VideoXpert Integration – Siemens SiPass

Installation Manual

INSTALLATION MANUAL

V1.0 | ——————————————————24-Sep-20

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1. Introduction

This document is the release note for VideoXpert Integration with Siemens SiPass. The objective of this document is to provide information about the released version of integration component, its features, installation details and known issues.

2. Abbreviations

#	Abbreviation	Definition
1	VMS	Video Management System
2	VX	VideoXpert
3	VxSDK	VideoXpert Software Development Kit
4	ACS	Access control System

Table 1: Abbreviations

3. Version Information

3.1. Integration Component Version

#	Component Name	Version	Description
1	VideoXpertSiPass_Setup.msi	1.0.6	Siemens SiPass Access Control Integration driver Installer

Table 2: Integration Component Version

3.2. VideoXpert Version

#	Component Name	Version	Remarks
1	VideoXpert Core	3.9.0.191	Nil
2	VideoXpert Professional	3.9.0.191	Nil
3	VideoXpert Media Gateway	3.9.0.191	Nil
4	VideoXpert Storage	3.9.0.191	Nil
5	VxSDK	3.9.0.191	Nil
6	Access Control System Viewer	3.7.1.0	Nil

Table 3: VideoXpert Version

3.3. Siemens SiPass Version

#	Component Name	Version	Remarks
1	Siemens SiPass	2.76 SP2	Nil

Table 4: Siemens SiPass Version

4. System Overview

The proposed solution is an integration driver for Siemens SiPass security management system. This integration allows Siemens SiPass to connect with VideoXpert. The integrated system allows end users to use VideoXpert to access information from Siemens SiPass. VideoXpert users may use Admin Portal or OpsCenter Client to view or acknowledge access control events from Siemens SiPass.

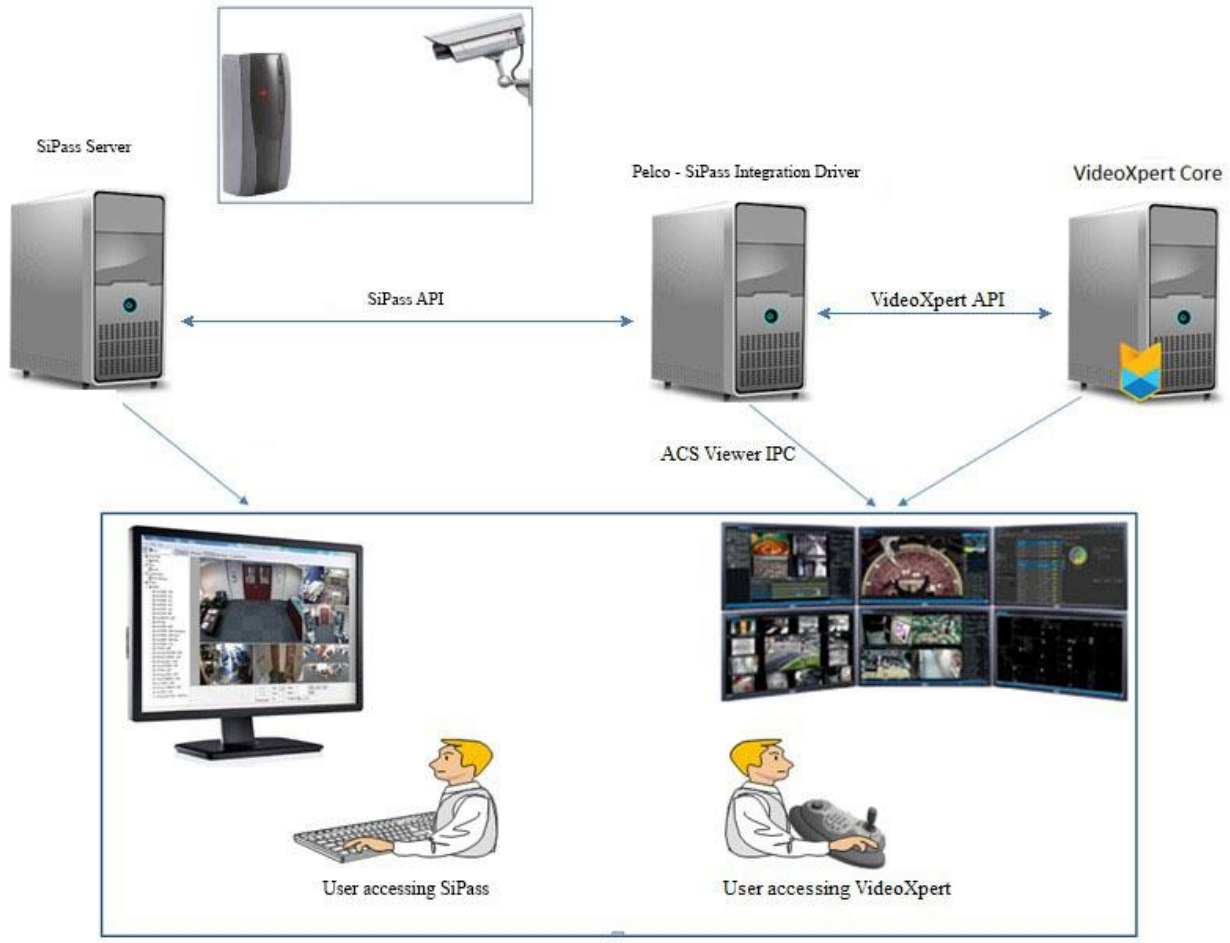


Figure 1: System Overview

The integration driver shall be using VxSDK for all its interfacing needs with VideoXpert. The integration driver also supports Pelco Access Control System Viewer to allow user information retrieval and control functionality of Siemens SiPass devices in VideoXpert. This includes viewing Siemens SiPass access control points and user lists in VideoXpert and sending control commands to the access control points.

5. Platform Specification

#	Parameter	Specification
1	Operating System	Windows 10 – 64Bit
2	Processor	Intel i7
3	RAM	8GB or above
4	Hard Disk	500GB

Table 5: Platform Specification

6. Prerequisites

The VideoXpert Siemens SiPass installs as a standalone Windows service which integrates to the Access Control System plugin and the following are the prerequisites for this integration driver.

1. VideoXpert v3.9

   VideoXpert software should be installed and licensed for the proper functioning of the integration.

2. Access Control System Viewer Plugin

Some features of this integration require the Access Control System Viewer plugin to be installed on the VxOpsCenter console machines.

3. Siemens SiPass 2.76 SP2

4. .NET Framework 4.8

7. Installation Steps

7.1. Step 1 – Start installation

Double click on the VideoXpertSiPass_Setup -x.x.x.x.msi file to start the installation. Installation wizard starts with the following window.

