



by **Schneider** Electric

Pelco VideoXpert 1.x/ Lenel's OnGuard 7.0 Event Integration Guide

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Introduction to the Event Integration Data Plugin

What's in This Chapter?

- [Components of the Data Plugin](#)
- [How the Data Plugin Process Works](#)
- [Process Flow Diagram](#)

The Pelco Event Integration Data Plugin enables communication between Lenel physical alarm devices (Access panel, alarm panels, and card readers), the OnGuard 2013 Server, and the Pelco VideoXpert. For example, a Lenel card reader is swiped, an alarm sounds and that alarm is passed on to be managed by Pelco VideoXpert. A process is required to convert the physical alarm emitted from the device to a format that Pelco VideoXpert can manage. The Pelco Data Plugin performs this conversion process.

This guide provides an overview of the Pelco Event Integration Data Plugin process and describes how to configure the Pelco Event Integration Data Plugin. Once running, the Pelco Event Integration Data Plugin service has the capacity to process 100,000 events every half hour generated from the OnGuard Server.

Components of the Data Plugin

For Pelco VideoXpert to manage events initiated by Lenel card readers a few components are involved:

1. OnGuard server
2. [Pelco Event Integration Data Plugin](#) containing the following components:
 - Pelco Event Extractor
 - Pelco Event Injector
 - Data Plugin Configurator
3. Pelco VideoXpert

In addition to the above components for handling events, the Pelco Event Integration Data Plugin contains the Situation Loader utility to aid in the initial system setup and ongoing management.

How the Data Plugin Process Works

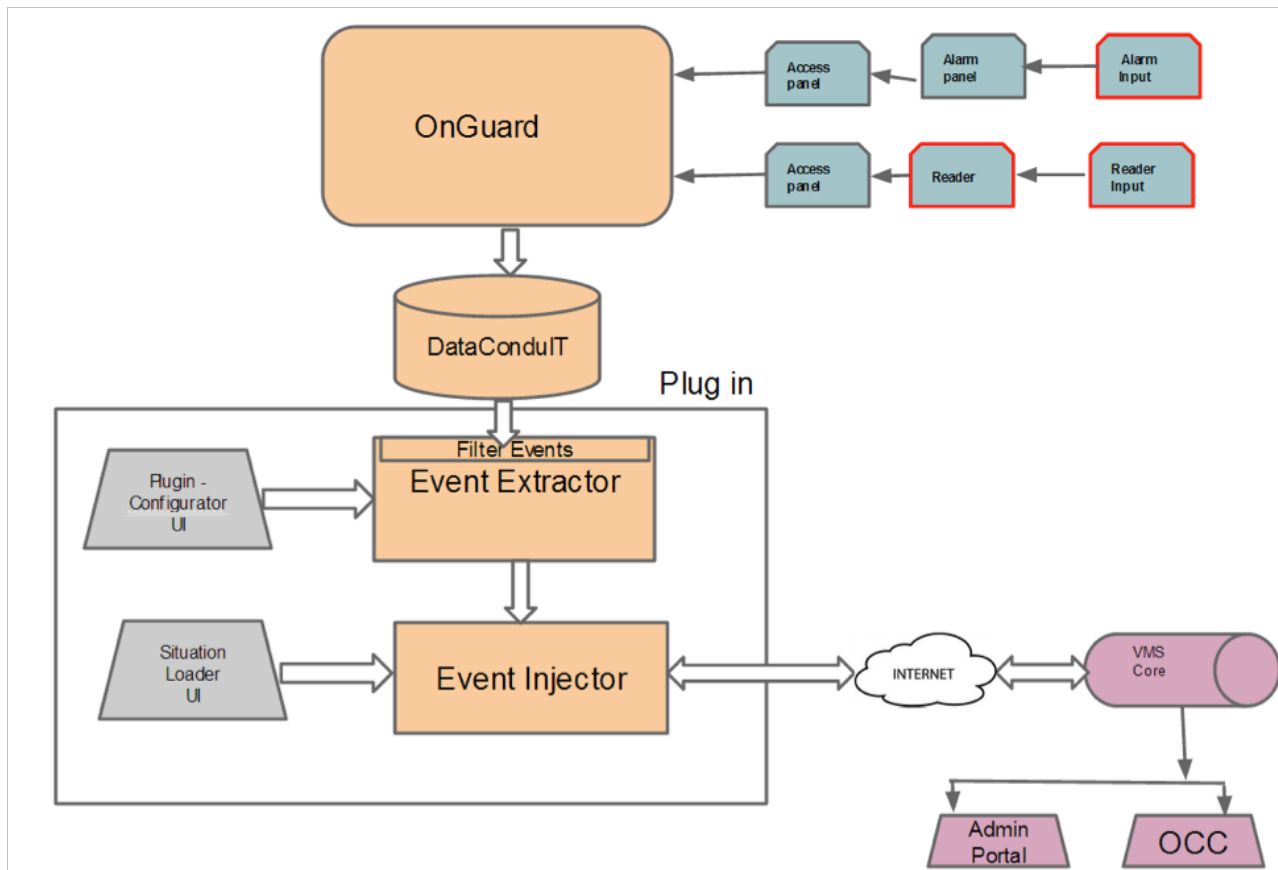
The Pelco Event Integration Data Plugin has a multi-step process to convert events triggered from the Lenel physical devices to System objects that can be managed by Pelco VideoXpert:

