

Security Center Installation and Upgrade Guide 5.12.2.0

[Click here for the most recent version of this document.](#)

Document last updated: August 8, 2024



[Legal notices](#)

©2024 Genetec Inc. All rights reserved.

Genetec Inc. distributes this document with software that includes an end-user license agreement and is furnished under license and may be used only in accordance with the terms of the license agreement. The contents of this document are protected under copyright law.

The contents of this guide are furnished for informational use only and are subject to change without notice. Genetec Inc. assumes no responsibility or liability for any errors or inaccuracies that may appear in the informational content contained in this guide.

This publication may not be copied, modified, or reproduced in any form or for any purpose, nor can any derivative works be created therefrom without Genetec Inc.'s prior written consent.

Genetec Inc. reserves the right to revise and improve its products as it sees fit. This document describes the state of a product at the time of document's last revision, and may not reflect the product at all times in the future.

In no event shall Genetec Inc. be liable to any person or entity with respect to any loss or damage that is incidental to or consequential upon the instructions found in this document or the computer software and hardware products described herein.

Genetec™, AutoVu™, AutoVu MLC™, Citywise™, Cloud Link Roadrunner™, Community Connect™, Curb Sense™, Federation™, Flexreader™, Genetec Airport Sense™, Genetec Citigraf™, Genetec Clearance™, Genetec ClearID™, Genetec Cloudlink™, Genetec Mission Control™, Genetec Motoscan™, Genetec Patroller™, Genetec Retail Sense™, Genetec Traffic Sense™, KiwiVision™, KiwiSecurity™, Omnicast™, Privacy Protector™, Sipelia™, Stratocast™, Streamvault™, Streamvault Edge™, Synergis™, Valcri™, their respective logos, as well as the Mobius Strip Logo are trademarks of Genetec Inc., and may be registered or pending registration in several jurisdictions.

Other trademarks used in this document may be trademarks of the manufacturers or vendors of the respective products.

Patent pending. Genetec™ Security Center, Omnicast™, AutoVu™, Stratocast™, Genetec Citigraf™, Genetec Clearance™, and other Genetec™ products are the subject of pending patent applications, and may be the subject of issued patents, in the United States and in other jurisdictions worldwide.

All specifications are subject to change without notice.

Document information

Document title: Security Center Installation and Upgrade Guide 5.12.2.0

Original document number: EN.500.002-V5.12.2.0(1)

Document number: EN.500.002-V5.12.2.0(1)

Document update date: August 8, 2024

You can send your comments, corrections, and suggestions about this guide to documentation@genetec.com.



About this guide

This guide explains how to install and upgrade Security Center components.

Notes and notices

The following notes and notices might appear in this guide:

- Tip: Suggests how to apply the information in a topic or step.
 - Note: Explains a special case or expands on an important point.
 - Important: Points out critical information concerning a topic or step.
 - Caution: Indicates that an action or step can cause loss of data, security problems, or performance issues.
 - Warning: Indicates that an action or step can result in physical harm, or cause damage to hardware.
- IMPORTANT: Content in this guide that references information found on third-party websites was accurate at the time of publication, however, this information is subject to change without prior notice from Genetec Inc.



Contents

Preface

Legal notices

.....
ii
About this guide
.....
iii

Chapter 1: Installing Security Center
Pre-installation checklist for Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

2

Security Center 5.12.2.0
installation prerequisites

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

4

Granting SQL Server permissions

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

4

Security Center installation packages

- .
- .

5

Reducing the package size for client installations

7

Installing Security Center

.....
9

Ports used by core applications in Security Center

9

Ports used by AutoVu applications in Security Center

•
•
•
•

- .
- .
- .
- .
- .
- .
- .

14

Ports used by Omnicast applications in Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

17

Ports used by KiwiVision modules in Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

25

Ports used by Synergis applications in Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

28

Ports used by intrusion-detection applications in Security Center

- .
- .
- .
- .

- .
- .
- .
- .

30

Ports used by Sipelia modules in Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

30

Installing SQL Server independently of Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

34

Installing the Security Center main server

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

40

Activating Security Center license using the web

- .

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

54

Activating Security Center license manually

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

57

Installing Security Center expansion servers

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

62

Connecting expansion servers to the main server

- .
- .
- .
- .

-
-
-
-
-
-

75

Installing Security Center client software

.....

79

Modifying the installed Security Center components

•
•
•
•
•
•
•
•
•
•
•
•

83

Completing the installation process

•
•
•
•
•
•
•
•
•
•

85

• • • • •

Chapter 2: Upgrading to Security Center 5.12

[illegible]

•
•
•
•
•
•
•
•

[illegible]

93

Pre-upgrade checklist for upgrading from an earlier major version of Security Center

- .
- .
- .
- .

94

Backward compatibility requirements for Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

95

Backing up databases

.....

101

Backing up the Directory database

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

101

Backing up role databases

.....

102

Upgrading Security Center 5.9, 5.10, or 5.11 to 5.12

- .
- .
- .
- .
- .
- .
- .

.
.
.
.
.
.

104

Upgrading Security Center from 5.6, 5.7, or 5.8 to 5.12

.
.
.
.
.
.
.
.
.
.
.
.
.
.

105

Removing Omnicast Federation before upgrading Security Center

.
.
.
.
.
.
.
.
.

106

Upgrading Directory failover systems from an earlier major version

.
.
.
.
.
.
.
.
.
.

107

Reactivating Security Center license for Directory failover systems

.
.
.
.
.
.
.
.

109

What Security Center client features are available when the Directory service is offline?

- .
- .
- .
- .

115

Upgrading the Security Center main server

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

116

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading expansion servers in Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

124

Upgrading Security Center Client

- .
- .
- .

.
. .
. .
. .
. .
. .
. .
. .
. .
. .
. .
128

Upgrading the Security Center Directory database

.
. .
. .
. .
. .
. .
. .
. .
. .
. .
. .
129

Shrinking Security Center databases after an upgrade

.
. .
. .
. .
. .
. .
. .
. .
. .
130

Upgrading Security Center with Global Cardholder Synchronizer roles

.
. .
. .
. .
.

- .
- .
- .

132

Chapter 3: Automating Security Center installation

Silent installation of Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

134

Preparing to perform a silent installation

- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .
- .

135

Silent installation options for Security Center

- .
- .
- .
- .
- .
- .
- .
- .
- .

-
-
-
-
-
-
-
-
-

.
.
147

Chapter 4: Troubleshooting

Disabling the SQL Server telemetry service manually

.
.
.
.
.
.
.
.
.
.
.
.
.
149

Restoring missing MSI files in Windows cache

.
.
.
.
.
.
.
.
.
.
.
.
.
.
150

Cameras stop working after installing Security Center with the default security options

.
.
.
.

155 Error when installing Microsoft .NET Framework, Return Code: 0x800f081f

.
.
.
.
.

.

156

Video stability and performance issues

.

.

.

.

.

.

.

.

.

.

.

.

.

.

.

157

Files remain blocked after unblocking them manually

.

.

.

.

.

.

.

.

.

.

.

158

One or more services failed to install

.

.

.

.

.

.

.

.

.

.

.

.

.

.

.

159

Exported PDF reports in Japanese or Chinese contain invalid characters when running

a different OS
language.....
161
Omnicast Federation role disabled after upgrade
.
162

Glossary.....
163

Where to find product information
.
205
Technical support
.....
206



Installing Security Center

This section includes the following topics:

- "Pre-installation checklist for Security Center" on page 2
- "Installing Security Center" on page 9
- "Installing SQL Server independently of Security Center" on page 34
- "Installing the Security Center main server" on page 40
- "Activating Security Center license using the web" on page 54
- "Activating Security Center license manually" on page 57
- "Installing Security Center expansion servers" on page 62
- "Installing Security Center client software" on page 79
- "Modifying the installed Security Center components" on page 83
- "Completing the installation process" on page 85
- "Uninstalling Security Center" on page 88

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Pre-installation checklist for Security Center

To make sure that your Security Center installation goes smoothly, you must perform a series of preconfiguration steps.

CAUTION: Do not use the image of a configured machine to install Security Center Server on similar machines. Security Center installer creates unique IDs when it runs for the first time on a machine. These IDs are stored in configuration files and the Directory database. If these IDs are duplicated, it causes conflicts with the entities in the system that share the identifiers. This might make the system unusable.

Step

Task

Additional information

Review your system compatibility

1

Read the release notes for any known issues, Security Center Release Notes limitations, and other information about the release.

2

Review the system requirements to ensure Security Center System Requirements Guide that the minimum hardware (servers and workstations) and software requirements (Windows, web browser, and so on) are met.

3

Read the installation prerequisites for your Security Center 5.12.2.0 installation prerequisites release.

Security Center Installer automatically verifies and installs the software prerequisites on your system, but it's a good practice to know what they are beforehand.

4
Read the best practices for configuring Windows Best practices for configuring Windows Firewall to work with Security Center. To ensure the for Security Center optimal performance of your system, you must follow these recommendations after installing Security Center

Review your system components

5
Security Center isn't a life safety platform. If you intend to integrate any life safety component with your Security Center instance, you must follow all applicable laws and regulations, including any industry-specific codes. Ensure that your deployment and use of Security Center and any such life safety component complies with the rules and standards applicable in your jurisdiction, environment, and industry. Consult professionals in life safety compliance as required.

6
Create the list of the computers that are part of your new system, and decide what software components need to be installed on each.

IMPORTANT: Server names must be 15 characters or fewer. Security Center truncates all server names longer than 15 characters, causing errors when the system tries to access those servers.

Your system requires the following components:

- Security Center Server (main or expansion server)
 - Security Center Client (Config Tool, Security Desk, or both)
 - SQL Server (Express, Standard, or Enterprise edition)
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0 EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Step

Task

Additional information

Verify your network connections

7

Verify the network connections between your
Make sure that the ports required by Security
servers, workstations, and units.
Center are open and redirected for firewall and
NAT purposes.

8

Verify the unicast and multicast network
connections and settings.

Verify your user permissions

9

Make sure you have administrative privileges.
If not, run the installation setup.exe as
administrator.
You might need to be a Microsoft Windows
Domain administrator to access databases and
storage on the machines. Check with your IT
administrator.

10

Grant the service users all necessary SQL Server permissions.

Granting SQL Server permissions on page 4

Set up other software as needed

11

If you're implementing role failover or VSS operation, install SQL Server yourself.

Installing SQL Server independently of Security Center on page 34

Prepare your installation package

Security Center doesn't modify your network infrastructure or how it works. Multicast works with Security Center by default, as long as the network supports the necessary load. If multicast is the only protocol configured, Security Center can't switch to a different protocol if multicast is blocked, and video can't be recorded.

12

Download the Security Center installation

-

Security Center installation packages on page package.

5.

-

If you want to install only client applications, you can ease the download and distribution of Security Center to your remote sites by reducing the size of the installation package.

13

Unblock any blocked files.

-

After downloading the Security Center installation package, compressed files might need to be unblocked before their contents are extracted.

-

If you aren't sure how to do this, search for

"unblock downloaded files" on the web.

14

Have your system ID and password on hand to
Your System ID and password are found in the
activate your license on the main server.
Security Center License Information document.
Genetec™ Inside Sales or Genetec Customer
Service sends you this document when you
purchase the product.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

StepTaskAdditional information

15

If the SilentCleanup task of the Windows
DiskCleanup utility is running in the background,
disable it temporarily. This task might affect the
Security Center installer files if the computer is
left idle while the installer is running.
To disable SilentCleanup, open the Windows Task
Scheduler, then click Microsoft > Windows >
DiskCleanup > SilentCleanup > Disable.

16

Install Security Center.
Installing Security Center on page 9

Security Center 5.12.2.0 installation prerequisites

The prerequisites for a successful Security Center installation are found in the
Security Center installation
package, in the SC Packages folder, in separate subfolders.

32-bit
Client
32-bit
Server
64-bit
Client
64-bit
Server

ArcGIS Runtime 100

✓

✓

✓

✓

Microsoft .NET Core 6.0.31 - Windows Server Hosting

✓

✓

Microsoft .NET Core 8.0.5 - Windows Server Hosting

✓

✓

Microsoft .NET Framework 4.8 Full

✓

✓

✓

✓

Microsoft CCR and DSS Runtime 2008 R2 Redistributable

✓

✓

✓

✓

Microsoft CCR and DSS Runtime 2008 R3 Redistributable

✓

✓

✓

✓

Microsoft System CLR Types for SQL Server 2019 v.15.0.2000.5

✓

✓

Microsoft Visual C++ 2019 14.22.27821.0 Redistributable (x64)

✓

✓

Microsoft Visual C++ 2019 14.22.27821.0 Redistributable (x86)

✓

✓

MSMQ 3.0 and up1 (Windows Feature)

✓

✓

✓

✓

1 MSMQ version dependent on the system's version of Windows.

Granting SQL Server permissions

For the Security Center Directory role to run, service users who are not Windows

administrators (login name SYSADMIN) must be granted the View server state SQL Server permission.

What you should know

- The minimum SQL Server server-level roles required by Security Center are:
 - dbcreator
 - processadmin
 - public
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

- The minimum SQL Server database-level roles required by Security Center are:
 - db_backupoperator
 - db_datareader
 - db_datawriter
 - db_ddladmin
 - public
- Make sure that members of the above-mentioned roles have been granted the VIEW SERVER STATE SQL Server permission. For information about the minimum SQL Server roles and permissions required by Security Center roles, see About connecting to SQL Server with an account that has administrative privileges (Basic) on the TechDoc Hub. For more information about SQL Server roles and their capabilities, see your Microsoft documentation.

NOTE: The following procedure is for SQL Server 2022 Express Advanced. If you are using a different version

of SQL Server, see your Microsoft documentation for information about granting permissions.

Procedure

- In SQL Server Management Studio, do one of the following:
 - Run the following query: GRANT VIEW SERVER STATE TO [login name].
 - Manually modify the user permissions as follows:
 - a. Right-click the appropriate SQL Server instance and select Properties.
 - b. Click the Permissions page.
 - c. Under Logins or roles, select the user or role you want to modify.
 - d. In the Permissions section, click the Explicit tab and select the Grant checkbox beside the View server state permission.
 - e. Click OK.
- After you finish

For users that are granted the permission locally on the Security Center server, you must add them as users on the SQL Server.

Security Center installation packages

The Security Center installation packages contain the setup program that helps you install everything you need to make the product work.

Downloadable packages

The Security Center installation packages are zip files that you can download from the GTAP Product Download page, at <https://portal.genetec.com/support/SystemManagement/DownloadSection/>. Note, you need a username and password to log on to GTAP.

- SecurityCenterWebSetup.exe: The web installer is a small installation wizard that does not contain software packages. To retrieve the required software packages, the wizard connects to Genetec™ servers and downloads the components necessary for the features you choose to install.
- Full installation package: Download the full installation package if your computers do not have access to the internet. This standalone package includes everything that you might need to install Security Center.
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑ Installing Security Center

The full installation package contains the following:

- setup.exe: Found in the root folder. This is the AutoRun-enabled version of the standalone installer.
- Security Center Setup.exe: Found in the SC Packages folder. This is the standalone installer.
- SC Packages: This folder contains all components of the Security Center installation. The Security Center installation prerequisites are found here.
- Documentation: This folder contains the PDF versions of the Security Center Installation and Upgrade Guide along with the Release Notes.
- Separate component installation packages: The following installation packages are bundled in the full Security Center installation package, but can also be run separately.
- Security Center 5.12 Documentation: This package is required to install the Security Center help (.exe files), accessible from Security Desk and Config Tool using the F1 button, and the Security Center Hardening Guide (PDF file) locally on your computer. Every new version of Security Center comes with the latest documentation at the time of release.

Updated documentation can become available after the software is released to add new translations or to fix documentation bugs. These updates can be deployed using the Genetec™ Update Service.

- Security Center Drivers 12.x.y: This package is required to integrate video devices to Security Center.

- Every new version of Security Center comes with the latest drivers at the time of release.

- The latest version of the Drivers package can be deployed using the Genetec Update Service.

- If you accidentally remove the Drivers package from Programs and Features, your video units will stop working and turn red in Config Tool. To reinstall it, run Genetec Security Center Drivers 10.x.y.msi located in the SC Packages folder of your full Security Center installation package.

- We do not recommend installing a Drivers package older than the one bundled with the Security Center package.

Installation modes

You can run the Security Center Installer in two modes:

- Wizard mode: The installation wizard guides you through installing Security Center using a series of questions. There are two versions of the installer:

- Web version: The web version downloads the components that you choose to install from the internet. This installer version has a small footprint because only the components that you need are downloaded. To run the web installer, download the file SecurityCenterWebSetup.exe from GTAP and double-click it.

At the beginning of the installation, you can create a custom installation bundle that includes only the components that you need for your installation. This bundle is meant to replicate the current installation on computers with the same Windows setup.

NOTE: To create the custom installation bundle, you must select this option while you are installing or upgrading Security Center. After the version you want has been installed, you cannot

re-run the web
setup to create the custom bundle.

- Standard version: Use the standard version if your computer is not connected to the internet. This large installer includes everything that you might need in the installation package. To run the standard installer, download the full installation package from GTAP, copy the package to the target computer, and double-click setup.exe found in the root folder of the package.

- Silent mode: The silent mode is used to run the installer from the command line, without user intervention.
IMPORTANT: The Security Center Installer does not support mapped drives in your path specifications.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

Installer languages

The Security Center Installer is available in English and French, but the Security Center software can be installed in more than twenty different languages. You can select the language of the installer from within the wizard.

Related Topics

Silent installation of Security Center on page 134

Reducing the package size for client installations

To ease the download and distribution of Security Center to your remote sites, you can greatly reduce the

size of the installation package if you want to install only client applications.

What you should know

The full standalone Security Center installation package is roughly 4.6 GB. If you need to install only the client applications – Security Desk and Config Tool – you can eliminate the prerequisites that are required only for server installations. This reduces the size of the installation package by more than half.

TIP: You can use the web installer to create a custom installation bundle with only the components you need based on a first installation. However, the custom bundle can be used only to replicate the same installation on machines that have the same Windows setup as your first machine. If you plan on installing client applications on machines with different Windows setup, you must follow the current procedure.

Procedure

1

Download a copy of the full installation package from Genetec™ Portal (GTAP).

2

Unzip the package to a temporary folder.

3

Delete the Documentation folder.

This folder contains the Security Center Installation and Upgrade Guide and Release Notes in PDF format in multiple languages. You save roughly 21 MB.

TIP: If you need these documents later, you can download them individually from TechDoc Hub.

4

Open the SC Packages folder.

5

Delete the SQLExpress folder.

A client-only installation does not require Microsoft SQL Server Express Edition. You save roughly 2.20 GB.

6

If you do not need Genetec™ Video Player, delete the Genetec Video Player folder.

You save roughly 606 MB. If you need it later, you can download it separately from GTAP.

After you finish

Use the reduced package to install Security Center Client on other machines. Use the following sample silent installation commands:

- Install all client applications with Genetec™ Video Player:
"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\DebugLog.log" /
log"C:\MyLogs\" /ISFeatureInstall=Client
AGREETOLICENSE=YesSERVERADMIN_PASSWORD="SeCret123!"

- Install all client applications without Genetec Video Player:
"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\DebugLog.log" /
log"C:\MyLogs\" /ISFeatureInstall=Client
AGREETOLICENSE=YesSERVERADMIN_PASSWORD="SeCret123!" INSTALL_GVP=0

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

- Install Security Desk only with Genetec Video Player:
"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\DebugLog.log" /

```
log"C:\MyLogs\" /ISFeatureInstall=SecurityDesk  
AGREETOLICENSE=YesSERVERADMIN_PASSWORD="SeCret123!"
```

Related Topics

Silent installation of Security Center on page 134

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Installing Security Center

When you are ready to install Security Center, you must perform the following steps.

Before you begin

Go through the pre-installation checklist.

What you should know

IMPORTANT:

- If you need to install the Security Center Server on a computer after you have installed Security Center Client, always use the downloaded Security Center package. Using the Change option from Programs and Features does not install the SQL Server Express component.
- The Security Center Installer does not support the use of mapped drives in your path specifications.
- During the Security Center installation, you are given the option of allowing Security Center to create

firewall rules for its applications. If you select this option, all Security Center applications are added as exceptions to the internal Windows firewall. However, you still must ensure that all the ports used by Security Center are open on your network.

- The installation progress bar might turn yellow. This indicates that a reboot is required which you will be prompted to do after the installation is completed. No further action is needed.

- You can configure different port numbers than the ones that are used by default.

Procedure

1

(Optional) Install SQL Server independently of Security Center. SQL Server Express is typically installed automatically with Security Center. Installing SQL Server separately depends on your deployment requirements.

2

Install Security Center components on the main server that will host the Directory role.

3

Activate your product license on the main server.

4

Make sure that all ports used by Security Center are open and redirected for the purposes of firewall and network address translation. For more information, see Default ports used by Security Center 5.12.

5

Configure Genetec™ Update Service (GUS). For more information, see the Genetec Update Service User Guide.

6

(Optional) Install Security Center components on expansion servers that will connect to the main server to add processing power to your Security Center system.

7

Install Security Center Client (Config Tool, Security Desk, or both).

After you finish

Go through the post-installation checklist.

Ports used by core applications in Security Center

The following table lists the default network ports that must be opened to allow proper communication between the core applications and services in Security Center.

For a visual representation of the ports, see the Security Center Network Diagram - Platform.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

IMPORTANT: Exposing Security Center to the internet is discouraged without hardening your system first. Before exposing your system, implement the advanced security level described in the Security Center Hardening Guide to help protect your system from internet threats. Alternatively, use a trusted VPN for remote connections.

Port usage
Inbound port
Outbound port
Protocol
Executable file
Directory

Server connections
TCP 5500

TLS 1.2
Genetec.Directory.exe
Client connections
TCP 5500
TLS 1.2
SecurityDesk.exe
ConfigTool.exe
Config Tool
Communication with
Directory
TCP 5500
TLS 1.2
GenetecServer.exe
Map download requests
to Map Manager
TCP 8012
HTTPS
GenetecMapManager.exe

TCP 443
HTTPS
ConfigTool.exe

- Communication with
Authentication role
TLS 1.2
- Communication with
GTAP for Genetec
Advantage validation
and feedback
Security Desk

Communication with
Directory
TCP 5500
TLS 1.2
GenetecServer.exe
Map download requests
to Map Manager
TCP 8012
HTTPS
GenetecMapManager.exe
Communication with
Authentication role
TCP 443
HTTPS

TLS 1.2
SecurityDesk.exe
SDK
Communication between
SDK application and
Directory
TCP 5500
TLS 1.2
GenetecServer.exe
Map download requests
to Map Manager
TCP 8012
HTTPS
GenetecMapManager.exe
Active Directory
Active Directory with no
SSL
TCP 389
HTTP
GenetecActiveDirectory.exe

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Active Directory with SSL
TCP 636
HTTPS
GenetecActiveDirectory.exe
Global catalog with no SSL
TCP 3268
HTTP
GenetecActiveDirectory.exe
Global catalog with SSL
TCP 3269
HTTPS
GenetecActiveDirectory.exe

All roles

Communication between
expansion server and
Directory

NOTE: Previously port
4502. If port 4502 was
the server port before
upgrading from 5.3 or
earlier, 4502 remains
the server port after the
upgrade.

TCP 5500

TCP 5500

Genetec Inc.

proprietary

protocol

GenetecServer.exe

Communication between
Server Admin and REST1

TCP 80

TCP 80

HTTP

GenetecInterface.exe

Secured REST access or

TCP 44Authentication role (OIDC/
SAML2)1

3

TCP 443

HTTPS

GenetecInterface.exe

GenetecAuth.exe

Connections to the SQL

TCP 1433

Microsoft®

Role-dependent

Database Engine hosted

Tabular

on another server.

Data Stream

Only required for roles

Protocol (TDS)

that must connect to a

database on another

server. Not required if SQL

Server is running on the

same machine or if the

role has no database.

Connections to the SQL
UDP 1434
Microsoft
Role-dependent
Server Browser service
SQL Server
for SQL Server connection
Resolution
information.
Protocol
Only required for roles
(SSRP)
that must connect to a
named database instance
on another server.
Not required for roles
configured to connect to
their database using a
specific port.

Map Manager

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Requests for map
download from client
applications1
TCP 8012
HTTPS
GenetecMapManager.exe
Mobile Server
Communication from
Mobile app to Mobile

Server
TCP 80, 443
HTTPS
GenetecMobileRole.exe
GenetecMobileAgent.exe
Communication from
Mobile Server to Media
Gateway
TCP 80, 443
HTTPS
GenetecMobileRole.exe
GenetecMobileAgent.exe
Adding mobile devices
to an Archiver for video
streaming and storage
TCP
9000-10000
HTTP
GenetecMobileRole.exe
GenetecMobileAgent.exe
Record Caching Service
Non-secured REST
communication with
Record Caching Service1
TCP 80
TCP 80
HTTP
GenetecIngestion.exe
Secured REST access or
Authentication role1
TCP 443
TCP 443
HTTPS
GenetecIngestion.exe
Unit Assistant
Communication with
devices
TCP 5500
TCP 5500
Genetec Inc.
proprietary
protocol
GenetecUnitAssistantRole.exe
Wearable Camera Manager
Communication with Axis
SCU
TCP 48830
Genetec
Clearance™
protocol

GenetecBwcManagerRole.exe
Communication with Axis
SCU (multiple roles on
same server)
TCP 48831,
48832,
48833
Clearance
protocol
GenetecBwcAgentService.exe
Web App Server

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Initial connection between
TCP 80
TCP 80
HTTP
Genetec.WebApp.Console.exe
server hosting Web App
Server role and browser
used for Genetec™ Web
App

NOTE: Redirected to
HTTPS port after initial
connection.

TCP 443
TCP 443
HTTPS
Genetec.WebApp.Console.exe

- Connection between server hosting Web App Server role and browser used for Genetec Web App
- Secured REST access or Authentication role1
Genetec Web App stream
TCP 443
HTTPS
Genetec.WebApp.Console.exe requests to Media Gateway

Web Client Server

Initial connection between
TCP 80
TCP 80
HTTP
GenetecWebClient.exe
server hosting Web Client
Server role and browser
used for Security Center
Web Client

NOTE: Redirected to
HTTPS port after initial
connection.

- Connection between server hosting the Web Client Server role and the browser used for Security Center Web Client
- Secured REST/Server Admin/ Authentication role communication1
TCP 443
TCP 443
HTTPS

GenetecWebClient.exe

Security Center Web Client

video requests to Media

Gateway

TCP 443

HTTPS

GenetecWebClient.exe

Genetec™ Update Service (GUS)

Communication between

GUS Sidecar and GUS

TCP 4596

TCP 4596

N/A

GenetecUpdaterService.Sidecar.exe

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage

Inbound

port

Outbound

port

Protocol

Executable file

Deprecated. Previously
used to access the GUS
web page. Redirects to
TCP 4595 in the latest GUS
version1

TCP 4594

N/A

GenetecUpdateService.exe

Secure communication

with the GUS web page,

and other GUS servers1

TCP 4595

TCP 4595

HTTPS

GenetecUpdateService.exe

Communication with

Microsoft Azure and
Genetec Inc.1
TCP 443
TCP 443
HTTPS
GenetecUpdateService.exe
GenetecUpdaterService.Sidecar.exe
SQL Server
Connections to the SQL
Database Engine from
roles on other servers
TCP 1433
Microsoft
Tabular
Data Stream
Protocol (TDS)
sqlservr.exe
Connections to the SQL
Server Browser service
for SQL Server connection
information
UDP 1434
Microsoft
SQL Server
Resolution
Protocol
(SSRP)
sqlbrowser.exe
System Availability Monitor Agent (SAMA)
Communication with
Security Center (Legacy)1
TCP 4592
HTTP
Genetec.HealthMonitor.Agent.exe
Communication with
Security Center servers1
TCP 443
HTTPS
Genetec.HealthMonitor.Agent.exe
Connection to the Health
Service in the cloud1
TCP 443
HTTPS
Genetec.HealthMonitor.Agent.exe

1 These ports use Windows System components to handle HTTP requests. Microsoft components using http.sys require the following rule: dir="in" protocol="6" lport="<SPECIFY PORT USED HERE: CAN BE 80, 443, or

CUSTOM>" binary="System".

2 TCP port 960 applies to new installations of Security Center 5.8 and later. In Security Center 5.6 and 5.7, TCP port 5004 was used instead of TCP port 960. Therefore, any system upgraded to 5.12 through 5.6 or 5.7 continues to use TCP port 5004.

Ports used by AutoVu applications in Security Center

The following tables lists the default network ports that must be opened to allow proper communication between Security Center and external AutoVu™ components when AutoVu is enabled in your system.

For a visual representation of the ports, see the Security Center Network Diagram - ALPR.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

IMPORTANT: Exposing the AutoVu system to the internet is strongly discouraged without hardening your system first. Before exposing your system, implement the advanced security level described in the Security Center Hardening Guide to help protect your system from internet-based threats.

Port usage

Inbound

port

Outbound

port

Protocol

Executable file

Sharp unit

SSH port for SharpOS 14

(optional)
TCP 22
HTTP
Sharp unit
Video port (Security
Center extension HTTP)
Communication port
(HTTP for SharpOS 12.7
and lower)
TCP 80
HTTP
Sharp unit
Secure port (LPM protocol,
video, Genetec protocol)
TCP 443
HTTPS
Sharp unit
RTSP stream requests
TCP 554
UDP 554
RTSP
Sharp unit
Appliance discovery
service
UDP 2728
UDP
Sharp unit
RDP access port (optional)
TCP 3389
TCP
Sharp unit
Silverlight ports and
image feed service (for
Sharp models earlier than
SharpV)
TCP
4502-4534
HTTP
Sharp unit
Control port (Mobile
installation)
TCP 4545
HTTP
Sharp unit
Discovery port
UDP 5000
UDP
Sharp unit
Control port (Fixed
installation)

TCP 8001
HTTP
Sharp unit
Cloud (PIP)
TCP 443
PIP
Sharp unit
Syslog (on demand)
UDP 514
Sharp unit
LPM protocol
communication
TCP 10001
HTTPS
Sharp unit
Extensions
FTP file upload. Only used
when the FTP extension is
configured.
TCP 21
FTP
Sharp unit

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

HTTP file upload. Only
used when the HTTP
extension is configured.
Any port
HTTP\HTTPS
Sharp unit
ALPR Manager
Genetec Patroller™
communication and
fixed Sharp units (not

used for LPM protocol
connections)
TCP 8731
HTTP
GenetecLicensePlateManager.exe
LPM protocol listening
port
TCP 10001
HTTPS
GenetecLicensePlateManager.exe
Secure communication
port for DataExporter
TCP 443
HTTPS
GenetecLicensePlateManager.exe
Fixed Sharp unit discovery
UDP 5000
N/A
GenetecLicensePlateManager.exe
RabbitMQ communication
port when used by
DataExporter (optional)
TCP 5671
HTTPS
GenetecLicensePlateManager.exe
Sharp control port (used
for Live connections,
not LPM protocol
connections)
TCP 8001
HTTP
GenetecLicensePlateManager.exe
Communication with Payby-
Plate Sync plugin
TCP 8787
TCP 8788
HTTP
HTTPS
GenetecLicensePlateManager.exe
GenetecLicensePlateManager.exe
Archiver1
Default Media Router
RTSP port
TCP 554
RTSP
GenetecArchiverAgent32.exe
Default Archiver port
TCP 555
RTSP
GenetecArchiverAgent32.exe

Patroller (in-vehicle computer)
Communication with
mobile Sharp units
TCP 4545
HTTP
Patroller.exe
Time synchronization
service for Sharp units
TCP 4546
SNTP
Patroller.exe
Communication with
Simple Host
TCP 8001
HTTP
Patroller.exe

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Communication with Payby-
Plate Sync plugin
TCP 8787
HTTP
Patroller.exe
Communication with Curb
Sense and Plate Link
TCP 443
HTTPS
Patroller.exe
Communication with
mobile Sharp units
TCP 4545
HTTPS
Patroller.exe
Sharp camera discovery

UDP 5000
UDP
Patroller.exe
PatrollerConfigTool.exe
ALPR Manager connection
TCP 8731
HTTP and
message-level
encryption
Patroller.exe
Pay-by-Plate Sync
Communication with Free-
Flow and Patroller
TCP 8787
HTTP
GenetecPlugin.exe for Pay-by-
Plate Sync
Secure communication
with Free-Flow
TCP 8788
HTTPS
GenetecPlugin.exe for Pay-by-
Plate Sync
Communication with Free-
Flow and Patroller
TCP 8787
HTTP
GenetecPlugin.exe for ALPR
Manager
Secure communication
with Free-Flow
TCP 8788
HTTPS
GenetecPlugin.exe for ALPR
Manager

1 You can also add a SharpV to Security Center as a standard video unit using separate Archiver and Media Router roles. For more information on adding a video unit, see Ports used by Omnicast applications in Security Center on page 17.

Ports used by Omnicast applications in Security Center

The following table lists the default network ports that must be opened to allow proper communication between Security Center and external IP video devices when Omnicast™ is enabled in

your system.

For a visual representation of the ports, see the Security Center Network Diagram - Video.

IMPORTANT: Exposing Security Center to the internet is discouraged without hardening your system first. Before exposing your system, implement the advanced security level described in the Security Center Hardening Guide to help protect your system from internet threats. Alternatively, use a trusted VPN for remote connections.

