



**VideoXpert™ AccessXpert Event Service
Installation and Operations Manual**



VideoXpert™

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Overview

This document provides information on installation and operation of AccessXpert VideoXpert™ Event Service and the accompanying Administration Tool.

The AccessXpert VideoXpert Event Service acts as an event bridge between the two systems. Events that occur on one system can be both injected and acknowledged on the other. The service also acts as a server target for the Access Control Plugin of VxOpsCenter.

 **Note:** The plugin has a separate installer and may be installed on any VxOpsCenter in the system. Install the AccessXpert VideoXpert Event Service on a middleware PC that runs constantly.

Meeting the Prerequisites

Ensure that your system meets the following prerequisites:

- Microsoft .NET Framework 4.61 or later
- Microsoft Visual C++ 2015 Redistributables (x86)

Installing the Event Service

To install the AccessXpert VideoXpert Event Service, run the provided **setup.msi** file and follow the on-screen prompts. The product will be installed in C:\Program Files (x86)\Pelco\AccessXpertVxtEventService.

After the service is installed, the AccessXpert VideoXpert Event Service will appear in the **Services** dialog as AccessXpert Vx Event Service, as shown in [Figure 1: AccessXpert Vx Event Service as it appears in the Services dialog](#). The service will run using the **Local System** account and must be started manually, because it is not yet configured. After the configuration is saved using the Administration Tool, the user will be prompted to allow the Administration Tool to start the service.

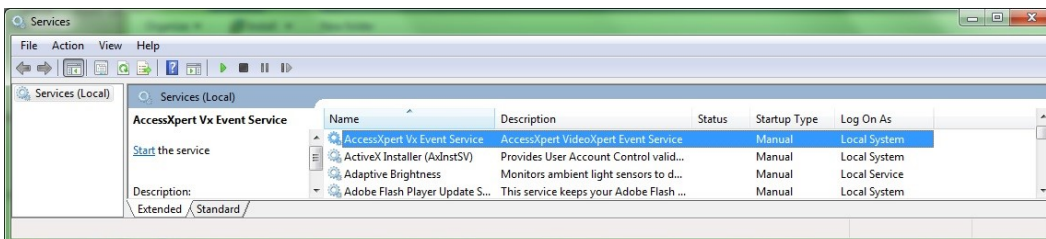


Figure 1: AccessXpert Vx Event Service as it appears in the Services dialog

Running the Event Service in Console Mode

The AccessXpert VideoXpert Event Service can be run from the command line or Windows explorer in order to debug the service. The console provides debug output and several commands to help diagnose issues with the service. To run in console mode:

1. If the AccessXpert VideoXpert Event Service is currently running, from the **services.msc** dialog, stop the service.
2. Open Windows explorer, navigate to C:\Program Files (x86)\Pelco\AccessXpertVxEventService, and then double click on **AccessXpertVxEventService.exe**.
The application will start in console mode and provide a list of commands that can be entered from the console. Debug output will also be shown as events occur.
3. For verbose debug output, type "Debug 2" in the console.

Using the Administration Tool to Configure the Service

Use the AccessXpert VideoXpert Event Service Administration Tool to configure the service. The Administration Tool is located in the Program Files, as shown in *Figure 2: The AccessXpert VideoXpert Event Service Administration Tool as it appears in Program Files*.