1. When a card reader is swiped at an alarm reader, it triggers an event on the Lenel Access Panel, which in turn triggers an Alarm on the OnGuard server.
2. The OnGuard server collects the event information sent from the Access Panel and then sends this event information on to the Pelco Event Extractor service through the DataConduIT API using WMI (Windows Management System).
3. The Pelco Event Extractor component of the Data Plugin receives the event from the OnGuard server, and sends an acknowledgement to the OnGuard server that it received the event. The event is then formatted and passed on to the Pelco Event Injector component.
4. The Pelco Injector component of the Data Plugin receives the alarm and then converts it to a Pelco SDK System object that is passed on to Pelco VideoXpert.
5. When Pelco VideoXpert receives the System object, which contains the event information, the process ends.

The Pelco Event Integration Data Plugin is implemented using the OnGuard DataConduIT API to extract events from the OnGuard server. Then the events are injected to Pelco VideoXpert using the Pelco 4.2 SDK calls.

Process Flow Diagram

The diagram below depicts how events flow from the OnGuard Server to Pelco VideoXpert.



How to Set Up the Event Integration Data Plugin

What's in This Chapter?

- [One-Time Set Up](#)
- [On-Going Maintenance](#)

The OnGuard – Pelco VideoXpert Event Integration Data Plugin comes with utilities to help with the initial system set up and to enable administrators to reconfigure on an ongoing basis. The Data Plugin also requires some configurations to do in the OnGuard Administrator.

| | |
|---|--|
| OnGuard System Administrator | Used to set up the OnGuard server system, directory, and users. For details, see OnGuard Server 2013 . |
| Pelco Event Data Plugin Configuration Tool | Allows you to control which events to pass on to Pelco VideoXpert. While the OnGuard server receives all events from the hardware, users might not want Pelco VideoXpert to handle them all. For example, the user might want to receive notification when “Access is granted, the reader is unlocked” but not when “Access is granted but no entry was made.” For details, see the Event Data Plugin Configuration Tool. Same tool is also used to configure the Pelco VideoXpert IP address, username, and password. |
| Pelco Situation Loader | Seeds data from the OnGuard server to Pelco VideoXpert as a pre-condition to inject events. The Pelco Situation Loader initializes Event Generating Device - Event types before Data Plugin starts sending events to Pelco VideoXpert. For details, see Situations Loader . |

One-Time Set Up

Before the Pelco Event Integration Data Plugin can begin to handle events from the OnGuard server, there is a one-time process required to set up the Data Plugin.

The set up process requires the administrator to:

1. Install and configure the OnGuard Server
2. Install and configure the Pelco Event Integration Data Plugin. The Data Plugin can be installed in two ways:
 - a. On the same machine on which OnGuard is installed. This is not recommended.
 - b. On a separate machine other than OnGuard and VideoXpert. For this configuration make sure the OnGuard machine and the machine on which the Data Plugin is installed are on the same domain. The integration will not work if the machines are on different domains. This is the recommended setup.
3. Use the Event Data Plugin Configuration Tool to specify which type of Devices, events and subtypes, called situations, you want managed by Pelco VideoXpert
4. Export situation data to disk to create a situations master file
5. Load situation master data

On-Going Maintenance

When the OnGuard – Pelco VideoXpert Event Integration Data Plugin is configured and the server started, the process converts physical device alarms to Pelco VideoXpert events. You can use the Data Plugin utilities to change which situations are handled.

You can use this Data Plugin Event Configuration Tool to reconfigure the Data Plugin. On-going maintenance includes:

- Updating filtering data when new physical devices are added or deleted with the Pelco Event Data Plugin Configuration Tool
- Exporting filter data to update the master data file
- Loading the updated situation master data file
- Viewing the log file: `\Pelco\PelcoExtractionPlugin\Log\PelcoLenelPlugin.log`

OnGuard – Pelco VideoXpert Event Integration Data Plugin

What's in This Chapter?

- [Installing the Pelco VideoXpert Event Integration Data Plugin](#)
- [Viewing the Pelco VideoXpert Integration Data Plugin Log](#)

The Pelco Extraction service must be running to that Pelco VideoXpert can manage the alarms coming from the OnGuard Access Panel.