Port usage
Inbound
port
Outbound
port
Protocol
Executable file
Archiver

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Communication with
TCP 804,
HTTPS
GenetecArchiverAgent32.exe
Cloud Storage
4434

TLS 1.2

Communication with
TCP 554
RTSP over TLS
GenetecArchiverAgent32.exe

Media Router
when secure
communication
enabled

Live and playback stream
TCP 5551
RTSP over TLS
GenetecArchiverAgent32.exe

requests
when secure
communication
enabled

Edge playback stream
TCP 6051
RTSP
GenetecVideoUnitControl32.exe
requests

Mobile device streaming
TCP
HTTP
GenetecVideoUnitControl32.exe
through the Mobile Server
9000-10000

Communication between
TCP 5500
TCP 5500
TLS 1.2
GenetecArchiver.exe
the primary Archiver and

GenetecArchiverAgent32.exe

backup servers

GenetecVideoUnitControl32.exe

Telnet console connection

TCP 56021

Telnet

GenetecArchiverAgent32.exe

requests

Live unicast stream

UDP

SRTP when

GenetecVideoUnitControl32.exe

requests from IP cameras

15000-

using

199992

encryption in

transit from

Archiver or in

transit and at

rest

Live video and audio

UDP

UDP

SRTP when

GenetecArchiverAgent32.exe

multicast stream requests

47806,

47806,

using

GenetecVideoUnitControl32.exe

47807

47807

encryption in

transit from

Archiver or in

transit and at

rest

Connection to the
TCP
Wearable Camera
48831-48833
Manager API

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Vendor-specific ports for
cameras
TCP & UDP
TCP
Common
ports
include:

- TCP 80:
HTTP
- TCP 443:
HTTPS
GenetecVideoUnitControl32.exe
- TCP 80
- TCP 443
- TCP 554
- TCP 322
- TCP 554:
RTSP

- TCP 322:
RTSP over
TLS when
secure
communication
enabled
Redirector
Live and playback stream
requests
TCP 560
RTSP over TLS
GenetecRedirector.exe
when secure
communication
enabled
Communication with
Media Router (Security
Center Federation™)
TCP 554
RTSP over TLS
GenetecRedirector.exe
when secure
communication
enabled
Communication with
Archiver
TCP 555
RTSP over TLS
GenetecRedirector.exe
when secure
communication
enabled
Communication with
Auxiliary Archiver
TCP 558
RTSP over TLS
GenetecRedirector.exe
when secure
communication
enabled
Cloud playback requests
TCP 5704
RTSP over TLS
GenetecRedirector.exe
when secure
communication
enabled
Edge playback stream
requests

TCP 605
RTSP over TLS
GenetecRedirector.exe
when secure
communication
enabled
Communication with
Privacy Protector™
TCP 754
RTSP over TLS
GenetecRedirector.exe
when secure
communication
enabled

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Stream requests to other
redirectors
TCP 560
RTSP over TLS
GenetecRedirector.exe
when secure
communication
enabled
Media transmission to
client applications
TCP 9603
UDP
6000-6500
TCP 9603
SRTP when
using
encryption in
transit from

Archiver or in
transit and at
rest
GenetecRedirector.exe
Media transmission to
other redirectors
UDP 8000-
12000
UDP 8000-
12000
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
GenetecRedirector.exe
Live video and audio
multicast stream requests
UDP
47806,
47807
UDP
47806,
47807
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
GenetecRedirector.exe
Live video multicast
stream request (Security
Center Federation™)
UDP 65246
UDP 65246
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
GenetecRedirector.exe
Auxiliary Archiver
Live and playback stream
requests

TCP 558
RTSP over TLS
GenetecAuxiliaryArchiver.exe
when secure
communication
enabled
Unicast media stream
requests
UDP
6000-6500
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
GenetecAuxiliaryArchiver.exe

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Live video and audio
multicast stream requests
UDP
47806,
47807
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
GenetecAuxiliaryArchiver.exe
Live video multicast

stream requests (Security Center Federation™)
UDP 65246
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
GenetecAuxiliaryArchiver.exe
Live stream requests
TCP 554,
555, 560
RTSP over TLS
GenetecAuxiliaryArchiver.exe
when secure
communication
enabled
Media transmission
TCP 9603
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
GenetecAuxiliaryArchiver.exe
Cloud Playback
Live and playback stream
requests from within
Security Center
TCP 570
RTSP over TLS
GenetecCloudPlaybackRole.exe
when secure
GenetecCloudPlaybackAgent.exe communication
enabled
Communication with
Cloud Storage
TCP 80,
443
TLS 1.2
GenetecCloudPlaybackRole.exe
GenetecCloudPlaybackAgent.exe
Media Router
Live and playback stream
requests
TCP 554

RTSP over TLS
GenetecMediaRouter.exe
when secure
communication
enabled
Federated Media Router
stream requests
TCP 554
RTSP over TLS
GenetecMediaRouter.exe
when secure
communication
enabled

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Communication with
redirectors
TCP 5500
TCP 5500
TLS 1.2
GenetecMediaRouter.exe
Media Gateway
Live and playback stream
requests from RTSP
clients
TCP 654
RTSP over TLS
Genetec.MediaGateway.exe
when secure
communication
enabled

Live and playback stream

TCP 80,
Genetec.MediaGateway.exe

-

TCP 80:

requests from Mobile,
443

HTTP

Web Client, or Web App

-

TCP 443:
HTTPS

Communication between
the Media Gateway
agents and the Media
Gateway role

TCP 5500

TCP 5500

TLS 1.2

Genetec.MediaGateway.exe

Live video unicast stream
requests

UDP

6000-6500

SRTP when

using

encryption in

transit and at

rest

Genetec.MediaComponent32.exe

Live video and audio

multicast stream requests

UDP

47806,

47807

UDP 51914

SRTP when

using

encryption in

transit from

Archiver or in

transit and at

rest
Genetec.MediaComponent32.exe
Live video multicast
streaming (Security
Center Federation™)
UDP 65246
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
Genetec.MediaComponent32.exe
Live and playback stream
requests
TCP 554,
555, 558,
560, 605
RTSP over TLS
Genetec.MediaComponent32.exe
when secure
communication
enabled

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Media transmission
TCP 9603
SRTP when
using
encryption in
transit from
Archiver or in
transit and at

rest
GenetecAuxiliaryArchiver.exe
Cloud playback requests
TCP 5704
RTSP over TLS
Genetec.MediaComponent32.exe
when secure
communication
enabled
Security Center Federation™
Connection to remote
Security Center systems
TCP 5500
TLS 1.2
GenetecSecurityCenterFederation.exe
Live and playback stream
requests
TCP 554,
560, 9603
TCP 554,
560, 9603
RTSP over TLS
Genetec.Media Component32.exe
when secure
communication
enabled
Security Desk
Unicast UDP live stream
requests
UDP 6000–
6200
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
SecurityDesk.exe
Genetec.MediaComponent32.exe
Live video and audio
multicast stream requests
UDP
47806,
47807
SRTP when
using
encryption in
transit from
Archiver or in

transit and at
rest
SecurityDesk.exe
Genetec.MediaComponent32.exe
Live video multicast
stream requests (Security
Center Federation™)
UDP 65246
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
SecurityDesk.exe
Genetec.MediaComponent32.exe

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Live and playback stream
requests from RTSP
clients
TCP 554,
555, 558,
560, 605
RTSP over TLS
SecurityDesk.exe
when secure
Genetec.MediaComponent32.execommunication
enabled
Media transmission
TCP 9603
SRTP when
using

encryption in
transit from
Archiver or in
transit and at
rest
SecurityDesk.exe
Genetec.MediaComponent32.exe
Cloud playback requests
TCP 5704
RTSP over TLS
SecurityDesk.exe
when secure
Genetec.MediaComponent32.execommunication
enabled
Config Tool
Unicast UDP live stream
requests
UDP 6000-
6200
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
ConfigTool.exe
Genetec.MediaComponent32.exe
Live video and audio
multicast stream requests
UDP
47806,
47807
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
ConfigTool.exe
Genetec.MediaComponent32.exe
Live video multicast
stream requests (Security
Center Federation™)
UDP 65246
SRTP when
using
encryption in
transit from

Archiver or in
transit and at
rest
ConfigTool.exe
Genetec.MediaComponent32.exe
Live and playback stream
requests from RTSP
clients
TCP 554,
555, 560
RTSP over TLS
ConfigTool.exe
when secure
Genetec.MediaComponent32.exe communication
enabled

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Executable file

Media transmission
TCP 9603
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
ConfigTool.exe
Genetec.MediaComponent32.exe
Unit discovery with the
Unit enrollment tool
Vendor-
specific
TCP and
UDP ports

Vendor-specific
ConfigTool.exe
Genetec.MediaComponent32.exe
Cloud Storage reporting
and configuration
TCP 804
,
4434
HTTP
ConfigTool.exe
SQL Server
Incoming connections to
the SQL Database Engine
from the Media Router,
Auxiliary Archiver, and
Directory.
TCP 1433
Microsoft
Tabular
Data Stream
Protocol (TDS)
sqlservr.exe
Incoming connections to
the SQL Server Browser
service for SQL Server
connection information
UDP 1434
Microsoft
SQL Server
Resolution
Protocol
(SSRP)
sqlbrowser.exe

1 Applies to servers hosting one Archiver role. If multiple Archiver roles are hosted on the same server, each additional role uses the next free port.

2 You can have multiple Archiver agents on the same server. Each Archiver agent assigns a unique UDP port to each video unit that it controls. To ensure that the UDP port assignment on a server is unique, each additional Archiver agent on the same server adds 5000 to its starting UDP port number. For example, the first Archiver agent uses ports 15000-19999, the second one uses ports 20000-24999, the third one uses ports 25000-29999, and so on.

NOTE: You can manually assign live streaming reception UDP ports from the Resource tab of the Archiver role.

3 TCP port 960 applies to new installations of Security Center 5.8 and later. In Security Center 5.6 and 5.7, TCP port 5004 was used instead of TCP port 960. Therefore, any system upgraded to 5.12 through 5.6 or 5.7 continues to use TCP port 5004.

4 In the context of Cloud Storage, ports TCP 80, 443, and 570 are only used when Cloud Storage is enabled.

Ports used by KiwiVision modules in Security Center

The following tables list the default network ports that must be opened to allow proper communication between Security Center and external IP video devices when KiwiVision™ is enabled in your system.

For a visual representation of the ports, see the Security Center Network Diagram - KiwiVision.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

IMPORTANT: Exposing Security Center to the internet is discouraged without hardening your system first. Before exposing your system, implement the advanced security level described in the Security Center Hardening Guide to help protect your system from internet threats. Alternatively, use a trusted VPN for remote connections.

KiwiVision Privacy Protector™ and KiwiVision Camera Integrity Monitor modules

Port	usage	Inboundport	Outboundport	Protocol	Executable	file
	Live stream requests					
TCP 754						
RTSP over						
Genetec.MediaProcessor.exe						
TLS when						
using Secure						
communication						
Live video unicast stream						
requests						
UDP						
7000-7500						
SRTP when						
using						
encryption in						
transit from						
Archiver or in						
transit and at						
rest						
Genetec.MediaProcessor.exe						
Live video multicast						
stream requests						
UDP 47806						
UDP 47806						
SRTP when						
using						
encryption in						
transit from						
Archiver or in						
transit and at						
rest						
Genetec.MediaProcessor.exe						
Live video multicast						
stream requests (Security						
Center Federation™)						
UDP 65246						
UDP 65246						
SRTP when						
using						
encryption in						
transit from						
Archiver or in						
transit and at						
rest						
Genetec.MediaProcessor.exe						
Live and playback stream						
requests						
TCP 554,						

555, 560
RTSP over
Genetec.MediaProcessor.exe
TLS when
using Secure
communication
Media transmission
TCP 9601
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
Genetec.MediaProcessor.exe
Communication with
Directory
TCP 5500
TCP 5500
TLS 1.2
Genetec.MediaProcessor.exe

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

KiwiVision Security video analytics and KiwiVision People Counter modules

Port usage
Inbound port
Outbound
port
Protocol
Executable file
KiwiVision Manager

Communication with
KiwiVision Manager
database
TCP 1433
Microsoft
Tabular
Data Stream

Protocol (TDS)
GenetecPlugin.exe
UDP 1434
Microsoft
SQL Server
Resolution
Protocol (SSRP)
GenetecPlugin.exe
Communication with
Directory
TCP 5500
TCP 5500
TLS 1.2
GenetecPlugin.exe
KiwiVision Analyzer
Live video unicast stream
requests
UDP 6000-
6500
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
GenetecPlugin.exe
Genetec.MediaComponent32.exe
Live video multicast stream
requests
UDP 47806
SRTP when
using
encryption in
transit from
Archiver or in
transit and at
rest
GenetecPlugin.exe
Genetec.MediaComponent32.exe
Live video multicast stream
requests (Security Center
Federation™)
UDP 65246
SRTP when
using
encryption in
transit from
Archiver or in
transit and at

rest
GenetecPlugin.exe
Genetec.MediaComponent32.exe
Live and playback stream
requests
TCP 554, 560,
9601
RTSP over
TLS when
using Secure
communication
GenetecPlugin.exe
Genetec.MediaComponent32.exe
Communication with
KiwiVision Manager
database
TCP 1433
Microsoft
Tabular
Data Stream
Protocol (TDS)
GenetecPlugin.exe
UDP 1434
Microsoft
SQL Server
Resolution
Protocol (SSRP)
GenetecPlugin.exe

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

Port usage
Inbound port
Outbound
port
Protocol
Executable file

Communication with
Directory
TCP 5500
TCP 5500
TLS 1.2

GenetecPlugin.exe
SQL Server
Incoming connections to
the SQL Database Engine
from KiwiVision Manager
and Analyzer roles on other
servers
TCP 1433
Microsoft
Tabular
Data Stream
Protocol (TDS)
sqlservr.exe
Incoming connections to the
SQL Server Browser service
for SQL Server connection
information
UDP 1434
Microsoft
SQL Server
Resolution
Protocol (SSRP)
sqlbrowser.exe

1 TCP port 960 applies to new installations of Security Center 5.8 and later. In Security Center 5.6 and 5.7, TCP port 5004 was used instead of TCP port 960. Therefore, any system upgraded to 5.12 through 5.6 or 5.7 continues to use TCP port 5004.

Ports used by Synergis applications in Security Center

The following table lists the default network ports that must be opened to allow proper communication between Security Center and external IP access control devices when Synergis™ is enabled in your system.

For a visual representation of the ports, see the Security Center Network Diagram - Access control.

IMPORTANT: Exposing Security Center to the internet is discouraged without hardening your system first. Before exposing your system, implement the advanced security level described in the Security Center Hardening Guide to help protect your system from internet threats. Alternatively, use a trusted VPN for remote connections.

Port usage
Inbound
port
Outbound
port
Protocol
Executable file
Access Manager

Synergis extension discovery
UDP 2000
Genetec
GenetecAccessManager.exe
Inc.
proprietary
protocol
Secure communication
with Synergis units and
HID units
TCP 443
HTTPS
TLS 1.2
GenetecAccessManager.exe
HID extension - FTP data
and command1
TCP 20
TCP 21
FTP
GenetecAccessManager.exe
HID extension - SSH1
TCP 22
SSH
GenetecAccessManager.exe
HID extension - Telnet1
TCP 23
Telnet
GenetecAccessManager.exe

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

Port usage

Inbound
port
Outbound
port
Protocol
Executable file

HID extension - HTTP
TCP 80
HTTP
GenetecAccessManager.exe
communication

HID extension - VertX
TCP
GenetecAccessManager.exe

TCP

OPIN protocol
4050/44332
•

4050:
Proprietary

•
TCP
4433:
HTTPS
TLS 1.2

HID extension - VertX
UDP 4070
UDP 4070
N/A
GenetecAccessManager.exe
discovery3

Remote syslog server4
UDP 514
N/A
GenetecAccessManager.exe

Global Cardholder Synchronizer

Connection to sharing

TCP 5500

TLS 1.2

GenetecGlobalCardholderManagement.exe
host

Mobile Credential Manager

Secure communication

TCP 443

HTTPS

GenetecMobileCredentialManager.exe
(HTTPS) with the portal

TLS 1.2

of the mobile credential

provider

NOTE: Security Desk,
Config Tool, and the
Mobile Credential
Manager role all need
access to the following
URLs:

[https://
api.origo.hidglobal.com](https://api.origo.hidglobal.com)

[https://
ma.api.assaabloy.com/
credential-management/](https://ma.api.assaabloy.com/credential-management/)

1 Not used if HID units are configured with Secure mode. As a best practice, enable secure mode on all HID units.

2 Legacy HID units or EVO units running a firmware version earlier than 3.7 use port

4050. HID EVO units

running in secure mode with firmware 3.7 and later user port 4433.

3 The discovery port of an HID unit is fixed at 4070. After it is discovered, the unit is assigned to an Access

Manager that uses the ports shown in the previous table to control it.

For more information about initial HID hardware setup, download the documentation from <http://www.HIDglobal.com>.

4 Starting in Security Center 5.10.1.0, this port is no longer enabled by default.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Ports used by intrusion-detection applications in Security Center

Default network ports must be opened to allow proper communication between Security Center and intrusion panels through intrusion panel extensions.

For the list of ports required for your intrusion detection system, refer to the following:

-

The extension guide for your intrusion panel extension.

-

Security Center Network Diagram - Intrusion Detection, for a visual representation of the ports.

IMPORTANT: Exposing Security Center to the internet is discouraged without hardening your system

first. Before exposing your system, implement the advanced security level described in the Security Center

Hardening Guide to help protect your system from internet threats. Alternatively, use a trusted VPN for

remote connections.

Ports used by Sipelia modules in Security Center

For proper communication between Security Center and external IP video devices when Sipelia™ is enabled in your system, you must open the default network ports.

Default ports for Sipelia Server

IMPORTANT: When configuring ports, ensure that the ports are open and not used by another application on the same workstation. For example, if Sipelia Server is installed on the same machine that hosts the Genetec™ Server, you can't use a port that is already used by Security Center or another application.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Port	usage	Inbound port	Outbound port	Protocol	Description
------	-------	--------------	---------------	----------	-------------

SIP	port				
-----	------	--	--	--	--

UDP	5060				
-----	------	--	--	--	--

SIP					
-----	--	--	--	--	--

The port used to enable the SIP protocol on Sipelia Server. The SIP port is the basis of all SIP communication in Sipelia. The default value is 5060. Every SIP endpoint, such as softphones and SIP intercoms, that needs to connect to the Sipelia Server must have this port value in their respective configurations.

SIP	trunks	port			
-----	--------	------	--	--	--

UDP	5060				
-----	------	--	--	--	--

SIP					
-----	--	--	--	--	--

The port used by the SIP trunk to communicate with the Sipelia Server. Because SIP trunks are SIP servers, the default value is 5060.

SIP trunks are needed if you have a device that is connected to an external IP PBX, and you want to

connect this device to Sipelia.

SIP TCP port

TCP 5060

SIP

The port used by Sipelia for SIP communication over TCP. This value must be in the configuration of every SIP endpoint that needs to connect to the Sipelia Server using TCP.

TCP for SIP communication is disabled by default.

SIP secure port

TCP 5061

SIP (TLS)

The port that Sipelia uses for secure connections.

You must configure TLS in Config Tool to display the secure port. You can use a softphone or an intercom to connect to your SIP server in TLS.

NOTE: The SIP device must trust the Server Admin certificate.

Session transfer

port

TCP 8202

TLS

The port that Sipelia Server uses to download recordings of call sessions to the Call report task in Security Desk. The default value is 8202. If there are issues with this port number, you can enter another applicable value.

UDP port range

UDP

20000 to

20500

UDP

20000 to

20500

RTP

The port range for the User Datagram Protocol (UDP). Different SIP clients use the UDP ports to send and receive communication data. The default range is from 20000 to 20500. Change the default settings only if Sipelia logs any port-related issues about making or receiving calls with Security Desk.

The UDP port range used by Sipelia Server is set with the MinimumPortRange and MaximumPortRange properties found in C:\ProgramData\Genetec Sipelia\SipServer\SipServer.config.

NOTE: Depending on the intercom device configuration, other outbound ports can be used.

The executable file for Sipelia Server ports is GenetecPlugin32.exe.

Default ports for Sipelia Client

IMPORTANT: When configuring ports, make sure that the ports are open and that they aren't being used by another application on the same workstation.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

Port usage
Inbound
port
Outbound
port
Protocol
Description

SIP port
UDP 5060
SIP
The port used to enable the SIP protocol on Sipelia™ Client. This port is used for all basic SIP protocol communication.
The default value is 5060. This value is retrieved from the Sipelia Server and can't be changed on the Client side.
SIP TCP port
TCP 5060
SIP
SIP secure port
TCP 5061
SIP (TLS)
Session transfer
port
TCP 8202
TLS

UDP port range

UDP

20000 to

20500

UDP

20000 to

20500

SIP or RTP

The port range for the User Datagram Protocol (UDP). Different SIP clients use the UDP ports to send and receive communication data. The default range is from 20000 to 20500. Change the default settings only if Sipelia logs any port-related issues about making or receiving calls with Security Desk. You can change the UDP port range by clicking Options > Sipelia > Advanced in Security Desk.

The executable file for Sipelia Client ports is SecurityDesk.exe.

Default ports for Sipelia Gateway role

Port usage

Inbound

port

Outbound

port

Protocol

Description

WebRTC port

range

UDP

49152 to

65535

WebRTC

The WebRTC protocol uses the default dynamic port range of Windows servers. The default range is from 49152 to 65535.

The WebRTC port range used by Sipelia Gateway is set with the Min.PortRange and Max.PortRange properties found in C:\ProgramData\Genetec Sipelia\CallService.appsettings.json

STUN servers

UDP 443,

STUN
3478,
19302

If your mobile phone communicates with the server through a NAT, the following UDP ports and URLs need to be reachable from the Sipelia Gateway server:

- stun:turn.video.geneteccloud.com:443
- stun:stun.freeswitch.org:3478
- stun:stun.l.google.com:19302
- stun:global.stun.twilio.com:3478

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

Port	usage	Inboundport	Outboundport	Protocol	Description
------	-------	-------------	--------------	----------	-------------

TURN server

UDP 80

TURN

If your mobile phone communicates with the server (depends through the internet without a VPN, configure on the

a TURN server to be reachable from the Sipelia provider)

Gateway. Sipelia doesn't provide a TURN server by default. You must obtain a TURN account and configure it by clicking System > Roles > Sipelia Gateway > Properties in Config Tool.

Web API port

7550

HTTPS

The port used by the Mobile Server to communicate with the Sipelia Gateway.

The default value is 7550. This value can be changed in C:\ProgramData\Genetec Sipelia\WebApi.appsettings.json.

The executable file for Sipelia Gateway ports is GenetecPlugin.exe.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Installing SQL Server independently of Security Center

Depending on your deployment requirements, you might have to install SQL Server before you install Security Center. The most common reasons are to install SQL Server on a drive that is separate from the system drive (typically the C: drive), or on a server that is separate from all Security Center servers.

Before you begin

If you are installing SQL Server Standard or Enterprise edition, you must purchase it from Microsoft, and download the installation package. The installer for SQL Server Express is included in the Security Center installation package. SQL Server Express works only on 64-bit operating systems.

What you should know

There are many reasons why you must install SQL Server yourself. The most obvious one is when SQL Server Express does not satisfy your database requirements. Even when SQL Server Express is all you need, you might still have to install it yourself for the following reasons:

- You plan on setting up a role failover. In this case, install SQL Server on a server that is different from all servers hosting the Security Center role.
-

Microsoft Volume Shadow Copy Service (VSS) is enabled on your server. In this case, install SQL Server on a drive that is separate from the system drive, and make sure that VSS takes only snapshots of the system drive.

CAUTION: Do not disable VSS. Disabling VSS interferes with the operation of Windows System Restore.

Procedure

1

Do one of the following:

-

If you are installing SQL Server Standard or Enterprise:

- a.

In Windows, navigate to the SQL installation package folder.

- b.

Double-click Setup.exe.

-

If you are installing SQL Server Express:

- a.

In Windows, navigate to the Security Center installation package folder.

- b.

Open the folder SC Packages\SQLExpress.

- c.

Double-click SQLEXPADV_x64_ENU.exe.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

2

On the SQL Server Installation Center page, click New SQL Server stand-alone installation or add

features to an existing installation.

NOTE: The screenshots shown in the following steps are for SQL Server 2022 Express Advanced. The screens you see might look slightly different.

3

Read the software license terms, select I accept the license terms, and then click Next.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

4

On the Feature Selection page, select Database Engine Services and any other features you want to install.
For additional information on these features, consult the Microsoft SQL Server documentation.

5

In the Instance root directory field, select where to install SQL Server and all role database files.
This is where you need to change the default path to C: drive if you want your databases to be stored on a different drive. You can type a path, or browse for a folder.

6

In the Shared feature directory field, select where to install the SQL Server shared features.

7

Click Next.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

8

On the Instance Configuration page, select a name for the SQL Server.

NOTE: The database server name is not case-sensitive but must meet all following criteria:

- It cannot be the same name as an existing SQL instance on your server.
 - It cannot match any of the SQL Server reserved keywords, such as DEFAULT, PRIMARY, and so on.
 - It cannot be longer than 16 characters.
 - The first character of the instance name must be a letter or an underscore (_). Acceptable letters are defined by the Unicode Standard 2.0, including Latin characters a-z and A-Z, and letter characters from other languages.
 - Subsequent characters can be letters defined by the Unicode Standard 2.0, decimal numbers from Basic Latin, or other national scripts, the dollar sign (\$), or an underscore (_).
 - It cannot contain spaces or the following characters: \ , : ; ' & # @
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

9
On the Server Configuration page, select "NT AUTHORITY\SYSTEM" for the SQL Server Database Engine Account Name, unless your database administrator instructed you to do otherwise, and click Next.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑

Installing Security Center

10

On the Database Engine Configuration page, select the authentication mode for accessing the Database engine, and click Next.

- Windows authentication mode: Windows credentials. Specify "NT AUTHORITY\SYSTEM" plus any other account that must have permission to make configuration changes, such as the "BUILTIN\Administrators" user group.

- Mixed mode: Windows administrators can access the database engine using either their Windows credentials, or the password you specify here.

11

On the Consent pages, read the consent criteria and click Accept > Next.

12

Wait for the installation to complete. This can take several minutes.

13

Click Close.

SQL Server can now be used as your Security Center database server.

14

If you installed SQL Server Express, do the following:

a)

Open the folder SC Packages\Microsoft SQL Server Management Studio - 19.0.2.

b)

Double-click SSMS-Setup-ENU.exe.

After you finish

Install Security Center on the main server, and use the new SQL Server as your database server.

Related Topics

Preparing to perform a silent installation on page 135



Installing Security Center

Installing the Security Center main server

The main server in your Security Center system hosts the Directory role. You must install the main server first.

Before you begin

Prepare to install Security Center.

What you should know

A main server installation includes the following:

- The Genetec™ Server service with the Directory role.
 - Server Admin
 - Genetec™ Watchdog
 - (Optional) Client applications: Config Tool, Security Desk, or both.
- Procedure

1
Right-click either setup.exe (standalone version) or SecurityCenterWebSetup.exe (web version), and click Run as administrator.
The InstallShield Wizard opens.
NOTE: Only the standalone installer is illustrated in this procedure.

2
On the Choose Setup Language page, select the language of the InstallShield Wizard, and click Next.

3

On the welcome page, click Next.

Links to relevant Security Center information are provided.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

4

On the License Agreement page, read the terms in the Software License Agreement, select I accept the

terms in the license agreement, and click Next.

If you are upgrading from a previous major version, a Backward Compatibility notice opens. Ensure that you understand the backward compatibility requirements before proceeding.

5

On the Cached MSI Files Verification page, select one of the following options and click Next.

- Recommended: It is particularly important to ensure that all MSI files cached by Windows Installer are present on your system before proceeding with the installation if you are upgrading your system or changing your installation. If a cached MSI file is found missing, installation is interrupted and instructions are provided on how to resolve the issue.

- Advanced: Select this option only if you are an experienced Security Center installer. This option mirrors the behavior found in Security Center 5.12.1.0 and earlier versions. Note that if a cached MSI file is missing, no assistance is provided. For more information on cached MSI files, click Explanation on missing cached MSI files.



Installing Security Center

6

On the Custom Setup page, select the Security Center features to install, specify the destination folder, and click Next.

NOTE: Server is mandatory. All other features are optional.

To specify the destination folder, click Change. You can change only the root folder where the Genetec

Security Center 5.12 folder is created. On a 64-bit machine, the default root folder is C:\Program Files (x86).

7

On the Genetec™ Security Center Language Selection page, select the user interface language for Security

Center applications, and click Next.

NOTE: Online help for Security Center applications is not available in all languages supported by the user interface.

TIP: After installing Security Center, you can change the user interface language with the Language Tool

found in the Genetec Security Center program group in the Start menu.



Installing Security Center

8

On the Installation Type page, select Main server, and click Next.

IMPORTANT: There must be only one Main server installation per system. If your Security Center license supports more Directory servers, they must be installed as expansion servers. For more information, see [Setting up Directory failover and load balancing](#).

9

On the Help Improve Genetec™ Products page, select how much you want to participate in our data collection, and click Next.

A short description of each option and a link to our Global Privacy Policy are available by clicking [View more details](#).

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

10

On the Database Server page, select an SQL database, and click Next.

The following options are available:

-

Use an existing database server: Selects an existing Microsoft SQL Server instance on the local machine or another server.

TIP: Click Browse to see a list of SQL Server instances you can connect to in a dialog box. If you do not see the SQL Server instance you want, close the dialog box and enter its name manually.

BEST PRACTICE: Replace (local) with either the computer name or hostname, and port, if required.

For example: DB_SERVER.GENETEC.COM,1433\SQLEXPRESS

Use a computer name or hostname if you are configuring the Directory for load balancing. For more information, see Directory failover and load balancing.

If you are upgrading from a supported version of Security Center, the installer automatically upgrades all databases that your system requires.

If you are using an old version of SQL Server Express, you can upgrade your database server to SQL Server 2022 Express Advanced if the following conditions are met:

- You are running a version of Windows that supports SQL Server 2022 Express Advanced. This means the 64-bit version of Windows 10, Windows 11, or Windows Server 2016 or later.

- Your current version of SQL Server is upgradable to SQL Server 2022 Express Advanced. This means one of the following versions:

- SQL Server 2012 SP4 Express, version 11.0.7001.0 or later

- SQL Server 2014 SP3 Express, version 12.0.6024.0 or later

- SQL Server 2016 SP3 Express, version 13.0.6300.2 or later

- SQL Server 2017 Express, version 14.0.1000.169 or later

- SQL Server 2019 Express, version 15.0.2000.5 or later

- Install a new database server:
Installs Microsoft SQL Server 2022 Express Advanced on this computer. You must choose a database server name. The default is SQLEXPRESS.
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

NOTE: The database server name is not case-sensitive but must meet all following criteria:

- It cannot be the same name as an existing SQL instance on your server.
 - It cannot match any of the SQL Server reserved keywords, such as DEFAULT, PRIMARY, and so on.
 - It cannot be longer than 16 characters.
 - The first character of the instance name must be a letter or an underscore (_). Acceptable letters are defined by the Unicode Standard 2.0, including Latin characters a-z and A-Z, and letter characters from other languages.
 - Subsequent characters can be letters defined by the Unicode Standard 2.0, decimal numbers from Basic Latin, or other national scripts, the dollar sign (\$), or an underscore (_).
 - It cannot contain spaces or the following characters: \ , : ; ' & # @
NOTE: SQL Server 2022 Express is supported only on the 64-bit version of Windows 10, Windows 11, and Windows Server 2016 and later. If the version of Windows you are running is not one of these, quit the Security Center installation, download SQL Server 2014 Express SP3 from Microsoft Download Center, and install it first before installing Security Center.
 - Use an existing Azure SQL database: Selects a predefined Microsoft Azure SQL database.
- 11
- On the Database Server Authentication page, select the database server authentication method.

a)

Select one of the following options:

- Windows authentication: This is the default option. We recommend using this method wherever possible. With Windows authentication, users who are already logged on to Windows do not need to log on separately to SQL Server. The only time you cannot use Windows authentication is if you

are using an Azure SQL database.

- SQL Server and Windows authentication (mixed mode): Use the mixed mode if you are using an Azure SQL database. Also provide the credentials to be used to connect to SQL Server.

b)

Click Next.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

12

On the Service Logon Parameters page, set the username and password used to run Security Center services.

a)

Select one of the following options:

- Use default name and password: Select this option to use the LocalSystem account to run your Security Center services. The LocalSystem account has extensive privileges on the local computer and acts as the computer on the network.

- Specify the username and password for all services: Select this option if you want to restrict the privileges granted to the service user. Enter a valid domain username and a strong password, and record them in a safe place. You must provide these credentials every time you upgrade your Security Center software. Use industry best practices for creating strong passwords.

IMPORTANT: Make sure that the service user is a local administrator and not a domain administrator. The service user must have sufficient rights to the local or remote database, and Log on as service user rights. If this server hosts the Active Directory role, the specified user must also have read and write access to the Active Directory that you want the server to connect to.

NOTE: The service user automatically creates all the necessary databases when the system is started for the first time. For this reason, the service user needs the SQL Server role, dbCreator, for its first run. After the databases are created, you can remove the dbCreator role.

To avoid having to grant the dbCreator role to the service user, you can create the databases required by the Security Center roles yourself, as empty databases. When the system is started for the first time, the service user has to create only the tables, without going through the database creations. For the list of Security Center roles that need a database and the minimum SQL Server roles they require, see About connecting to SQL Server with an account that has administrative privileges.