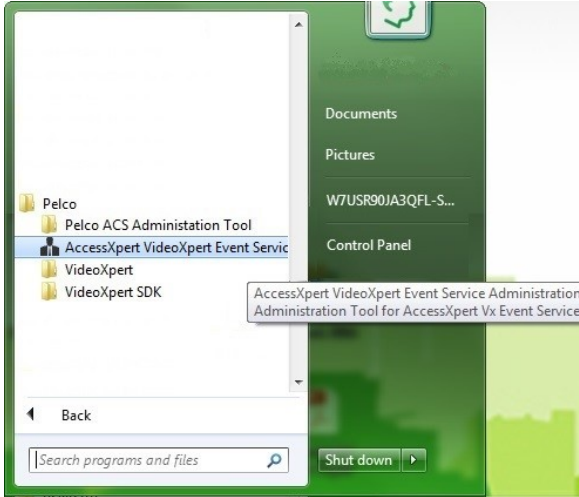
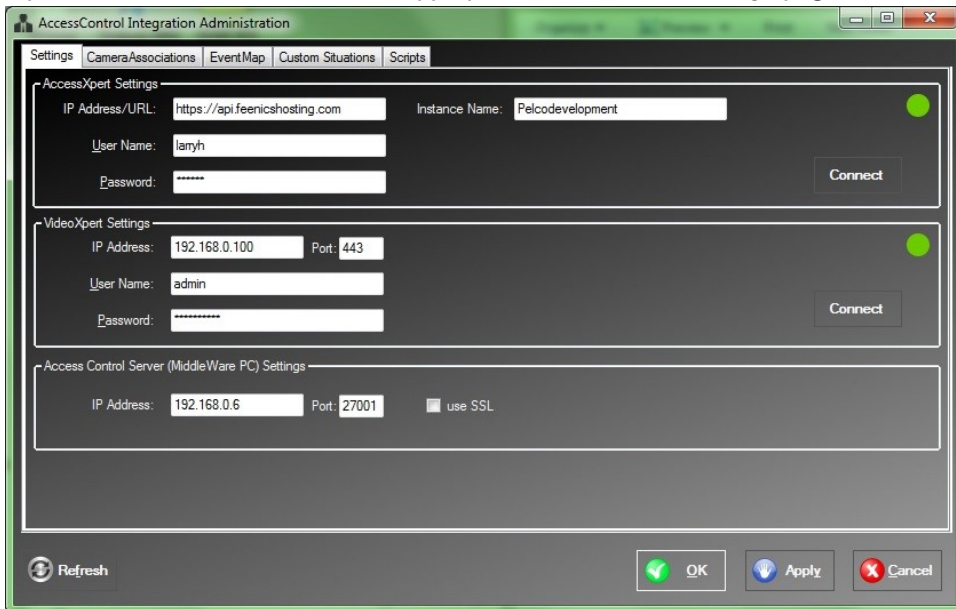


Figure 2: The AccessXpert VideoXpert Event Service Administration Tool as it appears in Program Files

Configuring the Settings Page

When the AccessControl Integration Administration software is run for the first time, configure the connection to both the AccessXpert and the VideoXpert systems.

1. If you have not done so already, click the **Settings** tab.
2. Input connection information in the appropriate fields on the *Settings* page.



3. Click **Connect** to verify connectivity and establish connection to each system.
 - When the connection has been established, the red connection status icon will change to green.



Note: Data for other tabs will not be loaded until valid connections are established (indicated by green status icon).

- The next time the system is started, the Administration Tool will automatically attempt to connect to both systems.

4. Click **Apply**.

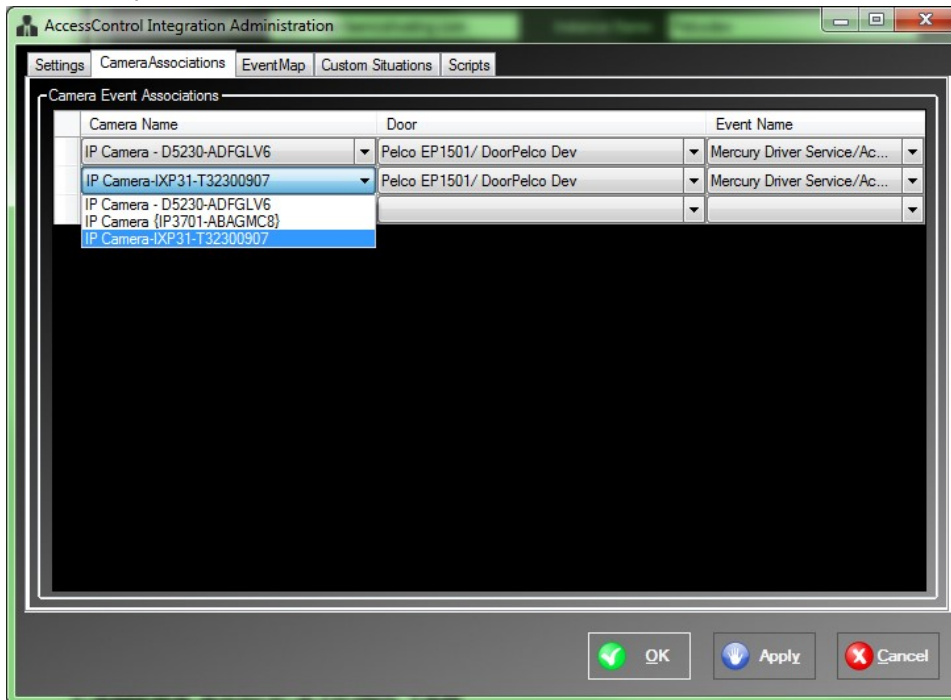
The *Access Control Server* settings allow you to define the *IP Address*, *Port*, and whether to *use SSL*. If multiple ethernet connections are found, the IP address will default to the first NIC found on the machine. Because other valid connections (for example: virtual machine adapters) might exist without having multiple NIC cards, specify the IP address to which the server will be bound.