Installing the Pelco VideoXpert Event Integration Data Plugin

The Pelco VideoXpert Event Integration plugin is installed in the directory where Pelco software is installed, typically this is:

64-bit systems: C:\Program Files (x86)\Pelco\PelcoExtractionPlugin

32-bit systems: C:\Program Files\Pelco\PelcoExtractionPlugin

To install the Pelco VideoXpert Event Integration plugin:

1. Launch `PelcoLene1Extraction.exe`.
2. Accept the terms and conditions to start the installation process.
3. Once completed, the Pelco VideoXpert Event Integration Configuration Window displays. Update the following fields:
 - Pelco VideoXpert server IP address with port number
 - Pelco VideoXpert server Administrator user name and password
 - Current System Password
 - If the plugin is installed on a remote machine user will need to provide OnGuard login credentials too
 - If Auto Acknowledgement box is checked, those extracted events will not show up on OnGuard Alarm Monitoring Screen since they are already acknowledged automatically.

PelcoEventIntegrationPlugin Configuration

Please enter details for Plugin Configuration

Pelco VMS IP *

Pelco VMS Username *

Pelco VMS Password *

Windows Login Password *

Auto Acknowledgement *

OnGuard Server Machine Name *

OnGuard Domain\Username *

OnGuard Server Password *

InstallShield

[* fields are mandatory]

< Back Next > Cancel

Viewing the Pelco VideoXpert Integration Data Plugin Log

Pelco VideoXpert Event Integration Data Plugin maintains a log that reports when the extraction plugin starts up, receives events from the OnGuard server.

To get the current status of the Pelco VideoXpert Event Integration Data Plugin, locate the log file of the Pelco VideoXpert Event Integration Data Plugin, named `PelcoEventPlugin.log`. The log file is located in the directory where the plugin is installed.

64-bit systems: `C:\Program Files(x86)\Pelco\PelcoVmsOnGuardEventPlugin\Logs`

32-bit systems: `C:\Program Files\Pelco\PelcoVmsOnGuardEventPlugin\Logs`

The Pelco Extraction Data Plugin log file shows the following details:

- PelcoLenelExtractionPluginService Service Started (when the Data Plugin service starts up)
- Lenel Device and Event- Filtering Mode On
- PelcoInjection Authentication Success
- Lenel OnGuard Authentication successful. Data Plugin Extraction Ready to receive Lenel Events

The following log files display information about the service itself as well as events received.

```
Extraction - Notepad
File Edit Format View Help
07/24/14 00:28:13.252 [ 4] - PelcoEventIntegrationService Service started
07/24/14 00:28:13.254 [ 4] - Lenel Device and Event- Filtering Mode On.
07/24/14 00:28:14.533 [ 4] - PelcoInjection Authentication Success
07/24/14 00:28:14.533 [ 4] - Lenel Authentication process..
07/24/14 00:28:15.021 [ 4] - Lenel onGuard Authentication successfull.. Plugin Extraction Ready to receive Lenel Events
```

```
Injection - Notepad
File Edit Format View Help
07/24/14 00:28:13.429 [ 4] - Connecting to Pelco VMS at IP: 192.168.2.188
07/24/14 00:28:14.533 [ 4] - Connected to Pelco VMS at IP: 192.168.2.188
```


OnGuard – Pelco VideoXpert Event Integration Configuration Tool

What's in This Chapter?

- [Filtering Devices and Events](#)
- [Exporting Filtered Data to Disk](#)
- [Creating Master Situations Data](#)

The Pelco VideoXpert Event Integration Configuration tool is used to filter which alarms coming from the physical readers are actually handled by the OnGuard Server. The OnGuard server receives all events coming from all Lenel devices (readers, alarm inputs and reader inputs) connected to the server via Access panels. With the Pelco Event Integration Configuration tool, you can specify which types of events you want to pass on to Pelco VideoXpert. You can also specify which devices you want to receive events from. This allows you to reduce the number of events to a more manageable amount.

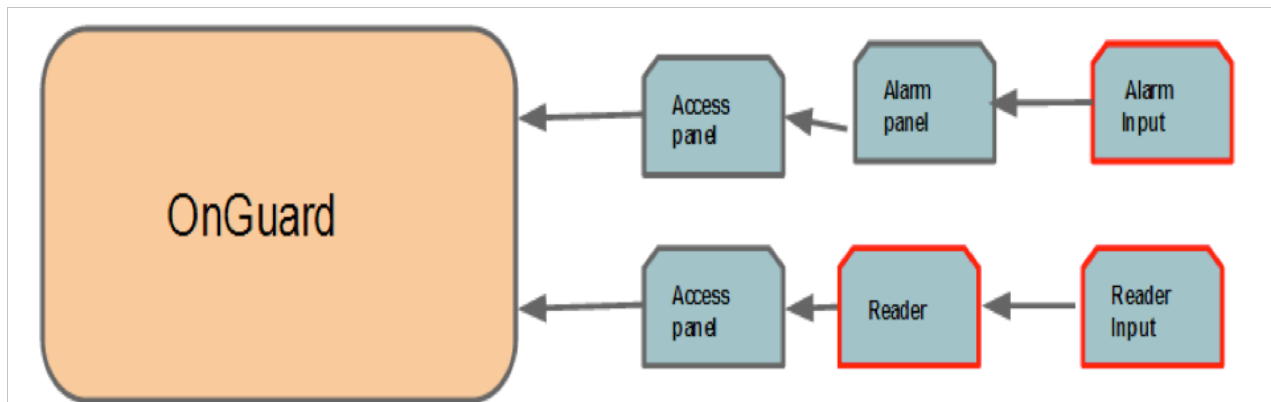
The screenshot shows a window titled "PelcoVMS-OnGuardConfigurationTool" with three tabs: "Configuration", "Filtering", and "Export Situations Master". The "Configuration" tab is active, displaying three sections:

- Plugin Configuration:**
 - Pelco VMS IP :
 - Pelco VMS Username :
 - Pelco VMS Password :
 - Current System Password :
- OnGuard Server Authentication:**
 - OnGuard Server Machine Name :
 - OnGuard Server User Name :
 - OnGuard Server Password :
- Plugin Log Configuration:**
 - Rolling File Size : MB (Range: 1 - 25)
 - Maximum No of Files : Range: 1 - 99

At the bottom of the window are two buttons: "Apply" and "Close".

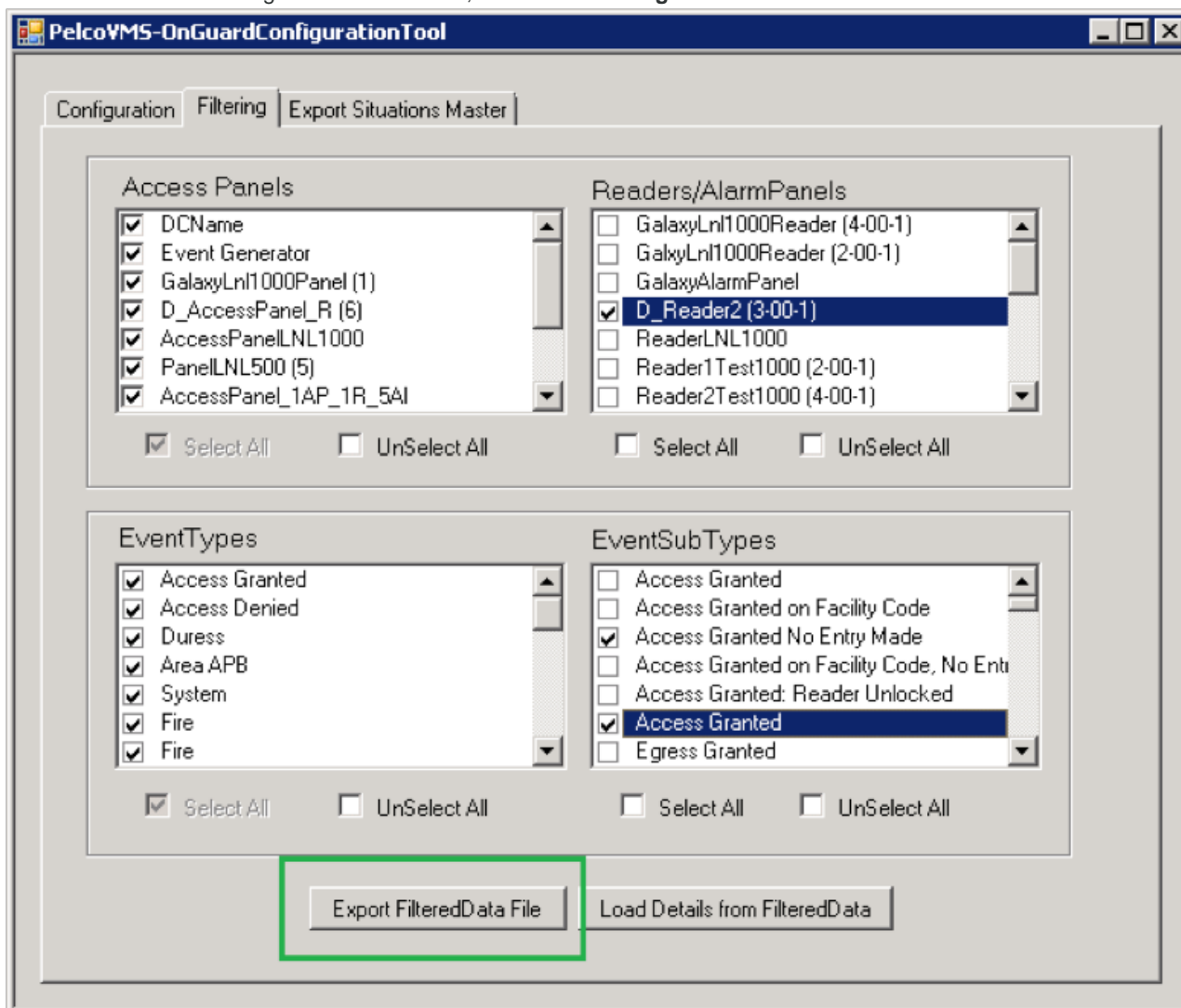
Filtering Devices and Events

Use this Pelco Event Integration configuration tool to specify which events should be passed on to Pelco VideoXpert. The following picture depicts the Lenel alarm devices. Readers, which handle events from card swipes, are connected to doors and to an Access Panel. Alarm Panels, which handle events from alarm input, are also connected to a Lenel Access Panel.