You can also deny the service user the dbCreator role and create the databases later. In this case, the Security Center roles that require a database fail at system startup. Then create the databases and restart each role manually. You can also change the service user later from Microsoft Management Console.

b)
Click Next.
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

13
On the Server Configuration page, set the server connection parameters.

a)
Complete the following fields:

- Server port: The TCP port through which the servers in your system communicate.

- Web server port: The HTTP port that is used for the web-based Server Admin. If you change the default port, the Server Admin address must include the port number in the URL. For example, `http://computer:port/Genetec` instead of `http://computer/Genetec`. The link to Server Admin, accessible through Start menu, automatically includes this port.
CAUTION: Watch out for conflicts with other software, such as a Skype, running on the server that might use port 80.

- Password and Confirm password: Enter and confirm the password to open the web-based Server Admin.
BEST PRACTICE: If you are upgrading your Security Center installation, the existing server password is kept by default. If you are using a blank password, we recommend that you enter a new one that contains at least one uppercase character, one lowercase character, one number, and one special character.

IMPORTANT: If you lose the server password, call Genetec Technical Support to reset it.

b)
Click Next.
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

14
On the Firewall Rules page, grant the installer permission to configure automatically the Windows Firewall for Security Center, and click Next.

NOTE: This option affects only the Windows Firewall. After installation, you must also configure the

required ports on other firewalls that control Security Center communication. Firewall ports must also be updated after a major upgrade. For more information about firewall ports, see the Security Center Administrator Guide.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

15

If old configuration files (ConfigurationFiles*.gconfig) are detected on your computer, you can select which configuration to use. This step is skipped if you are upgrading your system.

a)

Select one of the following options:



Keep existing settings: Use the existing configuration files detected for an older release of the current major version (5.12). This option is hidden if Security Center 5.12 was never installed on this computer.



Deploy new settings: Disregard any existing configuration files you might have on your computer and install the default configuration files for the version you are installing.



Use settings found in <Security Center Installation Folder>: Use the configuration files found in an older Security Center installation Directory role. This option is available only if an older major version of Security Center is detected.

b)

Click Next.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

16

On the Security Settings page, configure features to make your system more secure.

- Select Recommended to set the default security settings, and click Install to start the installation.
The recommended security settings are:
- If the certificate is self-signed, whitelist the identity certificate of the first Directory server this machine connects to.
- Disable basic access authentication for cameras in favor of the more secure digest access authentication.
- Automatically check for software updates.
- Enable Genetec™ Update Service (GUS) integration in Security Center.
- Select Custom (Advanced) to configure the security settings, and click Next.
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

17

If you selected Custom (Advanced), configure the security settings.

a)

Configure the following settings:

- Always validate the Directory certificate: Select this option to force all client and server applications on the current machine to validate the identity certificate of the Directory before connecting to it.
BEST PRACTICE: If you enable Directory authentication, use a certificate issued by a trusted certificate authority (CA). Otherwise, the first time this computer connects to the

Directory, the user is prompted to confirm the identity of the Directory server.

For more information, see [What is Directory authentication?](#).

- Refuse basic authentication: Basic access authentication for cameras is turned off by default to prevent camera credentials from being compromised when the Archiver connects to a video unit.
IMPORTANT: When this option is selected, cameras that support only basic access authentication do not work.

TIP: Most recent video unit models support digest access authentication. If you are not sure whether your cameras support digest or not, leave the default setting as is. After installation, if some cameras do not work, you can always turn basic access authentication on again.

- Automatically check for security and enhancement updates for Genetec™ products: Select this option to allow GUS to check automatically for updates of all installed Genetec products.
- Enable Genetec™ Update Service (GUS) integration in Security Center: Enable this option to make GUS available in Config Tool.
b) Select I acknowledge that I have read and understood the implications of selecting these security settings, and click Install to start the installation.
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

18
On the Windows Features Summary page, click Next.

The following icons indicate Windows feature installation status:

- – Windows feature installed successfully.
- – Windows feature not required.
- – Windows feature not installed.
- – Action required. Any required action is explained on the Windows Features Summary page.

The Security Center installation does not fail if a Windows feature cannot be installed for some reason.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

19

On the Installation Completed page, select the required post-installation options, and click Finish.

If you selected Launch Server Admin, Server Admin opens in a browser window. Before using Security Center, you must connect to Server Admin and activate your product license.

If you selected Connect me to GTAP for the latest updates now and your machine has internet access, you are connected to the Genetec Product Download page on GTAP. You need a username and a password to log in.

If you selected Launch Security Desk, Security Desk opens automatically. However, you cannot log on to the Directory until your product license is activated.

If you get a message asking you to restart your computer, click Yes.

If you get a warning message that the SQL Server 2022 Express Advanced telemetry service cannot be

disabled, disable it manually.

The Security Center main server is now installed.

After you finish

- Activate your product license from the Server Admin.
 - Configure Genetec™ Update Service.
For more information, see the Genetec™ Update Service User Guide.
 - If required, install Security Center on expansion servers.
- Related Topics

Activating Security Center license using the web on page 54
Activating Security Center license manually on page 57
Installing Security Center expansion servers on page 62
Installing SQL Server independently of Security Center on page 34

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Activating Security Center license using the web

After you install Security Center on the main server or promote an expansion server to a main server, you must activate your Security Center license on the main server. If you have internet access, you can activate your Security Center license using web activation from Server Admin.

Procedure

1

Open the Server Admin web page by doing one of the following:

- If connecting to Server Admin from the local host, double-click Genetec™ Server Admin () in the Genetec Security Center folder in the Windows Start menu.
 - If you are not on the main server, type `https://computer:port/Genetec` in your web browser, where `computer` is the hostname or the IP address of your server and `port` is the web server port specified during the Security Center expansion server installation.
- 2
Enter the server password that you set during the server installation, and click Log on.

The Server Admin Overview page opens.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

3

In the License section, click Modify.

4

In the License management dialog box, click Web activation and enter your System ID and Password.

Your system ID and password are specified in the Security Center License Information document. Our

Customer Service team sends you this document when you purchase the product.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

5

Click Activate.

Your license information appears in the License section of the Server Admin Overview page.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Activating Security Center license manually

After you install Security Center on the main server or promote an expansion server to a main server, you must activate your Security Center license on the main server.

What you should know

If you do not have internet access, you can manually activate your Security Center license from Server Admin and the Genetec™ Technical Assistance Portal (GTAP).

Procedure

1

Open the Server Admin web page by doing one of the following:



If connecting to Server Admin from the local host, double-click Genetec™ Server Admin () in the

Genetec Security Center folder in the Windows Start menu.

- If you are not on the main server, type `https://computer:port/Genetec` in your web browser, where `computer` is the hostname or the IP address of your server and `port` is the web server port specified during the Security Center expansion server installation.
- 2 Enter the server password that you set during the server installation, and click Log on.

The Server Admin Overview page opens.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑ Installing Security Center

- 3 In the License section, click Modify.

- 4 In the License management dialog box, click Manual activation, and then under Validation key, click Save to file.

The validation key is a sequence of numbers (in hexadecimal text format) generated by Security Center that uniquely identifies your server. The validation key is used to generate the license key that unlocks your Security Center software. The license key can only be applied to the server identified by the validation key.

A text file named `validation.vk` is saved to your default Downloads folder. Copy the file to a USB key or a location that you can access from a computer that has internet access.



Installing Security Center

5

From a computer with internet access, open GTAP at:
<https://portal.genetec.com/support>.

6

On the Login page, do one of the following:



Enter your system ID and password, and then click Login.
Your system ID and password are specified in the Security Center License Information document. Our Customer Service team sends you this document when you purchase the product.



Enter the email address for your GTAP user account and password, and then click Login

7

On the GTAP homepage, open the Genetec Portal menu and click Technical Assistance > System Management.

8

On the System Management page, type your system ID and click Search.
The System Information page opens.



Installing Security Center

9

In the License information section, click Activate license.

10

In the dialog box that opens, browse to your validation key (.vk file), and click Submit.

11

When you receive the License activation successful message, click Download under License Key and save the license key to a file.

The default file name is your system ID, followed by _Directory_License.lic.

12

Return to the Server Admin that is connected to your Security Center main server.

13

In the License management dialog box, do one of the following:

- Paste your license information from the license key file by copying the content from a text editor.
 - Browse for the license key (.lic file), and click Open.
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

14

Click Activate.

Your license information appears in the License section of the Server Admin Overview page.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0



Installing Security Center

Installing Security Center expansion servers

To add processing power to your Security Center system, you can install expansion servers and connect them to the main server.

Before you begin

- Prepare to install Security Center.
 - Install the Security Center main server, and ensure that it is up and running.
- What you should know

An expansion server installation includes the following:

- The Genetec™ Server service without the Directory role.
 - Server Admin
 - Genetec™ Watchdog
 - (Optional) Client applications: Config Tool, Security Desk, or both.
- Procedure

1
Right-click either setup.exe (standalone version) or SecurityCenterWebSetup.exe (web version), and click Run as administrator.
The InstallShield Wizard opens.
NOTE: Only the standalone installer is illustrated in this procedure.

2
On the Choose Setup Language page, select the language of the InstallShield Wizard,

and click Next.

3

On the welcome page, click Next.

Links to relevant Security Center information are provided.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

4

On the License Agreement page, read the terms in the Software License Agreement, select I accept the

terms in the license agreement, and click Next.

If you are upgrading from a previous major version, a Backward Compatibility notice opens. Ensure that you understand the backward compatibility requirements before proceeding.

5

On the Cached MSI Files Verification page, select one of the following options and click Next.

•

Recommended: It is particularly important to ensure that all MSI files cached by Windows Installer are present on your system before proceeding with the installation if you are upgrading your system or changing your installation. If a cached MSI file is found missing, installation is interrupted and instructions are provided on how to resolve the issue.

•

Advanced: Select this option only if you are an experienced Security Center installer. This option mirrors the behavior found in Security Center 5.12.1.0 and earlier versions. Note that if a cached MSI file is missing, no assistance is provided.

For more information on cached MSI files, click Explanation on missing cached MSI

files.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

6

On the Custom Setup page, select the Security Center features to install, specify the destination folder, and click Next.

NOTE: Server is mandatory. All other features are optional.

To specify the destination folder, click Change. You can change only the root folder where the Genetec

Security Center 5.12 folder is created. On a 64-bit machine, the default root folder is C:\Program Files (x86).

7

On the Genetec™ Security Center Language Selection page, select the user interface language for Security

Center applications, and click Next.

NOTE: Online help for Security Center applications is not available in all languages supported by the user interface.

TIP: After installing Security Center, you can change the user interface language with the Language Tool

found in the Genetec Security Center program group in the Start menu.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

8

On the Installation Type page, select Expansion server, and click Next.

9

On the Database Server page, select an SQL database, if required, and click Next.

The following options are available:

-

Use an existing database server: Selects an existing Microsoft SQL Server instance on the local machine or another server.

TIP: Click Browse to see a list of SQL Server instances you can connect to in a dialog box. If you do not see the SQL Server instance you want, close the dialog box and enter its name manually.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

BEST PRACTICE: Replace (local) with either the computer name or hostname, and port, if required.

For example: DB_SERVER.GENETEC.COM,1433\SQLEXPRESS

Use a computer name or hostname if you are configuring the Directory for load balancing. For more information, see Directory failover and load balancing.

If you are upgrading from a supported version of Security Center, the installer automatically upgrades all databases that your system requires.

If you are using an old version of SQL Server Express, you can upgrade your database server to SQL

Server 2022 Express Advanced if the following conditions are met:

- You are running a version of Windows that supports SQL Server 2022 Express Advanced. This means the 64-bit version of Windows 10, Windows 11, or Windows Server 2016 or later.

- Your current version of SQL Server is upgradable to SQL Server 2022 Express Advanced. This means one of the following versions:

- SQL Server 2012 SP4 Express, version 11.0.7001.0 or later

- SQL Server 2014 SP3 Express, version 12.0.6024.0 or later

- SQL Server 2016 SP3 Express, version 13.0.6300.2 or later

- SQL Server 2017 Express, version 14.0.1000.169 or later

- SQL Server 2019 Express, version 15.0.2000.5 or later

- Install a new database server:
Installs Microsoft SQL Server 2022 Express Advanced on this computer. You must choose a database server name. The default is SQLEXPRESS.
NOTE: The database server name is not case-sensitive but must meet all following criteria:

- It cannot be the same name as an existing SQL instance on your server.

- It cannot match any of the SQL Server reserved keywords, such as DEFAULT, PRIMARY, and so on.

- It cannot be longer than 16 characters.

- The first character of the instance name must be a letter or an underscore (_). Acceptable letters are defined by the Unicode Standard 2.0, including Latin characters a-z and A-Z, and letter characters from other languages.

- Subsequent characters can be letters defined by the Unicode Standard 2.0, decimal numbers from Basic Latin, or other national scripts, the dollar sign (\$), or an underscore (_).

It cannot contain spaces or the following characters: \ , : ; ' & # @

NOTE: SQL Server 2022 Express is supported only on the 64-bit version of Windows 10, Windows 11,

and Windows Server 2016 and later. If the version of Windows you are running is not one of these,

quit the Security Center installation, download SQL Server 2014 Express SP3 from Microsoft Download

Center, and install it first before installing Security Center.

- Use an existing Azure SQL database: Selects a predefined Microsoft Azure SQL database.

- Do not select a database server now: Install this expansion server without a database. Roles that need a database cannot be hosted on this server. A SQL database can be added later.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

10

On the Database Server Authentication page, select the database server authentication method.

a)

Select one of the following options:

- Windows authentication: This is the default option. We recommend using this method wherever possible. With Windows authentication, users who are already logged on to Windows do not need to log on separately to SQL Server. The only time you cannot use Windows authentication is if you are using an Azure SQL database.

- SQL Server and Windows authentication (mixed mode): Use the mixed mode if you are using an Azure SQL database. Also provide the credentials to be used to connect to SQL Server.

b)

Click Next.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0



Installing Security Center

11

On the Service Logon Parameters page, set the username and password used to run Security Center services.

a)

Select one of the following options:

-

Use default name and password: Select this option to use the LocalSystem account to run your Security Center services. The LocalSystem account has extensive privileges on the local computer and acts as the computer on the network.

-

Specify the username and password for all services: Select this option if you want to restrict the privileges granted to the service user. Enter a valid domain username and a strong password, and record them in a safe place. You must provide these credentials every time you upgrade your Security Center software. Use industry best practices for creating strong passwords.

IMPORTANT: Make sure that the service user is a local administrator and not a domain administrator. The service user must have sufficient rights to the local or remote database, and Log on as service user rights. If this server hosts the Active Directory role, the specified user must also have read and write access to the Active Directory that you want the server to connect to.

NOTE: The service user automatically creates all the necessary databases when the system is started for the first time. For this reason, the service user needs the SQL Server role, dbCreator, for its first run. After the databases are created, you can remove the dbCreator role.

To avoid having to grant the dbCreator role to the service user, you can create the databases required by the Security Center roles yourself, as empty databases. When the system

is started for the first time, the service user has to create only the tables, without going through the database creations. For the list of Security Center roles that need a database and the minimum SQL Server roles they require, see About connecting to SQL Server with an account that has administrative privileges.

You can also deny the service user the dbCreator role and create the databases later. In this case, the Security Center roles that require a database fail at system startup. Then create the databases and restart each role manually. You can also change the service user later from Microsoft Management Console.

b)
Click Next.
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

12
On the Server Configuration page, set the server connection parameters.

a)
Complete the following fields:

- Server port: The TCP port through which the servers in your system communicate.
- Web server port: The HTTP port that is used for the web-based Server Admin. If you change the default port, the Server Admin address must include the port number in the URL. For example, `http://computer:port/Genetec` instead of `http://computer/Genetec`. The link to Server Admin, accessible through Start menu, automatically includes this port.

CAUTION: Watch out for conflicts with other software, such as a Skype, running on the server that might use port 80.

- Server address: The hostname or IP address and port used to connect to the main server.
If you changed the default port number (5500) of the main server, enter the correct number here.

- Password/Confirm password: Enter and confirm the main server password.
b)
Click Next.
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

13
On the Firewall Rules page, grant the installer permission to configure automatically the Windows Firewall for Security Center, and click Next.

NOTE: This option affects only the Windows Firewall. After installation, you must also configure the required ports on other firewalls that control Security Center communication. Firewall ports must also be updated after a major upgrade. For more information about firewall ports, see the Security Center Administrator Guide.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Installing Security Center

14
If old configuration files (ConfigurationFiles*.gconfig) are detected on your computer, you can select which

configuration to use. This step is skipped if you are upgrading your system.

a)

Select one of the following options:

- Keep existing settings: Use the existing configuration files detected for an older release of the current major version (5.12). This option is hidden if Security Center 5.12 was never installed on this computer.
- Deploy new settings: Disregard any existing configuration files you might have on your computer and install the default configuration files for the version you are installing.
- Use settings found in <Security Center Installation Folder>: Use the configuration files found in an older Security Center installation Directory role. This option is available only if an older major version of Security Center is detected.

b)

Click Next.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

15

On the Security Settings page, configure features to make your system more secure.

- Select Recommended to set the default security settings, and click Install to start the installation.
The recommended security settings are:
- If the certificate is self-signed, whitelist the identity certificate of the first Directory server this machine connects to.
- Disable basic access authentication for cameras in favor of the more secure digest access authentication.

- Automatically check for software updates.
 - Enable Genetec™ Update Service (GUS) integration in Security Center.
 - Select Custom (Advanced) to configure the security settings, and click Next.
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

16

If you selected Custom (Advanced), configure the security settings.

a)

Configure the following settings:

- Always validate the Directory certificate: Select this option to force all client and server applications on the current machine to validate the identity certificate of the Directory before connecting to it.
BEST PRACTICE: If you enable Directory authentication, use a certificate issued by a trusted certificate authority (CA). Otherwise, the first time this computer connects to the Directory, the user is prompted to confirm the identity of the Directory server.

For more information, see What is Directory authentication?.

- Refuse basic authentication: Basic access authentication for cameras is turned off by default to prevent camera credentials from being compromised when the Archiver connects to a video unit.
IMPORTANT: When this option is selected, cameras that support only basic access authentication do not work.

TIP: Most recent video unit models support digest access authentication. If you are not sure

whether your cameras support digest or not, leave the default setting as is. After installation, if some cameras do not work, you can always turn basic access authentication on again.

- Automatically check for security and enhancement updates for Genetec™ products: Select this option to allow GUS to check automatically for updates of all installed Genetec products.

- Enable Genetec™ Update Service (GUS) integration in Security Center: Enable this option to make GUS available in Config Tool.

b)
Select I acknowledge that I have read and understood the implications of selecting these

security settings, and click Install to start the installation.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

17

On the Windows Features Summary page, click Next.

The following icons indicate Windows feature installation status:

- - Windows feature installed successfully.
- - Windows feature not required.

- - Windows feature not installed.
- - Action required. Any required action is explained on the Windows Features Summary page.

The Security Center installation does not fail if a Windows feature cannot be installed for some reason.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

18

On the Installation Completed page, select the required post-installation options, and click Finish.

If you selected Launch Server Admin, Server Admin opens in a browser window. Before using Security

Center, you must connect to Server Admin and activate your product license.

If you selected Connect me to GTAP for the latest updates now and your machine has internet access, you are connected to the Genetec Product Download page on GTAP. You need a username and a password to log in.

If you selected Launch Security Desk, Security Desk opens automatically. However, you cannot log on to

the Directory until your product license is activated.

If you get a message asking you to restart your computer, click Yes.

If you get a warning message that the SQL Server 2022 Express Advanced telemetry service cannot be

disabled, disable it manually.

The Security Center expansion server is now installed.

After you finish

Connect the expansion server to the main server.

Related Topics

Installing SQL Server independently of Security Center on page 34

Connecting expansion servers to the main server

Whenever you move your main server to a new computer, you must use Server Admin to reconnect all the expansion servers in your Security Center system to the main server.

Before you begin

After successfully installing an expansion server, it automatically connects to the main server. These steps are necessary only if:

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

- You entered the wrong connection parameters to the main server during the expansion server installation.
 - You moved the main server to a different computer.
 - You changed the password on the main server.
 - You enabled Directory authentication on your expansion server, but your Directory certificate is not signed by a trusted certificate authority.
- Procedure

1

Open the Server Admin web page on the expansion server by doing one of the following:

- In the address bar of your web browser, type `https://computer:port/Genetec`, where computer is the hostname or the IP address of your expansion server, and port is the web server port specified during the Security Center Server installation. You can omit the web server port if you are using the default value (443).

- If connecting to Server Admin from the local host, double-click Genetec™ Server Admin () in the Genetec Security Center folder in the Windows Start menu.

2
Enter the password and click Log on. The initial expansion server password is the main server password that was entered during the expansion server installation. This password is synchronized with the current main server password after the expansion server successfully connects to the main server.

The Server Admin Overview page appears.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

3
If you are not connected to the main server, click Main server connection at the top of the Server Admin window.

4
Enter the Server address (main server hostname or IP address) and Password, and then click Save.

5
When prompted to restart the service, click Yes. While the Genetec™ Server service restarts, you are temporarily logged off from Server Admin.

6

After the Genetec™ Server service restarts, log back on to Server Admin to verify the main server connection.

The main server is connected.

If Always validate the Directory certificate is set, you might see a message that the identity of the Directory server cannot be verified.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

7

If the identity of the Directory server cannot be verified, do the following:

a)

Click Main server connection.

b)

In the dialog box, verify that the certificate of your main server is as expected, and click Accept certificate.

IMPORTANT: The accepted certificate is stored in a local allowlist, and you should not be prompted to

accept it again. If you are, then you should immediately notify your IT department. BEST PRACTICE: To avoid having to accept the main server certificate every time someone connects

to it from a new machine, use only certificates signed by a certification authority that is trusted by your company's IT.

c)

Click Save.

d)

When prompted to restart the service, click Yes.

While the Genetec™ Server service restarts, you are temporarily logged off from Server Admin.

The expansion server is now connected to the main server. The two servers can remain connected, even when you change the certificate, on one or both of the servers. For this to work, the two servers must be connected while the change is made.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Installing Security Center client software

When Security Center is up and running, you require client software to configure and use the system. A client installation includes Config Tool and Security Desk by default.

Before you begin



- Install the Security Center main server, and ensure that it is up and running.

What you should know

This task describes installing Security Center client software on a computer without an existing Security Center installation. To add client software to an existing Security Center instance, see [Modifying the installed Security Center components on page 83](#) .

Procedure

1

Right-click either `setup.exe` (standalone version) or `SecurityCenterWebSetup.exe` (web version), and click Run

as administrator.

The InstallShield Wizard opens.

NOTE: Only the standalone installer is illustrated in this procedure.

2

On the Choose Setup Language page, select the language of the InstallShield Wizard, and click Next.

3

On the welcome page, click Next.

Links to relevant Security Center information are provided.

4

On the License Agreement page, read the terms in the Software License Agreement, select I accept the

terms in the license agreement, and click Next.

If you are upgrading from a previous major version, a Backward Compatibility notice opens. Ensure that

you understand the backward compatibility requirements before proceeding.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

5

On the Cached MSI Files Verification page, select one of the following options and click Next.

-

Recommended: It is particularly important to ensure that all MSI files cached by Windows Installer

are present on your system before proceeding with the installation if you are upgrading your system

or changing your installation. If a cached MSI file is found missing, installation is interrupted and

instructions are provided on how to resolve the issue.

-

Advanced: Select this option only if you are an experienced Security Center installer. This option mirrors the behavior found in Security Center 5.12.1.0 and earlier versions. Note that if a cached MSI file is missing, no assistance is provided. For more information on cached MSI files, click [Explanation on missing cached MSI files](#).

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

6

On the Custom Setup page, select the Security Center features to install.

You must select Config Tool, Security Desk, or both from the list.

7

If you have earlier client versions installed on your machine and want to remove them, select Uninstall earlier client versions.

8

To specify the destination folder, click Change. You can change only the root folder where the Genetec

Security Center 5.12 folder is created. On a 64-bit machine, the default root folder is C:\Program Files (x86).

9

Click Next.

10

On the Genetec™ Security Center Language Selection page, select the user interface language for Security

Center applications, and click Next.

NOTE: Online help for Security Center applications is not available in all languages supported by the user interface.

TIP: After installing Security Center, you can change the user interface language with the Language Tool

found in the Genetec Security Center program group in the Start menu.

11

On the Firewall Rules page, grant the installer permission to configure automatically the Windows Firewall

for Security Center, and click Next.

12

On the Security Settings page, configure features to make your system more secure and click Install.

13

On the Windows Feature Summary page, click Next.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

14

On Installation Completed page, select the required post-installation options, and click Finish.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Modifying the installed Security Center components

After installing Security Center on a computer, you can add or remove the installed components.

Procedure

1

Open the Windows Control Panel.

2

Click Programs > Programs and Features.

3

In the Programs and Features window, right-click Genetec Security Center Installer and then click

Change.

The Genetec™ Security Center Installer window opens on the Program Maintenance page.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

4

Click Modify.

The Custom Setup page is displayed. The components that are currently installed on your computer are indicated with a blue square in the checkbox.

NOTE: Checkboxes might look different in Windows 10.

5

Choose which components to install, keep, or remove:

-

Select a checkbox to install a component or keep an already installed component.

-

Clear a checkbox to not install a component or remove an already installed component.

NOTE: Do not leave any blue squares. Every checkbox must be either selected or cleared.

6

Click Next.

The modification process starts immediately.

Your Security Center installation is modified according to your new selections.

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Completing the installation process

After you install Security Center, you can check the status of your system with a series of steps.

Before you begin

Install Security Center.

Procedure

1

If you chose to create the databases yourself, create them now.

If you use default database names, the service user can connect to them automatically. The default

database names are the role names without the spaces, with the following exceptions:

-

The default database name for the ALPR Manager role is LPRManager.

-

The default database name for the Record Caching Service role is RecordCache.

If your database names are different from the default ones, you must change the setting in Server Admin

for the Directory database and in the roles' Resources page in Config Tool for the role databases.

IMPORTANT: Delete the default databases before creating new ones. Use a different database name for each role to avoid confusion.

2

Log on to Server Admin, click Overview, and check the following:

-

Directory database is connected (

).

☐

Directory is ready (

).

☐

License is valid (

) and all required features are present.

☐

All installed servers are connected (

).

☐

SMA contract number is confirmed with expiration date.

☐

Mail server (SMTP) is configured.

☐

Genetec™ Watchdog is configured for email notifications and recipients.

3

Under Servers (

), click the main server (

), and check the following:

☐

Automatic Directory database backup is enabled and configured.

NOTE: If the database is local to the Directory server, check under Database properties (

). If the

database is hosted on an external machine, confirm that automatic backup is configured on that machine.

☐

Retention periods for various types of data are properly configured.

NOTE: Keep in mind the database size when SQL Express is being used. A long retention period might

cause database size issues if your system generates numerous events.

☐

Data collection policy is properly configured.

☐

The correct network interface card (NIC) is selected.

☐

Server authentication certificate is configured.

4

Under Servers (

), click each expansion server, and check the following:

□

The correct NIC is selected.

□

Server authentication certificate is configured.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

5

Log on to Security Center through Config Tool, open the Network view task, and check the following:

□

All servers are online with no health issues.

□

The proper network protocol is in use based on network capabilities.

□

Public addresses are configured properly where needed.

□

Network address and subnet mask correspond to the actual network.

For more information, see About the Network view.

6

Open the System task, click Roles, and check the following:

□

Roles are online with no health issues (not displayed in a yellow warning state).

□

Roles are connected to their database (when applicable).

□

Automatic backup is configured for role databases (if required).

NOTE: If a database is local to the server that hosts the role, check under

Resources > Backup/

Restore (

). If the database is hosted on an external machine, confirm that automatic backup is

configured on that machine.

□

NIC is selected for each role, and in the case of the Media Router, for each redirector.

□

Whenever role failover is configured for roles other than the Archiver and the

Directory, the role
database is hosted on a third computer.

7

Open the User management task, and ensure that the Admin user has a password.

8

Check that you can log on to Security Center through Security Desk.
If that doesn't work, you can troubleshoot the main server.

9

On all Security Center servers, check the following:

☐

Unused NICs are disabled.

☐

NIC binding order is properly configured.

For more information, see Best practices for configuring network cards on your
servers for Security
Center.

☐

Server isn't a domain controller.

☐

Windows update is set to not automatically install.

☐

Windows clock is synchronized to a time source.

For more information, see What is time synchronization? .

☐

No unwanted application is running.

☐

System drive has sufficient free space.

☐

CPU memory and usage are under acceptable thresholds.

Recommended CPU usage is under 85%. Refer to Microsoft documentation for memory
usage
thresholds.

☐

Windows storage indexing is disabled on all drives used for video archiving.

☐

Windows Event Viewer is free of critical errors or restarts.

☐

Antivirus software is configured properly and all exclusions are made.

For more information, see Best practices for configuring antivirus software for
Security Center.

After you finish

- Read and follow the Best practices for Windows settings.
 - Depending on your deployment requirements, complete your system configuration for:
 - User management (users, user groups, and partitions)
 - Schedules (follow our best practices for naming conventions)
 - Video surveillance and management
 - Access control
 - License Plate Recognition
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

For more information about deploying your system, see the Security Center Administrator Guide.

For information about how to enhance the security of your Genetec Security Center system, see the Security Center Hardening Guide.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Installing Security Center

Uninstalling Security Center

If you need to completely remove Security Center from your system before re-installing it, you must perform a series of steps. This includes removing all data, configuration settings, and

video archives.

What you should know

CAUTION: If you are uninstalling a previous version of Security Center Client and a Security Center 5.12 Server is installed on the same computer, the server component is also uninstalled. You will need to reinstall the Security Center Server.

Procedure

1

Take note of the following:

- The service logon username and password for all your servers.
- The name of the database server used to manage the Directory database.

2

In Server Admin, back up the Directory database by clicking Backup/Restore under the Database section in the Directory tab.

3

Back up the database of each role configured in the system.

4

Close all Security Center applications (Security Desk, Config Tool, and Server Admin).

5

Run services.msc in Windows, and stop the Genetec™ Server service.

6

From the Windows Control Panel, open the Programs and Features applet.

7

In the Programs and Features window, right-click Genetec System Availability Monitor Agent, and click

Uninstall > Yes.

8

Right-click Genetec Update Service, and click Uninstall > Yes.

9

Right-click Genetec Security Center Installer, and click Uninstall.

10

In the Remove the Program dialog box, click Remove.

11

When the message Uninstallation Completed appears, click Finish.

Genetec™ Security Center 5.12, the installer program, and all Omnicast™ Compatibility Packs, are removed.

NOTE: The installer removes only the packages with the versions originally installed. Packages updated afterwards, either through a Security Center patch or separately, will remain and must be uninstalled manually using the Add or Remove Programs function in your Windows Control Panel.

12

(Optional) If you do not want to keep database information, including video archives, uninstall the SQL Server.

13

In the Windows Start menu, type regedit, and then press Enter.

14

In the Registry Editor, export the following keys to keep them for future reference, and then delete them from the registry.

-

On 32-bit systems: HKEY_LOCAL_MACHINE\SOFTWARE\Genetec

-

On 64-bit systems: HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Genetec

15

Delete the cache data.

- - C:\ProgramData\Genetec Update Service\SharedGpacks
 -
 - C:\Users\<username>\AppData\Local\Genetec Security Center 5.12\VideoCache
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑ Installing Security Center

16

Make a copy of the following folders if you want to keep them for future reference, and then delete them.

- - On 32-bit systems: C:\Program Files\Genetec Security Center 5.12
 -
 - On 64-bit systems: C:\Program Files (x86)\Genetec Security Center 5.12
 -
 - On all systems:
 -
 - C:\ProgramData\Genetec Security Center
 -
 - C:\ProgramData\Genetec Security Center 5.12
 -
 - C:\ProgramData\Genetec Update Service
 -
 - C:\ProgramData\AppData\Local\Genetec Security Center 5.12
 -
 - C:\Users\<username>\AppData\Local\Genetec Inc
 -
 - C:\Users\<username>\AppData\Local\Genetec Security Center 5.12
 -
 - C:\Users\<username>\AppData\Local\IsolatedStorage
- NOTE: You cannot delete the IsolatedStorage folder if other applications are using it.

17

(Optional) Delete the video archives (G64 files) created by the Archiver.
IMPORTANT: Do not delete the video archives if you keep the Archiver database.



Upgrading to Security Center 5.12

This section includes the following topics:

- "Supported upgrade paths to Security Center 5.12.2.0" on page 91
- "Preparing to upgrade from an earlier release of Security Center 5.12" on page 92
- "Upgrading from an earlier release of Security Center 5.12" on page 93
- "Pre-upgrade checklist for upgrading from an earlier major version of Security Center" on page 94
- "Backing up databases" on page 101
- "Upgrading Security Center 5.9, 5.10, or 5.11 to 5.12" on page 104
- "Upgrading Security Center from 5.6, 5.7, or 5.8 to 5.12" on page 105
- "Removing Omnicast Federation before upgrading Security Center" on page 106
- "Upgrading Directory failover systems from an earlier major version" on page 107
- "What Security Center client features are available when the Directory service is offline?" on page 115

- "Upgrading the Security Center main server" on page 116
- "Upgrading expansion servers in Security Center" on page 124
- "Upgrading Security Center Client" on page 128
- "Upgrading the Security Center Directory database" on page 129
- "Upgrading Security Center with Global Cardholder Synchronizer roles" on page 132

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Supported upgrade paths to Security Center 5.12.2.0

Security Center supports direct upgrades and two-step upgrades to the latest software version. When upgrading, it is important to know your required upgrade path.

