Bosch Object Search Plugin for Genetec Security Center

Quick install guide

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1 Overview

The Bosch Object Search is available as a plug-in for Genetec Security Center. It enriches the metadata usage in Security Center for Bosch Cameras. The user has the capability to search for objects detected by the Bosch AI detector, obtain the results in Genetec Security Center and do playback of the detected event.

2 Architecture

3 Requirements

- Genetec Security Center: SC 5.10.0 or higher
- Bosch FW 6.32 or higher
  Recommended to use latest released version: https://downloadstore.boschsecurity.com/
- Bosch camera with enabled Analytics (CPP-6/7/7.3/13/14)
  Best performance provided by INTOEX Cameras

Note: Depending on the used Bosch Camera Platform, it is needed that the camera is calibrated.

4 Calibrate Bosch Camera

To generate accurate metadata (eg. Object classifying, speed etc.) it is essential that the Bosch camera is calibrated. Therefore, use the Bosch Configuration Manager, follow the necessary steps as described in the manual and in the wizard. Furthermore, how to videos are available on YouTube. Link https://www.youtube.com/watch?v=1Gf9f2UOz0I

In addition, please also synchronize the time of the Bosch camera and save the configuration.

5 Installation

The current version of the installer can be downloaded from the website https://www.boschsecurity.com/
The plug contains a client and a server version.

5.1 Installation Bosch Search Sever and Client Plugin

Step 1: Plugin License

Please ensure that the needed Genetec Plugin *GSC-1SDK-BOSCH-OBJSEARCH* license is enabled on the system

Step 2: Stop the Genetec Server via Windows Services

Step 3: Installation of the Bosch Object Search Plugin

Install the Server Plugin on the Genetec Server machine and Client Plugin on the client machine(s), in case server and client are operation on the same PC please install both beginning with the Server Plugin.

Follow the instructions of the setup wizard.

Step 4: Start the Genetec server via Windows Services

After successful installation start the Genetec Service

Windows Task Manager => Services => Genetec Server right-click => Start

5.2 Pre confirmation under Genetec Security Center

Step 1: Bosch HTTP Extension in Genetec Archiver

Metadata are supported via the Bosch HTTP extension in Genetec and not via the legacy RCP+ extension
Config Tool => Video =>Archiver => Extensions

Step 2: Enable thumbnail requests in config tool

Config Tool => Video => Resources => Advanced Setting

Step 3: Please enable recording of metadata (mostly be enabled by default)

Config Tool => Video =>Select Camera => Recording => enable Record metadata
Alternatively, this can be configured as a global setting in the Genetec Archiver

5.3 Configuration of Bosch Object Search Plugin in Config Tool

Step 1: Select Plugins

Configuration Tool => Tasks => Plugins

Step 2: Click 'Add an entity' and select Plugin.

Step 3: Select 'Bosch Object Search Plugin'.

Step 4: Define Entity name

Step 5: Plugin successfully installed.

Step 6: Check Connection Status.

Configuration Tool => Tasks => Plugins => Bosch Object Search => Resources

6 Uninstall the Bosch Object Search

Step 1: Uninstall the Plugin(s) via Windows functionary *Add or remove programs* and follow the uninstaller.

Step 2: Delete Plugin in Configuration Tool

The Plugin needs to be deleted in Configuration Tool
Configuration Tool => Tasks => Plugins => Bosch Object Search => right mouse click and select delete.

7 Bosch Object Search

7.1 Search capacities

The plugin provides following search capabilities

Searchable objects:

- Person Including object speed
- Truck Including object speed
- Bus Including object speed (INTEOX Only)
- Car Including object speed
- Motor Bike Including object speed (INTEOX Only, with CPP 6/7/7.3 reported as bike)
- Bicycle Including object speed (INTEOX Only, with CPP 6/7/7.3 reported as bike)

Note: The Bosch Camera must be calibrated.

7.2 How to Use the Bosch Search

Step 1: Start Security Desk and under Tasks -> Investigation select the 'Bosch Object Search Plugin'

Security Desk => Tasks => Bosch Search Plugin

Step 2: Perform Bosch Object search

1. Select Bosch camera (s) for search
2. Select Search criteria (s)
    - Object Classification
        - Person
        - Truck
        - Bus
        - Car
        - Motor Bike
        - Bicycle
        - Speed: enter speed for search (km/h or mph is based on the Windows system settings)
3. Select Time Range
4. Generate Report
5. View Results
6. Display recording

Scene description

- Class: Main class and number of objects in scene detected
- Subclass: Subclass and number of objects in scene detected
- Likelihood: Likelihood of detected objects
- Detection Speeds: Speed of the detected objects of the class.
- Note: Speed search will list all object classifications matching the selected speed limits.

Note: Depending on calibration it is possible that not all objects will be detected with all information like speed.

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