To filter for specific readers and event types:

1. From the PelcoLenelConfiguration tool window, select the **Filtering** tab



2. Under **Access Panels**, select the check box next to the desired access panel.

The list of Readers/Alarm Panels on the right is updated to display the readers connected to the selected access panel.

3. Under **Readers/Alarm Panels**, select the check boxes next to the desired readers and alarm panels.
4. Under **Event Types**, select the check box next to the desired Event Type.

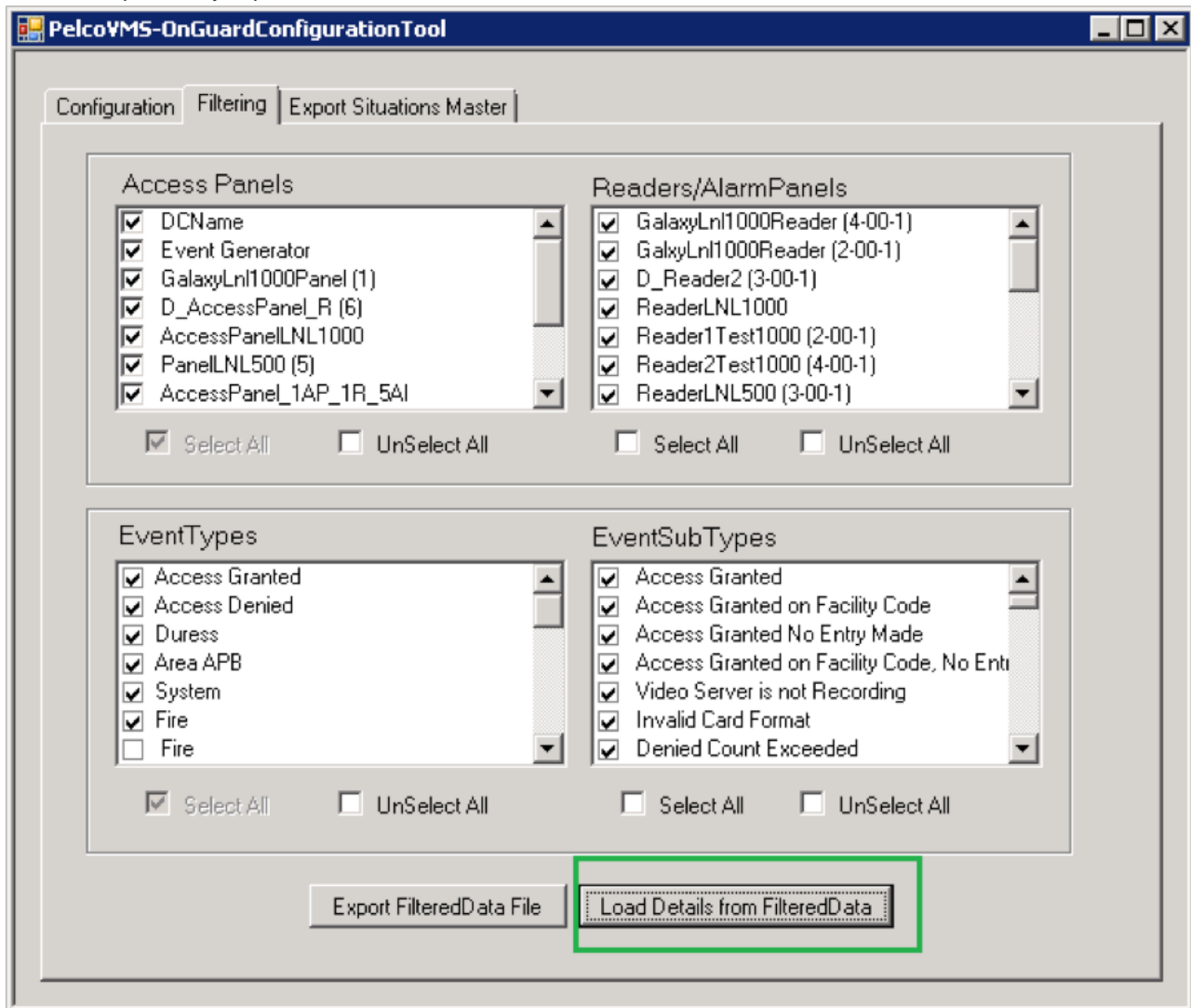
The list of Event Subtypes on the right is updated to display the subtypes associated with the selected event type.

