

You cannot have two versions of the Omnicast Server running on the same computer.

- 1. If you install Omnicast 4.8 SR8 Server on a computer where an older version exists, a message appears asking you if you want to install the latest version. Click **OK**.
- 2. In the **Server Installation Welcome** window, click **Next** to continue with the upgrade process, or click **Cancel** to stop the installation.
- 3. Follow the "Omnicast 4.8 SR8 Server Installation" procedure on page 8.

Note: When the Server Admin Configuration Wizard opens, you do not have to re-configure your settings. To skip the steps, click **Skip**, and then close the Server Admin.

The older version of the Omnicast Server will be removed during the upgrade process.

7.3.2 Upgrading Plugins

Starting with Omnicast 4.4 there are two types of plugins, version dependent plugins and version independent plugins:

- Version dependent plugins. Version dependent plugins have to be upgraded to plugin version 4.8.
- Version independent plugins. You do not have to upgrade version independent plugins. Version independent plugins start at version 2.0. Version independent plugins can be upgraded to the latest version during the Omnicast 4.7 release cycle, and will still be compatible with Omnicast 4.8.

The latest plugin packages can be found on GTAP, at http://gtap.genetec.com. You will need a user name and password to log on to GTAP.

To upgrade an Omnicast plugin:

This section lists some common upgrade steps for all plugins. For more information about upgrade steps for individual plugins, refer to the plugin's own user guide. For a list of plugins available for this release and their corresponding user guide, see "About Omnicast plugin manuals" in any Omnicast 4.8 User Guide.

- 1. If your plugin uses a custom XML configuration file (called the "Event mapping file"), make a copy of the file and keep it in a safe place.
- 2. If you are installing a Live Viewer plugin, close the Live Viewer on the local computer.
- 3. Uninstall the older version of the plugin and delete its instances in the Config Tool.
- 4. Install the new plugin.
- 5. Overwrite the newly installed XML file with the one you saved elsewhere. Typically, this XML file is located by default at
 - C:\Program Files\Omnicast Plugins 4.8 (for version dependent plugins).

- C:\Program Files\Omnicast Plugins\<plugin name>. (for version independent plugins).
- 6. Do one of the following:
 - If you installed an Metadata Engine plugin, reboot the Metadata Engine.
 - If you installed a Live Viewer plugin or a Virtual Matrix plugin, reboot the Virtual Matrix.
- 7. Open the Config Tool, select the instance of the plugin you just upgraded, and change the path of the event mapping file so it points to the installation folder of the new plugin.

Note: This step is not necessary when upgrading from one version independent plugin to another since the installer places them in the same folder.

7.3.3 Upgrading Client

Omnicast 4.8 SR8 can be installed on the same machine as earlier versions of Omnicast clients.

To upgrade the Omnicast client:

- 1. When installing Omnicast Client on a computer where an earlier version of Omnicast Client exists, a message will appear indicating that the new version of Omnicast will be installed in parallel with the older version.
- 2. Click OK.
- 3. In the **Client Installation Welcome** window, click **Next** to install the current client version in parallel with the earlier version, or click **Cancel** to stop the installation.
- 4. Follow the "Omnicast 4.8 SR8 Client Installation" procedure on page 18.

8 Performing a Silent Install of Omnicast

A silent installation is an automated way of installing software where you do not have to answer any questions, or respond to any prompts during the course of the installation. You can perform a silent installation of Omnicast by entering a series of commands on the command line. You can perform silent installs of the Omnicast Server and the Omnicast Client, and select which features to install for each application. In each case, the application is installed without providing any visual feedback, so all dialog boxes containing questions and prompts are skipped. You will not be asked to enter a license during the course of the Server install; therefore, you will have to enter it after installation.

Note: In circumstances where something does prevent the silent installation from completing, there may be some instructions provided to the user if action is required.

You can enter the following types of information into the command line to customize the silent installation:

- Installation language
- Application language
- Client or Server installation path
- Client or Server features to install
- Username and password for running the services
- Database server names

8.1 Installing and Upgrading from Previous Software Versions

You can perform a silent upgrade from previous software versions of Omnicast (4.6, 4.7, and 4.8) to Omnicast 4.8 SR8, using the same commands as those described in this document for a silent installation.

- Just like a silent installation, a silent upgrade displays very few prompts or visual feedback.
- Upgrading the Server removes the older version of the Server software and installs the new version of the Server software, since only one version can be installed on the same computer.
- Upgrading the Client installs the new version of the Client alongside other versions of the Client since there can be multiple versions of the Client software on the same computer. You can remove old versions of the Client manually if they are no longer needed.