Direct upgrades

A direct upgrade to Security Center 5.12.2.0 is supported from the following software versions:

- Security Center 5.12.x.y
- Security Center 5.11.x.y

- Security Center 5.10.x.y
 - Security Center 5.9.x.y
- Two-step upgrades

A two-step upgrade to Security Center 5.12.2.0 is supported from the following software versions:

- Security Center 5.8 GA and all SRs
 - Security Center 5.7 GA and all SRs
 - Security Center 5.6 GA and all SRs
- To maintain backward compatibility during a two-step upgrade, supported systems are first upgraded to the latest release of Security Center 5.9 and then directly upgraded to Security Center 5.12.2.0.

Older version upgrades

To upgrade Security Center 5.5 and earlier, contact your Genetec Inc. representative.

More information

For more information, see our Product Lifecycle page on GTAP.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Preparing to upgrade from an earlier release of Security Center 5.12

If you need to upgrade from an earlier release of Security Center 5.12 to 5.12.2.0,

you must prepare the following.

What you should know

A minor version is a software version that adds new features, SDK capabilities, support for new devices, bug fixes, and security fixes. Different system components can run at different minor versions, provided they share the same major version. No license update is required to upgrade to a new minor version. A minor version is indicated by a version number with a zero at the fourth position: X.Y.Z.0.

A patch version is a software version that adds support for new devices, bug fixes, and security fixes. Patch versions do not affect system compatibility, as long as all your system components are at the same major version. A patch version is indicated by a version number where the fourth position is not a zero.

Procedure

- Make sure you have the following information:
- The service logon username and password for all your servers.
- The name of the database server used to manage the Directory database.
You'll have to re-enter the same values when you install Security Center Server 5.12.2.0.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Upgrading from an earlier release of Security Center 5.12

To have the latest release of Security Center 5.12, you can upgrade from an earlier minor version of 5.12 to

5.12.2.0 after you have completed the preparation steps.
Before you begin

- Understand the things you need to know and do before you upgrade.
- Back up your Directory database, and all role databases.
- In Security Center 5.11.3.0 and later, Omnicast™ Federation™ is not supported. If you have Omnicast systems federated to your system, Omnicast Federation roles will be in a permanent warning state after the upgrade.
NOTE: Omnicast Federation will be disabled in an upcoming major release. Upgrade your Omnicast systems to a supported Security Center version as soon as possible.

What you should know

You do not need to change your license when you upgrade from an earlier minor version of 5.12 to 5.12.2.0 because they share the same major version.

Previous installation choices, such as language and installation types are preserved, and the InstallShield Wizard will not ask for them again.

Procedure

- 1 Upgrade your main server to Security Center 5.12.2.0.
- 2 Upgrade your expansion servers to Security Center 5.12.2.0, according to your priorities.
- 3 Upgrade your client workstations to Security Center 5.12.2.0, according to your priorities.

After you finish

If the file AllowedSynchronizationConfiguration.xml was used to set the synchronization times of your HID VertX

units, the settings must be re-applied manually from Config Tool after the upgrade. TIP: Configure one unit with the required synchronization settings, then use the Copy configuration tool to set the same settings on multiple units.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Pre-upgrade checklist for upgrading from an earlier major version of Security Center

To upgrade your Security Center system from an earlier major version to 5.12.2.0, you must go through a series of preparatory steps.

- A major version is a software version that adds new features, behavioral changes, SDK capabilities, support for new devices, and performance improvements. Using backward compatibility mode, major versions are compatible with up to three previous major versions. A license update is required to upgrade to a new major version. A major version is indicated by a version number with zeros at the third and fourth positions: X.Y.0.0.
- Different versions of the Security Center clients can coexist on the same machine, but different versions of Security Center Server cannot. Not all current settings are kept if you uninstall your current software version before installing the new one.
- If the Active Directory role is on a different domain than the Active Directory it is synchronizing with, you must set up a domain trust relationship. For more information on setting up domain

trust relationships,
see your Microsoft documentation.

Step

Task

Additional information

Understand prerequisites and key issues

1

Read the release notes for any known issues, limitations, and other information about the release.

Security Center Release Notes

2

Review the backward compatibility requirements for Security Center.

Backward compatibility requirements for Security Center on page 95

3

Make sure you have the following information:

- The service logon username and password for all your servers.

- The name of the database server used to manage the Directory database.

Prepare

4

Back up your Directory and role-specific databases to a secure location that is separate from your main server.

Backing up databases on page 101

5

Close all applications related to Microsoft Management Console (MMC), such as Services, Event Viewer, and so on.

These applications might lock the Security Center services and prevent them from being updated.



Upgrading to Security Center 5.12

Step

Task

Additional information

Set up additional software and configuration as needed

6

If you have an Active Directory role in your current system, make sure that the Windows Security Center from a Windows Active Directory user configured to connect to the Windows Active Directory has Read access to the accountExpires attribute.

CAUTION: If the Windows user does not have Read access to the accountExpires attribute, all cardholders and credentials previously imported entities by importing the standard attribute accountExpires. The status of the imported entity automatically changes to inactive after the specified date.

from the Windows Active Directory are deleted the next time you synchronize Security Center with your Windows Active Directory after the upgrade.

Backward compatibility requirements for Security Center

Security Center 5.12.2.0 is backward-compatible with many Security Center components from the three previous major versions. A server or workstation that is three major versions behind can connect to the

5.12.2.0 Directory, but one that is four major versions behind cannot.

To retain backward compatibility when upgrading your system in stages, no part of Security Center can be more than three major versions apart. For systems that are four to six major versions behind, upgrade in two steps to maintain backward compatibility.

IMPORTANT: Adding backward-compatible connections slows down the performance of the Directory. It is

recommended only as a temporary solution before you can upgrade all servers and workstations.

IMPORTANT: For client workstations, backward compatibility applies only to Security Desk. Config Tool is not backward-compatible because it must be of the same version as the Directory.

Backward compatibility in Security Center has the following requirements:

- Upgrading to the latest version: When upgrading, you must always upgrade the main server that hosts the Directory role and Config Tool. Always upgrade expansion servers that host non-backward-compatible roles.
- Using new features: To use the new features introduced in version 5.12.2.0, upgrade your Security Center servers.
- Role assigned to multiple servers: If a role is assigned to multiple servers, such as in a failover configuration, all of its servers must run the same version of Security Center.
- Directory assigned to multiple servers: All Directory servers must use the same version, meaning that all four digits of their version numbers must be the same. For example, if you upgrade to Security Center 5.12.2.0, you must upgrade all servers to 5.12.2.0. For information on enabling and disabling backward compatibility, see [Enabling backward compatibility and Disabling backward compatibility on the TechDoc Hub](#).

Backward compatibility between Security Center roles

Each new version of Security Center includes new role features that might be incompatible with earlier

versions. The Security Center roles that are backward-compatible are outlined in the following table.

IMPORTANT: All expansion servers that host a non-backward-compatible role must be upgraded to the same version as the main server hosting the Directory.

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Upgrading to Security Center 5.12

5.12 role
Backward-compatible with 5.9, 5.10, and 5.11
Yes
No

✓
Access Manager

✓
Active Directory

✓
ALPR Manager

Formerly automatic license plate recognition
Manager (5.9.2.0 and earlier)

✓
Archiver

✓
Authentication Service (OpenID & SAML2)

✓
Authentication Service (WS-Federation)
Formerly Active Directory Federation Services

✓

Authentication Service (WS-Trust)
Formerly Active Directory Federation Services

✓

Auxiliary Archiver

✓

Camera Integrity Monitor (hidden)

✓

Cloud Playback (5.10.0.0 and later)

✓

Directory Manager

✓

Global Cardholder Synchronizer (GCS)

✓

Health Monitor

✓

Intrusion Manager

✓

Map Manager

✓

Media Gateway

✓

Media Router

✓

Mobile Credential Manager (5.10.0.0 and later)

✓

Mobile Server

Plugin (all instances)
See Supported plugins in Security Center.

✓

Point of Sale

✓

Privacy Protector™ (hidden)

✓

Record Caching Service (5.10.0.0 and later)

✓

Record Fusion Service (5.10.0.0 and later)

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑

Upgrading to Security Center 5.12

5.12 role
Backward-compatible with 5.9, 5.10, and 5.11

Yes
No

✓

Report Manager

✓

Reverse Tunnel

✓

Reverse Tunnel Server

✓

Security Center Federation™

Unit Assistant

✓(5.10.1.0 and later)1

✓

Wearable Camera Manager

Web App Server2

✓(5.12.0.0 and later)

Formerly Web Server (5.11.1 to 5.11.x)

Web Client Server3

✓(5.12.0.0 and later)

Formerly Web Server (5.11.x and earlier)

✓

Web-based SDK

✓

Zone Manager

1 Unit Assistant is backward-compatible only for the unit password management feature. The unit certificate management feature was introduced only in 5.11.0.0.

2 Starting from 5.12.0, the Web App Server role replaces the Web Server role as the back-end component of Genetec™ Web App. For more information, see About Genetec Web App on the TechDoc Hub.

3 Starting from 5.12.0, the Web Client Server role replaces the Web Server role as the back-end component of Security Center Web Client. For more information, see About Security Center Web Client on the TechDoc Hub. If you are upgrading from 5.11.x or earlier, the name used in the earlier version is preserved. If you are installing 5.12 from scratch and need the Web Client, you must create the Web Client Server role manually.

Backward compatibility with Security Center tasks

The Security Center 5.12 tasks that are backward-compatible with Security Desk 5.9, 5.10 and 5.11 are summarized in the following table:

Task category	Task type	Backward-compatible with Security Desk 5.9, 5.10, and 5.11
		Yes
		No
		✓
Operation	Monitoring (live and playback video)	
		✓
Maps		

✓

Dashboards

✓

Health dashboard

✓

Remote

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑

Upgrading to Security Center 5.12

Task category

Task type

Backward-compatible with
Security Desk 5.9, 5.10, and
5.11

Yes

No

✓

Cardholder management

✓

Credential management

✓

Visitor management

✓

People counting

✓

Hotlist and permit editor

✓

Inventory management

✓

Mustering

✓

Alarm management
Alarm monitoring

✓

Alarm report

Investigation
Genetec Clearance™ activities
See Supported plugins in
Security Center.

✓

Incidents

✓

Transactions

✓

Zone activities

✓

Investigation > Access control
Area activities

✓

Door activities

✓

Cardholder activities

✓

Visitor activities

✓

Area presence

✓

Time and attendance

✓

Credential activities

✓

Credential request history

✓

Elevator activities

✓

Visit details

✓

Investigation > Asset
Asset activities
management

✓

Asset inventory

✓

Investigation > ALPR
Hits

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

⬆
Upgrading to Security Center 5.12

Task category
Task type
Backward-compatible with
Security Desk 5.9, 5.10, and
5.11
Yes
No

✓

Hits (Multi-region)

✓

Reads

✓

Reads (Multi-region)

✓

Identical plate multi-vehicle (5.11.2 and later)

✓

Patroller tracking

✓

Inventory report

✓

Daily usage per Patroller

✓

Logons per Patroller

✓

Reads/hits per day

✓

Reads/hits per zone

✓

Zone occupancy

✓

Parking sessions

✓

Parking zone activities

Investigation > Intrusion

Intrusion detection area activities

✓
detection
Investigation > Record fusion
Unified report1
✓(5.10.0.0 and later)

Investigation > Video

Maintenance

Archives
✓
Bookmarks
✓
Camera events
✓
Motion search
✓
Video file explorer
✓
Forensic search
✓
Security video analytics
✓
System status
✓
Audit trails
✓
Activity trails
✓
Health history
✓

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Upgrading to Security Center 5.12

Task category
Task type
Backward-compatible with
Security Desk 5.9, 5.10, and
5.11
Yes

No

Maintenance > Access control

✓

Health statistics

✓

Hardware inventory

✓

Access control health history

✓

Access control unit event delays (5.11.0 and later)

✓

Access control unit events

✓

Cardholder access rights

✓

Enhanced cardholder access rights

✓

Door troubleshooter

✓

Access rule configuration

✓

Cardholder configuration

✓

Credential configuration

✓

I/O configuration

✓

Maintenance > Intrusion
Intrusion detection unit events
detection

Maintenance > Video

✓

Camera configuration

✓

Archiver events

✓

Archiver statistics

✓

Archive storage details

✓

Wearable camera evidence

1 Used to be called Records in Security Center 5.11.1.0 and earlier.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Backing up databases

You can protect your Security Center system data by regularly backing up its databases to a secure location that is separate from your main server. It is best practice to back up your databases before an upgrade.

What you should know

CAUTION: Do not use virtual machine snapshots to back up your Security Center databases. During the snapshot process, all I/Os on the virtual machine are suspended, which can affect the stability and the performance of your system. We strongly recommend that you follow the procedure described below.

Depending on which role database you want to back up, the procedure can be different.

Procedure

1

For the Directory database without failover, perform the backup from Server Admin.

2

For the Directory database with failover, perform the backup from the Directory Manager's Directory failover page in Config Tool.

3

For any other Security Center role database, perform the backup from Config Tool, on the Resources page of the role.

4

For the Archiver and Auxiliary Archiver roles, after backing up the database, perform an archive transfer to back up the video files.

Backing up the Directory database

You back up the Directory database from Server Admin.

Before you begin

- For non-Directory databases, see Backing up role databases on page 102.
 - If the Backup and restore failover mode is enabled, perform the backup from Config Tool
- What you should know

There are restrictions regarding the backup and restore of the Directory database when the Mirroring failover mode is enabled. For more information, refer to the Microsoft SQL Server Database Mirroring documentation.

Procedure

1

Log on to Server Admin on your computer using a web browser.

2

From the server list, select the main server ().
The Server Admin - Main server page is displayed.

3

Click Database properties () and configure the backup settings:

- Destination folder: Path to the backup folder relative to the server performing the backup. By default, databases are backed up to C:\SecurityCenterBackup on the database server, and configuration files are backed up to the same folder on the server hosting the role. If the folder does not exist, it will be created. To save your backups on a shared network drive, enter the path manually, and ensure
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Upgrading to Security Center 5.12

that both the Genetec™ Server service user and the SQL Server service user have write access to that location.

- Compress backup file: (Optional) Select this option to create a ZIP file instead of a BAK file. If you select this option, you need to unzip the backup file before you can restore it. IMPORTANT: The Compress backup file option only works if the database is local to the server hosting the role.

- Enable automatic backup: (Optional but recommended) Select this option to enable automatic backup on a schedule. Specify the frequency and time of the backup, and how many backup files you want to keep.
NOTE: Backup files you create manually are not counted in the number of retained backup files.

4
Click OK > Save

5

Click Backup/Restore () and then click Backup now.

The backup starts and the progress is shown in the dialog box.

6

When the task is completed, click OK.

A backup file is created in the backup folder with the file extension BAK (or ZIP if the Compress backup file option was selected). The name of the file is the database name, followed by “_ManualBackup_”, and the current date and time.

Backing up role databases

You back up a role database from Config Tool, from the role's Resources page.

Before you begin

For the Directory database, see Backing up the Directory database on page 101.

What you should know

You protect the data managed by a role by backing up its database. For the Archiver and Auxiliary Archiver roles, you also need to back up the video archive because the associated video files are not stored in the database.

Procedure

1

From the Config Tool homepage, open the System task and click the Roles view.

2

Select a role, and click the Resources tab.

3

Click Backup/Restore ().



Upgrading to Security Center 5.12

4

In the Backup/Restore dialog box, beside the Backup folder field, click Select folder (

), and select the

folder where you want to save the backup file.

IMPORTANT: Make sure you select a separate and secure location to store your backups.

NOTE: The location of the Backup folder is relative to the server performing the backup. By default, databases are backed up to C:\SecurityCenterBackup on the database server, and configuration files are backed up to the same folder on the server hosting the role. If the folder does not exist, it will be created.

To save your backups on a shared network drive, enter the path manually, and ensure that both the

Genetec™ Server service user and the SQL Server service user have write access to that location.

5

(Optional) Turn on the Compress backup file option to create a ZIP file instead of a BAK file.

If you select this option, you need to unzip the backup file before you can restore it.

IMPORTANT: The Compress backup file option only works if the database is local to the server hosting

the role.

6

Click Backup now.

A backup file is created in the backup folder with the file extension BAK. The name of the file is the database name, followed by “_ManualBackup_”, and the current date and time.



Upgrading to Security Center 5.12

Upgrading Security Center 5.9, 5.10, or 5.11 to 5.12

To have the latest release of Security Center, you can upgrade directly from the previous three major versions to 5.12.

Before you begin

- Understand the things you need to know and do before you upgrade.
 - In Security Center 5.12.0.0 and later, Omnicast™ Federation™ is disabled and no longer supported. Remove all Omnicast Federation roles before upgrading your system.
- What you should know

Not all tasks and roles work in backward compatibility mode. If you plan to upgrade your system in stages, make sure that the features that are essential to your operation are supported. See Backward compatibility requirements for Security Center on page 95.

NOTE: A role is upgraded only if you upgrade the server hosting the role. If you upgrade only the main server, the roles hosted on the expansion servers that are not yet upgraded work in backward compatibility mode.

IMPORTANT: If you upgrade the ALPR Manager, the Archiver it is linked to must also be upgraded. The upgraded ALPR Manager does not work if the Archiver is working in backward compatibility mode.

Procedure

1

Do one of the following:

-

If you have multiple Directory systems, upgrade all your Directory servers at the same time.

-

If you have a single Directory system, upgrade your main server.

2

Upgrade the rest of your system according to your priorities and schedule.

-

Upgrade your expansion servers.

IMPORTANT: If role failover is configured, upgrade all servers assigned to the same role at the same time. Failing to do so breaks your failover configuration.

-

Upgrade your client workstations.

If both Security Center Client and Server are installed on the same machine, upgrade them together.

IMPORTANT: Make sure to note and apply the same settings used for your previous installation:

passwords, databases, ports, general properties, and so on.

After you finish

If the file AllowedSynchronizationConfiguration.xml was used to set the synchronization times of your HID VertX

units, the settings must be re-applied manually from Config Tool after the upgrade.

TIP: Configure one unit with the required synchronization settings, then use the Copy configuration tool to set the same settings on multiple units.

Related Topics

One or more services failed to install on page 159

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Upgrading Security Center from 5.6, 5.7, or 5.8 to 5.12

To maintain backward compatibility while upgrading Security Center 5.6, 5.7, or 5.8 to 5.12, you must follow a two-step upgrade process.

Before you begin

Understand the things you need to know and do before you upgrade.

What you should know

To retain backward compatibility when upgrading your system in stages, no part of Security Center can be more than three major versions apart. For systems that are four to six major versions behind, upgrade in two steps to maintain backward compatibility.

Procedure

1

Upgrade your system to the latest Security Center 5.9 release.

You need a temporary license and the latest Security Center installation package. Ask one of our

representatives.

a)

Upgrade your main server to Security Center 5.9. Follow the upgrade instructions found in the Security Center Installation and Upgrade Guide 5.9 SR5.

b)

Turn your system on.

All servers and workstations that are not yet upgraded run in backward compatibility mode. This is the first stage.

c)

Upgrade the rest of your system (servers and workstations) to the latest 5.9 release.

Your entire system runs in version 5.9. This is the second stage. You can split this step into as many stages as needed, depending on the number of machines you need to upgrade.

2

Upgrade your system to Security Center 5.12.

Related Topics

One or more services failed to install on page 159

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Removing Omnicast Federation before upgrading Security Center

Omnicast™ Federation™ roles and Omnicast compatibility packs are no longer supported and must be removed from your system when upgrading Security Center to version 5.12.0.0 or later.

Before you begin

-

Upgrade your Omnicast system to a supported Security Center version. For more information, see the

Omnicast Migration Guide.

- Take note of how you have configured your federated entities in your Omnicast Federation role before you remove the role from your system. After you migrate the Omnicast system to Security Center and re-federate it now using the Security Center Federation role, you will have to reconfigure the federated entities with the same values.
What you should know

Omnicast Federation roles that remain in the system after the upgrade will be offline and highlighted in red.

Procedure

- 1 From the Config Tool homepage, open the System task and click the Roles view.
- 2 Select all Omnicast Federation roles, right-click, then click Delete > Continue > Delete.
- 3 From your Windows Control Panel, open the Programs and Features applet.
- 4 In the Programs and Features window, right-click each instance of the Genetec™ Omnicast Compatibility

Package, and then click Uninstall > Yes.

After you finish

Upgrade your system.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Upgrading Directory failover systems from an earlier major version

Directory servers are not backward-compatible. Perform this procedure if you are upgrading Security Center with multiple Directory servers to the latest version or release.

Before you begin

- Read the Security Center Release Notes for important information when upgrading to Security Center 5.12.
 - You need a maintenance window to upgrade all the Directory servers. This period should be scheduled at a time when it's acceptable to run the system with a minimum set of features.
 - Back up the Directory database, all role databases, and configuration files.
 - Make sure to note and apply the same settings in the InstallShield that you used for your previous installation: passwords, database, ports, general properties, and so on.
 - The Config Tool and the Directory must be of the same version.
 - If Config Tool and the Directory are on different machines, upgrade the Config Tool before you upgrade the Directory.
 - Don't change the Directory failover configuration before upgrading; that is, don't remove the secondary Directory servers from the list of Directory servers.
- What you should know
- During the upgrade, the Directory role is stopped. Therefore, Config Tool and most Security Desk features are not available. However, video that is displayed before the Directory service goes offline continues to be streamed in the Security Desk Monitoring task and saved to the Archiver. For example, video walls continue to display video streams. Access control continues to work as well, but operators are unable to use Security Desk to manually open doors, and so on.
 - During the upgrade, each Directory server is upgraded separately. Therefore, the failover feature isn't available.

- License upgrades are necessary only for major version upgrades (for example, from version 5.x to 5.12). It isn't necessary to upgrade the license for minor version upgrades (for example, from 5.12.x.0 to 5.12.y.0).

Procedure

1

On each of the secondary Directory servers in the Directory server list, stop the Genetec™ Watchdog service from the Microsoft Management Console (MMC) Service window.

The secondary Directory servers are indicated with the expansion server icon (). Do not stop the main

server ().

The Genetec™ Server service is stopped on the secondary Directory servers. All roles that run only on secondary Directory servers are offline. Usually each Directory server is responsible for an equal share of the role and client connections. After the secondary Directory servers are stopped, any roles or clients previously connected to one of the secondary Directory servers are forced to reconnect to the primary Directory server. The clients briefly show the "Connection is lost..." message during this process. The roles and their entities appear as offline until they are reconnected.

2

Upgrade the primary Directory server as the main server.

The primary Directory server, also known as the main server (), is the only server that is still active before you start the upgrade process. While the main server is being upgraded, no Directory service is available on the system. Only some features remain functional.

Security Center Installer automatically stops the Genetec Server service on the main server, and restarts it after the upgrade.

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

3

(Applies only to major version upgrades) Activate your Security Center 5.12 license by doing one of the following:

-

If you have internet access, use web activation.

-

If you don't have internet access, use manual activation.

During the license activation, a message warning you that the failover functionality will be broken is displayed.

Don't worry. The failover functionality will be restored later. Click I have read and I understand the

above statement and click Continue.

The Directory service is online. All expansion servers (except the secondary Directory servers) and client workstations that aren't yet upgraded run in backward compatibility mode. Directory failover and load balancing aren't yet available.

4

From Config Tool, connect to the main server. Check that all roles, servers, and units are running as

expected.

The secondary Directory servers are still stopped (in red). Any roles that run only on the secondary Directory servers are still offline.

5

Upgrade the rest of the Directory servers as expansion servers.
Security Center Installer restarts the Genetec™ Server service after each upgrade.
Directory failover and
load balancing are still unavailable.

6

(Applies only to major version upgrades) Reactivate the Security Center 5.12 license for all your Directory servers.

Directory failover and load balancing are now available.

After you finish

Upgrade the rest of your system according to your priorities and schedule.
IMPORTANT: Adding backward-compatible connections slows down the performance of the Directory. It is recommended only as a temporary solution before you can upgrade all servers and workstations.

Related Topics

Backward compatibility requirements for Security Center on page 95
One or more services failed to install on page 159

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Reactivating Security Center license for Directory failover systems

When you add, remove, or change the servers in the Directory failover list, you must generate a new validation key and reactivate your Security Center license from Config Tool.

What you should know

When you have multiple Directory servers configured for failover, you must generate the validation key and apply the license key from Config Tool instead of Server Admin.
IMPORTANT: All Directory servers must be up and running for the license update to work.

Procedure

Start the license reactivation process

1

From the Config Tool homepage, open the System task and click the Roles view.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

2

Select the Directory Manager () role, and click the Directory servers tab.

NOTE: If you add a Directory server in Config Tool and click Apply, the system prompts you to modify your Security Center license.

In the dialog box, choose one of the following options:

- Click Modify license to open the License management window; or
- Click Continue to return to the Directory servers tab without modifying the license.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

3

On the Directory servers tab, click Modify license for all servers.
The License management window opens. You have two options to reactivate your Security Center license:

-

Web activation (Recommended): Use when your workstation has internet access.

-

Manual activation: Use if your workstation doesn't have internet access.
(Recommended) Reactivate your Security Center through the internet

1

In the License management window, click Web activation.

2

In the dialog box that opens, enter your System ID and Password.
Your system ID and password are specified in the Security Center License Information document. Our
Customer Service team sends you this document when you purchase the product.

3

Click Activate > Apply > Apply.
This step completes the license reactivation process.

Reactivate your Security Center manually with a license file

1

In the License management window, click Save to file to save the composite validation key to a .vk file.
Copy the .vk file to a USB key or a location that you can access from a computer that has internet access.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

2

From a computer with internet access, open GTAP at:
<https://portal.genetec.com/support>.

3

On the Login page, do one of the following:

- Enter your system ID and password, and click Login.
- Enter your GTAP user account (your email address) and password, and click Login.

4

On the GTAP homepage, open the Genetec Portal menu and click Technical Assistance > System Management.

5

On the System Management page, enter your system ID and click Search.
The System Information page opens.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

6

In the License information section, under License Key click Download.

7

In the dialog box that opens, select I want to install a Failover Directory, and click Choose File.

8

Browse to where you have your validation key (.vk file), and click Submit.

9

In the License activation successful dialog box, click Download License and save the license key to a file.

The default file name is your system ID, followed by _Directory_License.lic. Copy the .lic file to a USB key or a location that you can access from your Config Tool workstation.

10

Return to the Config Tool workstation.

11

In the License management window, click Manual activation.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

12

In the Manual activation dialog box, browse for the license key file, and click Open.

13

Click Activate.

A dialog box opens, showing your license information.

14

Click Apply to close the dialog box, and click Apply at the bottom of the Config Tool window to save your changes.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

What Security Center client features are available when the Directory service is offline?

During a Security Center system upgrade, all Directory servers must be shut down for a period of time.

During this time, no Directory service is available on the system. Only some features continue to work.

The following Security Center features are available when there is no Directory service:

- Security Desk continues to stream live video from cameras.
- Video continues to be recorded according to schedules as long as Archivers are online.
- All access control functions continue to work as normal, except for commands that must be relayed by the Directory service, such as event-to-actions, and all door open or unlock operations issued from Security Desk.
- Doors can be opened through a switch (input) if all inputs and outputs are controlled by the same access control unit.

The following Security Center features are not available when there is no Directory service:

- Config Tool and Security Desk features are unavailable.
 - All manual actions (manual recording, lock/unlock doors, and so on) performed from the Security Desk widgets are disabled, including camera call-ups.
 - Alarms and live events cannot be displayed on Security Desk.
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Upgrading the Security Center main server

The main server in your current Security Center system must be upgraded before everything else. Activate the new license and upgrade the Directory database.

Before you begin

- Read the things that you need to know and do before you upgrade (see related topics).
 - Back up your Directory database and all role databases accessed from your main server.
BEST PRACTICE: There is an option in the InstallShield Wizard to back up your Directory database after the software upgrade, before restarting your system. Depending on the size of your database, this backup might take several hours. To accelerate your upgrade process, you can back up your Directory database before upgrading the software. Then, when the InstallShield Wizard reaches the Directory Database Backup step, you can choose to skip the backup. However, if you choose to let Genetec™ Update Service (GUS) perform the upgrade, do not back up the Directory database yourself, because GUS always does it for you.
 - Make sure that you have enough disk space for your backup. Delete the backups that you no longer need.
The default backup folder is C:\SecurityCenterBackup on the server hosting SQL Server.
 - In Security Center 5.12.0.0 and later, Omnicast™ Federation™ is disabled and no longer supported. Remove all Omnicast Federation roles before upgrading your system.
- What you should know

You need the Security Center 5.12 Config Tool to connect it to the 5.12 Directory. If the Security Center Client is installed on the main server, upgrade it at the same time.

If a reboot warning message box opens during the upgrade, accept the message and continue with the upgrade procedure. You must reboot after completing the upgrade.

Procedure

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

1

Install Security Center 5.12 on your main server.

If you have Genetec Advantage and are subscribed to our Product Improvement Program, and if the version you want to install corresponds to the most up-to-date version, you can perform the upgrade through Genetec™ Update Service instead of the installer.

If you choose to continue with GUS, the Installer program ends and automatically connects you to the Main GUS. The Main GUS displays a centralized view of all enrolled machines and sends update notifications to them. GUS always backs up the Directory database for you, so you do not need to do it before the upgrade. For more information, see About the Genetec Update Service.

If you choose to continue with the installer, the Installer program automatically detects an earlier version of Security Center and issues warnings and recommendations. Read the messages carefully.

If you continue, the Installer program upgrades Security Center to 5.12.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

2

If you are running a version of SQL Server Express that is not the latest, but one that is upgradable to SQL Server 2022 Express Advanced, the Installer program offers to upgrade it automatically.

Choose one of the following:

-

(Recommended) Let the installer upgrade your SQL Server instance to SQL Server 2022 Express Advanced:

- a.

Click Cancel to close the message box, and then click Cancel to cancel the installation.

- b.

If you have not backed up your databases recently, do it now.

- c.

Rerun the installer.

-

Click Yes to upgrade your SQL Server instance to SQL Server 2022 Express Advanced and continue with the installation.

-

Click No to continue with the installation without upgrading your SQL Server instance.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

3

If you are running SQL Server 2014 Express SP1 or earlier, the Installer program cannot upgrade it to SQL Server 2022 Express Advanced.

Choose one of the following:

- (Recommended) Upgrade your SQL Server instance to SQL Server 2022 Express Advanced:
 - a.
Click Cancel to close the message box, and then click Cancel to cancel the installation.
 - b.
If you have not backed up your databases recently, do it now.
 - c.
Download and run the SQL Server 2014 SP3 Installer.
 - d.
Restart your server.
 - e.
Rerun the Security Center Installer.
 - Click OK to continue with the installation without upgrading your SQL Server instance.
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

4

On the Directory Database Backup page, acknowledge the date of the last Directory database backup, and click Next to continue the installation.

If you select the automatic backup option, the Directory database will be backed up after the software

upgrade, but before the database upgrade.

NOTE: For the last Directory database backup date, the Installer does not differentiate between full and incremental backups. It also does not check whether the backup files are still available. The automatic backup option always performs a full backup.

IMPORTANT: It is possible that the date of the last Directory database backup is

inaccurate if the last backup was performed outside of Security Center. Regardless, we strongly recommend that you back up your Directory database before upgrading, or let the installer do it for you. The option to automatically back up the Directory database is selected by default if the last backup is more than a day old. Do not clear this option if you are not sure whether the most recent changes are included in the last backup.

5

Follow the rest of the InstallShield Wizard instructions, and click Install. The installer updates your Security Center software, backs up the Directory database (if you selected the option), updates the schema of your Directory database (if applicable), and launches Server Admin.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

6

Enter the server password that you set during the server installation, and click Log on.

The Server Admin Overview page opens.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

7

If the automatic backup of the Directory database failed, the Directory does not restart.

Choose one of the following:

- Back up manually. This is the recommended option. It opens the Backup/Restore dialog box. When a backup fails, it is often because you do not have access to the backup folder. If you need to change the backup folder, close this dialog box, select the main server from the list of servers, and click Database properties (). In the dialog box that opens, enter the new Destination folder.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

After the Directory database is successfully backed up, the system restarts. If a database update is required, it is performed automatically before restarting the Directory.

- Skip the backup. Choose this option only if you are sure that the latest backup has all the changes you need. If a database update is required, it is performed automatically. If you do not have a backup of your database, you will not be able to restore it if necessary.

8

If you are upgrading from an earlier major version, activate your new Security Center 5.12 license.

Related Topics

Backing up databases on page 101

Pre-upgrade checklist for upgrading from an earlier major version of Security Center on page 94

Upgrading the Security Center Directory database on page 129

Activating Security Center license using the web on page 54

Activating Security Center license manually on page 57

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Upgrading expansion servers in Security Center

To benefit from the latest enhancements to Security Center, you must upgrade the expansion servers.

To upgrade, install Security Center Server onto the expansion servers, and follow the instructions in the InstallShield Wizard.

Before you begin

- Back up all role databases accessed from your expansion server you are upgrading.
 - In Security Center 5.12.0.0 and later, Omnicast™ Federation™ is disabled and no longer supported. Remove all Omnicast Federation roles before upgrading your system.
- What you should know

If a reboot warning message box opens during the upgrade, accept the message and continue with the upgrade procedure. You must reboot after completing the upgrade.

Procedure

1
Install Security Center 5.12 on your expansion server.

Use the Expansion server installation type.

If you have Genetec Advantage and are subscribed to our Product Improvement Program,

and if the

version you want to install corresponds to the most up-to-date version, you can perform the upgrade

through Genetec™ Update Service instead of the installer.