5. Under **EventSub Types**, select the desired event subtypes.

NOTE: You can also unselect check boxes to exclude a filter.

Select **Export FilteredData File** to save these filter settings to disk. Refer to the next section, "Exporting Filtered Data to Disk", for details.

- To load the previously exported data, click **Load Details from Filtered Data**.



Exporting Filtered Data to Disk

When you export the filtered data from Pelco Event Integration Configuration tool, the export creates two files on disk, DeviceFilteredData and EventFilteredData.

DeviceFilteredData contains the following information:

- AccessPanel ID
- Reader/AlarmPanel ID
- ReaderInput / AlarmInput ID
- Reader / AlarmPanel Name
- ReaderInput/AlarmInput Name

EventFilteredData contains the following information:

- Event Type ID
- Event Type Name
- Event Subtype ID
- Event Subtype Name

Creating Master Situations Data

Use the Pelco Event Integration Data Plugin Configuration tool to export the master situations data to a file. The Pelco Event Integration Data Plugin refers to this file to determine which events Pelco VideoXpert should handle during execution.

NOTE: This is the file that the Situations Loader uses to seed Pelco VideoXpert with desired situations. For details, see the [Situations Loader](#).

To load the master situations data:

1. From the PelcoLenelConfiguration tool, select the **Export Situations Master** tab.
2. Select **Export Filtering Data**.
3. Select **Export**.

NOTE: If nothing is selected in the **Filtering** tab, an error occurs.

When export is completed, a new file, called `Mastersituationdata`, is created which contains information from both `DeviceFilteredData` and `EventFilteredData`.

Situations Loader

What's in This Chapter?

- [Loading the Master Situations Data](#)

Before you begin to use the Pelco Event Integration Data Plugin, you load master data using the Situations Loader. The Situations Loader seeds Pelco VideoXpert with data when the Data Plugin is first installed to improve ongoing system performance. The Pelco Situations Loader informs Pelco VideoXpert what types of events from what type of devices to expect when the Data Plugin is running. These are called situations. The loader defines all the possible situations that the OnGuard server can trigger for Pelco VideoXpert. Then, once the process begins, Pelco VideoXpert matches the current event it receives from its known list of possible situations. This seed data that is initially fed to Pelco VideoXpert is referred to as “master situation data.”

The OnGuard server recognizes several types of events and for each event type, several event subtypes. For example, the event type, “Access Granted,” has the subtypes, “Access Granted on Facility Code,” “Access Granted No Entry Made,” “Access Granted: Reader Unlocked,” and more.

Pelco VideoXpert Event Integration can also be configured to handle some but not all possible situations. That is, the master data can be filtered to accept a subset of event types and subtypes. This subset can be reconfigured anytime to handle a different set of situations. You use the Pelco Event Integration Configuration tool to filter the situations. For details, see the [Pelco Event Integration Configuration Tool](#).

The Situations Loader requires that the Pelco VideoXpert server is running.

Situation Loader gets installed along with Data Plugin Services. No separate installation is required for Situation Loader.

Loading the Master Situations Data

The first time you run the Situations Loader, load the master situations data:

1. Click Load Master Data
2. Click Select and Load Master Data

NOTE: You will get an error if the Pelco VideoXpert server is not running.

Frequently Asked Questions

What's in This Chapter?

- [What components are used to integrate OnGuard alarms with Pelco VideoXpert](#)
- [What is the process from swiping a card to managing the event on Pelco VideoXpert?](#)
- [What is the Pelco VideoXpert Event Integration Data Plugin Configuration tool?](#)
- [What is filtered data?](#)
- [What is an event in Lenel?](#)
- [What is an event in Pelco VideoXpert?](#)
- [What is device filtered data?](#)
- [What is event filtered data?](#)
- [What is a situation?](#)
- [What is the format of exported device and event filtered data?](#)
- [What is the format of the master situations file?](#)
- [What is the Situations Loader?](#)
- [What happens when the administrator selects Export filtering data from the Configuration tool?](#)
- [How is master situations data created?](#)
- [What happens when the administrator selects Load Master Data from the Situations Loader?](#)
- [When does the administrator use the Situations Loader?](#)
- [From the Pelco Event Integration Configuration tool, Filtering tab, when the administrator selects a panel from the Access Panel list, will its corresponding Reader automatically selected?](#)
- [What does "Situation failed to Add" mean?](#)
- [During the Situations Loader process, what causes a situation to fail?](#)
- [What happens when the network fails during normal Data Plugin execution?](#)
- [Can failed events be recovered?](#)
- [What is the difference in running the Data Plugin on the OnGuard Server vs. a Remote Machine?](#)

What components are used to integrate OnGuard alarms with Pelco VideoXpert

- Lenel physical alarm devices, the Access Panel, Alarm Panel associated with the Access Panel, and Readers associated with the Access Panel, Alarm Inputs and Reader Inputs
- OnGuard Server to control server settings
- Pelco Event Extractor Data Plugin
- Pelco Event Injector

A black bar is present above and below the video playback image.