8.2 Silent Installation Mechanism

Omnicast is distributed using Windows Installer package files (MSI) and can be installed via an automated process that runs in the background.

Properties that are normally entered by the user during a regular install are entered in the command line and passed directly to **msiexec.exe**.

msiexec.exe is the application responsible for installing MSI files. This application is typically located at *C:\WINDOWS\system32*.

Note: msiexec.exe is invoked automatically by the commands explained in this document so its path is given only for reference.

You can verify the progress of the silent installation, if necessary, by monitoring **msiexec.exe** in the Windows Task Manager's **Processes** tab.

When you perform a silent installation, you only have to run the setup.exe in the folder of the application you want to install (/Client or /Server), along with the necessary arguments. The setup.exe will then coordinate the setup of the application using its .msi file, passing commands to msiexec.exe automatically.

8.3 Before you begin

Please consider the following before performing a silent install:

- It is recommended to install any missing prerequisites before performing a silent install. If you don't they will be automatically installed, however, your machine may restart without warning and the silent install will be interrupted. You will have to restart the silent installation by invoking the same command line you originally typed-in to launch the silent installation.
- The Genetec Omnicast 4.x version dependent SDK (\OMNICAST 4.X VD SDK\VDSDK.EXE) must be manually installed if necessary.
- If you are installing the Omnicast Server, you must make sure that a database server is available for Omnicast to connect to. If there is none, you can install Microsoft® SQL Server 2008 R2 Express Edition on your server PC before performing the silent installation on any PCs on your system. The Microsoft® SQL Server 2008 R2 Express Edition InstallShield is found in the folder \SERVER\SQLEXPRESS of the Omnicast distribution DVD.

The following are also required for particular installation scenarios:

- When performing a full installation using ADDLOCAL=ALL, Internet Information Services (IIS) must be installed.
- You can select an existing Windows user account for Omnicast's services to run under instead
 of a default user account which Omnicast will add. In this case, you must enter the username
 and password of a Windows user account that has the "log on as service" user right and that
 is part of the Administrators group.
- If the Windows account you are using does not have Administrator privileges, the installation will fail.

When you do not enter these values explicitly, defaults are used which are automatically given the correct user rights and privileges. Refer to SERVICEUSERNAME and SERVICEPASSWORD on page 31.

8.4 Using the Command Line

To open the command line, click **Start > All programs > Run** and type **cmd** in the **Run** dialog box.

Run	? 🛛
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	cmd 💌
	OK Cancel Browse

Typically, you point the command line to the folder where the setup.exe and .msi files for the application you want to silently install are located. For more information, see "Silent Installation Mechanism" on page 24.

For example, if you placed the folder *Client* (containing all Omnicast Client files) in the root of the *C*:\ drive, and you want to perform a silent installation of the Omnicast Client, enter the following at the command prompt:

c: (to switch to the root of the C drive) then type **cd Client**. The command prompt should now be pointing to the directory containing the setup.exe file of the Client: **C:\Client>**.

Note A command line is limited to a maximum of 850 characters. For more information, see "Command Line Character Limit" on page 35.

Using advanced installation methods, you can reference the full path of the **setup.exe** from the command line in quotes, for example "*C*:*Omnicast**Genetec**Client*\setup.exe" (do not include any spaces in the path). As well as running the silent installation commands from a batch file.

9 Silent Installation Command Line Syntax

9.1 Basic Syntax

To perform the basic syntax for a silent installation of Omnicast:

• At the command prompt, pointing to a folder containing the setup.exe of the application you want to install, enter the following:

C:\> setup.exe /L[Installation Language] /s /v"/qn INSTALLDIR=[InstallationPath]"

Where [Installation Language] is the language the installer uses, and [InstallationPath] is the path where the software should be installed.

9.2 Setup Arguments

The setup arguments determine the behavior of setup.exe. The following arguments are mandatory. Optional installation properties for the /v argument – in italics above – are covered later in the document.

Argument	Function		
<i>I</i> L	 Sets the language of the installer. Note: While a silent installation that properly completes will provide visual feedback, if the silent installation cannot complete there may be some visual feedback. In this case, the language set by the /L argunused. This argument is not meant to set the language the application uses it is installed; refer to <i>LANGID</i> on page 32 for how to do this. However, if no value for <i>LANGID</i> is given, then the language of the installation – using the value for <i>/L</i> – does determine the operating language of the application. The two following installation languages are available: 		
	Language Corresponding ID		
	English	1033	
	French (Canada)	3084	
	Warning : Do not put any spaces between /L and the language context Example: /L1033		
ls	Sets the setup.exe to run sile displayed.	ently so no questions or prompts are	
/v" <properties>"</properties>	Passes any properties betwe executable Warning: Do not put any spa	en the quotes directly to the msiexec.exe ces between /v and the properties in quotes.	