If you choose to continue with GUS, the Installer program ends and automatically connects you to the Main GUS. The Main GUS displays a centralized view of all enrolled machines and sends update

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

notifications to them. GUS always backs up the Directory database for you, so you do not need to do it before the upgrade. For more information, see About the Genetec Update Service.

If you choose to continue with the installer, the Installer program automatically detects an earlier version of Security Center and issues warnings and recommendations. Read the messages carefully.

If you continue, the Installer program upgrades Security Center to 5.12.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

2

If you are running a version of SQL Server Express that is not the latest, but one that is upgradable to SQL Server 2022 Express Advanced, the Installer program offers to upgrade it automatically.

Choose one of the following:

- (Recommended) Let the installer upgrade your SQL Server instance to SQL Server 2022 Express Advanced:
 - a.
Click Cancel to close the message box, and then click Cancel to cancel the installation.
 - b.
If you have not backed up your databases recently, do it now.
 - c.
Rerun the installer.
 - Click Yes to upgrade your SQL Server instance to SQL Server 2022 Express Advanced and continue with the installation.
 - Click No to continue with the installation without upgrading your SQL Server instance.
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

3

If you are running SQL Server 2014 Express SP1 or earlier, the Installer program cannot upgrade it to SQL Server 2022 Express Advanced.

Choose one of the following:

- (Recommended) Upgrade your SQL Server instance to SQL Server 2022 Express Advanced:

a.
Click Cancel to close the message box, and then click Cancel to cancel the installation.

b.
If you have not backed up your databases recently, do it now.

c.
Download and run the SQL Server 2014 SP3 Installer.

d.
Restart your server.

e.
Rerun the Security Center Installer.

- Click OK to continue with the installation without upgrading your SQL Server instance.

4
If you are upgrading a Directory server (Failover Directory configuration), make sure that on the Directory Database Backup page, you clear the option Automatically back up the Directory database before restarting the system to avoid backing up the Directory database twice.

5
Repeat the steps for all expansion servers in your system.

After you finish

To verify that all servers in your system are active, log on to the main server with Config Tool. In the Network view task, all the servers in your system should be shown in black, which means they are active. If some of the roles are still not active, you might need to upgrade the Directory database.

Related Topics

Backing up databases on page 101
Pre-upgrade checklist for upgrading from an earlier major version of Security Center on page 94

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Upgrading Security Center Client

After you upgrade the Security Center main server and expansion servers, you can upgrade Security Center Client.

What you should know

The Security Center 5.12 Client is installed side by side with previous Security Center Client versions.

From Security Center 5.4, Client settings are automatically carried over to new Client versions.

During the installation of a new version, you have the option to simultaneously remove earlier client versions and accompanying driver packs.

TIP: If the workstations on your system are enrolled in Genetec™ Update Service (GUS), you can install the latest Security Center Client on all of them at the same time from the Main GUS. For more information, see About the Products tab.

Procedure

- Install Security Center Client.
The installer automatically detects an earlier version of Security Center software and applies the current settings to 5.12.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

Upgrading the Security Center Directory database

The Security Center 5.12 Installer upgrades the Directory database as part of the main server upgrade. You need to upgrade the Directory database manually only if you restored an older version of the database.

What you should know

After restoring an older version of the Directory database, Server Admin notifies you that a database update

is required.

BEST PRACTICE: Before you upgrade, back up your database in a secure location that is separate from your main server.

Procedure

1

Do one of the following:

- Click Database with the flashing red LED.
- Click Database update () in the Directory section.
The Directory database update starts, and the database server status shows Upgrading.

2

While the database is being upgraded, click Show progress () to view the progress of the upgrade.
When the upgrade is completed, the Status shows OK.

3

Click Database properties (

) to confirm the version of the database and the number of entities in the database.

4
Log off from Server Admin, and then log on to Config Tool.

5
Open the System task, and select Roles.

6
Select the Archiver role, and click Resources.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Upgrading to Security Center 5.12

7
In the Actions section, click Database update () .

After the upgrade is complete, the Database status indicates Connected.

8
Repeat the steps for every role that requires a database update. The roles on your system vary depending on your license options.

After you finish

Shrink the Archiver database, and if necessary, other databases that you have upgraded.

Shrinking Security Center databases after an upgrade

After a database upgrade, disk usage might increase due to the temporary storage required to execute the upgrade transactions. The disk space used during the upgrade is not automatically released after the upgrade is complete. To reclaim the unused disk space, you must shrink the database.

Before you begin

Not all database upgrades cause the database to grow in size. If you are not sure whether or not you need to shrink your database after an upgrade, check the disk usage with SQL Server Management Studio.

What you should know

Depending on the recovery model of your database, a transaction log backup might be required to reclaim the unused disk space. For more information, see the following online articles:

- Recovery Models (SQL Server)
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Upgrading to Security Center 5.12

- Transaction Log Truncation
Procedure

1

Follow the Shrink a Database procedure from Microsoft.

2

Repeat this procedure for all databases that require shrinking.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0



Upgrading to Security Center 5.12

Upgrading Security Center with Global Cardholder Synchronizer roles

To upgrade a composite Security Center system involving Global Cardholder Synchronizer (GCS) roles, you must upgrade the sharing host system first, then upgrade the sharing guest systems.

Before you begin

Back up the Directory databases of your sharing host and sharing guest systems.

What you should know

The Global Cardholder Synchronizer (GCS) role ensures the two-way synchronization of shared cardholders and their related entities between the local system (sharing guest) where it resides and the central system (sharing host). For more information, see Global cardholder management.

Procedure

1

Disconnect the sharing guests from the sharing host.

Do one of the following:

-

Deactivate the GCS roles on the sharing guest systems.

-

Temporarily change the passwords of the GCS role user accounts.

2

Upgrade the sharing host system first.

3

Upgrade the sharing guest systems next.

4

Confirm that the upgrades were successful.

5

Reconnect the sharing guests to the sharing host.

Do one of the following:

- If you deactivated the GCS roles on the sharing guest systems, reactivate them.
 - If you changed the passwords of the GCS role user accounts, change them back.
- 6
- Give the sharing guests some time to sync with the sharing host.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

This section includes the following topics:

- "Silent installation of Security Center" on page 134
- "Preparing to perform a silent installation" on page 135
- "Silent installation options for Security Center" on page 136
- "Security Center options" on page 138
- "Sample Security Center installation commands" on page 144
- "Uninstalling Security Center 5.12 in silent mode" on page 146

- "Silent installation options for Security Center SDK" on page 147

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Silent installation of Security Center

A silent installation is an automated way of installing software without user intervention. The silent installation is run from the command line using the Security Center setup.exe executable, and Windows Installer commands.

You can customize the following options from the command line:

- Installation language
- Application language
- Client or Server installation path
- Client or Server features to install
- Server username and password for running the services
- Server and database name
- Limitations

Take note of the following limitations before performing a silent installation:

- You cannot update your license in silent mode. You will need to run the Server Admin application after installing Security Center to activate the license.
- A command line is limited to a maximum of 850 characters.

TIP: One way to shorten the command-line length is to reduce the installation path length. This can be achieved by copying the installation files onto a local drive.

- You cannot use mapped drives in your path specifications.
 - The installer options for a silent installation of Security Center are supported only for major and minor releases, and not for patch releases. For instructions on how to install cumulative updates of Security Center in silent mode, see the release notes for any patch release.
- Silent installation of the Security Center Drivers

To install the Security Center Drivers in silent mode, you need to ask your Genetec Inc. representative for the separate driver installation package, and use the following syntax:

```
setup.exe /s /v"/qn /l*v "<msiLog>" <restart_option>"
```

where:

- setup.exe is the setup program found in the root folder of the Drivers installation package.
- <msiLog> is the path to the MSI log file. The folder path must exist. The setup program does not create it.
Example: "C:\Users\Public\install.log"
- <restart_option> indicates whether or not to restart the Genetec™ Server service after installation.
- RESTART_GENETEC_SERVER=1 (default)
- RESTART_GENETEC_SERVER=0

If you choose not to restart Genetec Server right away, you must restart it later for the new drivers to take effect.

Silent installation of the Security Center SDK

To install the Security Center SDK in silent mode using the separate SDK installation package, see [Silent installation options for Security Center SDK](#) on page 147.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Preparing to perform a silent installation

There are certain tasks you should perform prior to the installation to ensure it goes smoothly.

Procedure

1

Install the Security Center prerequisites.
Security Center installer automatically verifies and installs the software prerequisites on your system.
This might cause your system to restart. Therefore, it is best practice to manually install the software prerequisites before launching the silent installer.

2

Apply the latest Windows updates.

3

If you specify a different Windows user than the default (Local System) to run the services, then that user

must be created before you begin the installation process.

The user must be a member of the Administrators group and must have the Log on as service user privilege.

Related Topics

Installing SQL Server independently of Security Center on page 34

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Silent installation options for Security Center

When performing a silent installation, specific program options are required to run the Security Center Installer.

The syntax for running the setup in silent mode is:

```
<setup_exe> <options> <SC_options>
```

where:

- <setup_exe> is the setup program for the Security Center Installer. You can either use the standalone version ("Security Center Setup.exe" found in the SC Packages folder) or the web version (SecurityCenterWebSetup.exe). Do not use the setup.exe in the root folder of the installation package. It is an AutoRun-enabled version of the standalone installer, and does not accept command-line arguments.
- <options> are the setup program options. They all start with a forward slash (/) and are case-sensitive.
- <SC_options> are the Security Center options. They are all written in capital letters.

The following table describes the setup options.

Setup option	Description
--------------	-------------

/ISInstallDir	
---------------	--

	Specifies the root folder in which to create the product subfolder. Default:
--	--

	C:\Program Files (x86)\Genetec Security Center
--	--

	5.12.
--	-------

EXAMPLES:

- /ISInstallDir=C:\MyFolder

- /ISInstallDir="D:\Program Files\MyFolder"

NOTE: In the second example, the (") are required because the value contains spaces. If not specified, the default is <ProgramFiles>, where <ProgramFiles> is either %PROGRAMFILES% or %PROGRAMFILES(X86)%, depending on the version of your operating system.

CAUTION: The folder path cannot end with a trailing backslash (\). This causes the silent installation to fail with a fatal error.

/ISFeatureInstall

Specifies the features to be installed. The possible values are:

- Server (Genetec™ Server with or without Directory, depends on the SERVER_TYPE installer option)

- Client (Security Desk and Config Tool)

- SecurityDesk (only Security Desk)

- ConfigTool (only Config Tool)

EXAMPLES:

- /ISFeatureInstall=Server,Client (DEFAULT)

/silent

Sets the Security Center setup.exe program to run in silent mode with no user interaction.

/DebugLog<FilePath\LogFileName>

Enables the creation of the installation log file and specifies the file path.

NOTE: The folder path specified in <FilePath> must exist. The setup program does not create it.

EXAMPLE: /debuglog"C:\LogFiles\Install.log"



Automating Security Center installation

Setup optionDescription

`/log<FolderPath>`

Enables the creation of the log files and specifies the folder path.

NOTE: The `<FolderPath>` must exist. The setup program does not create it.

EXAMPLE: `/log"C:\LogFiles\"`

`/language:`

Sets the language used by the installation program. Immediately precedes the four-digit language code. No space is allowed.

EXAMPLES

- `/language:1033` for English (DEFAULT)
 - `/language:3084` for French
- `<SecurityCenter_options>`
Sets the Security Center options.

Each option in this list uses the following syntax:

`<option>=<value_list>`

where `<option>` is an option name and `<value_list>` is a list of comma-separated values.

No space is allowed on either side of the equal sign (=). If the value list must contain spaces, the entire value list must be included between a pair of double quotes preceded by a backslash (\").

Related Topics

Security Center options on page 138



Automating Security Center installation

Security Center options

When performing a silent installation, you can specify extra options for the Security Center.

The following table lists the Installer options for Security Center. All Security Center options are written in capital letters. Unlike the setup options, none of them is preceded with a forward slash (/). All option names are case-sensitive.

IMPORTANT: All servers on the system share the same password. Therefore, for the installation of both main and expansion servers, only use the option MAINSERVER_PASSWORD to specify the password.

Security Center optionDescription

ACTIVATIONCODE

This is the activation code required to allow System Availability Monitor Agent (SAMA) to collect system data.

EXAMPLE: SAMA_COLLECTPOLICY=On ACTIVATIONCODE=mycode

AGREETOLICENSE

Indicate that you agree with our software license agreement.

IMPORTANT: The only accepted value is Yes. If omitted, the installation fails.

EXAMPLE: AGREETOLICENSE=Yes

ALLOWSQLUPGRADE

Allow the installer to upgrade your database server to SQL Server 2022 Express Advanced if your operating system supports it. The accepted values are 0 and 1.

•

0 = Do not upgrade (DEFAULT)

-

1 = Upgrade if your operating system supports it

SQL Server 2022 Express Advanced is supported only on the 64-bit

version of Windows 10, Windows 11, and Windows Server 2016 and later.

IMPORTANT: Be sure to back up your databases before the SQL Server upgrade.

IMPORTANT: If you're using value 1 for this option and your SQL Server database is in mixed mode, include the following commands, or the installation might fail:

-

GLOBAL_SERVER=<SQL Server>

-

SQLSERVER_AUTHENTICATION=1

-

SQLSERVER_USERNAME=< user>

-

SQLSERVER_PASSWORD=<password>

EXAMPLE: ALLOWSQLUPGRADE=1

When SKIPSQLVALIDATION=1 is specified, the database server upgrade is ignored.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Security Center optionDescription

COLLECTPOLICY

Configure the data collection policy for our Product Improvement Program. The accepted values are:

-

On: We collect data with system information.

-

Anonymous: We collect anonymous data.

-

Off: We don't collect data.

IMPORTANT: This option is mandatory if you're installing the main server on a clean machine. If omitted, the installation fails.

You can also use this option to change the existing data collection setting if you're upgrading the main server. It's ignored if you're installing an expansion server or a client workstation.

EXAMPLE: COLLECTPOLICY=Anonymous

CONFIGURATION_SETTINGS

Specify which configuration settings to use if older configuration files (ConfigurationFiles*.gconfig) are found on your machine. The accepted values are:

- KeepExistingSettings (FIRST DEFAULT)
 - DeployNewSettings (SECOND DEFAULT)
 - UpgradeOldSettings
- The first option is applicable only if configuration files for the current major version (5.12) are found on your machine.

The last option is applicable only if configuration files from an older major version are found on your machine. If several older versions exist, the most recent older version is used.

EXAMPLE: CONFIGURATION_SETTINGS=UpgradeOldSettings

NOTE: This option is applicable only for fresh installations. If you're upgrading your system, it always upgrades your current settings.

CREATE_FIREWALL_RULES

Add the installed Security Center applications to the Windows Firewall exceptions list. Accepted values are 0 and 1.

- 0 = Do not create firewall rules
- 1 = Create firewall rules (DEFAULT)

EXAMPLE: CREATE_FIREWALL_RULES=1

DATABASE_AUTOBACKUP

Back up the Directory database after the software upgrade, but before the database upgrade. Configuration Files are also backed up in the same destination folder as the database. Accepted values are 0 and 1. When this option is omitted, the default value is 1 if the last backup is more than one day old. The default backup folder is C:\SecurityCenterBackup on the SQL Server machine.

- - 0 = Do not back up the Directory database
 -
 - 1 = Back up the Directory database (DEFAULT)
- EXAMPLE: DATABASE_AUTOBACKUP=0

DATABASE_SERVER

Same as the GLOBAL_SERVER option. This parameter maintains backward compatibility with previous silent installation scripts.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Security Center optionDescription

DEACTIVBASIC

This is a Boolean value that specifies whether basic camera authentication should be deactivated.

- - 0 = Basic authentication enabled
 -
 - 1 = Basic authentication disabled (DEFAULT)
- EXAMPLE: DEACTIVBASIC=0

GLOBAL_SERVER

Specify the database server name for all roles installed by default. When omitted, the default value is (local)\SQLEXPRESS.

EXAMPLES:



Database server: GLOBAL_SERVER=BLADE32\SQLServerEnterprise

-

Azure SQL database: GLOBAL_SERVER=MyDbName.database.windows.net
LANGUAGECHOSEN

Language used by Security Center. The possible code values are:

-

Arabic - 1025

-

Bulgarian - 1026

-

Chinese (Simplified) - 2052

-

Chinese (Traditional) - 1028

-

Croatian - 1050

-

Czech - 1029

-

Dutch - 1043

-

English - 1033

-

French - 3084

-

German - 1031

-

Greek - 1032

-

Hebrew - 1037

-

Hungarian - 1038

-

Italian - 1040

-

Japanese - 1041

-

Korean - 1042

-

Norwegian - 1044

-

Persian - 1065

-

Polish - 1045

-

Brazilian Portuguese - 2070

-

Romanian - 1048

-

Russian - 1049

-

Slovenian - 1060

-

Spanish - 1034

-

Swedish - 1053

-

Thai - 1054

-

Turkish - 1055

-

Vietnamese - 1066

EXAMPLE: LANGUAGECHOSEN=3084

If the code is invalid, English is used. If this option is omitted, the installation language (specified with the /language: setup option) is used.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Security Center optionDescription

MAINSERVER_ENDPOINT

Used for expansion server installation. Specify the name or IP address of the main server.

EXAMPLE: MAINSERVER_ENDPOINT=MYMAINSERVER

MAINSERVER_PASSWORD

Mandatory option for server installation commands.

IMPORTANT: The password must meet the following requirements:

-

At least 8 characters long

-

One or more upper case letters

-

One or more lower case letters

-

One or more numerical characters

-

One or more special characters

-

No spaces or double quotation marks

EXAMPLE: MAINSERVER_PASSWORD=ServerPwd-123

PRODUCT_UPDATES

Turn the automatic check for software updates ON or OFF. Possible values are:

-

true - Turn the automatic check ON (DEFAULT)

-

false - Turn the automatic check OFF

REBOOT

Use this option to force or suppress a reboot after the Server installation has ended. Possible values are:

-

F - Force a reboot when your installation is complete

-

S - Suppress any reboot except the one caused by the ForceReboot action

-

R - Suppress any reboot caused by Windows Installer actions (DEFAULT)

EXAMPLE: REBOOT=R

SAMA_COLLECTPOLICY

Configure the data collection policy applied by the SAMA. The accepted values are:

-

On: SAMA collects data with system information (requires ACTIVATIONCODE)

-

Anonymous: SAMA collects anonymous data (DEFAULT)

-

Off: SAMA doesn't collect data

EXAMPLE: SAMA_COLLECTPOLICY=On ACTIVATIONCODE=mycode

SECURE_COMMUNICATION

This is a Boolean value that specifies whether secure communication (Directory authentication) should be enforced.

-

0 = Not enforced, Directory authentication turned off (DEFAULT)

-

1 = Enforced, Directory authentication turned on

EXAMPLE: SECURE_COMMUNICATION=1

SERVER_TYPE

Specify whether to install a main or an expansion server. The accepted values are:

-

Main: Install Genetec™ Server with Directory (DEFAULT)

-

Expansion: Install Genetec™ Server without Directory
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑

Automating Security Center installation

Security Center optionDescription

SERVERADMIN_PORT

Specify the HTTP port for the web-based Server Admin.

EXAMPLE: SERVERADMIN_PORT=8080

If not specified, the default is 5500.

SERVICEPASSWORD

Specify the password to use in the services.

EXAMPLE: SERVICEPASSWORD=anypassword

IMPORTANT:

-

The username and password must be created first with the right credentials before using those properties. If not specified, the default is blank.

-

Double quotation marks can't be part of the password. However, you can use them to wrap your password if you want to include a space. For example: SERVICEPASSWORD="abc efg".

SERVICEUSERNAME

Specify the username to use in the services.

EXAMPLE: SERVICEUSERNAME=.\admin

SKIP_FORCE_CLOSE_CLIENTS

Detect and force close instances of Security Desk and Config Tool during upgrades. Accepted values are:

- - 0 = Leave Client applications running during silent installation
 -
 - 1 = Force close Client applications during silent installation (DEFAULT)
- EXAMPLE: SKIP_FORCE_CLOSE_CLIENTS=1

SKIPSERVICESTART

Use this option to prevent the Security Center services from starting immediately after the installation (default behavior). You can use this option if, for example, you need to install hotfixes right after the full installation. If you use this option, don't forget to start the Security Center services (NET START GenetecServer and NET START GenetecWatchdog) after the hotfix installation.

EXAMPLE: SKIPSERVICESTART=Y

SKIPSQLVALIDATION

Use this option if your instance of SQL Server is unavailable at the time of installation, so the installer doesn't attempt to validate its version by connecting to it.

EXAMPLE: SKIPSQLVALIDATION=1

When this option is turned on, the ALLOWSQLUPGRADE option is ignored.

SQLSERVER_AUTHENTICATION

Specify the SQL Server authentication method. The accepted values are:

- - 0 = Windows authentication (DEFAULT)
 -
 - 1 = SQL Server and Windows authentication (mixed mode)
- EXAMPLE: SQLSERVER_AUTHENTICATION=1
SQLSERVER_USERNAME=SqlServerUsername
SQLSERVER_PASSWORD=SqlServerPassword

SQLSERVER_USERNAME

Specify the username for SQL Server authentication when SQLSERVER_AUTHENTICATION=1.

SQLSERVER_PASSWORD

Specify the password for SQL Server authentication when SQLSERVER_AUTHENTICATION=1.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Security Center optionDescription

SQLSERVER_GROUP

Specify if a new or an existing SQL Server is silently installed. The accepted values are:

- ExistingServer (DEFAULT)
- None (used for expansion server without a database)
- NewServer (Can be used with GLOBAL_SERVER to specify an instance name, else a default instance called (local)\SQLEXPRESS will be created)
- AzureServer (must be used with GLOBAL_SERVER)

EXAMPLES:

- SQLSERVER_GROUP=None
- SQLSERVER_GROUP=NewServer SQL_INSTANCE_NAME=SQLEXPRESS2
- SQLSERVER_GROUP=AzureServer

GLOBAL_SERVER=MyDbName.database.windows.net

UNINSTALL_EARLIER_CLIENTS

Allow the installer to automatically uninstall earlier versions of the client software that exist on the machine during the installation of the new version. Accepted values are:

- 0 = Do not uninstall earlier client versions
- 1 = Uninstall earlier client versions (DEFAULT)

EXAMPLE: UNINSTALL_EARLIER_CLIENTS=1

NOTE: This option is applicable only if one or more Security Center clients are installed without server functionality.

UPGRADE_DATABASE

Specify that the Directory database should be automatically upgraded.

If no database exists, this option is ignored. Possible values are Y or N.

When this option is omitted, the default value is Y.

EXAMPLE: UPGRADE_DATABASE=N

WEBSERVER_PORT

Specify the HTTP port for the web-based Server Admin.

If not specified, the default is 80.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0
EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Sample Security Center installation commands

Using the different command options, you can customize your Security Center Server silent installation.

Unless stated otherwise, all server installation examples below assume that the server does not have SQL Server installed.

- If you want to use an existing SQL server, use `SQLSERVER_GROUP=ExistingServer` or `SQLSERVER_GROUP=AzureServer` instead.
- If the local instance is not named `(LOCAL)\SQLEXPRESS` or if the instance is not LOCAL, use `GLOBAL_SERVER` to set the instance name.
The `/debuglog` and `/log` folders must exist before launching the install. If desired, you can omit the `/silent` parameter. The installation graphical user interface appears with fields filled with values from the parameters.

Example

Typical scenario: A full installation of Genetec™ Server with the Directory and the clients (Config Tool and Security Desk) are installed in English. The files are installed in C:\Program Files (x86)\Genetec Security Center

x.xx. The log files are saved to C:\MyLogs. An instance of SQL Server is created called (LOCAL)\SQLEXPRESS. The data collection policy is set to ON. Setup runs in silent mode.
"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\Install.log" /log"C:\MyLogs\" /ISFeatureInstall=Server,Client AGREETOLICENSE=Yes
COLLECTPOLICY=OnMAINSERVER_PASSWORD=ServerPwd-123 SQLSERVER_GROUP=NewServer

Example

A standard installation of Genetec™ Server as the main server, without the clients. The data collection policy is set to anonymous. Both the installation and the Security Center applications are in English.

"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\Install.log" /log"C:\MyLogs\" /ISFeatureInstall=Server AGREETOLICENSE=Yes
COLLECTPOLICY=AnonymousMAINSERVER_PASSWORD=ServerPwd-123 SQLSERVER_GROUP=NewServer

Example

Security Desk and Config Tool are installed in English (default), in silent mode. The log files are saved to C:\MyLogs.

"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\Install.log" /log"C:\MyLogs\" /ISFeatureInstall=ConfigTool,SecurityDesk
SERVERADMIN_PASSWORD="SeCret123!"
AGREETOLICENSE=Yes

Example

A standard installation of Genetec™ Server as an expansion server, without a SQL Server. Only the installation

path is different. Both the installation and the Security Center applications use the default language, which is English.

```
"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\Install.log"
/log"C:\MyLogs\" /ISFeatureInstall=Server /ISInstallDir="c:\GENETEC_PATH"
AGREETOLICENSE=Yes
SERVER_TYPE=Expansion MAINSERVER_PASSWORD=ServerPwd-123 SQLSERVER_GROUP=None
```

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Example

A standard installation of Genetec™ Server as an expansion server with an existing SQL Server instance. Only the installation path is different. Both the installation and the Security Center applications use the default language, which is English. The expansion server will not use a SQL Server.

```
"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\Install.log" /
log"C:\MyLogs\" /ISFeatureInstall=Server /ISInstallDir="c:\GENETEC_PATH"
AGREETOLICENSE=Yes SERVER_TYPE=Expansion
GLOBAL_SERVER=(Local)\SQLEXPRESSMAINSERVER_PASSWORD=ServerPwd-123
SQLSERVER_GROUP=ExistingServer
```

Example

A standard installation in French in silent mode, with the data collection policy set to OFF. Security Center applications will use French (default to installation language).

```
"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\Install.log" /log"C:\MyLogs
\" /language:3084 AGREETOLICENSE=Yes SQLSERVER_GROUP=NewServer
COLLECTPOLICY=OffMAINSERVER_PASSWORD=ServerPwd-123
```

Example

A complete installation in Arabic with Client and Server, creating a new SQL Server instance, in silent mode.

```
"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\Install.log" /log"C:\MyLogs\" /ISFeatureInstall=Client,Server AGREETOLICENSE=Yes  
COLLECTPOLICY=OnLANGUAGECHOSEN=1025 MAINSERVER_PASSWORD=ServerPwd-123  
SQLSERVER_GROUP=NewServer
```

Example

A complete installation in French with Client and Server in silent mode, using an Azure SQL database. Security Center applications will use French (default to installation language).

```
"Security Center Setup.exe" /silent /debuglog"C:\MyLogs\Install.log" /log"C:\MyLogs\" /ISFeatureInstall=Client,Server /language:3084 AGREETOLICENSE=Yes  
COLLECTPOLICY=On MAINSERVER_PASSWORD=ServerPwd-123 SQLSERVER_GROUP=AzureServer  
SQLSERVER_AUTHENTICATION=1 GLOBAL_SERVER=MyDbName.database.windows.net  
SQLSERVER_USERNAME=scdbadmin SQLSERVER_PASSWORD=SeCret123!
```

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Uninstalling Security Center 5.12 in silent mode

Security Center can be uninstalled in silent mode.

Procedure

- Run the following command from the SC Packages folder of the Security Center

installation package:
"Security Center Setup.exe" /silent /remove

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Automating Security Center installation

Silent installation options for Security Center SDK

You can install the Security Center SDK from a separate package instead of using the full Security Center installation package. If you are using this separate package, be aware that the silent SDK installation options are slightly different from those of Security Center.

Command syntax

The syntax for running the setup in silent mode is:

```
setup.exe /debuglog<setupLog> /s /v"/qn /l*v <msiLog> <SDK_options>"
```

where:

- setup.exe is the setup program found in the root folder of the SDK installation package.
- <setupLog> is the path to the setup log file. The folder path must exist. The setup program does not create it.
- <msiLog> is the path to the MSI log file. The folder path must exist. The setup program does not create it.
- <SDK_options> are the Security Center SDK options. An option follows the <option>=<value> syntax, where <option> is written in all caps. No space is allowed on either side of the equal sign (=). If the value contains spaces, the value must be

included between double quotes.

SDK options

The following table describes the SDK options.

SDK optionDescription

AGREETOLICENSE

Indicate that you agree with our software license agreement.

IMPORTANT: The only accepted value is Yes. If omitted, the installation will fail.

EXAMPLE: AGREETOLICENSE=Yes

CREATE_FIREWALL_RULES

Add the installed Security Center applications to the Windows Firewall exceptions list. Accepted values are 0 and 1.

- - 0 = Do not create firewall rules
 -
 - 1 = Create firewall rules (DEFAULT)
- EXAMPLE: CREATE_FIREWALL_RULES=1

INSTALLDIR

Specify the folder where the SDK package is installed.

The default is [ProgramFilesFolder]Genetec Security Center <version> SDK

Sample command line

```
setup.exe /debuglog"C:\Users\Public\prereqinstall.log"
```

```
/s /v"/qn /l*v "C:\Users\Public\sdksi.log"
```

```
AGREETOLICENSE=Yes CREATE_FIREWALL_RULES=0 INSTALLDIR="C:\NewFolder"
```

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Troubleshooting

This section includes the following topics:

- "Disabling the SQL Server telemetry service manually" on page 149
- "Restoring missing MSI files in Windows cache" on page 150
- "Cameras stop working after installing Security Center with the default security options" on page 155
- "Error when installing Microsoft .NET Framework, Return Code: 0x800f081f" on page 156
- "Video stability and performance issues" on page 157
- "Files remain blocked after unblocking them manually" on page 158
- "One or more services failed to install" on page 159
- "Exported PDF reports in Japanese or Chinese contain invalid characters when running a different OS language" on page 161
- "Omnicast Federation role disabled after upgrade" on page 162



Troubleshooting

Disabling the SQL Server telemetry service manually

If the Security Center Installer fails to disable the SQL Server telemetry service, you can disable it manually after Security Center is installed.

What you should know

Microsoft installs the SQL Server Telemetry or CEIP (Customer Experience Improvement Program) Services as part of the SQL Server 2022 Express Advanced installation. The telemetry service sends feature usage info back to Microsoft. The Security Center Installer always tries to disable this service. When it fails, you get a warning message at the end of the Security Center installation so you can disable it manually.

Procedure

1

Run `services.msc` in Windows, and disable the SQL Server CEIP service.

2

In the Windows Start menu, type `regedit`, and then press ENTER.

3

In the Registry Editor, set the following registry entries to zero (0):

- Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\150
- CustomerFeedback REG_DWORD
- EnableErrorReporting REG_DWORD
- Computer\HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Microsoft\Microsoft SQL Server\150
-

CustomerFeedback REG_DWORD

-

EnableErrorReporting REG_DWORD

-

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server
\MSSQL15.<InstanceName>\CPE

-

CustomerFeedback REG_DWORD

-

EnableErrorReporting REG_DWORD

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Troubleshooting

Restoring missing MSI files in Windows cache

If your Security Center installation is interrupted due to missing MSI (Microsoft Software Installer) files in the Windows cache, you can download a Microsoft tool to help you restore the missing files.

What you should know

When you install an application using an MSI package, Windows Installer caches the essential files. This caching ensures that you can later modify or uninstall the application even if the original setup source is no longer available. However, these cached MSI files might sometimes become unavailable for the following reasons:

-

Network share inaccessibility: If the network share from which the application was initially installed becomes inaccessible, the cached MSI might not be usable.

-

Storage constraints: If the cached MSI lacks necessary storage (such as cabinet files), Windows Installer resorts to the source list resolution process.

-

Corruption or deletion: Corruption or accidental deletion of the cached MSI can

render it unusable.

-

Third-party tools: Some third-party tools might delete cached MSI files during cleanup.

If any cached MSI files are missing, the Installation Interrupted page appears, with information on how to resolve the issue.

Procedure

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Troubleshooting

1

On the Installation Interrupted page, click List of missing cached MSI files. A message box opens with the list of missing cached MSI files.

2

Gather all missing cached MSI files.

a)

Download the missing cached MSI files from GTAP.

All MSI files are found in setup packages that you can download from GTAP > Product Download page.

To figure out which setup package to download, match the MSI file version number to the package

build number listed in Security Center build numbers on the TechDoc Hub.

b)

Unzip all the downloaded setup packages to a common folder on your local drive. For example: C:\My Missing MSI Files.

3

Download the Microsoft tool FixMissingMSI.exe.

a)

Download the latest version of the FixMissingMSI tool from this Microsoft page.

b)

Copy the downloaded package to the local drive of your computer and unzip it.

4

In the unzipped folder, right-click FixMissingMSI.exe and click Run as administrator.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Troubleshooting

5

In the Scan dialog box that opens, enter the path to the missing MSI files and select All Products.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Troubleshooting

6

Click Scan Now.

The scan results window appears.

7

Click the radio button Missing or Mismatched Only.

Only missed or mismatched MSI files are shown.

8

Click Fix > Fix All > OK.

All missing cached MSI files that can be found in the specified folder are fixed.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑ Troubleshooting

9

If there are missing cached MSI files that cannot be found, ensure that you have downloaded all

necessary setup packages and try again.

If you cannot find the setup packages corresponding to the missing cached MSI files, contact Technical Support.

After you finish

Run the interrupted Security Center installation again.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑ Troubleshooting

Cameras stop working after installing Security Center with the default security options

After installing Security Center using default security settings, cameras that do not support digest access authentication might not work. To fix this issue, you can reactivate basic access authentication by video unit or by manufacturer.

What you should know

Digest access authentication is the authentication scheme that most recent video unit models support. This

authentication scheme is more secure than basic access authentication because the passwords are hashed before sending them over the network. For this reason, basic access authentication is disabled by default.