What is the process from swiping a card to managing the event on Pelco VideoXpert?

From the door alert, an event occurs and sent to the OnGuard server. From the OnGuard server, the event is sent to Data Plugin Extractor through "WMI" (Windows Management Instrumentation). The extractor sends an acknowledgement to the OnGuard Server that an event was received. The event is pushed to the Injector. The Injector creates a Pelco SDK System object from the event, and that is sent on to Pelco VideoXpert, with the destination port, VideoXpertSERVER.

What is the Pelco VideoXpert Event Integration Data Plugin Configuration tool?

This configuration tool is used to filter out unwanted events that were received from door alerts. It is used to identify which access panels, access panels, readers, event types, and event subtypes that you want Pelco VideoXpert to handle. Refer to [Filtering Devices and Events](#).

What is filtered data?

When you use the Pelco Event Integration Configuration tool to select which events from which devices you want to receive from the physical devices, this is called *filtered data*.

What is an event in Lenel?

An event is a triggered action from the OnGuard server, extracted programmatically using the WMI "SELECT * FROM LnL_Security". Compare to event type.

What is an event in Pelco VideoXpert?

An event that flows to Pelco VideoXpert contains the following required information:

| | |
|---------------------------|---|
| GeneratorDevice_ID | The name of the machine on which the OnGuard is running. |
| Situations type | EventType, Event_ID, Event Subtype, Description. |
| Source Device_ID | AccessPanel ID, Reader / AlarmPanel ID, ReaderInput / AlarmInput ID, Reader / AlarmPanel Name, ReaderInput/AlarmInput Name. This is the actual location of the physical reader. That is, the reader is connected to a panel, which is connected to an Access panel. |
| Time | Date and time when the Event was generated. |

What is device filtered data?

You use the Configuration tool to specify from which devices, Access Panels, Alarm Panels, and Readers you want to receive events. This is called *device filtered data*. Refer to [Filtering Devices and Events](#).

What is event filtered data?

You use the Configuration tool to specify from which devices, Access Panels, Alarm Panels, and Readers the event types and subtypes you want to receive. This is called *event filtered data*. Refer to [Filtering Devices and Events](#).

What is a situation?

A situation is the combination of device and event filtered data. That is, each event contains information about the event (such as "Access Granted"), plus the identifier of the device from which the event occurred, for example, 1_65_1_ LNL1000AlarmPanel_ LNL1000AlarmInput, 0_0_ Access Granted. A situation is not an actual event coming from the server, but describes the type of event it can be.

What is the format of exported device and event filtered data?

| | |
|-------------------------------------|---|
| DeviceFiltered_Data | AccessPanelId_ReaderId_ReaderInputId_ReaderName_ReaderInputName |
| | OR |
| | AccessPanelId_AlarmPanelId_AlarmInputId_AlarmPanelName_AlarmInputName |
| Examples of Source_Device_Id | 2_1_1_Reader1_ReaderInput1 |
| | 2_2_2_Reader2_ReaderInput2 |

| | |
|------------------------------------|--|
| EventFiltered_Type | EventTypeId_EventTypeName_EventSubTypeId_EventSubTypeName |
| Examples of Source_Event_Id | 0_Access Granted_0_Access Granted 2_3_1_AlarmPanel1_AlarmInput1 |

What is the format of the master situations file?

The Master Situation File contains, for example:

```
1_65_1_LNL1000AlarmPanel_LNL1000AlarmInput, 0_0_Access Granted
```

The format is:

```
AccessPanelID_Reader/AlarmPanel ID_AlarmInput/ReaderInputID_AlarmPanel/Reader Name_AlarmInupt/  
ReaderInputName , EventType ID_EventSubType ID_EventSubTypeName
```

The fields for this example are:

| | |
|--------------------------|-------------------------------------|
| 1 | Access Panel Id |
| 65 | Reader or AlarmPanel |
| 1 | AlarmInput ID or ReaderInput ID |
| LNL1000AlarmPanel | Alarm Panel Name or Reader Name |
| LNL1000AlarmInput | AlarmInput Name or ReaderInput Name |
| 0 | EventType ID |
| 0 | EventSubType ID |
| Access Granted | EventSubTypeName |

What is the Situations Loader?

The Situations Loader is used to load master situations data when the Pelco Event Integration Data Plugin is started for the first time. By loading the master situations data before the Data Plugin is used, it takes care of the initial overhead so that the Data Plugin works at optimum performance.

What happens when the administrator selects Export filtering data from the Configuration tool?