Configuring the Camera Associations Page

After connections have been established to both AccessXpert and VideoXpert, configure *Camera Event Associations* on the *Camera Associations* page.

To configure the associations:

1. If you have not done so already, click the **Camera Associations** tab.
2. Select an option from the drop-down menu of available items in each column.
 - Each row specifies a camera, a door device, and an event associated with the door device.



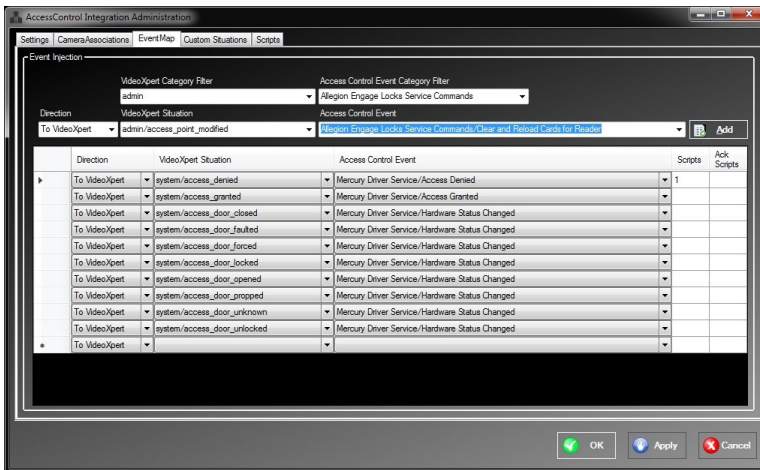
- A camera can be mapped to multiple door events.
- Multiple cameras can be mapped to the same door event.

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3. (Optional) To delete a row, right-click on the row, and then click **Delete Row**.
4. Click **Apply**.

Configuring the EventMap Page

Use category filters at the top of the *EventMap* page to map a *VideoXpert Situation* to an *Access Control Event*.



1. If you have not done so already, click the **EventMap** tab.
2. Select a *VideoXpert Category Filter* from the drop-down menu.
3. Select an *Access Control Event Category Filter* from the drop-down menu.
4. Select a *Direction* from the drop-down menu.
 - For events that originate from AccessXpert and that are being injected into VideoXpert as a Situation, set the *Direction* to **To VideoXpert**.
 - For events that originate from VideoXpert that are being injected into AccessXpert as events, set the *Direction* to **To AccessXpert**. All events going in the direction **To AccessXpert** must use the Access Control Event type **VideoXpert Service/VideoXpert Event**. This is the only event that is injected into AccessXpert by the integration.
5. Select a *VideoXpert Situation* from the drop-down menu. The options are limited by the *VideoXpert Category Filter* selected.
6. Select an *Access Control Event* from the drop-down menu. The options are limited by the *Access Control Event Category Filter* selected.
Any AccessXpert event can be mapped to a VideoXpert Situation.
7. To add an entry to the table of EventMaps already defined, click the **Add** button on the right of this section, or type entries directly into the table.
8. To execute scripts when an event occurs, enter the script number(s) into the *Scripts* column. To execute multiple scripts, separate them with a comma. For example, to execute scripts 1 and 3 on an event, enter "1,3" into the *Scripts* column.
9. To execute scripts when an event is acknowledged the first time, enter the script number(s) into the *Ack Scripts* column. To execute multiple scripts, separate them with a comma. For example, to execute scripts 2 and 5 for an acknowledgment, enter "2,5" into the *Ack Scripts* column.
10. Click **Apply**.