After installation, if you realize that some of your cameras do not support digest access authentication, you can revert them to basic access authentication in Config Tool.

For added security, Security Center remembers whether or not a specific video unit supports the digest authentication scheme. You can see the authentication scheme used for each camera in the Hardware inventory report.

NOTE: After the system has successfully authenticated to a video unit using the digest scheme, you cannot revert to the less secure basic scheme.

Procedure

To reactivate basic authentication on a specific video unit:

- 1
From Config Tool, open the Hardware inventory task.
- 2
Run the report on the video units that are inactive (in red) in your system. You might need to scroll horizontally to the right to see the Authentication scheme column.
- 3
In the report pane, select the video units that are inactive and click Reset authentication scheme.
The Authentication scheme changes to Anonymous. After the Archiver successfully connects to the video unit, the exact authentication scheme is displayed.

To reactivate basic authentication for a specific manufacturer:

- 1
From Config Tool, open the Video task.
- 2
Select the Archiver role that controls your cameras and click Extensions.
- 3
Select the manufacturer that you want and set Refuse basic authentication to OFF.

4

Click Apply.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Troubleshooting

Error when installing Microsoft .NET Framework, Return Code: 0x800f081f

If your Security Center installation on a Windows 10 or 11 machine is interrupted with the return code 0x800f081f, you must use your Windows 10 or 11 installation disk (or a virtual copy of it) to turn on .NET Framework 3.5, and rerun the Security Center installation.

What you should know

Security Center requires the feature .NET Framework 3.5 to be turned on in order to work. Security Center installer turns .NET Framework 3.5 on by default. However, this feature cannot be turned on if you are missing the .NET 3.5.1 files, which causes the error 0x800f081f.

Procedure

1

Get a copy of the Windows 10 or 11 installation disk (or a virtual copy of it) from your IT department, and make sure it is accessible from the computer where Security Center needs to be installed.

2

Open a command prompt with full administrator rights. For more information, see [How to Open an Elevated Command Prompt](#).

3

Enter the following command:

```
DISM /online /enable-feature /featurename:NetFx3 /All /Source:F:\sources\sxs
```

where F: is the drive letter where the installation disk or virtual disk with the Windows 10 or 11 setup files are located.

The command prompt will run through a repair and activation of the .NET framework feature.

4

Close the command prompt.

5

From the Windows Control Panel, open the Programs and Features applet and click Turn Windows

features on or off.

6

In the Windows Features dialog box, click .NET Framework 3.5, and then click OK.

7

Rerun the Security Center installation.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Troubleshooting

Video stability and performance issues

After installing Security Center, you might have to install some Microsoft hotfixes for Security Center to run smoothly.

What you should know

The following scenarios require that you install a Microsoft hotfix:

- You log on to Config Tool or Security Desk after installing Security Center and you receive the message:
"A necessary dependency for this application has not been found on the system. Video

stability and performance are not guaranteed without the hotfix KB2494124/KB2468871".
Procedure

1
Close Config Tool and Security Desk.

2
Download the required hotfixes from the internet:

- For a 64-bit system, download the following files:

- NDP40-KB2468871-v2-IA64.exe

- NDP40-KB2468871-v2-x64.exe

- NDP40-KB294124-x64.exe

- Windows6.1-KB2588507-v2-x64.msu

- For a 32-bit system, download the following files:

- NDP40-KB2468871-v2-x86.exe

- NDP40-KB294124-x86.exe

3
Run the hotfixes you've downloaded one after another, in the same sequence you downloaded them.

4
Restart your computer.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Troubleshooting

Files remain blocked after unblocking them manually

Use streams.exe to unblock Security Center installation package files that remain blocked after manual intervention.

What you should know

Only run streams.exe on files that remain blocked after attempting to manually unblock them. If the installation package contains blocked files, the following error message can show during installation: "Setup detected blocked file(s) in the download package. Setup will stop. To restart the installation, unblock the downloaded package."

Procedure

- 1
Download streams.exe from
<https://technet.microsoft.com/en-ca/sysinternals/bb897440.aspx>.
- 2
Open a command prompt window.
- 3
Enter streams.exe -d <filename>, where <filename> is the name of the file that needs to be

unblocked.

After you finish

If you unblocked the entire ZIP installation package (not specific files contained in it), you must extract the package again prior to installing Security Center.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Troubleshooting

One or more services failed to install

If one or more Security Center services failed to install, you can uninstall Security Center and then reinstall it, or you can create the missing services manually.

Before you begin

Ensure that the username and password for Service Logon are entered correctly. The valid username formats are:

- DOMAIN\username; Example: GENETEC\jsmith
 - username@domain.local; Example: jsmith@genetec.com
- What you should know

The following services are created during a Security Center installation:

- Genetec™ Server
 - Genetec™ Watchdog
- If the Microsoft Management Console (MMC) is open while upgrading Security Center, these services might be locked, preventing one or both of them from being upgraded.

Procedure

1

On the computer that is missing Security Center services, open an elevated Command Prompt as Administrator.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Troubleshooting

2

If the Genetec™ Watchdog service is missing, create it manually:

a)

In the Administrator: Command Prompt window, run the following command:

IMPORTANT: On 64-bit computers, the default installation folder is C:\Program Files (x86)\Genetec

Security Center 5.12. This path must be changed if Security Center was installed to another location.

```
sc create GenetecWatchdog binPath= "C:\Program Files (x86)\Genetec Security Center 5.12\GenetecWatchdog.exe" start= auto DisplayName= "Genetec Watchdog(SC)"
```

b)

In Windows, open the Services console.

c)

In the Services console, open the properties of the Genetec™ Watchdog (SC) service, and click the Recovery tab.

d)

Set the recovery options to match the following screen capture, and click Apply.

e)

Start the Genetec™ Watchdog (SC) service.

3

If the Genetec™ Server service was created but is missing dependencies, run the following commands in the Administrator: Command Prompt window:

```
sc config GenetecServer binPath= "C:\Program Files (x86)\Genetec SecurityCenter 5.12\GenetecServer.exe" start= auto depend= GenetecWatchdog/Winmgmt
sc start GenetecServer
```

4

If the Genetec™ Server service is missing, run the following commands in the Administrator: Command Prompt window:

IMPORTANT: On 64-bit computers, the default installation folder is C:\Program Files (x86)\Genetec Security Center 5.12. This path must be changed if Security Center was installed to another location.

```
sc create GenetecServer binPath= "C:\Program Files (x86)\Genetec Security Center 5.12\GenetecServer.exe" start= auto depend= GenetecWatchdog/WinmgmtDisplayName= "Genetec Server"
```

```
sc start GenetecServer
```

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Troubleshooting

Exported PDF reports in Japanese or Chinese contain invalid characters when running a different OS language

If you are exporting a report as a PDF in Japanese or Chinese (Simplified or traditional), and the output contains invalid characters, you might need to install supplemental fonts.

What you should know

This issue would only happen if the Windows display language is different from the language in the report. Our PDF generator does not support the Windows default fonts for these languages, so you will need to manually install supplemental fonts.

Procedure

1

In the Windows taskbar, click Start > Settings > Apps > Apps & features > Optional features > Add a feature.

2

From the list, select the applicable language pack:

- Japanese Supplemental Fonts
 - Chinese (Simplified) Supplemental Fonts
 - Chinese (Traditional) Supplemental Fonts
- 3
Click Install.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Troubleshooting

Omnicast Federation role disabled after upgrade

If your Omnicast™ Federation™ role is disabled and highlighted in red after an upgrade to version 5.12.0.0 or later, it is because Omnicast is no longer supported in these versions. To fix this, you must remove all Omnicast Federation roles and Omnicast compatibility packs from your system.

Procedure

1

From the Config Tool homepage, open the System task and click the Roles view.

2

Select all Omnicast Federation roles, right-click, then click Delete > Continue > Delete.

3

From your Windows Control Panel, open the Programs and Features applet.

4

In the Programs and Features window, right-click each instance of the Genetec™ Omnicast Compatibility

Package, and then click Uninstall > Yes.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0



Glossary

Glossary

Access control

The Access control task is the administration task for configuring your access control entities, which include roles, units, cardholders, credentials, and access rules.

Access control health history

The Access control health history task is a maintenance task that reports on events related to the health of access control entities. Unlike the events in the Health history report, the events in the Access control health history report are not generated by the Health Monitor role, identified by an event number, or categorized by severity.

access control unit

An access control unit entity represents an intelligent access control device, such as a Synergis™ appliance, an Axis Powered by Genetec door controller, or an HID network controller, that communicates directly with the Access Manager over an IP network. An access control unit operates autonomously when it is disconnected from the Access Manager.

Access control unit event delays

The Access control unit event delays task is a maintenance task that reports on event delays. It produces statistics on the time difference between when events are generated and received.

Access control unit events

The Access control unit events task is a maintenance task that reports on events pertaining to selected access control units.

Access Manager

The Access Manager role manages and monitors access control units on the system.

access point

An access point is any entry (or exit) point to a physical area where access can be monitored and governed by access rules. An access point is typically a door side.

access right

An access right is the basic right users must have over any part of the system before they can do anything with it. Other rights, such as viewing and modifying entity configurations, are granted through privileges.

In the context of a Synergis™ system, an access right is the right granted to a cardholder to pass through an access point at a given date and time.

access rule

An access rule entity defines a list of cardholders to whom access is either granted or denied based on a schedule. Access rules can be applied to secured areas and doors for entries and exits, or to intrusion detection areas for arming and disarming.

Access rule configuration

The Access rule configuration task is a maintenance task that reports on entities and access points affected by a given access rule.

Access troubleshooter

Access troubleshooter is a tool that helps you detect and diagnose access configuration problems. With this tool, you can find out about the following:

- Who is allowed to pass through an access point at a given date and time.
 - Which access points a cardholder is allowed to use at a given date and time.
 - Why a given cardholder can or cannot use an access point at a given date and time.
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

action

An action is a user-programmable function that can be triggered as an automatic response to an event, such as door held open for too long or object left unattended, or that can be executed according to a specific time table.

active alarm

An active alarm is an alarm that has not yet been acknowledged.

active authentication

Active authentication is when the client application captures the user credentials and sends them through a secure channel to a trusted identity provider for authentication.

Active Directory

Active Directory is a directory service created by Microsoft, and a type of role that imports users and cardholders from an Active Directory and keeps them synchronized.

Active Directory Federation Services

Active Directory Federation Services (ADFS) is a component of the Microsoft® Windows® operating system that issues and transforms claims, and implements federated identity.

Activity trails

The Activity trails task is a maintenance task that reports on the user activity related to video, access control, and ALPR functionality. This task can provide information such as who played back which video recordings, who used the Hotlist and permit editor, who enabled hotlist filtering, and much more.

add-on

An add-on is a software package that adds tasks, tools, or specific configuration settings to Security Center systems.

Advanced Systems Format

The Advanced Systems Format (ASF) is a video streaming format from Microsoft. The ASF format can only be played in media players that support this format, such as Windows Media Player.

agent

An agent is a subprocess created by a Security Center role to run simultaneously on multiple servers for the purpose of sharing its load.

alarm

An alarm entity informs users of a situation that requires immediate attention and provides details on how it can be handled in Security Center. For example, an alarm can indicate which entities (usually cameras and doors) best describe the situation, who must be notified, how it must be displayed to the user, and so on.

alarm acknowledgment

An alarm acknowledgment is the final user response to an alarm that ends its lifecycle and removes it from the active alarm list.

Alarm monitoring

The Alarm monitoring task is an operation task that you can use to monitor and respond to alarms (acknowledge, forward, snooze, and so on) in real time, and to review past alarms.

Alarm report

The Alarm report task is an investigation task that you can use to search and view current and past alarms.

Alarms

The Alarms task is an administration task that you can use to configure alarms and monitor groups.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

ALPR

The ALPR task is an administration task that you can use to configure roles, units, hotlists, permits, and overtime rules for ALPR, and related entities and settings.

ALPR camera

An Automatic License Plate Recognition (ALPR) camera is a camera connected to an ALPR unit that produces high resolution close-up images of license plates.

ALPR context

An ALPR context is an ALPR optimization that improves license plate recognition performance for license plates from a specific region (for example, New York) or from a group of regions (for example, Northeast states).

ALPR Frequency Monitor

The Stakeout - ALPR Frequency Monitor plugin tracks how often vehicles are detected by fixed Sharp cameras. The system can alert Security Desk users if vehicles without whitelisted license plates have exceeded the configured threshold.

ALPR Manager

The ALPR Manager role manages and controls the patrol vehicle software (Genetec Patroller™), Sharp cameras, and parking zones. The ALPR Manager stores the ALPR data (reads, hits, timestamps, GPS coordinates, and so on) collected by the devices.

ALPR rule

ALPR rule is a method used by Security Center and AutoVu™ for processing a license plate read. An ALPR rule

can be a hit rule or a parking facility.

ALPR unit

An ALPR unit is a device that captures license plate numbers. An ALPR unit typically includes a context camera and at least one ALPR camera.

analog monitor

An analog monitor entity represents a monitor that displays video from an analog source, such as a video decoder or an analog camera. This term is used in Security Center to refer to monitors that are not controlled by a computer.

antipassback

Antipassback is an access restriction placed on a secured area that prevents a cardholder from entering an area that they have not yet exited from, and vice versa.

architecture version

An architecture version is a software version that introduces significant changes to the architecture or user experience of the platform. Architecture upgrades require changes to system design and configuration settings, data migration, and retraining of users. Architecture versions are not compatible with previous versions. A license update is required to upgrade to a new architecture version. An architecture version is indicated by a version number with zeros at the second, third and fourth positions: X.0.0.0. For more information, see our Product Lifecycle page on GTAP.

Archiver

The Archiver role is responsible for the discovery, status polling, and control of video units. The Archiver also

manages the video archive and performs motion detection if it is not done on the unit itself.

Archiver events

The Archiver events task is a maintenance task that reports on events pertaining to selected Archiver roles.

Archiver statistics

Archiver statistics is a maintenance task that reports on the operation statistics (number of archiving cameras, storage usage, bandwidth usage, and so on) of the selected archiving roles (Archiver and Auxiliary Archiver) in your system.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

Archives

The Archives task is an investigation task that you can use to find and view video archives by camera and time range.

Archive storage details

The Archive storage details task is a maintenance task that reports on the video files (file name, start and end time, file size, protection status, and so on) used to store video archive. Using this task, you can also change the protection status of these video files.

archive transfer

Archive transfer is the process of transferring your video data from one location to another. The video is recorded and stored on the video unit itself or on an Archiver storage disk, and then the recordings are transferred to another location.

Archive transfer

(Obsolete as of Security Center 5.8 GA) The Archive transfer task is an administration task that allows you to configure settings for retrieving recordings from a video unit, duplicating archives from one Archiver to another, or backing up archives to a specific location. Starting from Security Center 5.8 GA, Archive transfer is a page inside the Video administration task.

archiving role

An archiving role is an instance of either the Archiver role or Auxiliary Archiver role.

area

In Security Center, an area entity represents a concept or a physical location (room, floor, building, site, and so on) used for grouping other entities in the system.

Area activities

The Area activities task is an investigation task that reports on access control events pertaining to selected areas.

Area presence

The Area presence is an investigation task that provides a snapshot of all cardholders and visitors currently present in a selected area.

area view

The area view is a view that organizes the commonly used entities such as doors, cameras, tile plugins, intrusion detection areas, zones, and so on, by areas. This view is primarily created for the day to day work of the security operators.

Area view

The Area view task is an administration task that you can use to configure areas, doors, cameras, tile plugins, intrusion detection areas, zones, and other entities found in the area view.

armed tile

An armed tile is a tile in Security Desk that displays new alarms that are triggered. In the Alarm monitoring task all tiles are armed, while in the Monitoring task, tiles must be armed by a user.

asset

An asset entity represents any valuable object with an RFID tag attached, thus allowing it to be tracked by an asset management software.

asymmetric encryption

See "public-key encryption".

asynchronous video

Asynchronous video is simultaneous playback video from more than one camera that are not synchronized in time.

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

audio decoder

An audio decoder is a device or software that decodes compressed audio streams for playback. Synonym of speaker.

audio encoder

An audio encoder is a device or software that encodes audio streams using a compression algorithm. Synonym of microphone.

Audit trails

The Audit trails task is a maintenance task that reports on the configuration changes of the selected entities in the system. The report also indicates the user who made the changes.

authentication

The process of verifying that an entity is what it claims to be. The entity could be a user, a server, or a client application.

Authentication Service

The Authentication Service role connects Security Center to an external identity provider for third-party authentication.

Instances of the Authentication Service role are protocol-specific. One of the

following protocols is selected at role creation:

- OpenID

- SAML2

- WS-Trust or WS-Federation

Multiple Authentication Service roles can be created, but each must monitor a unique list of domains.

authorization

The process of establishing the rights an entity has over the features and resources of a system.

authorized user

An authorized user is a user who can see (has the right to access) the entities contained in a partition. Users can only exercise their privileges on entities they can see.

automatic enrollment

Automatic enrollment is when new IP units on a network are automatically discovered by and added to Security Center. The role that is responsible for the units broadcasts a discovery request on a specific port, and the units listening on that port respond with a message that contains the connection information about themselves. The role then uses the information to configure the connection to the unit and enable communication.

automatic license plate recognition

Automatic license plate recognition (ALPR) is an image processing technology used to read license plate numbers. ALPR converts license plate numbers cropped from camera images into a database searchable

format.

AutoVu™

The AutoVu™ automatic license plate recognition (ALPR) system automates license plate reading and identification, making it easier for law enforcement and for municipal and commercial organizations to locate vehicles of interest and enforce parking restrictions. Designed for both fixed and mobile installations, the AutoVu™ system is ideal for a variety of applications and entities, including law enforcement, municipal, and commercial organizations.

AutoVu™ Managed Services

With AutoVu™ Managed Services (AMS), your automatic license plate recognition (ALPR) system is hosted in the cloud and experts from Genetec Inc. configure and maintain it. This reduces the need for on-site IT infrastructure and support.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

AutoVu™ Third-party Data Exporter

The AutoVu™ Third-party Data Exporter is a feature that uses either an HTTPS or a SFTP connection protocol to securely export ALPR events, for example reads and hits, to external endpoints.

Auxiliary Archiver

The Auxiliary Archiver role supplements the video archive produced by the Archiver role. Unlike the Archiver role, the Auxiliary Archiver role is not bound to any particular discovery port,

therefore, it can archive any camera in the system, including cameras federated from other Security Center systems. The Auxiliary Archiver role cannot operate independently; it requires the Archiver role to communicate with video units.

Axis Powered by Genetec

Axis Powered by Genetec is an all-in-one solution that combines Genetec™ access control software with Axis network door controllers. Synergis™ Softwire is preinstalled onto the Axis controllers and runs as an app on the AXIS OS platform. This simplifies their deployment, configuration, and maintenance in Security Center. Axis Powered by Genetec is sold exclusively through Genetec™ Certified channel partners.

Badge designer

The Badge designer is the tool that you can use to design and modify badge templates.

badge template

A badge template is an entity used to configure a printing template for badges.

block face (2 sides)

A block face (2 sides) is a parking regulation characterizing an overtime rule. A block face is the length of a street between two intersections. A vehicle is in violation if it is seen parked within the same block over a specified period of time. Moving the vehicle from one side of the street to the other does not make a difference.

body-worn camera

A body-worn camera (BWC), also known as a wearable camera, is a video recording system that is typically

used by law enforcement to record their interactions with the public or gather video evidence at crime scenes.

bookmark

A bookmark is an indicator of an event or incident that is used to mark a specific point in time in a recorded video sequence. A bookmark also contains a short text description that can be used to search for and review the video sequences at a later time.

Bookmarks

The Bookmarks task is an investigation task that searches for bookmarks related to selected cameras within a specified time range.

Breakout box

The breakout box is the proprietary connector box of Genetec Inc. for AutoVu™ mobile solutions that use Sharp cameras. The breakout box provides power and network connectivity to the Sharp units and the in-vehicle computer.

broadcast

Broadcast is the communication between a single sender and all receivers on a network.

camera

A camera entity represents a single video source in the system. The video source can either be an IP camera, or an analog camera that connects to the video encoder of a video unit. Multiple video streams can be generated from the same video source.

camera blocking

Camera blocking is an Omnicast™ feature that lets you restrict the viewing of video (live or playback) from certain cameras to users with a minimum user level.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

Camera configuration

The Camera configuration task is a maintenance task that reports on the properties and settings of local cameras in your system (manufacturer, resolution, frame rate, stream usage, and so on).

Camera events

The Camera events task is an investigation task that reports on events pertaining to selected cameras within a specified time range.

Camera Integrity Monitor

The Camera Integrity Monitor role samples video images from cameras at regular intervals. The role detects any abnormal variations that indicate possible camera tampering, and generates Camera tampering events.

camera integrity monitoring

In Security Center, camera integrity monitoring is software that detects any form of tampering with the camera. This includes moving the camera, obstructing the camera view, changing the camera focus, and so

on. The software automatically generates events to alert the security team to remedy the situation.

camera sequence

A camera sequence is an entity that defines a list of cameras that are displayed one after another in a rotating fashion within a single tile in Security Desk.

canvas

Canvas is one of the panes found in the Security Desk's task workspace. The canvas is used to display multimedia information, such as videos, maps, and pictures. It is further divided into three panels: the tiles, the dashboard, and the properties.

capture rate

The capture rate measures the speed at which a license plate recognition system can take a photo of a passing vehicle and detect the license plate in the image.

Card and PIN

Card and PIN is an access point mode that requires a cardholder to present their card, and then enter a personal identification number (PIN).

cardholder

A cardholder entity represents a person who can enter and exit secured areas by virtue of their credentials (typically access cards) and whose activities can be tracked.

Cardholder access rights

The Cardholder access rights task is a maintenance task that reports on which

cardholders and cardholder groups are granted or denied access to selected areas, doors, and elevators.

Cardholder activities

The Cardholder activities task is an investigation task that reports on cardholder activities, such as access denied, first person in, last person out, antipassback violation, and so on.

Cardholder configuration

The Cardholder configuration is a maintenance task that reports on cardholder properties, such as first name, last name, picture, status, custom properties, and so on.

cardholder group

A cardholder group is an entity that defines the common access rights of a group of cardholders.

Cardholder management

The Cardholder management task is an operation task. You can use this task to create, modify, and delete cardholders. With this task, you can also manage a cardholders' credentials, including temporary replacement cards.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

certificate

Designates one of the following: (1) digital certificate; (2) SDK certificate.

certificate authority

A certificate authority or certification authority (CA) is an entity or organization that signs identity certificates and attests to the validity of their contents. The CA is a key component of the public-key infrastructure (PKI)

Certificate Signing

The Certificate Signing role acts as the certificate authority (CA) for all access control and video units whose certificates are managed in Security Center by the Unit Assistant role. You may have only one instance of this role in your system.

City Parking Enforcement

City Parking Enforcement is a Genetec Patroller™ software installation that is configured for the enforcement of parking permit and overtime restrictions.

City Parking Enforcement with Wheel Imaging

City Parking Enforcement with Wheel Imaging is a City Parking Enforcement installation of a Genetec Patroller™ application that also includes wheel imaging. The use of maps is mandatory and the mobile AutoVu™ system must include navigation hardware.

claim

A statement that a trusted third-party makes about a subject, such as a user. For example, a claim can be about a name, identity, key, group, privilege, or capability. Claims are issued by an identity provider. They are given one or more values and then packaged in a security token that is sent to relying applications during third-party authentication.

Clearance Uploader

is an application used to automatically upload media from body-worn cameras, sync folders, or other devices to Clearance, or a Security Center video archive, depending on which .json config file is used.

client certificate

A client certificate is an identity certificate used to authenticate the client's identity to the server. Unlike server certificates, client certificates are not used to encrypt data-in-transit. They only serve as a more secure authentication mechanism than passwords.

client-specific key stream

The client-specific key stream is the encrypted form of the master key stream. The master key stream is encrypted with the public key contained in an encryption certificate, specifically issued for one or more client machines. Only the client machines that have the encryption certificate installed have the required private key to decrypt the encrypted key stream.

cloud platform

A cloud platform provides remote computing and storage services through centralized data centers that are accessible via the Internet.

Cloud Playback

The Cloud Playback role is used by Cloud storage to stream video archives from the cloud to clients and federated users connected to the system. Cloud Playback supports the Real Time Streaming Protocol (RTSP) locally and uses TLS to retrieve video sequences from the cloud.

Cloud Storage

Cloud Storage is a service from Genetec Inc. that extends on-premises storage for Security Center Omnicast™ into the cloud. Video archives in Cloud Storage benefit from extended retention periods, secure and redundant storage, and seamless retrieval from Security Desk.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

collaborative incident

A collaborative incident is an incident type that requires the collaboration of multiple teams to resolve. Each team has specific tasks to follow, which are represented by sub-incidents. The collaborative incident is resolved when all its sub-incidents are resolved.

Config Tool

Config Tool is the Security Center administrative application used to manage all Security Center users and to configure all Security Center entities such as areas, cameras, doors, schedules, cardholders, patrol vehicles, ALPR units, and hardware devices.

Conflict resolution utility

The Conflict resolution utility is a tool that helps you resolve conflicts caused by importing users and cardholders from an Active Directory.

context camera

A context camera is a camera connected to an ALPR unit that produces a wider angle color image of the vehicle whose license plate was read by the ALPR camera.

contract permit parking

Contract permit parking is a parking scenario where only drivers with monthly permits can park in the parking zone. A whitelist is used to grant permit holders access to the parking zone.

controlled exit

A controlled exit is when credentials are necessary to leave a secured area.

controller module

Controller module is the processing component of Synergis™ Master Controller with IP capability. This module comes pre-loaded with the controller firmware and the web-based administration tool, Synergis™ Appliance Portal.

convenience time

The convenience time is a configurable leeway time before a vehicle starts to be charged after entering the parking zone. For example, if you need to set up a 2-hour free parking period before paid time or parking enforcement takes effect, you would set the convenience time for 2 hours. For parking lots where parking enforcement begins immediately, you would still need to set a short convenience time to allow vehicle owners time to find a parking spot and purchase parking time before parking enforcement begins.

Copy configuration tool

The Copy configuration tool helps you save configuration time by copying the settings of one entity to many

others that partially share the same settings.

correlation

Correlation refers to the relationship that exists between two types of events, X and Y. A correlation exists between X and Y if whenever event X occurs, event Y is expected. For example, if we observe that every time there is a large gathering of people (event X), the number of new cases of COVID-19 increases in the days that follow (event Y), we can assume that there is a correlation between large gatherings and the increase in the number of new cases of COVID-19.

covert hit

A covert hit is a read (captured license plate) that is matched to a covert hotlist. Covert hits are not displayed on the Genetec Patroller™ screen, but can be displayed in Security Desk by a user with proper privileges.

covert hotlist

Covert hotlists allow you to ensure the discretion of an ongoing investigation or special operation. When a hit is identified, only the authorized officer at the Security Center station is notified, while the officer in the patrol vehicle is not alerted. This enables enforcement officials to assign multiple objectives to the vehicle and back-end systems, while not interrupting the priorities of officers on duty.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

credential

A credential entity represents a proximity card, a biometrics template, or a PIN required to gain access to a secured area. A credential can only be assigned to one cardholder at a time.

Credential activities

The Credential activities task is an investigation task that reports on credential related activities, such as access denied due to expired, inactive, lost, or stolen credentials, and so on.

credential code

A credential code is a textual representation of the credential, typically indicating the Facility code and the Card number. For credentials using custom card formats, the user can choose what to include in the credential code.

Credential configuration

The Credential configuration task is a maintenance task that reports on credential properties, such as status, assigned cardholder, card format, credential code, custom properties, and so on.

Credential management

The Credential management task is an operation task. You can use this task to create, modify, and delete credentials. With this task, you can also print badges and enroll large numbers of card credentials into the system, either by scanning them at a designated card reader or by entering a range of values.

Credential request history

The Credential request history task is an investigation task that reports on which users requested, canceled, or printed cardholder credentials.

cumulative security rollup

A cumulative security rollup is a periodic release that contains the latest security fixes and updates for legacy Synergis™ Cloud Link units.

custom event

A custom event is an event added after the initial system installation. Events defined at system installation are called system events. Custom events can be user-defined or automatically added through plugin installations. Unlike system events, custom events can be renamed and deleted.

custom field

A custom field is a user-defined property that is associated with an entity type and is used to store additional information that is useful to your organization.

cyphertext

In cryptography, cyphertext is the encrypted data.

Daily usage per Patroller

The Daily usage per Patroller task is an investigation task that reports on the daily usage statistics of a selected patrol vehicle (operating time, longest stop, total number of stops, longest shutdown, and so on) for a given date range.

database server

A database server is an application that manages databases and handles data requests made by client applications. Security Center uses Microsoft SQL Server as its database server.

data ingestion

Data ingestion is the means through which you can import data from external sources into Security Center without having to develop complex code-based integrations.

debounce

A debounce is the amount of time an input can be in a changed state (for example, from active to inactive) before the state change is reported. Electrical switches often cause temporarily unstable signals when

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

changing states, possibly confusing the logical circuitry. Debouncing is used to filter out unstable signals by ignoring all state changes that are shorter than a certain period (in milliseconds).

default expiration delay

The default expiration delay is used for permits supplied by Pay-by-Plate Sync that do not include an expiration. In this case, AutoVu™ Free-Flow checks with the parking permit provider to see if the permit is still valid. Increasing this value reduces the frequency of the permit checks. For example, if the parking lot charges for parking in increments of 15 minutes, and you also set the default expiration delay to 15 minutes, the system validates the permit with the parking provider every 15 minutes.

degraded mode

Degraded mode is an offline operation mode of the interface module when the

connection to the Synergis™

unit is lost. The interface module grants access to all credentials matching a specified facility code.

dependent mode

Dependent mode is an online operation mode of the interface module where the Synergis™ unit makes all access control decisions. Not all interface modules can operate in dependent mode.

dewarping

Dewarping is the transformation used to straighten a digital image taken with a fisheye lens.

Diagnostic data collector

The Diagnostic data collector is a tool that you can use to collect and package system information to send to Genetec™ Technical Assistance Center for troubleshooting purposes.

digital certificate

A digital certificate, also known as X.509 certificate, is a digitally signed document that binds the identity of the certificate owner (a person, a computer, or an organization) to a pair of electronic encryption keys. Digital certificates are used for identity verification, asymmetric cryptography, data-in-transit security, and so on. Digital certificates are the basis for the HTTPS protocol.

digital signature

A digital signature is cryptographic metadata added to video frames by the Archiver or Auxiliary Archiver to ensure their authenticity. If a video sequence is manipulated by adding, deleting, or modifying frames, the signature of the modified content will differ from the original, indicating that the video sequence has been tampered with.

digital signature origin

A digital signature origin is a string of code that contains the Archiver ID of a Security Center system and an encrypted copy of the public key it uses for digital signatures. This string of code can be generated from the system and from each G64x video file its Archiver creates. The origins can then be compared for a match when validating the source Archiver for the digital signature of a file.

Directory

The Directory role identifies a Security Center system. It manages all entity configurations and system-wide settings.

Only a single instance of this role is permitted on your system. The server hosting the Directory role is called the main server, and must be set up first. All other servers you add in Security Center are called expansion servers, and must connect to the main server to be part of the same system.

Directory authentication

Directory authentication is a Security Center option that forces all client and server applications on a given machine to validate the identity certificate of the Directory before connecting to it. This measure prevents manipulator-in-the-middle attacks.

Directory gateway

Directory gateways allow Security Center applications located on a non-secured network to connect to the main server that is behind a firewall. A Directory gateway is a Security Center server that acts as a proxy for the main server. A server cannot be both a Directory server and a Directory gateway; the former must connect to the Directory database, while the latter must not, for security reasons.



Glossary

Directory Manager

The Directory Manager role manages the Directory failover and load balancing to produce the high availability characteristics in Security Center.

Directory server

A Directory server is any one of the multiple servers simultaneously running the Directory role in a high availability configuration.

discovery port

A discovery port is a port used by certain Security Center roles (Access Manager, Archiver, ALPR Manager) to find the units they are responsible for on the LAN. No two discovery ports can be the same on one system.

district

A district is a parking regulation characterizing an overtime rule. A district is a geographical area within a city. A vehicle is in violation if it is seen within the boundaries of the district over a specified period of time.

door

A door entity represents a physical barrier. Often, this is an actual door but it could also be a gate, a turnstile, or any other controllable barrier. Each door has two sides, named In and Out by default. Each side is an

access point (entrance or exit) to a secured area.

Door activities

The Door activities task is an investigation task that generates reports on door-related activities, such as access denied, door forced open, door open too long, hardware tamper, and so on.

door contact

A door contact monitors the state of a door, whether it is open or closed. It can also be used to detect an improper state, such as door open too long.

door side

Every door has two sides, named In and Out by default. Each side is an access point to an area. For example, passing through one side leads into an area, and passing through the other side leads out of that area. For the purposes of access management, the credentials that are required to pass through a door in one direction are not necessarily the same that are required to pass through in the opposite direction.

Door troubleshooter

The Door troubleshooter task is a maintenance task that lists all the cardholders who have access to a particular door side or elevator floor at a specific date and time.

Driver Development Kit

Driver Development Kit is a SDK for creating device drivers.

duress

A duress is a special code used to disarm an alarm system. This code quietly alerts

the monitoring station
that the alarm system was disarmed under threat.

dynamic permit

In a system that uses the Pay-by-Plate Sync plugin, a dynamic permit holds a list of vehicles that is updated by a third-party permit provider. For example, in a system where vehicle owners pay for parking at a kiosk or using a mobile phone app, the list of vehicles are dynamically managed by a third-party permit provider.

edge recording

Edge recording is the process of recording and storing recorded videos on the peripheral device, thus removing the need for a centralized recording server or unit. With edge recording, you can store video directly on the camera's internal storage device (SD card) or on a network attached storage volume (NAS volume).