From Pelco Event Integration Data Plugin Configuration tool, when the user clicks **Export Filtered Data File**, all the filtered data selected is stored in files on disk. If successful, two files are created, `DeviceFilteredData` and `EventFilteredData`. Refer to [Exporting Filtered Data to Disk](#). These files are used to create the master situations data file.

How is master situations data created?

You create the masters situations data from the Pelco Event Integration Configuration tool. First you defined filtered device and event type data, and export that filtered data to disk. Then you create the master situations data which merges the information from device and event filtered files into a single `Masteresituationsdata` file. Refer to [Creating Master Situation Data](#).

What happens when the administrator selects Load Master Data from the Situations Loader?

From the Situations Loader utility, when the user clicks **Select and Load Master Data**, all the situations data is loaded into the OnGuard Server. This master situations data was created from the Configuration tool. [Creating Master Situation Data](#).

When does the administrator use the Situations Loader?

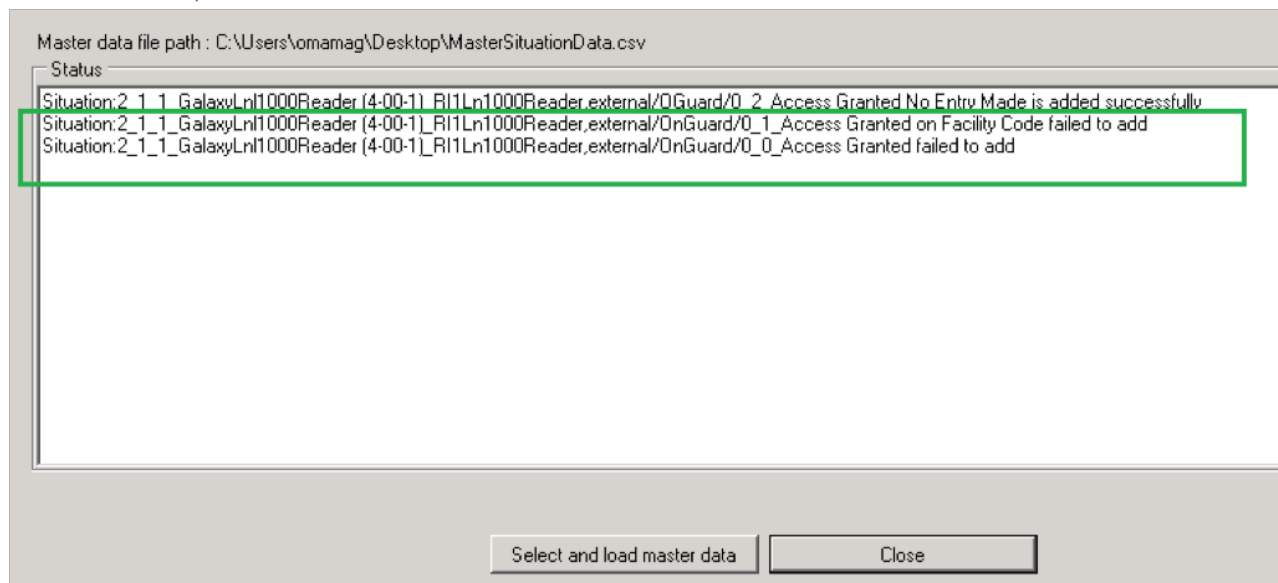
The Situations Loader utility is used when the Pelco Event Integration Data Plugin is set up before the service begins to process events. This is a one-time use tool just to seed the OnGuard Server with situations data. This is also used when new devices / event types are added/deleted.

From the Pelco Event Integration Configuration tool, Filtering tab, when the administrator selects a panel from the Access Panel list, will its corresponding Reader automatically selected?

No, when the administrator chooses an Access Panel, then the corresponding reader is not selected automatically. The administrator must select the reader as well.

What does “Situation failed to Add” mean?

During the process of loading master data, a situation failed to add error may occur if the situation already exists or if the network failed. To recover, restart the loader.



During the Situations Loader process, what causes a situation to fail?

A failed situation can occur when Pelco VideoXpert server stops running during the load process or if there is a network failure. You may see an error, “Situation x failed to Add.” To recover, restart the loader to resume loading situations.

What happens when the network fails during normal Data Plugin execution?

When the Pelco Lenel Extraction Data Plugin is running, an event might not be processed if the network fails. If this occurs, the event is stored in a text file. The failed events will be stored in the location `C:\Program Files (x86)\Pelco\PelcoVmsOnGuardEventPlugin\FailedEvents` with the date and time when the failure occurred.

Can failed events be recovered?

The Event Loader reads the text file that contains information about the failed event and updates the Pelco VideoXpert server when the network is restored.

What is the difference in running the Data Plugin on the OnGuard Server vs. a Remote Machine?

There is no difference in functionality. Only difference is in installation process. Following components are required when the Data Plugin is installed on a remote machine:

- .Net 4.0 setup – 50 MB
- VC++ runtime libraries – 5 MB

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www.pelco.com