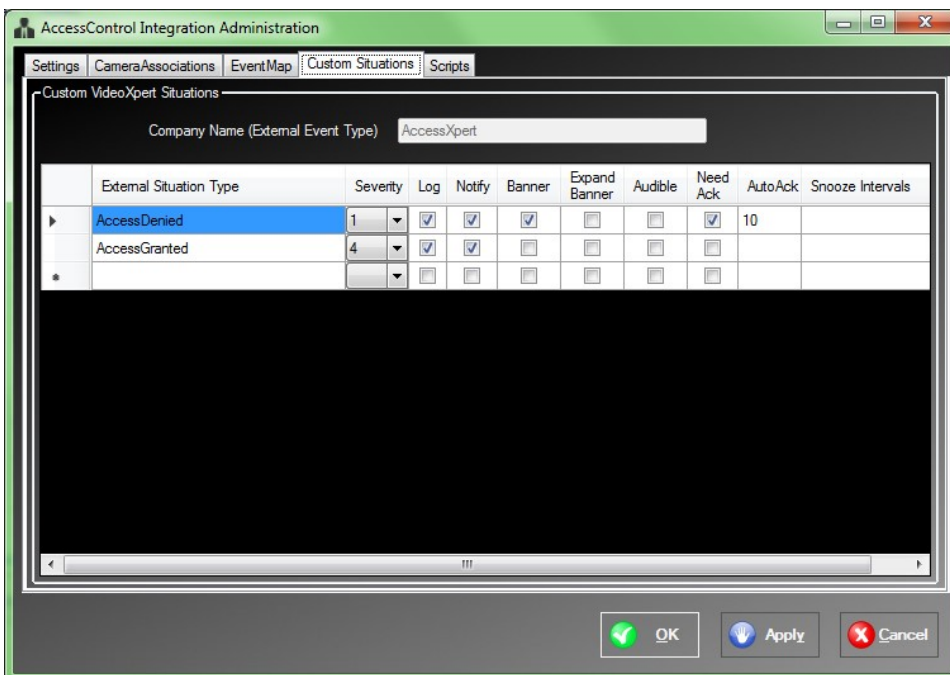


Note: Prior to VideoXpert 3.1, operators used the *Custom Situations* page to define an external or custom event for situations that originate outside of VideoXpert, by defining a custom situation and mapping it to the AccessXpert event to be injected. For VideoXpert 3.1 and later, situations for Access Control events are predefined.

With the VideoXpert Mapping feature (VideoXpert 3.2 or later) in VxOpsCenter, use the predefined Access Control situations. See [Using the VideoXpert Mapping Feature](#). Multiple VideoXpert situations can be mapped to AccessXpert events.

Configuring the Custom Situations Page

Use the *Custom Situations* page to define new situations to inject into VideoXpert. Custom or external situations usually follow the convention external/<company>/<event>.



To configure a custom situation:

1. If you have not done so already, click the **Custom Situations** tab.
2. Enter the correct string in the *Company Name (External Event Type)* field.
3. Enter an appropriate string in the *External Situation Type* field. This will become the <event> part of the SituationType that is injected. For example: enter "access_denied".
4. Enter the appropriate options for each situation:
 - Select a **Severity** as a number from 1 (highest) to 10 (lowest), indicating the severity of the situation.
 - Click to select the checkbox for **Log** to log the event in VideoXpert.
 - Click to select the checkbox for **Notify** to have the situation notify operators.
 - Click to select the checkbox for **Banner** to display a banner to operators.
 - Click to select the checkbox for **Expand Banner** to expand the banner.
 - Click to select the checkbox for **Audible** to produce an audible tone for operators.