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Glossary

electric door strike

An electric door strike is an electric device that releases the door latch when current is applied.

elevator

An elevator is an entity that provides access control properties to elevators. For an elevator, each floor is considered an access point.

Elevator activities

The Elevator activities task is an investigation task that reports on elevator related activities, such as access denied, floor accessed, unit is offline, hardware tamper, and so on.

encryption certificate

An encryption certificate, also known as a digital certificate or public-key certificate, is an electronic document that contains a public and private key pair used in Security Center for fusion stream encryption. Information encrypted with the public key can only be decrypted with the matching private key.

enforce

To enforce is to take action following a confirmed hit. For example, a parking officer can enforce a scofflaw violation (unpaid parking tickets) by placing a wheel boot on the vehicle.

entity

An entity represents anything in your system that requires configuration. This can be a physical device, such as a camera or a door, or an abstract concept, such as an alarm, a schedule, a user, a role, a plugin, or an add-on.

entity tree

An entity tree is the graphical representation of Security Center entities in a tree structure, illustrating the hierarchical nature of their relationships.

event

An event is a record of an activity or incident that occurred in the system. Security personnel can monitor

events in real time and investigate them later. Events can also trigger automations in the system.

event-to-action

An event-to-action links an action to an event. For example, you can configure an alarm to trigger when a door is forced open.

expansion server

An expansion server is any server machine in a Security Center system that does not host the Directory role. The purpose of the expansion server is to add to the processing power of the system.

extension

An extension refers to a group of manufacturer-specific settings found in the Extensions configuration page of a role, such as Archiver, Access Manager, or Intrusion Manager. Most extensions are built-in to Security Center, but some require the installation of an add-on; in those situations, the extension also refers to this add-on.

failover

Failover is a backup operational mode in which a role (system function) is automatically transferred from its primary server to a secondary server that is on standby. This transfer between servers occurs only if the primary server becomes unavailable, either through failure or through scheduled downtime.

false positive read

False positive plate reads can occur when a license plate recognition system mistakes other objects in an image for license plates. For example, lettering on a vehicle or street signs can

sometimes create false
positive plate reads.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

Federal Agency Smart Credential Number

A Federal Agency Smart Credential Number (FASC-N) is an identifier used in the Personal Identity Verification (PIV) credentials issued by US Federal Agencies. FASC-N credential bit lengths vary based on reader configuration; Security Center natively recognizes 75-bit and 200-bit formats.

Federal Information Processing Standard

Federal Information Processing Standards (FIPS) are publicly announced standards developed by the United States federal government for use in computer systems by non-military government agencies and government contractors.

federated entity

A federated entity is any entity that is imported from an independent system through a Security Center Federation™ role.

federated identity

A federated identity is a security token that is generated outside of your own realm that you accept. Federated identity enables single sign-on, allowing users to sign on to applications in different realms without needing to enter realm-specific credentials.

federated system

A federated system is a independent Security Center system that is unified under your local Security Center through a Federation™ role, so that the local users can view and control its entities as if they belong to their local system.

Federation™

Federation™ joins multiple, independent Genetec™ security systems into a single virtual system. With this feature, users on a central system, called the Federation host, can view and control entities that belong to remote systems.

Federation™ host

The Federation™ host is the Security Center or Security Center SaaS system that runs Federation™ roles. Users on the Federation™ host can view entities that belong to federated systems and control the entities directly from their system.

Federation™ user

The Federation™ user is the local user account on the remote system that the Federation™ host uses to connect to the remote system. The Federation™ user must have the Federation™ privilege. It is used to control what the Federation™ host can access on the remote system.

first-person-in rule

The first-person-in rule is the additional access restriction placed on a secured area that prevents anyone from entering the area until a supervisor is on site. The restriction can be enforced when there is free access (on door unlock schedules) and when there is controlled access (on access rules).

Forensic search

The Forensic search task is an investigation task that searches for video sequences based on video analytics events.

four-port RS-485 module

A four-port RS-485 module is a RS-485 communication component of Synergis™ Master Controller with four ports (or channels) named A, B, C, and D. The number of interface modules you can connect to each channel depends on the type of hardware you have.

free access

A free access is an access point state where no credentials are necessary to enter a secured area. The door is unlocked. This is typically used during normal business hours, as a temporary measure during maintenance, or when the access control system is first powered up and is yet to be configured.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

free exit

A free exit is an access point state where no credentials are necessary to leave a secured area. The person releases the door by turning the doorknob, or by pressing the REX button, and walks out. An automatic door closer shuts the door so it can be locked after being opened.

fusion stream

Fusion stream is a proprietary data structure of Genetec Inc. for streaming multimedia. Each fusion stream is a bundle of data (video, audio, and metadata) streams and key streams related to a single camera. Fusion streams are generated on specific client requests. The key streams are included only if the data streams are encrypted.

fusion stream encryption

Fusion stream encryption is a proprietary technology of Genetec Inc. used to protect the privacy of your video archives. The Archiver uses a two-level encryption strategy to ensure that only authorized client machines or users with the proper certificates on smart cards can access your private data.

G64

G64 is a Security Center format used by archiving roles (Archiver and Auxiliary Archiver) to store video sequences issued from a single camera. This data format supports audio, bookmarks, metadata overlays, timestamps, motion and event markers, and variable frame rate and resolution.

G64x

G64x is a Security Center format used to store video sequences from multiple cameras that are exported or backed up simultaneously. This data format supports audio, bookmarks, metadata overlays, timestamps, motion and event markers, variable frame rate and resolution, and watermarking.

Genetec Mission Control™

Genetec Mission Control™ is a collaborative decision management system that provides organizations with new levels of situational intelligence, visualization, and complete incident management capabilities. It allows security personnel to make the right decision when faced with routine tasks or unanticipated situations by ensuring a timely flow of information. To learn more about Genetec Mission Control™,

refer to the Genetec™
resource center.

Genetec Patroller™

Genetec Patroller™ is the software application installed on an in-vehicle computer that analyzes license plate reads from AutoVu™ Sharp camera units. The application can be installed to operate in different modes to suit your specific enforcement needs and can be configured to notify the vehicle operator if immediate action is required.

Genetec™ Mobile

Official name of the map-based Security Center mobile application for Android and iOS devices.

Genetec™ Protocol

Genetec™ Protocol is a standard protocol developed by Genetec Inc. that third-party video encoder and IP camera manufacturers can use to integrate their products to Security Center Omnicast™.

Genetec™ Server

Genetec™ Server is the Windows service that is at the core of Security Center architecture, and that must be installed on every computer that is part of the Security Center's pool of servers. Every such server is a generic computing resource capable of taking on any role (set of functions) you assign to it.

Genetec™ Update Service

The Genetec™ Update Service (GUS) is automatically installed with most Genetec™ products and enables you to update products when a new release becomes available.

Genetec™ Video Player

Genetec™ Video Player is a standalone media player you can use to view G64 and G64x video files exported from Security Desk. You can also use it to view video on a computer that does not have Security Center installed.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

Genetec™ Web App

Genetec™ Web App is a web application that gives users remote access to Security Center so that they can monitor videos, investigate events related to various system entities, search for and investigate alarms, respond to incidents, and generate reports. Users can log on from any computer that has a supported web browser installed.

geocoding

Geocoding, sometimes called forward geocoding, is the process of converting a street address into geographic location, such as a latitude and longitude pair.

Geographic Information System

Geographic Information System (GIS) is a system that captures spatial geographical data. Map Manager can connect to third-party vendors that provide GIS services in order to bring maps and all types of geographically referenced data to Security Center.

georeferencing

Georeferencing is the process of using an object's geographic coordinates (latitude and longitude) to determine its position on a map.

ghost camera

A ghost camera is an entity used as a substitute camera. This entity is automatically created by the Archiver when video archives are detected for a camera whose definition has been deleted from the Directory, either accidentally or because the physical device no longer exists. Ghost cameras cannot be configured, and only exist so users can reference the video archive that would otherwise not be associated to any camera.

ghost patroller

A ghost patroller entity is automatically created by the ALPR Manager when the AutoVu™ license includes the XML Import module. In Security Center, all ALPR data must be associated to a Genetec Patroller™ entity or an ALPR unit corresponding to a fixed Sharp camera. When you import ALPR data from an external source through a specific ALPR Manager using the XML Import module, the system uses the ghost entity to represent the ALPR data source. You can formulate queries using the ghost entity as you would with a normal entity.

global antipassback

Global antipassback is a feature that extends the antipassback restrictions to areas controlled by multiple Synergis™ units.

Global cardholder management

Global cardholder management (GCM) is used to synchronize cardholders between independent Security

Center installations.

With GCM, you can have a central repository of cardholder information for your entire organization, whether this information is managed from a central office or by individual regional offices.

Global Cardholder Synchronizer

The Global Cardholder Synchronizer (GCS) role ensures the two-way synchronization of shared cardholders and their related entities between the local system (sharing guest) where it resides and the central system (sharing host).

global entity

A global entity is an entity that is shared across multiple independent Security Center systems by virtue of its membership to a global partition. Only cardholders, cardholder groups, credentials, and badge templates are eligible for sharing.

global partition

Global partition is a partition that is shared across multiple independent Security Center systems by the partition owner, called the sharing host.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

grace period

You can add a grace period to a parking session for purposes of lenient enforcement. Following the expiration of the vehicle's paid time or convenience time, the grace period gives

extra time before a parking session is flagged as a Violation.

hard antipassback

Hard antipassback logs the passback event in the database and prevents the door from being unlocked due to the passback event.

hardening

Hardening is the process of enhancing hardware and software security. When hardening a system, basic and advanced security measures are put in place to achieve a more secure operating environment.

hardware integration package

A hardware integration package, or HIP, is an update that can be applied to Security Center. It enables the management of new functionalities (for example, new video unit types), without requiring an upgrade to the next Security Center release.

Hardware inventory

The Hardware inventory task is a maintenance task that reports on the characteristics (unit model, firmware version, IP address, time zone, and so on) of access control, video, intrusion detection, and ALPR units in your system.

hardware zone

A hardware zone is a zone entity in which the I/O linking is executed by a single access control unit. A hardware zone works independently of the Access Manager, and consequently, cannot be armed or disarmed from Security Desk.

hash function

In cryptography, a hash function uses a mathematical algorithm to take input data and return a fixed-size alphanumeric string. A hash function is designed to be a one-way function, that is, a function which is infeasible to revert.

Health history

The Health history task is a maintenance task that reports on health issues.

Health Monitor

The Health Monitor role monitors system entities such as servers, roles, units, and client applications for health issues.

Health statistics

The Health statistics task is a maintenance task that gives you an overall view of the health of your system by reporting on the availability of selected system entities such as roles, video units, and access control units.

high availability

High availability is a design approach that enables a system to perform at a higher than normal operational level. This often involves failover and load balancing.

hit

A hit is a license plate read that matches a hit rule, such as a hotlist, overtime rule, permit, or permit restriction. A Genetec Patroller™ user can choose to reject or accept a hit. An accepted hit can subsequently be enforced.

hit rule

A hit rule is an ALPR rule used to identify vehicles of interest (called "hits") using license plate reads. The hit rules include the following types: hotlist, overtime rule, permit, and permit restriction.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

Hits

The Hits task is an investigation task that reports on hits reported within a selected time range and geographic area.

hot action

A hot action is an action mapped to a PC keyboard function key (Ctrl+F1 through Ctrl+F12) in Security Desk for quick access.

hotlist

A hotlist is a list of wanted vehicles, where each vehicle is identified by a license plate number, the issuing state, and the reason why the vehicle is wanted (stolen, wanted felon, Amber alert, VIP, and so on). Optional vehicle information might include the model, the color, and the vehicle identification number (VIN).

Hotlist and permit editor

The Hotlist and permit editor task is an operation task. You can use it to edit an existing hotlist or permit list. A new list cannot be created with this task, but after an existing list has been added to Security Center, you can edit, add, or delete items from the list, and the original text file is updated with the changes.

hotspot

A hotspot is a map object that represents an area on the map which requires special attention. Clicking on a hotspot displays associated fixed and PTZ cameras.

I/O configuration

The I/O configuration task is a maintenance task that reports on the I/O configurations (controlled access points, doors, and elevators) of access control units.

I/O linking

I/O (input/output) linking is controlling an output relay based on the combined state (normal, active, or trouble) of a group of monitored inputs. A standard application is to sound a buzzer (through an output relay) when any window on the ground floor of a building is shattered (assuming that each window is monitored by a "glass break" sensor connected to an input).

I/O zone

An I/O zone is a zone entity in which the I/O linking can be spread across multiple Synergis™ units, while one unit acts as the master unit. All Synergis™ units involved in an I/O zone must be managed by the same Access Manager. The I/O zone works independently of the Access Manager, but ceases to function if the master unit is down. An I/O zone can be armed and disarmed from Security Desk as long as the master unit is online.

Identical plate multi-vehicle

The Identical plate multi-vehicle task is an investigation task to help you detect illegally duplicated license plates. The task flags license plates detected at locations too far apart for one vehicle to have traveled between reads.

identity certificate

An identity certificate is a digital certificate used to authenticate one party to another in a secure communication over a public network. Identity certificates are generally issued by an authority that is trusted by both parties, called a certificate authority (CA).

identity provider

An identity provider is a trusted, external system that administers user accounts, and is responsible for providing user authentication and identity information to relying applications over a distributed network.

illuminator

An illuminator is a light in the Sharp unit that illuminates the plate, thereby improving the accuracy of the images produced by the ALPR camera.

Import tool

The Import tool is the tool that you can use to import cardholders, cardholder groups, and credentials from a comma-separated values (CSV) file.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

inactive entity

An inactive entity is an entity that is shaded in red in the entity browser. It signals that the real world entity it represents is either not working, offline, or incorrectly configured.

incident

An incident is an unexpected event reported by a Security Desk user. Incident reports can use formatted text and include events and entities as support material.

incident (Genetec Mission Control™)

A Genetec Mission Control™ incident is an undesirable or unusual situation that needs investigation and resolution, or a routine, scheduled task that requires monitoring.

incident category

An incident category is an entity that represents a grouping of incident types that have similar characteristics.

Incident configuration

The Incident configuration task is an administration task that you can use to configure the incident types, the incident categories, and the support documents for Genetec Mission Control™. You can also use this task to generate reports on the changes made to incident types.

Incident Manager

The Incident Manager is the central role that recognizes situational patterns, and triggers incidents in a Genetec Mission Control™ system. This role manages the automation workflows and

keeps track of all user activities that are related to incidents.

Incident monitoring

The Incident monitoring task is an operation task that you can use to monitor and respond to incidents. From this task, you can see the incidents displayed on a map, thus improving your situational awareness.

incident owner

The incident owner is the incident recipient who took ownership of the incident. Only the incident owner can take actions to resolve the incident. An incident can only have one owner at a time.

incident recipient

An incident recipient is a user or user group that the incident has been dispatched to. Incident recipients can see the incident in the Incident monitoring task.

Incident report

The Incident report task is an investigation task that you can use to search, review, and analyze Genetec Mission Control™ incidents.

Incidents

The Incidents task is an investigation task that you can use to search, review, and modify incident reports created by Security Desk users.

incident supervisor

An incident supervisor is a user who sees an incident in the Incident monitoring

task because they supervise the incident recipients. Incident supervisors are not incident recipients themselves. A user cannot be both supervisor and recipient of the same incident.

incident trigger

An incident trigger is an event or a sequence of events that can trigger an incident. The Genetec Mission Control™ Rules Engine looks for specific combinations of events (type, time, correlation, and frequency) to determine whether to trigger an incident.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

incident type

An incident type entity represents a situation that requires specific actions to resolve it. The incident type entity can also be used to automate the incident detection in Genetec Mission Control™ and to enforce the standard operating procedures that your security team must follow.

interface module

An interface module is a third-party security device that communicates with an access control unit over IP or RS-485, and provides additional input, output, and reader connections to the unit.

interlock

An interlock (also known as sally port or airlock) is an access restriction placed on a secured area that permits only one perimeter door to be open at any given time.

Intrusion detection

The Intrusion detection task is an administration task that you can use to configure intrusion detection roles and units.

intrusion detection area

An intrusion detection area entity represents a zone (sometimes called an area) or a partition (group of sensors) on an intrusion panel.

Intrusion detection area activities

The Intrusion detection area activities task is an investigation task that reports on activities (master arm, perimeter arm, duress, input trouble, and so on) in selected intrusion detection areas.

intrusion detection unit

An intrusion detection unit entity represents an intrusion device (intrusion panel, control panel, receiver, and so on) that is monitored and controlled by the Intrusion Manager role.

Intrusion detection unit events

The Intrusion detection unit events task is an investigation task that reports on events (AC fail, battery fail, unit lost, input trouble, and so on) related to selected intrusion detection units.

Intrusion Manager

The Intrusion Manager role monitors and controls intrusion detection units. It listens to the events reported by the units, provides live reports to Security Center, and logs the events in a database for future reporting.

intrusion panel

An intrusion panel (also known as alarm panel or control panel) is a wall-mounted unit where the alarm sensors (motion sensors, smoke detectors, door sensors, and so on) and wiring of the intrusion alarms are connected and managed.

Inventory management

The Inventory management task is an operation task that you can use to add and reconcile license plate reads to a parking facility inventory.

Inventory report

The Inventory report task is an investigation task that you can use to view a specific inventory (vehicle location, vehicle length of stay, and so on) or compare two inventories of a selected parking facility (vehicles added, vehicles removed, and so on).

IP camera

An IP camera is a video encoder unit incorporating a camera.

IPv4

IPv4 is the first generation Internet protocol using a 32-bit address space.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

IPv6

IPv6 is a 128-bit Internet protocol that uses eight groups of four hexadecimal digits for address space.

Keyhole Markup Language

Keyhole Markup Language (KML) is a file format used to display geographic data in an Earth browser such as Google Earth and Google Maps.

KiwiVision™ Camera Integrity Monitor

KiwiVision™ Camera Integrity Monitor is a Security Center module that ensures cameras are operational at all times by performing regular checks of their video to detect whether the cameras have been tampered with.

KiwiVision™ Privacy Protector™

KiwiVision™ Privacy Protector™ is a Security Center module that ensures the privacy of individuals recorded by video surveillance cameras while safeguarding potential evidence.

Law Enforcement

Law Enforcement is a Genetec Patroller™ software installation that is configured for law enforcement: the matching of license plate reads against lists of wanted license plates (hotlists). The use of maps is optional.

layout

In Security Desk, a layout entity represents a snapshot of what is displayed in a Monitoring task. Only the tile pattern and the tile contents are saved, not the tile state.

license key

A license key is the software key used to unlock the Security Center software. The license key is specifically generated for each computer where the Directory role is installed. To obtain your license key, you need the System ID (which identifies your system) and the Validation key (which identifies your computer).

license plate inventory

A license plate inventory is a list of license plate numbers of vehicles found in a parking facility within a given time period, showing where each vehicle is parked (sector and row).

license plate read

A license plate read is a license plate number captured from a video image using ALPR technology.

live event

A live event is an event that Security Center receives when the event occurs. Security Center processes live events in real-time. Live events are displayed in the event list in Security Desk and can be used to trigger event-to-actions.

live hit

A live hit is a hit matched by the Genetec Patroller™ and immediately sent to the Security Center over a wireless network.

live read

A live read is a license plate captured by the patrol vehicle and immediately sent to Security Center over a wireless network.

load balancing

Load balancing is the distribution of workload across multiple computers.

logical ID

Logical ID is a unique ID assigned to each entity in the system for ease of reference. Logical IDs are only unique within a particular entity type.

Logons per Patroller

The Logons per Patroller task is an investigation task that reports on the logon records of a selected patrol vehicle.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

long-term overtime

If you need to monitor long-term parking violations for vehicles that are parked for more than a certain number of days, you can configure long-term overtime settings in Genetec Patroller™ and Security Center.

LPM protocol

The License Plate Management (LPM) protocol provides a Sharp camera with a secure and reliable connection to Security Center. When The LPM protocol is enabled on a Sharp camera, the protocol manages the camera's connection to the ALPR Manager role.

macro

A macro is an entity that encapsulates a C# program that adds custom functionalities to Security Center.

main server

The main server is the only server in a Security Center system hosting the Directory role. All other servers on the system must connect to the main server to be part of the same system. In a high availability configuration where multiple servers host the Directory role, it is the only server that can write to the Directory database.

major version

A major version is a software version that adds new features, behavioral changes, SDK capabilities, support for new devices, and performance improvements. Using backward compatibility mode, major versions are compatible with up to three previous major versions. A license update is required to upgrade to a new major version. A major version is indicated by a version number with zeros at the third and fourth positions: X.Y.0.0. For more information, see our Product Lifecycle page on GTAP.

manipulator-in-the-middle

In computer security, manipulator-in-the-middle is a form of cyberattack where attackers position themselves in communications between users and applications for information theft, to capture and manipulate sensitive information, or to gain a foothold for an advanced persistent threat.

manual capture

Manual capture is when license plate information is entered into the system by the user and not by the ALPR.

map

A map entity is a two-dimensional diagram that enables you to interact with your security equipment, while providing a reference to their physical locations and statuses.

Map designer

The Map designer task is an administration task that you can use to create and edit maps that represent the physical locations of your equipment to Security Desk users.

map link

A map link is a map object that brings you to another map with a single click.

Map Manager

The Map Manager is the central role that manages all mapping resources in Security Center, including imported map files, external map providers, and KML objects. It acts as the map server for all client applications that require maps and as the record provider for all Security Center entities placed on georeferenced maps. The Map Manager role replaced the Plan Manager role in Security Center 5.4 GA.

map mode

Map mode is a Security Desk canvas operating mode that replaces tiles and controls with a geographical map showing all active, georeferenced events in your system. Switching to Map mode is a feature that comes with AutoVu™, Correlation, or Genetec Mission Control™, and requires a license for one of these major features.

map object

Map objects graphically represent entities, cities, highways, and other geographical

features on maps. Using map objects, you can interact with your system without leaving the map.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Glossary

map preset

A map preset is a saved map view. Every map has at least one preset, called the default view, that is displayed when a user opens the map.

Maps

The Maps task is an operation task that heightens your situational awareness by providing the context of a map to your security monitoring and control activities.

map view

A map view is a defined section of a map.

master arm

Master arm is arming an intrusion detection area in such a way that all sensors attributed to the area would set the alarm off if one of them is triggered.

master key stream

In fusion stream encryption, the master key stream is the sequence of symmetric keys generated by the Archiver to encrypt one data stream. The symmetric keys are randomly generated and change every minute.

For security reasons, the master key stream is never transmitted or stored anywhere as plaintext.

maximum session time

Setting a maximum session time helps to improve parking lot occupancy statistics. When a vehicle exceeds the maximum session time, it is assumed that the vehicle's plate was not read at the exit and the vehicle is no longer in the parking zone. The parking session appears in reports generated from the Parking sessions task with the State reason: Maximum session time exceeded.

max occupancy

The max occupancy feature monitors the number of people in an area, up to a configured limit. Once the limit is reached, the rule will either deny access to additional cardholders (if set to Hard) or trigger events while allowing further access (Soft).

Media Gateway

The Media Gateway role is used by Genetec™ Mobile, Security Center Web Client, and Genetec™ Web App to get transcoded video from Security Center. The Media Gateway role supports the Real Time Streaming Protocol (RTSP), which external applications can use to request raw video streams from Security Center.

Media Router

The Media Router is the central role that handles all audio and video stream requests in Security Center or Security Center SaaS. It establishes streaming sessions between the stream source, such as a camera or an Archiver role, and the client applications that request the sessions. The location and transmission capabilities of each party determine the routing decisions.

minor version

A minor version is a software version that adds new features, SDK capabilities, support for new devices, bug fixes, and security fixes. Different system components can run at different minor versions, provided they share the same major version. No license update is required to upgrade to a new minor version. A minor version is indicated by a version number with a zero at the fourth position: X.Y.Z.0. For more information, see our Product Lifecycle page on GTAP.

missing file

A missing file is a video file that is still referenced by an archive database, but cannot be accessed anymore. This situation occurs when video files are deleted manually without using the Archive storage details task, creating a mismatch between the number of video files referenced in the database and the actual number of video files stored on disk.

Mobile Admin

(Obsolete as of SC 5.8 GA) Mobile Admin is a web-based administration tool used to configure the Mobile Server.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

mobile credential

A mobile credential is a credential on a smartphone that uses Bluetooth or Near Field Communication (NFC) technology to access secured areas.

Mobile Credential Manager

The Mobile Credential Manager role links Security Center to your third-party mobile credential provider so that you can view your subscription status, and manage your mobile credentials and profiles in Config Tool.

mobile credential profile

A mobile credential profile links a part number from your mobile credential provider to your subscription so that you can create mobile credentials in Security Center.

Mobile Data Computer

Mobile Data Computer is a tablet computer or ruggedized laptop used in patrol vehicles to run the Genetec Patroller™ application. The MDC is typically equipped with a touch-screen with a minimum resolution of 800 x 600 pixels and wireless networking capability.

Mobile License Plate Inventory

Mobile License Plate Inventory (MLPI) is the Genetec Patroller™ software installation that is configured for collecting license plates and other vehicle information for creating and maintaining a license plate inventory for a large parking area or parking garage.

Mobile Server

The Mobile Server role provides Security Center access on mobile devices.

monitor group

A monitor group is an entity used to designate analog monitors for alarm display. Besides the monitor groups, the only other way to display alarms in real time is to use the Alarm monitoring task in Security Desk.

monitor ID

Monitor ID is an ID used to uniquely identify a workstation screen controlled by Security Desk.

Monitoring

The Monitoring task is an operation task that you can use to monitor and respond to real-time events that relate to selected entities. Using the Monitoring task, you can also monitor and respond to alarms.

motion detection

Motion detection is the feature that watches for changes in a series of video images. The definition of what constitutes motion in a video can be based on highly sophisticated criteria.

Motion search

The Motion search task is an investigation task that searches for motion detected in specific areas of a camera's field of view.

motion zone

A motion zone is a user defined areas within a video image where motion should be detected.

Move unit

Move unit tool is used to move units from one manager role to another. The move preserves all unit configurations and data. After the move, the new manager immediately takes on the command and control function of the unit, while the old manager continues to manage the unit data collected before the move.

multi-factor authentication

Multi-factor authentication (MFA) is a security system that requires more than one method of authentication from independent categories of credentials to verify the user's identity for a login or other transaction.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

multi-tenant parking

If you manage transient parking and contract permit parking in parking zones, you can install AutoVu Free-Flow Multi-tenant plugin to manage parking lots where parking spots are leased to tenants.

network

The network entity is used to capture the characteristics of the networks used by your system so that proper stream routing decisions can be made.

network address translation

Network address translation is the process of modifying network address information in datagram (IP) packet headers while in transit across a traffic routing device, for the purpose of remapping one IP address space into another.

network view

The network view is a browser view that illustrates your network environment by showing each server under the network they belong to.

Network view

The Network view task is an administration task that you can use to configure your networks and servers.

new wanted

A new wanted is a manually entered hotlist item in Genetec Patroller™. When you are looking for a plate that does not appear in the hotlists loaded in the Genetec Patroller™, you can enter the plate in order to raise a hit if the plate is captured.

notification tray

The notification tray contains icons that allow quick access to certain system features, and also displays indicators for system events and status information. The notification tray display settings are saved as part of your user profile and apply to both Security Desk and Config Tool.

OCR equivalence

OCR equivalence is the interpretation of OCR (Optical Character Recognition) equivalent characters performed during license plate recognition. OCR equivalent characters are visually similar, depending on the plate's font. For example, the letter "O" and the number "0", or the number "5" and the letter "S". There are several pre-defined OCR equivalent characters for different languages.

officer

An officer, or wearable camera user, is an entity that identifies a person who holds a body-worn camera license and uploads video evidence to Genetec Clearance™ or a Security Center video

archive. Officers are automatically added when a camera is connected to the Genetec Clearance™ Uploader, but can also be added and modified manually.

offline event

An offline event is an event that occurs while the event source is offline. Security Center only receives the offline events when the event source is back online.

Omnicast™

Security Center Omnicast™ is the IP video management system (VMS) that provides organizations of all sizes the ability to deploy a surveillance system adapted to their needs. Supporting a wide range of IP cameras, it addresses the growing demand for HD video and analytics, all the while protecting individual privacy.

orphan file

An orphan file is a video file that is no longer referenced by any archive database. Orphan files remain on the disk until they are manually deleted. This situation occurs when the archive database is changed inadvertently, creating a mismatch between the number of video files referenced in the database and the actual number of video files stored on disk.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

output behavior

An output behavior is an entity that defines a custom output signal format, such as

a pulse with a delay and duration.

overtime rule

An overtime rule is an entity that defines a parking time limit and the maximum number of violations enforceable within a single day. Overtime rules are used in city and university parking enforcement. For university parking, an overtime rule also defines the parking area where these restrictions apply.

paid time

The paid time stage of a parking session begins when the convenience time expires. Vehicle owners can purchase parking time through a pay station or mobile app, and the payment system can be provided by integrated third-party parking permit providers.

parking facility

A parking facility entity defines a large parking area as a number of sectors and rows for the purpose of inventory tracking.

parking lot

A parking lot is a polygon that defines the location and shape of a parking area on a map. By defining the number of parking spaces inside the parking lot, Security Center can calculate its percentage of occupancy during a given time period.

parking rule

A parking rule defines how and when a parking session is either considered to be valid or in violation.

parking session

The AutoVu™ Free-Flow feature in Security Center uses parking sessions to track each vehicle's stay in a parking zone. A parking session is divided into four states: Valid (including convenience time, paid time, and grace period), Violation, Enforced, and Completed.

Parking sessions

The Parking sessions task is an investigation task that you can use to generate a list of vehicles that are currently in violation. You can create a vehicle inventory report for the current parking zone occupancy or for a specific time in the past based on the selected time filter.

parking session states

A vehicle's parking session is divided into four states: Valid (including convenience time, paid time, and grace period), Violation, Enforced, and Completed. When a vehicle parks in a parking zone, its parking session progresses through the parking session states based on the timing that is configured for the parking rule, the validity of the paid time, and whether the vehicle's parking session incurs a violation.

parking zone

The parking zones that you define in Security Center represent off-street parking lots where the entrances and exits are monitored by Sharp cameras.

Parking zone activities

The Parking zone activities task is an investigation task that you can use to track the parking zone-related events that occur between the time the vehicle's plate is read at the entrance and at the exit of the parking zone.

parking zone capacity

The parking zone capacity is the maximum number of vehicles that can be parked in a parking zone.

parking zone capacity threshold

The parking zone capacity threshold setting determines at what point a capacity threshold reached event is generated. For example, if you lower the threshold to 90%, the system generates an event when the parking zone reaches 90% capacity.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

partition

A partition is an entity in Security Center that defines a set of entities that are only visible to a specific group of users. For example, a partition could include all areas, doors, cameras, and zones in one building.

patch version

A patch version is a software version that adds support for new devices, bug fixes, and security fixes. Patch versions do not affect system compatibility, as long as all your system components are at the same major version. A patch version is indicated by a version number where the fourth position is not a zero. For more information, see our Product Lifecycle page on GTAP.

Patroller Config Tool

Genetec Patroller™ Config Tool is the Genetec Patroller™ administrative application used to configure Patroller-specific settings, such as adding Sharp cameras to the in-vehicle LAN, enabling features such as Manual Capture or New Wanted, and specifying that a username and password are needed to log on to Genetec Patroller™.

patroller entity

A patroller entity in Security Center represents a patrol vehicle equipped with an in-vehicle computer running Genetec Patroller™ software.

Patroller tracking

The Patroller tracking task is an investigation task that you can use to replay the route followed by a patrol vehicle on a given date on a map, or view the current location of patrol vehicles on a map.

patrol vehicle

A patrol vehicle monitors parking lots and city streets for parking violations or wanted vehicles. A patrol vehicle includes one or more Sharp automatic license plate recognition (ALPR) cameras and an in-vehicle computer running Genetec Patroller™ software.

People counting

The People counting task is an operation task that keeps count in real-time of the number of cardholders in all secured areas of your system.

perimeter arm

Perimeter arm is arming an intrusion detection area in such a way that only sensors attributed to the area

perimeter set the alarm off if triggered. Other sensors, such as motion sensors inside the area, are ignored.

permit

A permit is an entity that defines a single parking permit holder. Each permit holder is characterized by a category (permit zone), a license plate number, a license issuing state, and optionally, a permit validity range (effective date and expiry date). Permits are used in both city and university parking enforcement.

permit hit

A permit hit is a hit that is generated when a read (license plate number) does not match any entry in a permit or when it matches an invalid permit.

permit restriction

A permit restriction is an entity that applies time restrictions to a series of parking permits for a given parking area. Permit restrictions can be used by patrol vehicles configured for University Parking Enforcement and for systems that use the AutoVu™ Free-Flow feature.

plaintext

In cryptography, plaintext is the data that is not encrypted.

Plate Reader

Plate Reader is the software component of the Sharp unit that processes the images captured by the ALPR camera to produce license plate reads, and associates each license plate read with a context image captured by the context camera. The Plate Reader also handles the communications with the Genetec Patroller™ and

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

the ALPR Manager. If an external wheel imaging camera is connected to the Sharp unit, the Plate Reader also captures wheel images from this camera.

plugin

A plugin (in lowercase) is a software component that adds a specific feature to an existing program. Depending on the context, plugin can refer either to the software component itself or to the software package used to install the software component.

