Deployment and Installation Guide

NEDAP AEOS Plugin

Thomas Verdonck – DNCS – v 1.1

Contents

Foreword

The purpose of this document is to describe the prerequisites, deployment/installation and configuration steps, upgrade procedures, and uninstall steps of your SDK & API integration.

Complementary documentation

Document	Version	Date	Content
Genetec – Nedap AEOS Plugin Description	1.0	2024/08/19	General Document how to use and configure the plugin

Table 1 - Complementary Documentation

Version history

Version	Date	Author	Object
1.0	2024/08/25	Thomas Verdonck	Initial version
1.1	2025/02/20	Thomas Verdonck	Version updated installation procedure

Table 2 - Version History

Abbreviations

Term	Definition
GSC	Genetec Security Center

Table 3 - Abbreviations

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Preparing the deployment/installation of your integration

Important note regarding the deployment of the Genetec products

There are currently two ways of deploying Genetec products, such as the Security Center unified platform:

- **On-premises:** Installed directly at the customer site and not managed by Genetec.
- **On hosted systems:** Deployed on the cloud and is managed by Genetec.

When integrating with a hosted system, it is critical to know that the SDK & API integration **cannot** be installed/deployed on that system.

The only ways to connect the integration to the hosted system will be through the usage of the Web-based SDK or by deploying/installing the integration on a machine that is **not** part of the hosted system. The integration would then connect to the hosted system through a standard socket.

The following guide will give you an overview of the hosted systems provided by Genetec. It also contains the list of requirements that must be taken into consideration: https://techdocs.genetec.com/r/en-US/Cloud-Hosted-Security-Center-SaaS-Edition-Deployment-Guide-5.11/What-is-Security-Center-SaaS-edition

Installation pre-requisites

Hardware Requirements

To ensure optimal performance and reliability of the Genetec AEOS Plugin integration, the following hardware specifications are recommended:

Genetec Server (Hosting the Plugin Server Role)

- o *Processor: Intel Core I7 or higher, or equivalent multi-core processor.*
- o *Memory: Minimum 16 GB RAM (32 GB recommended for larger deployments).*
- o *Storage: SSD with at least 500 GB free space for plugin installation and data storage.*
- o *Network: Gigabit Ethernet connection with a minimum of 30 Mbits bandwidth and latency of 50ms or lower between the Genetec server and the AEOS server.*
- o *Redundancy: Consider using redundant power supplies and network interfaces to enhance reliability.*

AEOS Server

- o *Processor: Intel Xeon or equivalent with multi-core capability.*
- o *Memory: Minimum 16 GB RAM (32 GB recommended).*
- o *Storage: SSD with sufficient capacity to store access logs, cardholder data, and event history.*
- o *Network: Gigabit Ethernet connection with consistent bandwidth and low latency for real-time communication with the Genetec server.*

Software Requirements

Operating System

- o *Genetec Server: Windows Server 2016, 2019, or 2022 (64-bit).*
- o *AEOS Server: Typically Linux-based; consult Nedap AEOS documentation for specific OS requirements.*

Genetec Security Center

- o *Version: Genetec Security Center 5.11 or later.*
- o *Components: Ensure the Directory, Archiver, and appropriate roles (such as Plugin Role) are installed and configured.*

NEDAP AEOS Software

- o *Version: Ensure the AEOS system is running the latest stable version supported by the plugin.*
- o *APIs/SDKs: The AEOS SOAP and Socket APIs should be properly configured and accessible to the Genetec server.*

Genetec AEOS Plugin Software

- o *Installation Package: The AEOS Plugin must be downloaded and installed on the Genetec server and/or Client. The installation package includes the plugin executable, configuration scripts, and a license file.*

Genetec Product Requirements and Compatibility

Genetec Security Center Requirements

- o *Version Compatibility: The AEOS Plugin is compatible with Genetec Security Center version 5.11 and above. Ensure the latest service packs and updates are applied.*
- o *Licensing: A valid Genetec license that includes support for the AEOS Plugin (SKU: GSC-1SDK-NEDAP-AEOS) must be obtained and installed.*

AEOS Plugin Compatibility Matrix

- o *AEOS Server Compatibility: The plugin is designed to work with the latest stable releases of the AEOS server version 2024. Compatibility with specific AEOS versions should be verified against the plugin's release notes or documentation.*
- o *Genetec Security Center Modules: The plugin integrates seamlessly with the following modules:*
    - ▪ *Monitoring: For real-time event monitoring and door control.*
    - ▪ *Reporting: For generating reports related to door activity, cardholder activity, and credential activity.*
    - ▪ *Maps: For visual control and monitoring of AEOS federated doors on maps.*

Deploying/installing/ the SDK & API integration

Installation on Genetec Server

Download the Plugin Package

Obtain the AEOS Plugin package, usually provided as a ZIP file, from the vendor or software provider.