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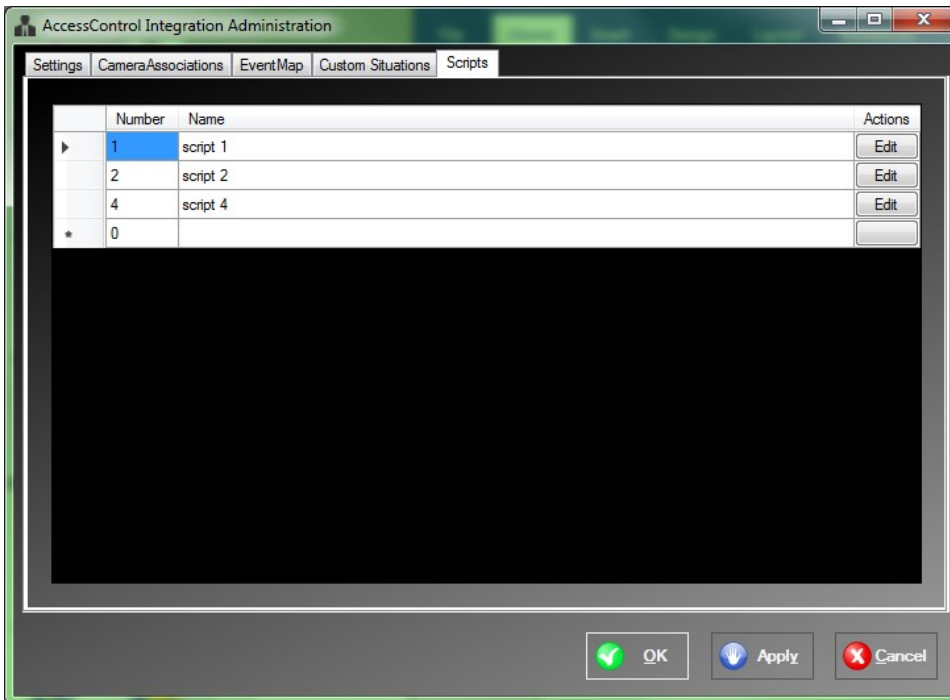
- Click to select the checkbox for *Need Ack* to require an acknowledgement of the situation.
- Enter a value in the *AutoAck* field, which is the number of seconds after which the system automatically acknowledges the alarm. Leave this field blank to disable automatic acknowledgement.
- Enter a value in the *Snooze Intervals* field, which is a list of snooze intervals, in seconds, for the event. Leave the field blank to use the default intervals “60, 300, 600”.

5. Click **Apply**.

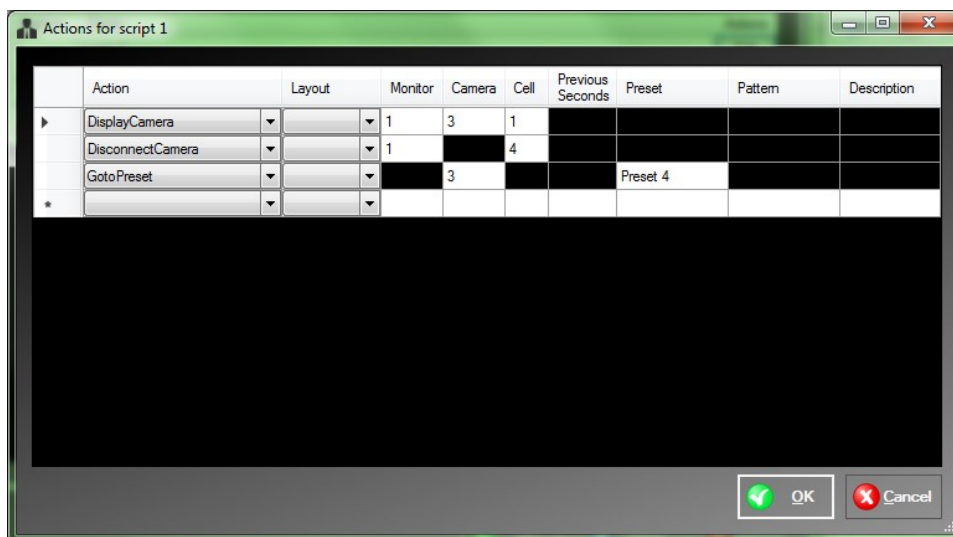
After an *External Situation Type* is defined, it can be associated with a list of event categories on the *EventMap* page. See [Configuring the EventMap Page](#).

Configuring the Scripts Page

Use the *Scripts* page to define scripts that will be executed upon an event (see [Configuring the EventMap Page](#) to associate a script to an event). Scripts have a *Number*, *Name*, and one or more *Actions* associated with them.



- The script number must be unique.
- The name may contain any descriptive text.
- The *Actions* column contains a button that opens a dialog to allow editing *Actions* associated with the script.



In the *Actions for script [#]* window, you must set the actions, required parameters, and optional parameters. These are shown in the table, below.

Action	Required Parameters	Optional Parameters
SetLayout	Layout	N/A
DisplayCamera	Monitor, Camera, Cell	Previous Seconds – number of seconds in past to display camera video. For live this should be left blank.
DisconnectCamera	Monitor, Camera, Cell	N/A
GotoPreset	Preset	N/A
RunPattern	Pattern	N/A
BookMark	Camera	Description – text shown with bookmark

Parameters that are not required are blacked out. If required parameters are missing, the window will not close when you click **OK**.