9.3 Installer Arguments

Installer arguments are entered in double-quotes immediately following the setup argument *Iv*. They tell the installer (**msiexec.exe**) how to behave and what to install.

Argument	Function
/qn	Sets the InstallShield to run silently so no questions or prompts are displayed.
/I*v [path and name of log]	Produces a log file containing all information in verbose format. Enter a path, and the name you want to give to the log file, following the argument
	Note: /I*v is an argument which appears within the double-quotes of the /v argument, along with the optional installation properties described below. Example: /I*v c:\install.log

10 Silent Install Properties

The following are optional properties which can be entered in the double-quotes immediately following the *Iv* argument. These properties are sent to **msiexec.exe** to determine what features are installed and how. The property names and their values are not case sensitive. All properties are optional. Defaults are given where applicable.

General Property	Description
INSTALLDIR	The path where the software is installed. If there is a space in the path, it should be wrapped in quotes. Each of the quotes must be preceded by a backslash (\). Example: INSTALLDIR=\"C:\Program Files\Genetec Omnicast Server 4.8\"

General Property	Description			
ADDLOCAL	 Specifies which Server and Client features to install. Note the following: If you want to perform a Complete installation enter the following: ADDLOCAL=ALL If you want to select specific features to install, first enter <i>Resources</i>. For example, when installing <i>Help</i>, <i>LiveViewer</i>, and <i>ArchivePlayer</i>, you would first enter <i>Resources</i>. The tables below are used if you want to select specific features to install. Each feature is followed by the possible values you can enter for it, whether or not a value for the feature must be entered, and whether you can only enter one value for the feature, or can enter several. When entering multiple values separate them with commas. 			
	Feature	Possible values	Details	
	Resources	Resources The Resources value enables the localization functionality in the installed software.	Mandatory, except when entering <i>ADDLOCAL=ALL</i>	
	Web	Web	Optional	
			One value	
	Tools	Tools	Optional	
			One value	
	Help	Help	Optional	
			One value	

General Property	Description			
ADDLOCAL	Feature	Possible values	Details	
	Services	Directory Archiver FOS RestoreArchiver Gateway MetadataEngine	Optional	
		Federation VirtualMatrix AuxiliaryArchiver	One or more values	
	Federation versions	Fed35 Fed42 Fed43 Fed44 Fed45 Fed46 Fed47 Fed47 Fed48 Entering Federation – listed in Services above – installs the Omnicast Federation Server. Then you must indicate the Omnicast versions that can be federated by entering one or more of the properties listed. Example: Enter Fed45 to be able to federate Omnicast 4.5 systems. Note: If you enter a federation version without entering the Federation property, the Federation Server is installed anyhow.	One or more values	
	Example: ADDLOCAL=Res	sources,Help,Directory,Gatev	vay,Federation,Fed46	;

General Property	Description				
ADDLOCAL	Omnicast Client for	Omnicast Client features:			
	Feature	Possible values	Details		
	Resources	Resources The Resources value enables the localization functionality in the installed software.	Mandatory, except when entering <i>ADDLOCAL=ALL</i>		
	Applications	LiveViewer ArchivePlayer ConfigTool Note: When you specify the ArchivePlayer feature, it also allows you to create a copy of the web-enabled standalone Archive Player to use alongside video exported from the Archive Player.	Optional		
			One or more values		
	Plugins	RemoteLiveViewer	Optional		
			One or more values		
	Tools	MacroEditor ReportViewer	Optional		
			One or more values		
	Help	Help	Optional		
			One value		
	Example: <i>ADDLC</i>	OCAL=Resources,LiveViewer	,ArchivePlayer,Help		