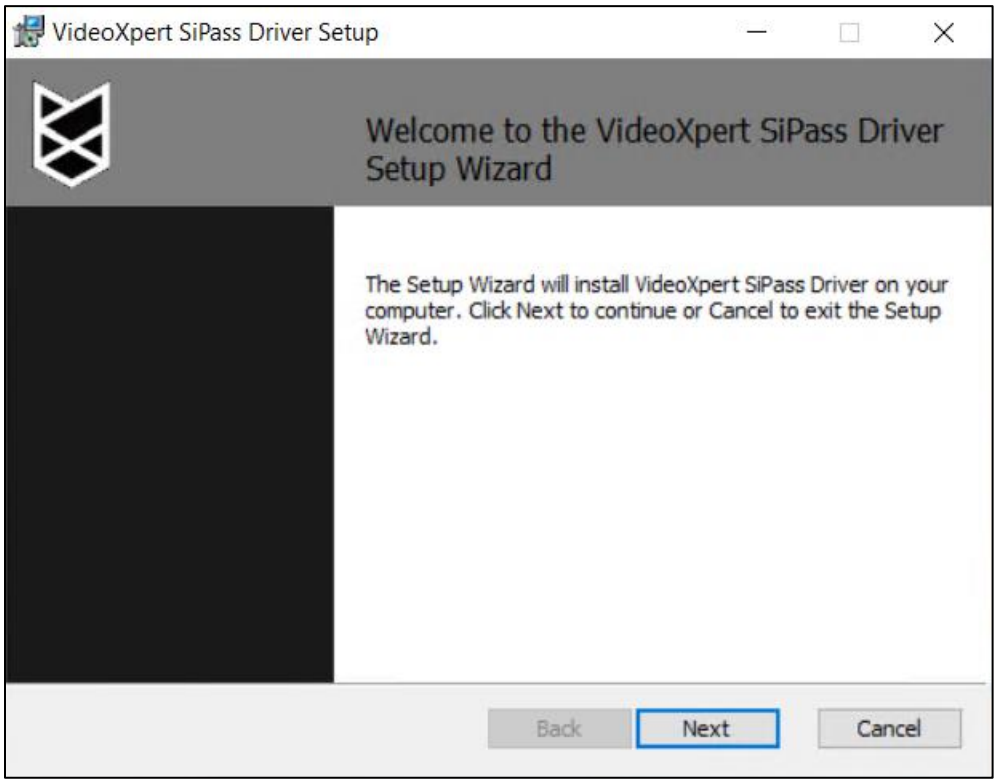


Figure 2: Installation home screen

Click **Next** button to start installation.

7.2. Step 2 – License Agreement

Accept the agreement and click **Next** to continue.

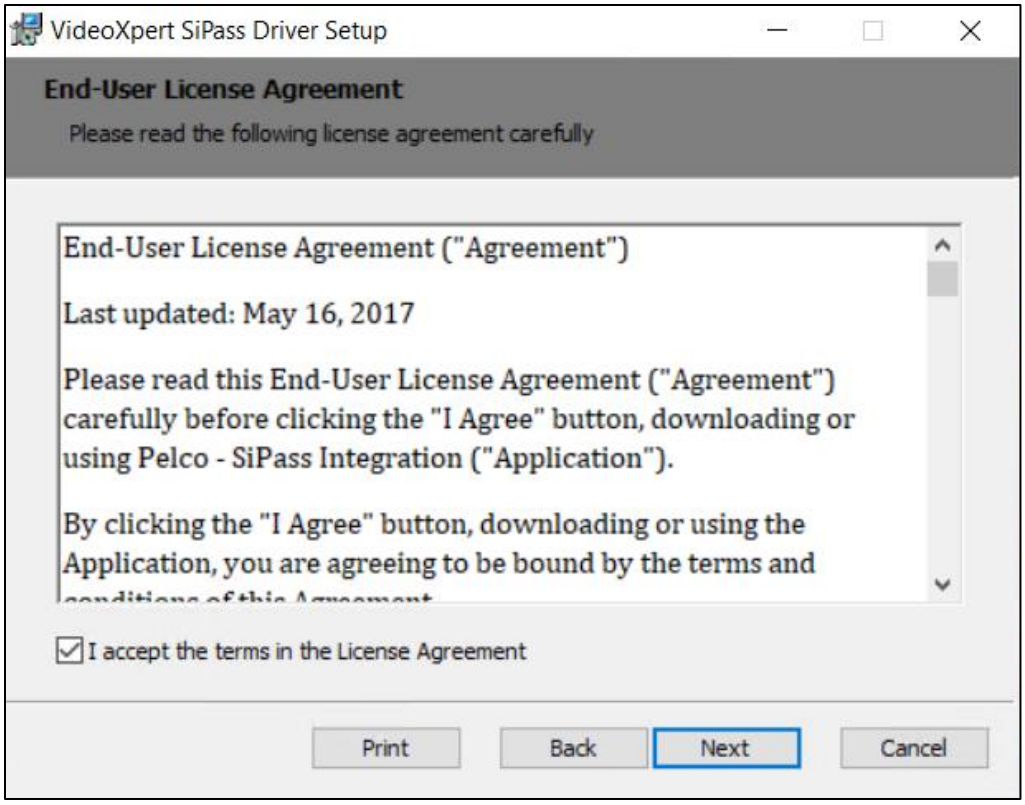


Figure 3: License agreement screen

7.2. Step 3 – Install Location

The install location is shown and can be changed from the default location if required.