Using the Access Control Plugin

The AccessXpert VideoXpert Event Service acts as a server for information not otherwise available to VideoXpert from an Access Control System. The Access Control Plugin is a client capable of querying and displaying this information.

The Access Control Plugin can be used to:

- View events injected into VideoXpert.
- See images of users associated with an event.
- View associated video.
- Acknowledge events back to the Access Control System.
- Control access points in the Access Control System.

Using the VideoXpert Mapping Feature

In VideoXpert v 3.1, support for Access Control type devices and many situations associated with these devices have been added to support Mapping. This means that a doorway, or any other kind of entryway, may be placed on a map to view its current status and be associated with cameras.

Any event may be mapped to another event between VideoXpert and AccessXpert; the Mapping application in VideoXpert looks for specific situations in order to represent Access Control status. Predefined situations associated with Access Control are:

- system/access_door_closed
- system/access_door_forced
- system/access_door_locked
- system/access_door_opened
- system/access_door_propped
- system/access_door_unlocked
- system/access_denied
- system/access_granted

In AccessXpert, map events to predefined situations in order to use Mapping. See [Figure 3: Mapping Access Control situations](#). In this example, the *Mercury Driver Service/Hardware Status Changed* event reports door status; access events have specific events (*Access Denied* and *Access Granted*).

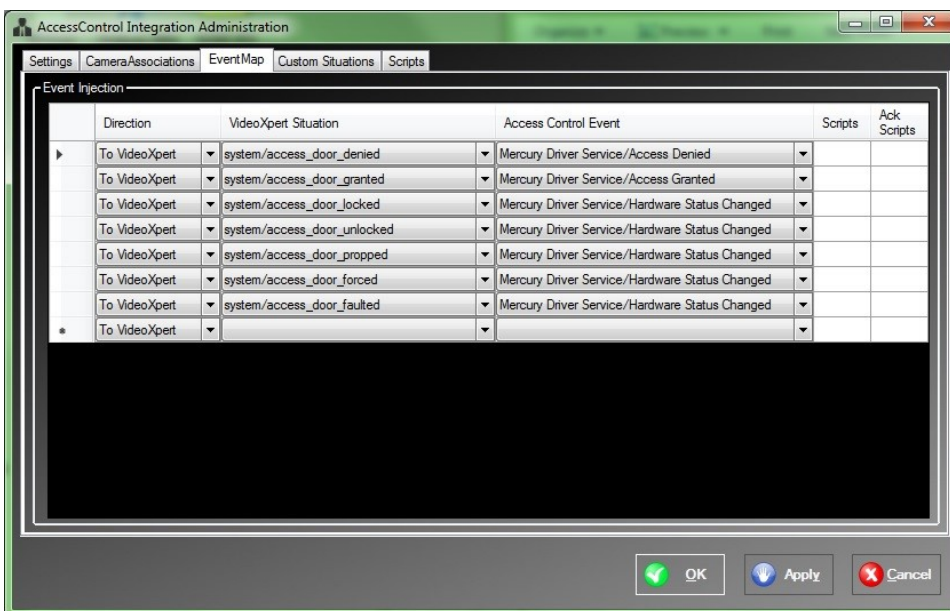


Figure 3: Mapping Access Control situations

Pelco Troubleshooting Contact Information

For further assistance, contact Pelco Product Support at 1-800-289-9100 (USA and Canada) or +1-559-292-1981 (international).

Do not try to repair the unit yourself. Leave maintenance and repairs to qualified technical personnel only.

Version Information

Table 1: Integration Components Versions

Component Name	Version	Description
AccessXpertVxEventServiceSetup_38xx.msi	3.8.x.x	Installer for VideoXpert AccessXpert Event Integration
VxSdk Nuget Package	3.0.33	VideoXpert Sdk used for communications to VideoXpert.

Table 2: AccessXpert Versions

Component Name	Version	Description
AccessXpert Client	20.5.1.0	AccessXpert Client
Feenics.Keep.WebApi.Model.Net46	1.0.996	Convenience classes used by the WebApi Wrapper
Feenics.Keep.WebApi.Wrapper.Net46	1.0.996	Wraps calls to the Web API
Feenics.Keep.WebApi.EventSubscriberWrapper	1.0.1406	Event Subscription libraries for AccessXpert
Feenics.Keep.WebApi.Model.Standard	1.9.1925	Convenience classes used by the Web API Wrapper
Feenics.Keep.WebApi.Wrapper.Standard	1.9.1925	Wraps calls to the Web API



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