Server Property	Description
ISPRIMARYFOS	Indicates if the Directory is primary or secondary in a DFC setup. The property can be set to 1 to configure the Directory as the primary Directory or 0 to set it as a secondary Directory. When set to 0, the Directory service will be set to manual and will not be started at the end of the installation. The default value is 1. Example: <i>ISPRIMARYFOS=0</i>
PRIMARYSYSTEM	Specifies the primary Directory name and port (to be used with ISPRIMARYFOS) to which the Gateway will try to connect to. Only relevant if <i>ISPRIMARYFOS=0</i> .
	Exemple:
	Example:
GTWCONNECTEDTO	Specifies whether the Gateway will connect to a Directory or another Gateway. You connect a Gateway to another Gateway residing on a different network when you want to receive multicast streams from the remote network. Only relevant if <i>ISPRIMARYFOS=0</i> . It can be set to one of two values: <i>DIRECTORY</i> or <i>GATEWAY</i> .
	The default value is DIRECTORY .
	Example: GTWCONNECTEDTO=GATEWAY
IS_SQLSERVER_SERVER	Specifies the database server name for all services.
	Note: Use this property to set all servers to a specific server name. If you specify database server name's for individual services, these supersede the value of this property – see below.
	Example: IS_SQLSERVER_SERVER=(local)\OMNICAST
SERVICEUSERNAME	Specifies the username that services will use. Note: Usernames and corresponding passwords must first be created with the right credentials prior to using these properties. They should be administrators and have the "log on as a service" user right. Example: SERVICEUSERNAME=.\Genetec
SERVICEPASSWORD	Specifies the password that services will use.
	Note: Usernames and corresponding passwords must first be created with the right credentials prior to using these properties. They should be administrators and have the "log on as a service" user right.
	Example: SERVICEPASSWORD=anypassword
ENTITY_SERVER	Directory database server (supersedes IS_SQLSERVER_SERVER)
ENTITY_DATABASE	Directory database (entity configuration)
ALARM_SERVER	Directory alarm database server (supersedes <pre>////////////////////////////////////</pre>
ALARM_DATABASE	Directory alarm database
REPORTING_SERVER	Directory reporting database server (supersedes IS_SQLSERVER_SERVER)

Server Property	Description		
REPORTING_DATABASE	Directory reporting database		
ARCHIVING_SERVER	Archiver database server (supersedes IS_SQLSERVER_SERVER)		
ARCHIVING_DATABASE	Archiver database)	
AUXILIARY_SERVER	Auxiliary Archiver	database server (supersedes _ SERVER)	
AUXILIARY_DATABASE	Auxiliary Archiver	database	
RESTORE_SERVER	Restore Archiver of IS_SQLSERVER	database server (supersedes _ SERVER)	
OBJECT_SERVER	Metadata databas	e server (supersedes IS_SQL	SERVER_SERVER)
OBJECT_DATABASE	Metadata databas	se	
LANGID	Language to be used by Omnicast Server and Client applications and set in <i>MachineSettings.xml</i> . The <i>LANGID</i> property is different than the <i>IL</i> argument. <i>LANGID</i> determines what language is used for all text used throughout the Omnicast application, and is equivalent to setting the application language using the Language Tool, available from the Windows Start menu, at Genetec Omnicast 4.x > Tools > Language Tool . The <i>IL</i> argument is only used to determine the language of the InstallShield, and has no effect on the operating language of the application when <i>LANGID</i> is used. See "Basic Syntax" on page 26 for more on the <i>IL</i> argument. The <i>LANGID</i> property can either be set with a number corresponding to the language ID, or the language name as indicated in the name of the DLL file. If the language entered cannot be found then English is used. If no language is specified, Omnicast uses the same language as the installation (as set by the <i>IL</i> argument).		lient applications and set s different than the /L s used for all text used valent to setting the available from the > Tools > Language anguage of the language of the yntax" on page 26 for umber corresponding to ated in the name of the d then English is used. If ne language as the eir corresponding
	language ID (LAN	GID).	
	Language name	Corresponding ID	
	Arabic	1025	
	Czech	1029	
	Dutch	1043	
	English	1033	
	French	3084	
	German	1031	
	Italian 1040		

Server Property		Description	
	Japanese	1041	
LANGID	Korean	1042	
	Persian	1065	
	Polish	1045	
	Portuguese	2070	
	Russian	1049	
	Simplified Chinese	2052	
	Slovak	1051	
	Spanish	1034	
	Thai	1054	
	Traditional Chinese	3076	
	Example: For Ital LANGID=1040 LANGID=Italian	ian you can use either value be	elow.
REBOOT	Used to force or suppress a reboot after the Server installation completes. In general, rebooting the system after installation is not necessary. However, rebooting may be required in some circumstances. For example, when installing on a clean machine some prerequisites may be installed which require a reboot		
	Possible values	Result	
	F	Forces a reboot when your ir is complete.	stallation
	S	Suppresses any reboot exce caused by a ForceReboot ac above.	ot one tion – see
	R	Suppresses any reboot caus Windows Installer actions.	ed by
	Example: REBO	OOT= S	

11 Silent Install Examples

The following examples illustrate performing silent installs under different scenarios.