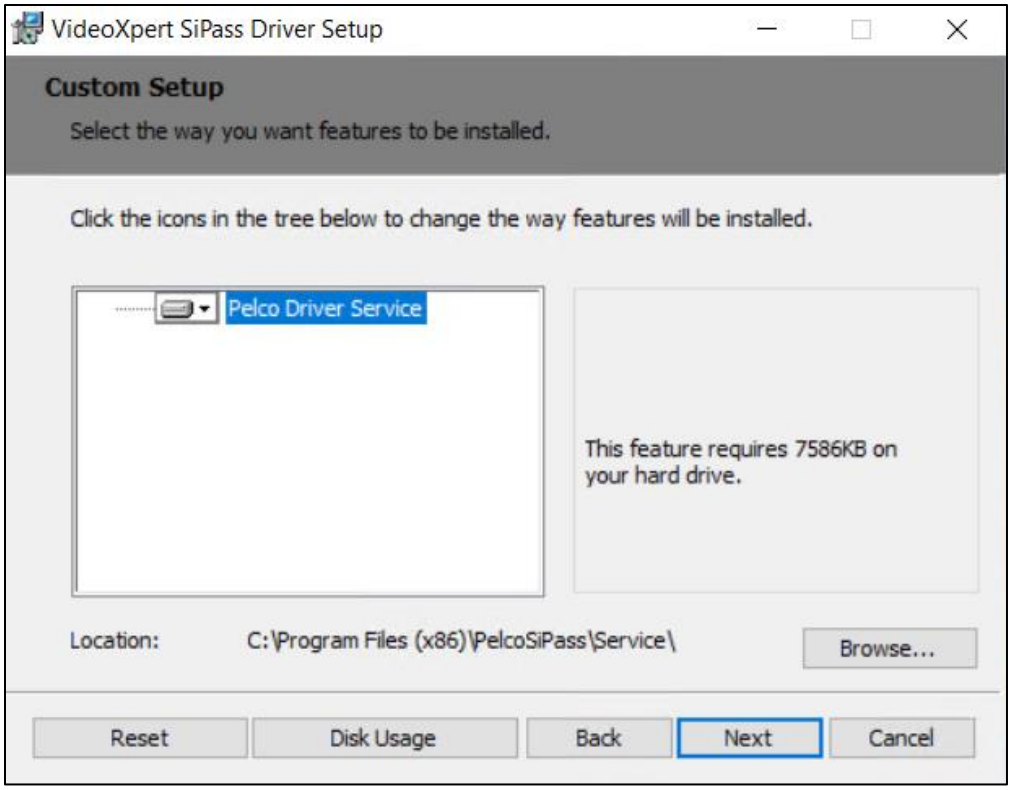


Figure 4: Install location screen

Click on **Next** to and then **Install** to start the install process.

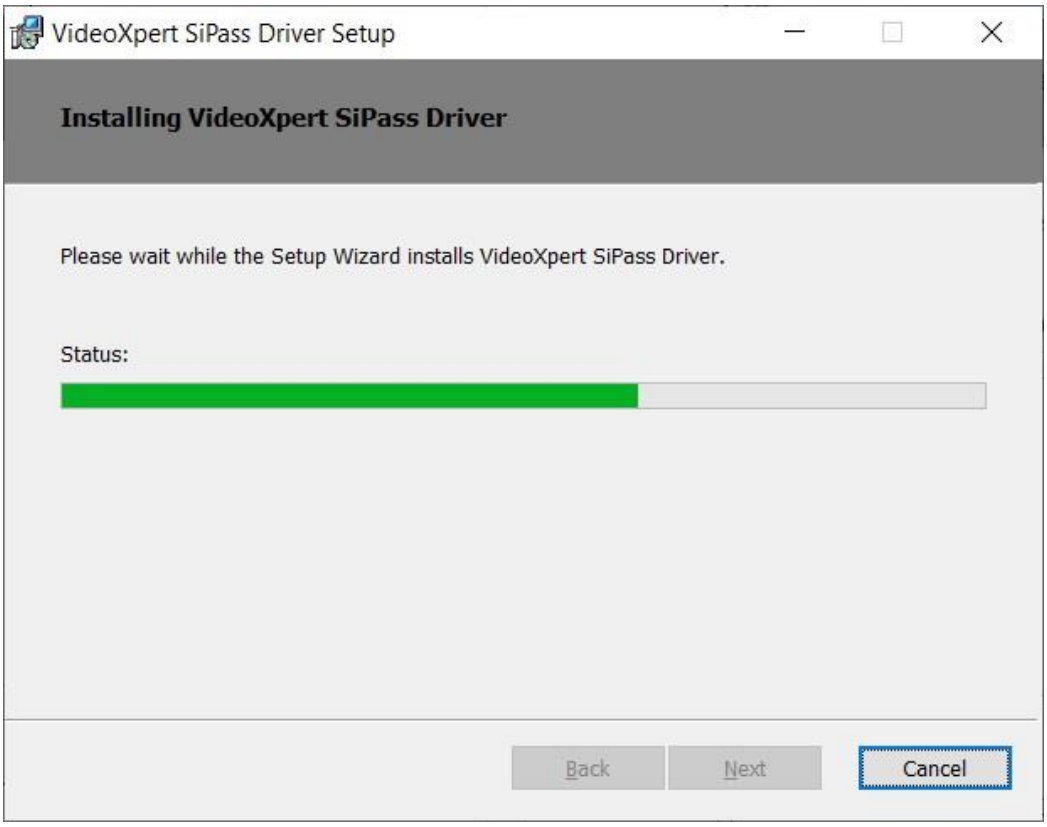


Figure 5: Install process screen

7.3. Step 4 – Driver Configuration

The SiPass Driver Service Configuration Application opens.