Plugin

Plugin (with an uppercase, in singular) is the role template that serves to create specific plugin roles.

plugin role

A plugin role adds optional features to Security Center. A plugin role is created by using the Plugin role template. By default, it is represented by an orange puzzle piece in the Roles view of the System task.

Before

you can create a plugin role, the software package specific to that role must be installed on your system.

Plugins

The Plugins task is an administration task that you can use to configure plugin-specific roles and related entities.

Powered by Genetec

Powered by Genetec is a Genetec™ program where Genetec Inc. works with its partners to deploy Genetec™ software directly on their devices or firmware. Axis Powered by Genetec is the first application of this program.

primary server

The primary server is the default server chosen to perform a specific function (or role) in the system. To increase the system's fault-tolerance, the primary server can be protected by a secondary server on standby. When the primary server becomes unavailable, the secondary server automatically takes over.

privacy protection

In Security Center, privacy protection is software that anonymizes or masks parts of a video stream where movement is detected. The identity of individuals or moving objects is protected, without obscuring movements and actions or preventing monitoring.

Privacy Protector™

The Privacy Protector™ role requests original video streams from Archiver roles and applies data anonymization to the original video streams. The privacy-protected (anonymized) video stream is then sent back to the Archiver role for recording.

private IP address

A private IP address is an IP address chosen from a range of addresses that are only valid for use on a LAN. The ranges for a private IP address are: 10.0.0.0 to 10.255.255.255, 172.16.0.0 to 172.16.255.255, and

192.168.0.0 to 192.168.255.255. Routers on the Internet are normally configured to discard any traffic using private IP addresses.
private key

In cryptography, a private or secret key is either an encryption or decryption key known only to one of the parties that exchange secret messages.

private task

A private task is a saved task that is only visible to the user who created it.

privilege

Privileges define what users can do, such as arming zones, blocking cameras, and unlocking doors, over the part of the system they have access rights to.

Privilege troubleshooter

The Privilege troubleshooter is a tool that helps you investigate the allocation of user privileges in your Security Center system. With this tool, you can discover:

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

- Who has permission to work with a selected entity
 - What privileges are granted to selected users or groups
 - Who has been granted a privilege, has access to a specific entity, or both
- public key

In cryptography, a public key is a value provided by a designated authority as an encryption key that, combined with a private key that is generated at the same time, can be used to effectively encrypt messages and verify digital signatures.

public-key encryption

Public-key encryption, also known as asymmetric encryption, is a type of encryption where two different keys are used to encrypt and decrypt information. The private key is a key that is known only to its owner, while the public key can be shared with other entities on the network. What is encrypted with one key can only be decrypted with the other key.

public-key infrastructure

A public-key infrastructure (PKI) is a set of hardware, software, people, policies, and procedures needed to support the distribution and identification of public encryption keys. This enables users and computers to securely exchange data over networks such as the Internet and verify the identity of the other party.

public task

A public task is a saved task that can be shared and reused among multiple Security Center users.

reader

A reader is a sensor that reads the credential for an access control system. For example, this can be a card reader, or a biometrics scanner.

read rate

The read rate measures the speed at which a license plate recognition system can

correctly detect and read
all of the characters in an image of a license plate.

Reads

The Reads task is an investigation task that reports on license plate reads performed within a selected time range and geographic area.

Reads/hits per day

The Reads/hits per day task is an investigation task that reports on license plate reads performed within a selected time range and geographic area.

Reads/hits per zone

The Reads/hits per zone task is an investigation task that reports on the number of reads and hits per parking area for a selected date range.

realm

In identity terms, a realm is the set of applications, URLs, domains, or sites for which a token is valid. Typically a realm is defined using an Internet domain such as genetec.com, or a path within that domain, such as genetec.com/support/GTAC. A realm is sometimes described as a security domain because it encompasses all applications within a specified security boundary.

record cache

The record cache is the database where the Record Caching Service role keeps copies of records ingested from external data sources in Security Center. You can generate reports on the cached records using the Unified report investigation task.

Record Caching Service

The Record Caching Service role is used for data ingestion. Using this role, you can import records from external data sources into Security Center. You can share the ingested data across the entire unified platform

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

to enhance awareness and response, to provide contextual information on dynamic maps, or to visualize in operational dashboards.

Record Fusion Service

The Record Fusion Service is the central role that provides a unified querying mechanism for data records that come from a wide variety of sources, such as Security Center modules or third-party applications. All record requests go through this role, which then queries their respective record providers.

recording mode

Recording mode is the criteria by which the system schedules the recording of video streams. There are four possible recording modes:

- Continuous. Records continuously.
- On motion/Manual. Records according to motion detection settings, and when a user or system action requests it.
- Manual. Records only when a user or system action requests it.

- Off. No recording is permitted.
recording state

Recording state is the current recording status of a given camera. There are four possible recording states:
Enabled, Disabled, Currently recording (unlocked), and Currently recording (locked).

record provider

A record provider is either a Security Center role or an SDK application that connects a data source to the
Record Fusion Service role.

Records

Renamed to Unified report in Security Center 5.11.2.0.

record type

In Security Center, a record type defines the data format and display properties of a set of records that you
can share across the entire system through the Record Fusion Service role.

redirector

A redirector is a server assigned to host a redirector agent created by the Media Router role.

redirector agent

A redirector agent is an agent created by the Media Router role to redirect data streams from one IP
endpoint to another.

redundant archiving

Redundant archiving is an option that enhances the availability of video and audio archives during failover and protects against data loss.

Remote

The Remote task is an operation task that you can use to remotely monitor and control other Security Desk applications in your system that are running the Monitoring task or the Alarm monitoring task.

Remote configuration

The Remote configuration task is an administration task that you can use to configure federated Security Center entities without logging off from your local Config Tool.

rendering rate

Rendering rate is the comparison of how fast the workstation renders a video with the speed the workstation receives that video from the network.

Report Manager

The Report Manager role automates report emailing and printing based on schedules.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

report pane

The report pane is one of the panes found in the Security Desk workspace. It

displays query results or real-time events in a tabular form.

request to exit

Request to exit (REX) is a door release button normally located on the inside of a secured area that when pressed, allows a person to exit the secured area without having to show any credential. This can also be the signal from a motion detector. It is also the signal received by the controller for a request to exit.

restricted camera

Restricted cameras are cameras that Genetec Inc. has identified as cybersecurity risks.

reverse geocoding

Reverse geocoding is the process of converting a geographic location, such as a latitude and longitude pair, into a human-readable address.

reverse tunnel

A reverse tunnel is a private communication channel open between a server inside a secured LAN and a client outside. In the Security Center implementation, certificate authentication is used to protect against manipulator-in-the-middle attacks.

reverse tunneling

Reverse tunneling is a method of securing communication between clients and servers that are behind a firewall. This technique enhances security and simplifies firewall management. When using a reverse tunnel, the server initiates a connection to the client. This tunnel connection is secured by a previously shared keyfile that contains an identity certificate. When established, the reverse tunnel allows

bidirectional communication
without opening inbound firewall ports.

role

A role is a software component that performs a specific job within Security Center or Security Center SaaS.

roles and units view

The roles and units view is a browser view that lists the roles on your system with the units they control as child entities.

route

A route is a setting that configures the transmission capabilities between two end points in a network for the purpose of routing media streams.

Rules Engine

The Rules Engine is the component of the Genetec Mission Control™ system that analyzes and correlates the events collected by Security Center, based on predefined rules. The Rules Engine uses these events to detect and trigger incidents in the Genetec Mission Control™ system.

same position

The same position regulation is a type of parking regulation characterizing an overtime rule. A vehicle is in violation if it is seen parked at the exact same spot over a specified period of time. Genetec Patroller™ must be equipped with GPS capability to enforce this type of regulation.

schedule

A schedule is an entity that defines a set of time constraints that can be applied to a multitude of situations in the system. Each time constraint is defined by a date coverage (daily, weekly, ordinal, or specific) and a time coverage (all day, fixed range, daytime, and nighttime).

scheduled task

A scheduled task is an entity that defines an action that executes automatically on a specific date and time, or according to a recurring schedule.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

SDK certificate

An SDK certificate is what an SDK application (or plugin) needs to connect to Security Center. The certificate must be included in the Security Center license key for the SDK application to work.

secondary server

A secondary server is an alternative server on standby intended to replace the primary server in case the latter becomes unavailable.

secured area

A secured area is an area entity that represents a physical location where access is controlled. A secured area consists of perimeter doors (doors used to enter and exit the area) and access restrictions (rules governing the access to the area).

Secure Socket Layer

The Secure Sockets Layer (SSL) is a computer networking protocol that manages server authentication, client authentication and encrypted communication between servers and clients.

Security Center

Security Center is a truly unified platform that blends IP video surveillance, access control, automatic license plate recognition, intrusion detection, and communications within one intuitive and modular solution. By taking advantage of a unified approach to security, your organization becomes more efficient, makes better decisions, and responds to situations and threats with greater confidence.

Security Center Federation™

The Security Center Federation™ role connects the local system to an independent remote Security Center system. After connecting to the remote system, your local system acts as the Federation™ host and you can view federated entities and events locally.

Security Center Mobile

(Obsolete) See Mobile Server and Genetec™ Mobile.

Security Center Mobile application

(Obsolete) See Genetec™ Mobile.

Security Center SaaS Edition (Classic)

The Security Center SaaS Edition (Classic) is Security Center offered by subscription. Subscription-based ownership simplifies the transition to cloud services and provides an alternative way to purchase, deploy, and

maintain the Genetec™ Security Center unified platform.

security clearance

A security clearance is a numerical value used to further restrict the access to an area when a threat level is in effect. Cardholders can only enter an area if their security clearance is equal or higher than the minimum security clearance set on the area.

Security Desk

Security Desk is the unified user interface of Security Center. It provides consistent operator flow across all of the Security Center main systems, Omnicast™, Synergis™, and AutoVu™. The unique task-based design of Security Desk lets operators efficiently control and monitor multiple security and public safety applications.

security token

An on-the-wire representation of claims that is cryptographically signed by the issuer of the claims, providing strong proof to any relying party as to the integrity of the claims and the identity of the issuer.

Security video analytics

The Security video analytics task is an investigation task that reports on video analytics events that are triggered based on analytics scenarios.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

self-signed certificate

A self-signed certificate is an identity certificate that is signed by the same entity whose identity it certifies, as opposed to a certificate authority (CA). Self-signed certificates are easy to make and do not cost money. However, they do not provide all of the security properties that certificates signed by a CA aim to provide.

server

In Security Center, a server entity represents a computer on which the Genetec™ Server service is installed.

Server Admin

Server Admin is the web application running on every server machine in Security Center that you use to configure the Genetec™ Server settings. You use this same application to configure the Directory role on the main server.

server certificate

A server certificate is an identity certificate used to authenticate the server's identity to the client. Server certificates are also used to encrypt data-in-transit to ensure data confidentiality.

server mode

The server mode is a special online operation mode restricted to Synergis™ units, in which the unit allows the Access Manager (the server) to make all access control decisions. The unit must stay connected to the Access Manager at all times to operate in this mode.

sharing guest

A sharing guest is a Security Center system that has been given the rights to view and modify entities owned by another Security Center system, called the sharing host. Sharing is done by placing the entities in a global partition.

sharing host

A sharing host is a Security Center system that gives the right to other Security Center systems to view and modify its entities by putting them up for sharing in a global partition.

SharpOS

SharpOS is the software component of a Sharp unit. SharpOS is responsible for everything related to plate capture, collection, processing, and analytics. For example, a SharpOS update can include new ALPR contexts, new firmware, Sharp Portal updates, and updates to the Sharp's Windows services (Plate Reader, HAL, and so on).

Sharp Portal

Sharp Portal is a web-based administration tool used to configure Sharp cameras for AutoVu™ systems. From a web browser, you log on to a specific IP address (or the Sharp name in certain cases) that corresponds to the Sharp you want to configure. When you log on, you can configure options such as selecting the ALPR context (for example, Alabama, Oregon, Quebec), selecting the read strategy (for example, fast moving or slow moving vehicles), viewing the Sharp's live video feed, and more.

Sharp unit

The Sharp unit is a proprietary ALPR unit of Genetec Inc. that integrates license plate capturing and processing components, as well as digital video processing functions, inside a ruggedized casing.

SharpV

SharpV is a Sharp unit that is specialized for fixed installations. It is ideally suited for a range of applications, from managing off-street parking lots and facilities to covering major city access points to detect wanted vehicles. SharpV combines two high-definition cameras with onboard processing and illumination in a ruggedized, environmentally sealed unit. Both lenses are varifocal for ease of installation and the camera is powered via PoE+.

SharpX

SharpX is the camera component of the SharpX system. The SharpX camera unit integrates a pulsed LED illuminator that works in total darkness (0 lux), a monochrome ALPR camera (1024 x 946 @ 30 fps), and a

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

color context camera (640 x 480 @ 30 fps). The ALPR data captured by the SharpX camera unit is processed by a separate hardware component called the AutoVu™ ALPR Processing Unit.

SharpZ3

SharpZ3 is a proprietary mobile ALPR system designed by Genetec Inc. that integrates license plate cameras and a trunk unit that is responsible for ALPR processing as well as communication with the Genetec Patroller™ software running on the in-vehicle computer.

SharpZ3 base unit

The SharpZ3 base unit is the processing component of the SharpZ3 system. The base unit includes the ALPR module and up to three expansion modules that are used to add features to the system such as precise navigation, PoE ports for wheel imaging cameras, and so on.

single sign-on

Single sign-on (SSO) is the use of a single user authentication for multiple IT systems or even organizations.

soft antipassback

Soft antipassback only logs the passback events in the database. It does not restrict the door from being unlocked due to the passback event.

Software Development Kit

The Software Development Kit (SDK) is what end-users use to develop custom applications or custom application extensions for Security Center.

standalone mode

Standalone mode is an operation mode where the interface module makes autonomous decisions based on the access control settings previously downloaded from the Synergis™ unit. When the module is online, activity reporting occurs live. When the module is offline, activity reporting occurs on schedule, or when the connection to the unit is available. Not all interface modules can operate in standalone mode.

standard schedule

A standard schedule is a schedule entity that can be used in all situations. Its only limitation is that it does not support daytime or nighttime coverage.

static permit

In a system that uses the Pay-by-Plate Sync plugin, a static permit holds a list of vehicle license plates that is not updated by a third-party permit provider. For example, a list of employee vehicles that are authorized to park in the lot are manually maintained as a static list.

strict antipassback

A strict antipassback is an antipassback option. When enabled, a passback event is generated when a cardholder attempts to leave an area that they were never granted access to. When disabled, Security Center only generates passback events for cardholders entering an area that they never exited.

supervised mode

Supervised mode is an online operation mode of the interface module where the interface module makes decisions based on the access control settings previously downloaded from the Synergis™ unit. The interface module reports its activities in real time to the unit, and allows the unit to override a decision if it contradicts the current settings in the unit. Not all interface modules can operate in supervised mode.

SV appliance

Streamvault™ is a turnkey appliance that comes with an embedded operating system and Security Center preinstalled. You can use Streamvault™ appliances to quickly deploy a unified or standalone video surveillance and access control system.

SV Control Panel

SV Control Panel is a user interface application that you can use to configure your Streamvault™ appliance to

work with Security Center access control and video surveillance.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

symmetric encryption

Symmetric encryption is a type of encryption where the same key is used for both encryption and decryption.

synchronous video

A synchronous video is a simultaneous live video or playback video from more than one camera that are synchronized in time.

Synergis™

Security Center Synergis™ is the IP access control system (ACS) that heightens your organization's physical security and increases your readiness to respond to threats. Synergis™ supports an ever-growing portfolio of third-party door control hardware and electronic locks. Using Synergis™, you can leverage your existing investment in network and security equipment.

Synergis™ appliance

A Synergis™ appliance is an IP-ready security appliance manufactured by Genetec Inc. that is dedicated to access control functions. All Synergis™ appliances come pre-installed with Synergis™ Softwire and are enrolled as access control units in Security Center.

Synergis™ Appliance Portal

The Synergis™ Appliance Portal is the web-based administration tool used to configure and administer the Synergis™ appliance and upgrade its firmware.

Synergis™ Cloud Link

Synergis™ Cloud Link is an intelligent PoE-enabled IoT gateway designed to address the demand for a non-proprietary access control solution. Synergis™ Cloud Link provides native support for a wide variety of intelligent controllers and electronic locks.

Synergis™ IX

Synergis™ IX (pronounced "eye-ex") is a family of hybrid controllers and downstream modules used to manage both access control points and intrusion points. The Synergis™ IX product line is only available to the Australian and New Zealand markets.

Synergis™ Master Controller

Synergis™ Master Controller (SMC) is an access control appliance of Genetec Inc. that supports various third-party interface modules over IP and RS-485. SMC is seamlessly integrated with Security Center and can make access control decisions independently of the Access Manager.

Synergis™ Software

Synergis™ Software is the access control software developed by Genetec Inc. to run on various IP-ready security appliances. Synergis™ Software lets these appliances communicate with third-party interface modules. A security appliance running Synergis™ Software is enrolled as an access control unit in Security Center.

Synergis™ unit

A Synergis™ unit is a Synergis™ appliance that is enrolled as an access control unit in Security Center.

System

The System task is an administration task that you can use to configure roles, macros, schedules, and other system entities and settings.

System Availability Monitor

With System Availability Monitor (SAM) running, you can collect health information and view the health status of your Security Center systems to prevent and proactively resolve technical issues.

System Availability Monitor Agent

The System Availability Monitor Agent (SAMA) is the component of SAM that is installed on every Security Center main server. SAMA collects health information from Security Center and sends health information to the Health Monitoring Services in the cloud.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

Glossary

system event

A system event is a predefined event that indicates the occurrence of an activity or incident. System events are defined by the system and cannot be renamed or deleted.

System status

The System status task is a maintenance task that you can use to monitor the status of all entities of a given type in real time and to interact with them.

task

A task is a customizable user interface designed to handle a specific aspect of your work. For example, you can employ a monitoring task to observe real-time system events, an investigation task to identify suspicious activity, or an administration task to configure system settings.

taskbar

A taskbar is a user interface element of the Security Center client application window, composed of the Home tab and the active task list. The taskbar can be configured to be displayed on any edge of the application window.

task cycling

A task cycling is a Security Desk feature that automatically cycles through all tasks in the active task list following a fixed dwell time.

task workspace

A task workspace is an area in the Security Center client application window reserved for the current task. The workspace is typically divided into the following panes: canvas, report pane, controls, and area view.

temporary access rule

A temporary access rule is an access rule that has an activation and an expiration time. Temporary access

rules are suited for situations where permanent cardholders need to have temporary or seasonal access to restricted areas. These access rules are automatically deleted seven days after they expire to avoid cluttering the system.

third-party authentication

Third-party authentication uses a trusted, external identity provider to validate user credentials before granting access to one or more IT systems. The authentication process returns identifying information, such as a username and group membership, that is used to authorize or deny the requested access.

threat level

A threat level warns system users of changing security conditions, such as a fire or a shooting, in a specific area or the entire system. Specific handling procedures can be automatically applied when a threat level is raised or canceled.

tile

A tile is an individual window within the canvas, used to display a single entity. The entity displayed is typically the video from a camera, a map, or anything of a graphical nature. The look and feel of the tile depends on the displayed entity.

tile ID

The tile ID is the number displayed at the upper left corner of the tile. This number uniquely identifies each tile within the canvas.

tile mode

Tile mode is the main Security Desk canvas operating mode that presents information

in separate tiles.

tile pattern

The tile pattern is the arrangement of tiles within the canvas.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

tile plugin

A tile plugin is a software component that runs inside a Security Desk tile. By default, it is represented by a green puzzle piece in the area view.

Time and attendance

The Time and attendance task is an investigation task that reports on who has been inside a selected area and the total duration of their stay within a given time range.

timed antipassback

Timed antipassback is an antipassback option. When Security Center considers a cardholder to be already in an area, a passback event is generated when the cardholder attempts to access the same area again during the time delay defined by Presence timeout. When the time delay has expired, the cardholder can once again pass into the area without generating a passback event.

timeline

A timeline is a graphic illustration of a video sequence, showing where in time,

motion and bookmarks are found. Thumbnails can also be added to the timeline to help the user select the segment of interest.

transfer group

A transfer group is a persistent archive transfer scenario that lets you run a video transfer without redefining the transfer settings. These transfers can be scheduled or executed on demand. Transfer groups define which cameras or archiving roles are included in the transfer, when the archives are transferred, what data is transferred, and so on.

transient parking

Transient parking is a parking scenario where the driver must purchase parking time as soon as the vehicle enters the parking lot.

Transmission Control Protocol

A connection-oriented set of rules (protocol) that, along with the IP (Internet Protocol), is used to send data over an IP network. The TCP/IP protocol defines how data can be transmitted in a secure manner between networks. TCP/IP is the most widely used communications standard and is the basis for the Internet.

Transport Layer Security

Transport Layer Security (TLS) is a protocol that provides communications privacy and data integrity between two applications communicating over a network. When a server and client communicate, TLS ensures that no third party may eavesdrop or tamper with any message. TLS is the successor to the Secure Sockets Layer (SSL).

twilight schedule

A twilight schedule is a schedule entity that supports both daytime and nighttime coverages. A twilight schedule cannot be used in all situations. Its primary function is to control video related behaviors.

two-person rule

The two-person rule is the access restriction placed on a door that requires two cardholders (including visitors) to present their credentials within a certain delay of each other in order to gain access.

Unified report

The Unified report is an investigation task that you can use to query the record types available to you.

unit

A unit is a hardware device that communicates over an IP network that can be directly controlled by a Security Center role. We distinguish four types of units in Security Center:

- Access control units, managed by the Access Manager role
 - Video units, managed by the Archiver role
 - ALPR units, managed by the ALPR Manager role
 - Intrusion detection units, managed by the Intrusion Manager role
- techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024


Glossary

Unit Assistant

The Unit Assistant is the central role that manages system-wide security operations, such as updating unit passwords and renewing unit certificates, on supported access control and video units.

Unit discovery tool

Starting with Security Center 5.4 GA the Unit discovery tool has been replaced by the Unit enrollment tool.

Unit enrollment

Unit enrollment is a tool that you can use to discover IP units (video and access control) connected to your network, based on their manufacturer and network properties (discovery port, IP address range, password, and so on). After you discovered a unit, you can add it to your system.

Unit replacement

Unit replacement is a tool that you can use to replace a failed hardware device with a compatible one, while ensuring that the data associated to the old unit gets transferred to the new one. For an access control unit, the configuration of the old unit is copied to the new unit. For a video unit, the video archive associated to the old unit is now associated to the new unit, but the unit configuration is not copied.

unit synchronization

Unit synchronization is the process of downloading the latest Security Center settings to an access control unit. These settings, such as access rules, cardholders, credentials, unlock schedules, and so on, are required so that the unit can make accurate and autonomous decisions in the absence of the Access Manager.

University Parking Enforcement

University Parking Enforcement is a Genetec Patroller™ software installation that is configured for university parking enforcement: the enforcement of scheduled parking permits or overtime restrictions. The use of maps is mandatory. Hotlist functionality is also included.

unlock schedule

An unlock schedule defines the periods of time when free access is granted through an access point (door side or elevator floor).

unreconciled read

An unreconciled read is an MLPI license plate read that has not been committed to an inventory.

user

A user entity is an account with access to the system. System administrators create user entities and configure their rights and privileges on the system.

user group

A user group is an entity that defines a group of users who share common properties and privileges. By becoming member of a group, a user automatically inherits all the properties of the group. A user can be a member of multiple user groups. User groups can also be nested.

user level

A user level is a numeric value assigned to users to restrict their ability to perform certain operations, such as controlling a camera PTZ, viewing the video feed from a camera, or staying logged on when a threat level is set. Level 1 is the highest user level, with the most privileges.

User management

The User management task is an administration task that you can use to configure users, user groups, and partitions.

Vault

The Vault is a tool that displays your saved snapshots and exported G64, G64x, and GEK (encrypted) video files. From the Vault, you can view the video files, encrypt and decrypt files, convert files to ASF, or package files with the Genetec™ Video Player.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

vehicle identification number

A vehicle identification number (VIN) is an identification number that a manufacturer assigns to vehicles. This is usually visible from outside the vehicle as a small plate on the dashboard. A VIN can be included as additional information with license plate entries in a hotlist or permit list, to further validate a hit and ensure that it is the correct vehicle.

Video

The Video task is an administration task that you can use to configure video management roles, units, analog monitors, and cameras.

video analytics

Video analytics is the software technology that is used to analyze video for specific information about its content. Examples of video analytics include counting the number of people crossing a line, detection of unattended objects, or the direction of people walking or running.

video archive

A video archive is a collection of video, audio, and metadata streams managed by an Archiver or Auxilliary Archiver role. These collections are catalogued in the archive database that includes camera events linked to the recordings.

video decoder

A video decoder is a device that converts a digital video stream into analog signals (NTSC or PAL) for display on an analog monitor. The video decoder is one of the many devices found on a video decoding unit.

video encoder

A video encoder is a device that converts an analog video source to a digital format by using a standard compression algorithm, such as H.264, MPEG-4, MPEG-2, or M-JPEG. The video encoder is one of the many devices found on a video encoding unit.

video file

A video file is a file created by an archiving role (Archiver or Auxiliary Archiver) to store archived video. The file extension is G64 or G64x. You need Security Desk or the Genetec™ Video Player to view video files.

Video file explorer

The Video file explorer is an investigation task that you can use to browse through

your file system for video files (G64 and G64x), and to play, convert to ASF, and verify the authenticity of these files.

video protection

Video can be protected against deletion. Protection is applied on all video files needed to store the protected video sequence. Because no video file can be partially protected, the actual length of the protected video sequence depends on the granularity of the video files.

video sequence

A video sequence is any recorded video stream of a certain duration.

video stream

A video stream is an entity representing a specific video quality configuration (data format, image resolution, bit rate, frame rate, and so on) on a camera.

video unit

A video unit is a video encoding or decoding device that is capable of communicating over an IP network and that can incorporate one or more video encoders. The high-end encoding models also include their own recording and video analytics capabilities. Cameras (IP or analog), video encoders, and video decoders are all examples of video units. In Security Center, a video unit refers to an entity that represents a video encoding or decoding device.

video watermarking

Video watermarking adds visible text to live, playback, and exported video processed by Security Center. This text includes identifying information that is intended to deter unauthorized users from leaking video

recordings.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

(Obsolete) Beginning in Security Center 5.9.0.0, video watermarking no longer refers to the use of digital signatures for tampering protection. Tampering protection is now called digital signature.

virtual alarm

A virtual alarm is an alarm on an intrusion detection area that is activated through a virtual input.

virtual input

A virtual input is an input on an intrusion detection unit that is physically wired to an output so that Security Center can trigger it through the Trigger output action.

virtual zone

A virtual zone is a zone entity where the I/O linking is done by software. The input and output devices can belong to different units of different types. A virtual zone is controlled by the Zone Manager and only works when all the units are online. It can be armed and disarmed from Security Desk.

Visit details

The Visit details task is an investigation task that reports on the stay (check-in and check-out time) of current and past visitors.

Visitor activities

The Visitor activities task is an investigation task that reports on visitor activities (access denied, first person in, last person out, antipassback violation, and so on).

visitor escort rule

The visitor escort rule is the additional access restriction placed on a secured area that requires visitors to be escorted by a cardholder during their stay. Visitors who have a host are not granted access through access points until both they and their assigned host (cardholder) present their credentials within a certain delay.

Visitor management

The Visitor management task is the operation task that you can use to check in, check out, and modify visitors, as well as manage their credentials, including temporary replacement cards.

visual reporting

Visual reporting is dynamic charts or graphs in Security Desk that deliver insights that you act on. You can perform searches and investigate situations using these visual and user-friendly reports. The visual report data can be analyzed to help identify activity patterns and enhance your understanding.

visual tracking

Visual tracking is a Security Center feature that lets you follow an individual in live or playback mode through areas of your facility that are monitored by cameras.

VSIP port

The VSIP port is the name given to the discovery port of Verint units. A given Archiver can be configured to listen to multiple VSIP ports.

Watchdog

Genetec™ Watchdog is a Security Center service installed alongside the Genetec™ Server service on every server computer. Genetec™ Watchdog monitors the Genetec™ Server service, and restarts it if abnormal conditions are detected.

Wearable camera evidence

The Wearable camera evidence task is a maintenance task that reports on the upload and conversion status of the evidence files offloaded from body-worn camera (BWC) devices.

Wearable Camera Manager

The Wearable Camera Manager role is used to configure and manage body-worn camera (BWC) devices in Security Center, including configuring camera stations, adding officers (wearable camera users), uploading content to an Archiver, and setting the retention period for uploaded evidence.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Glossary

Web App Server

The Web App Server role is used to configure the Genetec™ Web App, a web application that gives users remote access to Security Center. Each role created defines a unique web address (URL) that users enter in their web browser to log on to the Genetec™ Web App and access information from

Security Center.

web-based authentication

Web-based authentication (also known as passive authentication) is when the client application redirects the user to a web form managed by a trusted identity provider. The identity provider can request any number of credentials (passwords, security tokens, biometric verifications, and so on) to create a multi-layer defense against unauthorized access. This is also known as multi-factor authentication.

Web-based SDK

The Web-based SDK role exposes the Security Center SDK methods and objects as web services to support cross-platform development.

Web Client

Security Center Web Client is a web application that gives users remote access to Security Center so that they can monitor videos, investigate events related to various system entities, search for and investigate alarms, and manage cardholders, visitors, and credentials. Users can log on to Web Client from any computer that has a supported web browser installed.

Web Client Server

The Web Client Server role is used to configure Security Center Web Client, a web application that gives users remote access to Security Center. Each role created defines a unique web address (URL) that users enter in their web browser to log on to the Security Center Web Client and access information from Security Center.

Web Map Service

Web Map Service (WMS) is a standard protocol for serving georeferenced map images

over the Internet that
are generated by a map server using data from a GIS database.

wheel imaging

Wheel imaging is a virtual tire-chalking technology that takes images of the wheels of vehicles to prove
whether they have moved between two license plate reads.

whitelist

A whitelist is a hotlist that is created to grant a group of license plates access to a parking lot. A whitelist can
be compared to an access rule where the secured area is the parking lot. Instead of listing the cardholders,
the whitelist applies to license plate credentials.

widget

A widget is a component of the graphical user interface (GUI) with which the user interacts.

Windows Communication Foundation

Windows Communication Foundation (WCF) is a communication architecture used to enable applications,
in one machine or for multiple machines connected by a network, to communicate. Genetec Patroller™ uses
WCF to communicate wirelessly with Security Center.

workstation

A workstation entity represents a Security Desk workstation in the system that grants additional access rights
and privileges to selected users when they log on to the system through it.

X.509 certificate

X.509 certificate and digital certificate are synonyms. In Security Center, these two terms are used

interchangeably.
zone

A zone is an entity that monitors a set of inputs and triggers events based on their combined states. These events can be used to control output relays.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Glossary

Zone activities

The Zone activities task is an investigation task that reports on zone related activities (zone armed, zone disarmed, lock released, lock secured, and so on).

Zone Manager

The Zone Manager role manages virtual zones and triggers events or output relays based on the inputs configured for each zone. It also logs the zone events in a database for zone activity reports.

Zone occupancy

The Zone occupancy task is an investigation task that reports on the number of vehicles parked in a selected parking area, and the percentage of occupancy.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

↑
Where to find product information

You can find our product documentation in the following locations:

- Genetec™ TechDoc Hub: The latest documentation is available on the TechDoc Hub. Can't find what you are looking for? Contact documentation@genetec.com.
- Installation package: The Installation Guide and Release Notes are available in the Documentation folder of the installation package. These documents also have a direct download link to the latest version of the document.
- Help: Security Center client and web-based applications include help, which explains how the product works and provide instructions on how to use the product features. To access the help, click Help, press F1, or tap the ? (question mark) in the different client applications.
techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024



Technical support

Genetec™ Technical Assistance Center (GTAC) is committed to providing its worldwide clientele with the best technical support services available. As a customer of Genetec Inc., you have access to TechDoc Hub, where you can find information and search for answers to your product questions.

- Genetec TechDoc Hub: Find articles, manuals, and videos that answer your questions or help you solve technical issues. Before contacting GTAC or opening a support case, it is recommended to search TechDoc Hub for

potential fixes, workarounds, or known issues.

To access the TechDoc Hub, log on to Genetec Portal and click TechDoc Hub. Can't

find what you're

looking for? Contact documentation@genetec.com.

- Genetec Technical Assistance Center (GTAC): Contacting GTAC is described in the Genetec Advantage Description.
Technical training

In a professional classroom environment or from the convenience of your own office, our qualified trainers can guide you through system design, installation, operation, and troubleshooting. Technical training services are offered for all products and for customers with a varied level of technical experience, and can be customized to meet your specific needs and objectives. For more information, go to <http://www.genetec.com/support/training/training-calendar>.

Licensing

- For license activations or resets, contact GTAC at <https://portal.genetec.com/support>.
 - For issues with license content or part numbers, or concerns about an order, 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, contact Genetec Sales at sales@genetec.com, or call 1-866-684-8006 (option #2).
- Hardware product issues and defects

Contact GTAC at <https://portal.genetec.com/support> to address any issue regarding Genetec appliances or any hardware purchased through Genetec Inc.

techdocs.genetec.com | Security Center Installation and Upgrade Guide 5.12.2.0

EN.500.002-V5.12.2.0(1) | Last updated: August 8, 2024