Note: You can copy and paste these examples into the command line to serve as a basis for your installations.

11.1 Server Silent Install Examples

The following are command line examples for a server installation.

Example 1:

Setup.exe /L1033 /s /v"/qn ADDLOCAL= Resources, Directory, Archiver INSTALLDIR=C:\WewServer SERVICEUSERNAME=.\toto SERVICEPASSWORD=password ENTITY_SERVER=(local)\OMNICAST ENTITY_DATABASE=DirectorySQL REBOOT=S"

The Archiver will be installed with a specific username and password for the service to run under. Files are installed to a new folder whose path is *C:WewServer*; a directory server and database names are specified and no reboot will occur. The installation will be performed silently; the language the installer uses will be English.

Example 2:

Setup.exe /L1033 /s /v"/qn INSTALLDIR=\"C:\Program Files\Genetec Omnicast Server 4.8\" ADDLOCAL=Resources,Directory,Archiver,Gateway,VirtualMatrix,Help,Federation,Fed45,Fed46,Fed4 7"

The Directory, Archiver, Gateway, Virtual Matrix and help files are installed silently. As well, the Federation Server is installed, and Omnicast systems that are version 4.5, 4.6, and 4.7 can be federated. The language the installer uses will be English.

Example 3:

Setup.exe /L3084 /s /v"/qn"

A Typical installation will be performed silently. The language the installer uses will be French.

Example 4:

Setup.exe /L1033 /s /v"/qn ADDLOCAL=ALL"

A Complete installation will be performed silently. The language the installer uses will be English.

Example 5:

Setup.exe /L1033 /s /v"/qn ADDLOCAL=ALL IS_SQLSERVER_SERVER=(local)\SQL2005 /l*v C:\Serverlog.log"

A Complete Installation will be performed silently. The database server name used by all services will be set using the IS_SQLSERVER_SERVER value. A log file is created, and placed in the root of the C: drive. The language the installer uses will be English.

Example 6:

Setup.exe /L1033 /s /v"/qn ADDLOCAL=ALL LANGID=1041"

A Complete Installation will be performed silently. Omnicast will use language 1041 (Japanese). The language the installer uses will be English.

11.2 Client Silent Install Examples

The following are command line examples for a Client installation. **Example 1:**

Setup.exe /L1033 /s /v"/qn INSTALLDIR=C:\GENETEC_PATH ADDLOCAL=Resources,Help,LiveViewer,ArchivePlayer"

The Live Viewer, Archive Player and the help files will be installed silently; the language the installer uses will be English.

Example 2:

Setup.exe /L3084 /s /v"/qn INSTALLDIR=\"C:\Program Files\Genetec Omnicast Client 4.8\" ADDLOCAL=Resources,Help,LiveViewer,ArchivePlayer,ConfigTool"

The Live Viewer, the Config Tool, the Archive Player, and the help files will be installed silently; the language the installer uses will be French.

Example 3:

Setup.exe /L3084 /s /v"/qn"

This is equivalent to a Typical installation performed silently; the language the installer uses will be French.

Example 4:

Setup.exe /L1033 /s /v"/qn ADDLOCAL=ALL"

This is equivalent to a Complete installation performed silently; the language the installer uses will be English.

Example 5:

Setup.exe /L1033 /s /v"/qn ADDLOCAL=ALL LANGID=1029"

This is equivalent to a Complete installation performed silently; the language the installer uses will be English. Omnicast *(client applications)* will use language 1029 (Czech).

12 Silent Installation Limitations

12.1 Command Line Character Limit

The maximum command line length is 850 characters. A useful workaround to shorten the overall command line length is to reduce the install path length entered for the *INSTALLDIR* property. You can try copying the installation files onto a local drive which can result in a much shorter path than referencing them remotely.

You can also map a network drive to the path of the **setup.exe** file as explained below.

Use the **net use** command to map or disconnect a drive from the command line.

You can use the **net use** command in batch files and scripts.

To map a network drive:

- 1. Click **Start**, and then click **Run**.
- 2. In the **Open** box, type **cmd**.
- 3. Type **net use x: \\computer name\share name**, where x: is the drive letter you want to assign to the shared resource.

To disconnect a mapped drive:

- 1. Click **Start**, and then click **Run**.
- 2. In the **Open** box, type **cmd**.
- 3. Type **net use x: /delete**, where *x:* is the drive letter of the shared resource.

For the source of these procedures, and for more information, see http://support.microsoft.com/?scid=kb%3Ben-us%3B308582&x=1&y=11.