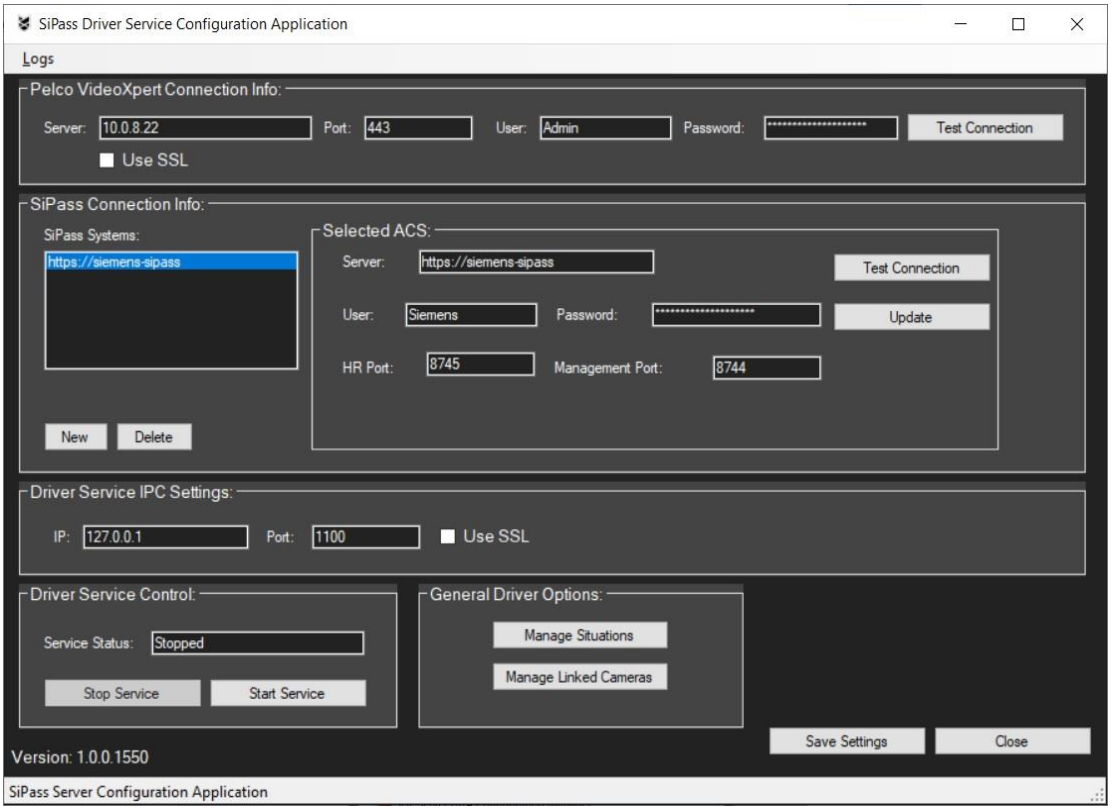


Figure 6: Driver Configuration Application

7.3.1. Pelco VideoXpert Connection

Enter the following fields in the **Pelco VideoXpert Connection Info** section:

- **Server:** Enter the hostname or IP address of the VideoXpert server
- **Port:** Enter the port VideoXpert VX System is configured with.
- **User**: Enter the username for a VideoXpert user with access to the system.
- **Password**: Enter the password for a VideoXpert user with access to the system
- To test the connection information is correct click on the **Test Connection** button. If all the fields are correct a **Successful connection** message will appear:

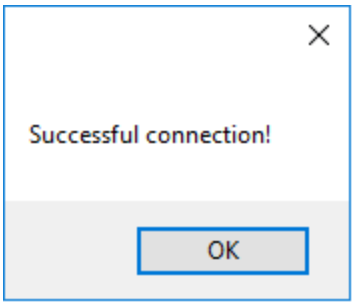


Figure 7: VideoXpert connection test success

- If connection fails, check the configuration tool logs from the application **Logs** menu and check all fields are entered correctly.
- Click on **Save Settings**.

7.3.2.3. Siemens SiPass Connection

Enter the following fields in the **Siemens SiPass Connection Info** section:

- **Server:** Enter the hostname or IP address of the Siemens SiPass server
- **HR Port:** Enter the port Siemens SiPass HR API is configured with.
- **Management Port:** Enter the port Siemens SiPass Management API is configured with.
- **User**: Enter the username for a Siemens SiPass user with access to the system.
- **Password**: Enter the password for a Siemens SiPass user with access to the system
- To test the connection information is correct click on the **Test Connection** button. If all the fields are correct a **Successful connection** message will appear:

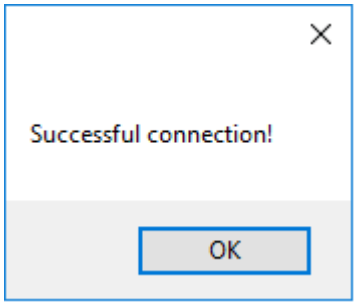


Figure 8: Siemens SiPass connection test success

- If connection fails, check the configuration tool logs from the application **Logs** menu and check all fields are entered correctly.

- Click on **Add** to add the new configuration to the list of SiPass systems.
- To edit a field:
    - Select the system in **SiPass Systems** list
    - Edit the fields
    - Click on **Update** to update the entry to the list. (Note you must click on update before clicking Save Settings)
- Click on **Save Settings**.

7.3.3. Driver Service IPC Settings

Enter the following fields in the **Driver Service IPC Settings** section:

- **IP:** Enter the IP address of the PC where this driver is installed. (If multiple network interfaces use the one which will be used to connect to from the VideoXpert Access Control Viewer.
- **Port**: Enter the port the IPC server will be listening on.

  Note: The IP and port settings above will be used in the VideoXpert clients when connecting to this driver interface using the Access Control System Viewer. See **IP Address** and **Port** fields below:

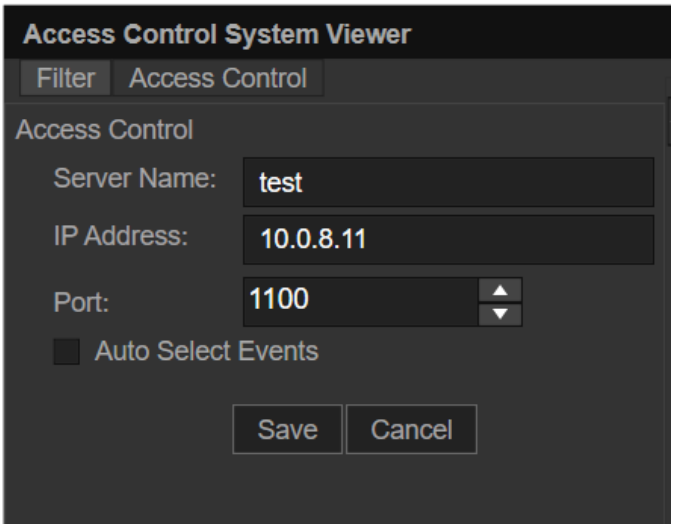


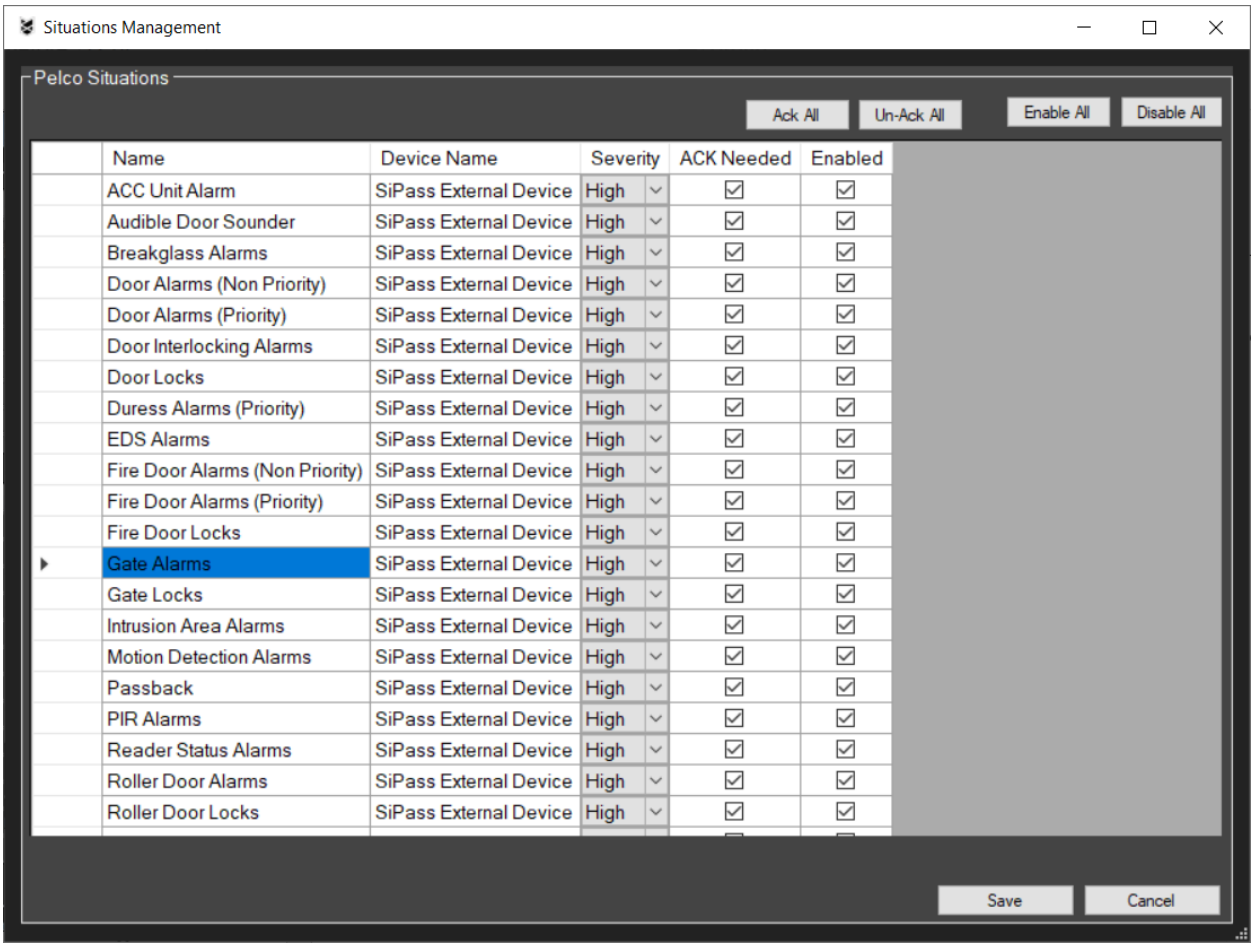
Figure 9: Access Control System Viewer IPC Settings

- **Certificate**: If SSL communication is required between IPC client/server enter the path to the SSL cert personnel exchange format file (.pfx file).

7.3.4. Manage Situations

- Click on the **Manage Situations** button under **General Driver Options** to configure the Siemens SiPass situations list that will be imported into Pelco.

- The manage situations window will open as follows:



Name	Device Name	Severity	ACK Needed	Enabled
ACC Unit Alarm	SiPass External Device	High	☑	☑
Audible Door Sounder	SiPass External Device	High	☑	☑
Breakglass Alarms	SiPass External Device	High	☑	☑
Door Alarms (Non Priority)	SiPass External Device	High	☑	☑
Door Alarms (Priority)	SiPass External Device	High	☑	☑
Door Interlocking Alarms	SiPass External Device	High	☑	☑
Door Locks	SiPass External Device	High	☑	☑
Duress Alarms (Priority)	SiPass External Device	High	☑	☑
EDS Alarms	SiPass External Device	High	☑	☑
Fire Door Alarms (Non Priority)	SiPass External Device	High	☑	☑
Fire Door Alarms (Priority)	SiPass External Device	High	☑	☑
Fire Door Locks	SiPass External Device	High	☑	☑
Gate Alarms	SiPass External Device	High	☑	☑
Gate Locks	SiPass External Device	High	☑	☑
Intrusion Area Alarms	SiPass External Device	High	☑	☑
Motion Detection Alarms	SiPass External Device	High	☑	☑
Passback	SiPass External Device	High	☑	☑
PIR Alarms	SiPass External Device	High	☑	☑
Reader Status Alarms	SiPass External Device	High	☑	☑
Roller Door Alarms	SiPass External Device	High	☑	☑
Roller Door Locks	SiPass External Device	High	☑	☑

Figure 10: Situations management

- The configurable fields are:

  - Name – This must be edited before starting service for the first time as Situations are imported into VideoXpert they can only be edited via VxToolbox.

  - Severity – This must be edited before starting service for the first time as Situations are imported into VideoXpert they can only be edited via VxToolbox.

- ACK Needed
- Enabled – disabling will filter the event type at the driver and events will not be injected into VideoXpert.

- When complete click **Save**.

7.3.5. Manage Linked Cameras

This allows cameras to be associated with events in VideoXpert based on the Siemens SiPass (access control point) where the Siemens SiPass event occurred.

- Click on the **Manage Linked Cameras** button under **General Driver Options** to configure cameras for SiPass access control points.

- The **Pelco Camera / SiPass Access Control Point Management** window opens:

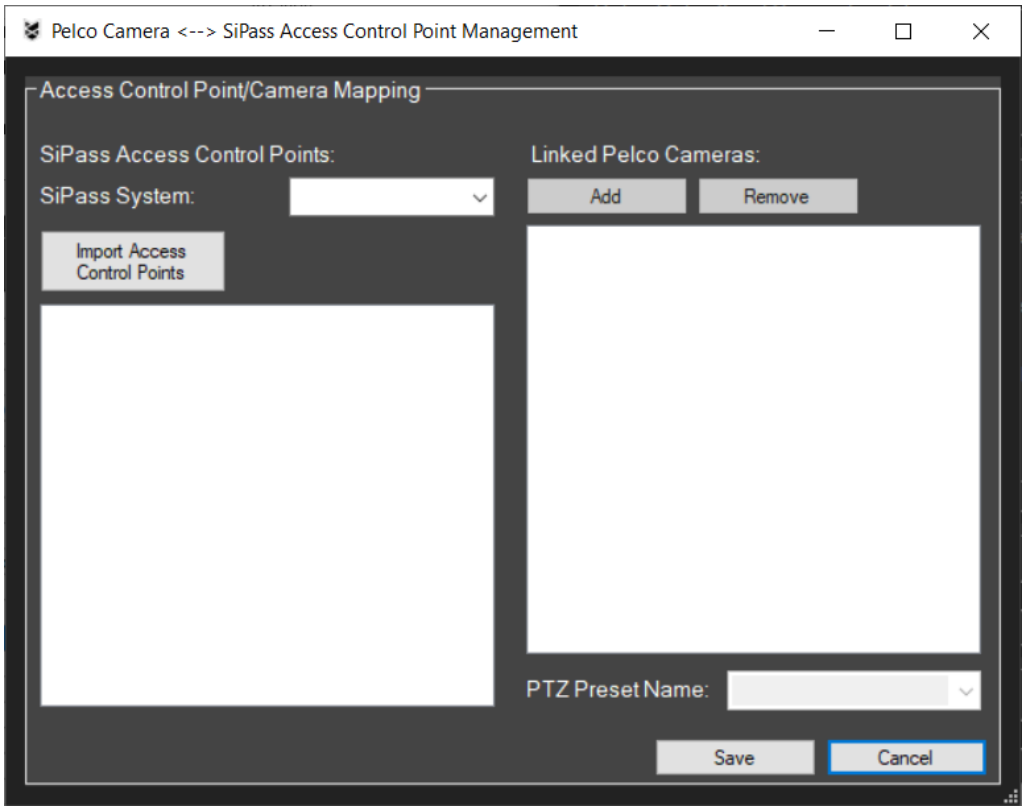


Figure 11: Pelco camera / SiPass Access Control Point association

- Select the SiPass system (Note: if this list is empty exit this window and click on **Save Settings** first)

- Click on **Import Access Control Points**. This will attempt to connect to the SiPass system configured in the previous sections and import the list of SiPass access control points into the list.

- Select an Access Control Point in the list

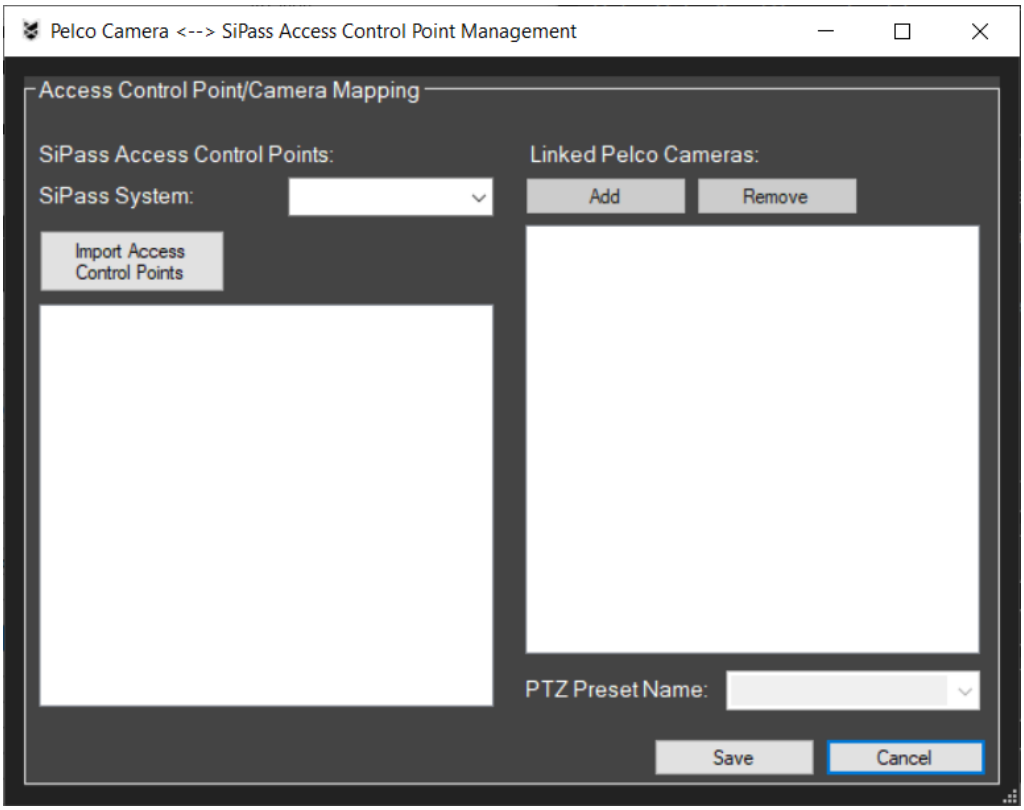


Figure 12: SiPass Access Control Point selection

- To associate a camera with the terminal click **Add**.

- A connection is made to VideoXpert and imports a list of video sources.

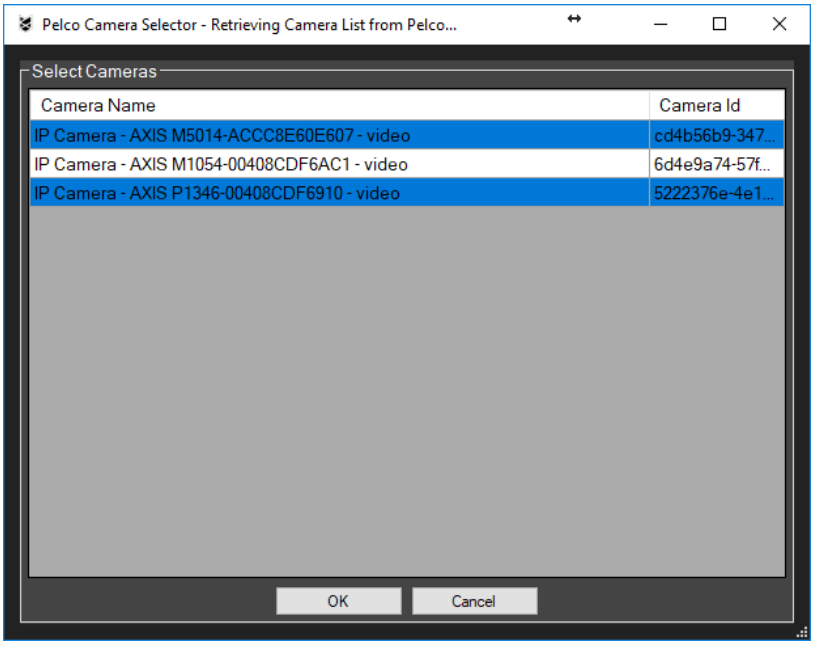


Figure 13: Pelco camera selection

- Select one or more of the video sources and click on **OK**.
- The cameras will be associated with the selected SiPass Terminal.
- To disassociate a video source from a Terminal, select the video source and click **Remove**.
- When mapping configuration is complete click **Save** to save and exit.
- Click on **Save Settings** to commit the changes.

7.3.6. Driver Service Control

The VideoXpert – SiPass Driver can be started/stopped from within the **Driver Service Control** section.

The service is running by default under SYSTEM account. The account must be switched to one allowed during configuration steps taken earlier (7.3.2). Search for Services in windows task bar.