Transfer the ZIP file to the Genetec server where the plugin will be installed.

Extract the Plugin Files

Extract the contents of the ZIP file to a local directory, such as C:\Genetec\AEOSPlugin.

Verify that the extracted folder contains the plugin executable, the deploy-prod.bat script, a README file, and the personalized license file (.lic).

Install the Plugin

Navigate to the extracted plugin directory.

Copy the Genetec Aeos Plugin folder to the C:\Program Files (x86)\ directory.

Open an elevated Command Prompt (Run as Administrator).

Execute the deploy-prod.bat script by typing the following command:

C:\Program Files (x86)\Genetec Aeos Plugin\deploy-prod.bat

The script will make necessary registry adjustments and install the plugin.

Note: For server installations, this process will restart the Genetec Server Service. Ensure this action will not disrupt active operations.

Configuration of the Plugin

Add the Plugin Role in Genetec Security Center

Open the Genetec Security Center Config Tool.

Navigate to Area View.

Click on Add an entity and select Plugin.

From the list of installed plugins, choose the AEOS Plugin.

Proceed through the configuration steps:

Entity Name and Description: Enter a meaningful name and description for the plugin role.

Database Settings: Ensure correct database settings are applied.

Click Create to add the plugin role.

Configure the Plugin Role

Once the plugin role is created, it will appear in the tree view.

Right-click on the AEOS Plugin role and select Maintenance -> Deactivate role.

Open the Configuration Tab of the plugin role.

Fill in the required fields:

IP Address: Enter the IP address or FQDN of the AEOS server.

Username: Provide the username of an admin user with SOAP and Socket API access in AEOS.

Password: Enter the corresponding password for the AEOS admin user.

License: Paste the contents of the .lic license file (open the file in Notepad to copy the text).

Reactivate the role by right-clicking the role and selecting Maintenance -> Activate role.

The plugin will now establish a connection with the AEOS server, and AEOS doors will be added as federated doors in Genetec Security Center.

Verification and Testing

Verify Plugin Operation

    Ensure the plugin role is active and communicating with the AEOS server.

    Navigate to the Monitoring task in Genetec Security Center and verify that the AEOS doors are listed as federated entities.

    Test Core Functionality

        Manual Unlock: Test unlocking an AEOS door via the Genetec interface.

        Event Monitoring: Generate access events in AEOS and confirm that they are received in real-time by the Genetec Security Center.

        Reporting: Run door activity, cardholder activity, and credential activity reports to ensure data is being correctly fetched and displayed.

Impact on Genetec Products and Services

Server Service Restart: The Genetec Server Service will restart during the installation process. This may cause a brief interruption in services such as event monitoring, reporting, and door control.

Network Load: The plugin will generate additional network traffic between the Genetec and AEOS servers. Ensure the network infrastructure can handle this load without introducing latency or packet loss.

Resource Utilization: The Genetec server's CPU, memory, and storage resources will be used by the plugin. Monitor system performance post-installation to ensure there are no adverse impacts on overall system performance.

Post-Installation Maintenance

    Monitor Logs: Regularly check the plugin logs for any errors or warnings.

    License Management: Keep track of the plugin license expiration and renewal process.

    Regular Updates: Apply any updates or patches to the plugin as provided by the vendor to ensure continued compatibility and security.

By following these detailed steps, you can successfully deploy and configure the Genetec AEOS Plugin in a variety of environments, ensuring full integration with both on-premise and cloud-based infrastructures.

Upgrading the SDK & API integration

Backup the database from configuration page of the plugin

Stop Genetec Security Center Services (if you are upgrading a server running the Plugin Role)

Delete the following folder "C:\Program Files (x86)\Genetec Aeos Plugin\"

Obtain the AEOS Plugin package, usually provided as a ZIP file, from the vendor or software provider.

    Transfer the ZIP file to the Genetec server where the plugin will be installed.

    Extract the Plugin Files.

Copy the folder "Genetec Aeos Plugin" to "C:\Program Files (x86)\"

Open an elevated Command Prompt (Run as Administrator).

Execute the deploy-prod.bat script by typing the following command:

C:\Program Files (x86)\Genetec Aeos Plugin\deploy-prod.bat

The script will make necessary registry adjustments and install the plugin.

Uninstalling the SDK & API integration

Deactivate the plugin role in the Genetec Security Center.

Delete the plugin entity from the system.

Remove the "Genetec AEOS Plugin" folder from the system.