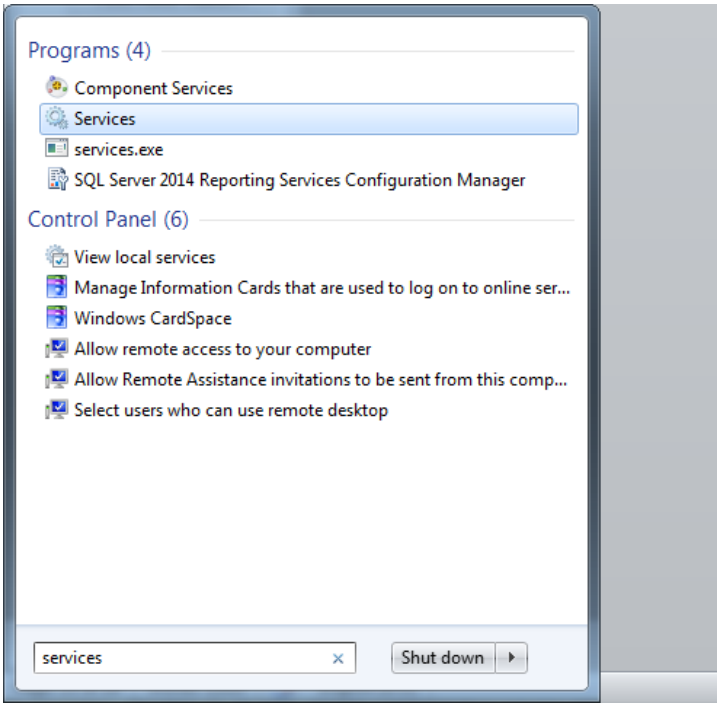


Figure 14: Services

Locate the **VideoXpert SiPass Integration Driver**

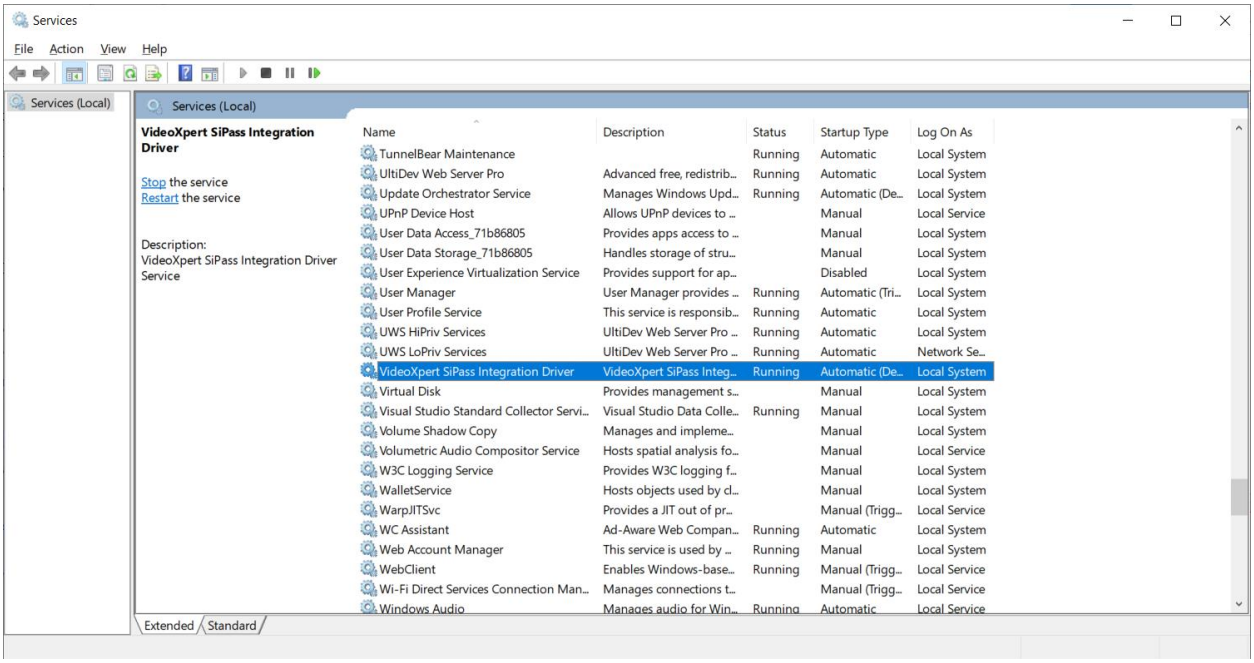


Figure 15: VideoXpert – SiPass Service

Right click → Properties → Log On tab → Select this account and fill your credentials

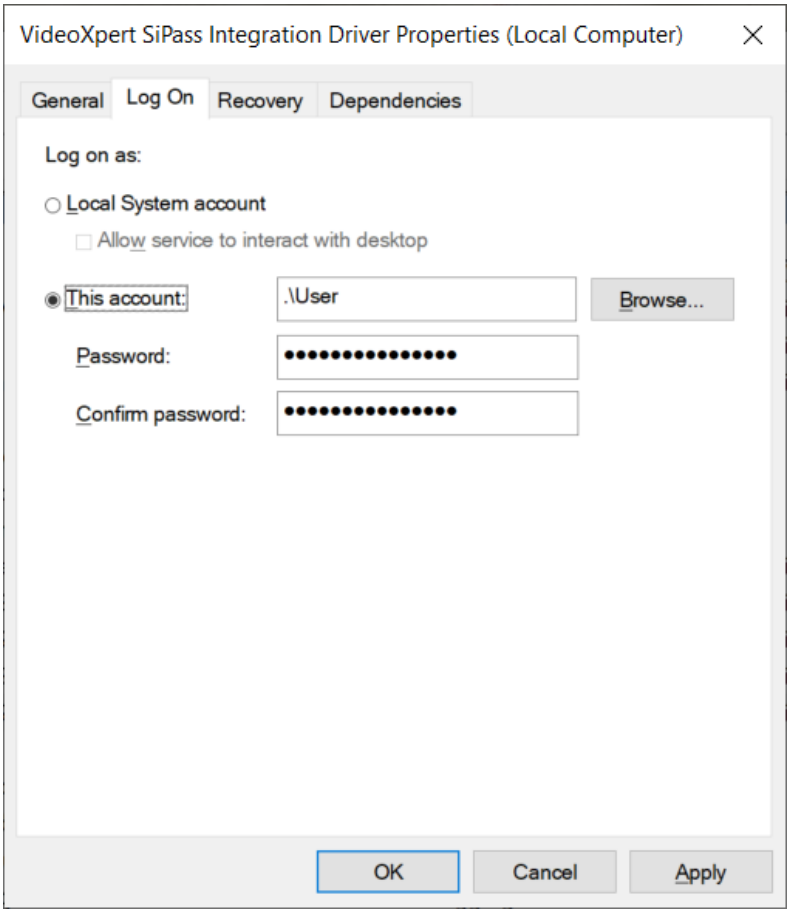


Figure 16: Service Account Configuration

Click ok and restart the service.

Important Notes:

- If any settings are changed the driver service must be restarted for the driver service to load the new settings.
- This configuration application can be found as a shortcut on the desktop, or in the start menu under **PelcoSiPass → Service → Pelco SiPass Server Configuration** and can be run from there to change settings after installation.

Click **Close** when all configuration is complete to close the configuration application and continue the install process.

7.4. Step 4 – Install Complete

Click **Finish** button to finish the installation.

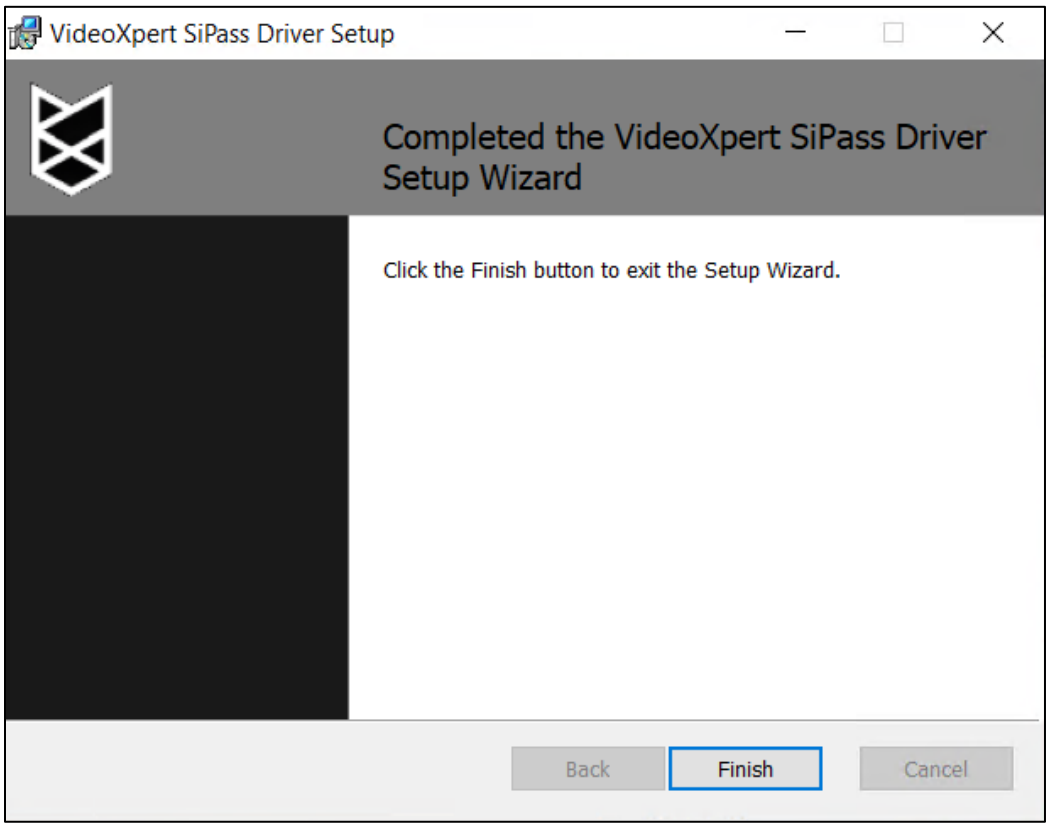


Figure 17: Install complete

8. System Configurations

The configuration application as described in the previous section can be found as a shortcut on the desktop, or in the start menu under **PelcoSiPass → Service → Pelco SiPass Server Configuration** and can be run from there to change settings after installation.

9. Uninstallation Steps

9.1. Step 1 – Start the Uninstallation

To uninstall, open windows Programs and Features and click on **Uninstall** for the **VideoXpert SiPass Driver** entry.

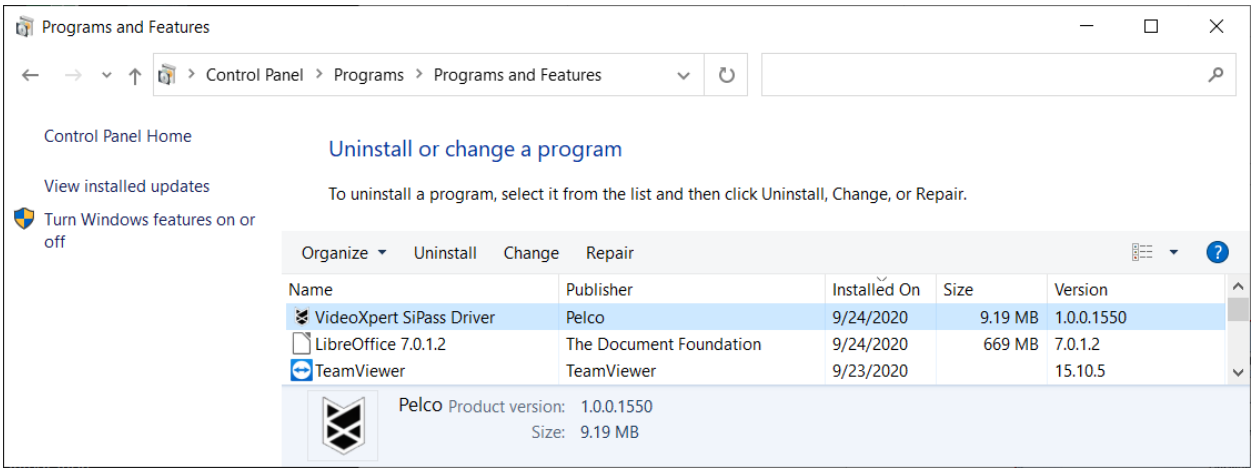


Figure 18: Programs and Features entry

The following window will be shown. Click the **Next** button to start uninstallation.

9.2. Step 2 – Uninstall Complete

The driver will be removed from the system.

10. User Guide

Refer to *VideoXpert Integration* – Siemens SiPass *[User Guide].docx*

11. References

#	Documents/Inputs	Description
1	Discussions	Technical and requirement analysis discussions between all internal and external stakeholders.
2	VideoXpert SDK	Documentation of VideoXpert SDK

12. Support

If the instructions provided fail to solve your problem, contact Pelco Product Support at 1-800-289-9100 (USA and Canada) or +1-559-292-1981 (international) for assistance.

13. Copyright Notice

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REVISION HISTORY

Version	Date	Description	Amended By	Approved By
1.0	24-Sep-20	Initial Draft	Kostas Papadopoulos	

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