



Avigilon™ Control Center 5 System Integration Guide

for Forcefield™ Integrated Security Management
Platform

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Introduction

The Avigilon™ Control Center software and Interlogix Forcefield™ software integration allows the Forcefield system to utilize Avigilon surveillance technology. Integration features include:

- Viewing live video from cameras and control of PTZ devices connected to the Avigilon™ Control Center system in the Interlogix Forcefield™ software
- Viewing recorded video from Avigilon™ cameras in the Forcefield software.
- Viewing events from the Avigilon Control Center in the Forcefield software.

Requirements

Vendor	Requirements
Avigilon	Control Center Server software 5.4 or later
Avigilon	Avigilon integration executable file: AvigilonForcefieldPlugin.exe
Interlogix	Forcefield software version 7.1

For More Information

For More Information about the procedures outlined in this guide, refer to the following specific software documentation:

- *Avigilon™ Control Center Client User Guide*
- *Avigilon™ Control Center Server User Guide*
- *Interlogix Forcefield™ Installation and Setup Manual*
- *Interlogix Forcefield™ Operators Manual*
- *Interlogix Forcefield™ External Interface Manual*

Installation

The Avigilon™ integration software plugin must be installed in the same directory as the Forcefield™ Video Status Manager (VSM) software and the Forcefield™ Video Presentation Client (VPC) software, or the integration may not install successfully. When you install the Avigilon™ integration software, the installer will try to detect if either the VSM or VPC software is installed. If it does not find either software, the installer will cancel itself.

Server

1. Launch the `AvigilonForcefieldPlugin.exe`. The executable will stop all VSM services.
2. When prompted, select to install the integration plugin in the same directory as the VSM software.
3. Restart the VSM service.

Client

Install the Avigilon™ integration software plugin with each instance of the VPC software that needs access to the integration.

1. Launch the `AvigilonForcefieldPlugin.exe`. The executable will stop all VPC services.
2. When prompted, select to install the integration plugin in the same directory as the VPC software.
3. Restart the VSM service.



Configuration



Adding an Integration User in Avigilon™ Control Center

To protect the security of the Avigilon™ Control Center system, add a user in the Avigilon™ Control Center Client software specifically for connecting the integration. The user you add will be used to connect the Avigilon Control Center system to the Avigilon™ integration software. See the *Avigilon Control Center Client User Guide* for more details.


The integration user must have the following permissions:

- View Live Images
 - Use PTZ Controls
 - Trigger Manual Recording
- View Recorded Images
 - Export Image

In the Avigilon Control Center Client software, complete the following steps:

1. In the Setup tab, select the Site then click .
2. In the Groups tab, click .
3. In the following dialog box, select to copy the **Standard Users** group permissions.
4. In the Edit Group dialog box, give the new group a name then select the recommended permissions for the integration.

Make sure only the required permissions are selected.

5. Click **OK** to save the new group.
6. Select the Users tab then click .
7. In the Add User dialog box, enter a **User Name**.
8. In the Password area, complete the following fields:
 - **Password:** enter a password for the user.
 - **Confirm Password:** re-enter the password.
 - **Password never expires:** you may want to select this check box so that you do not need to update the Avigilon Control Center password for the integration..
9. Select the Member Of tab and select the check box beside the group you created earlier in this procedure.

The other two columns display the permissions linked to the selected group.

10. Click **OK**. The user is added to the system.

Assigning Logical IDs to Cameras

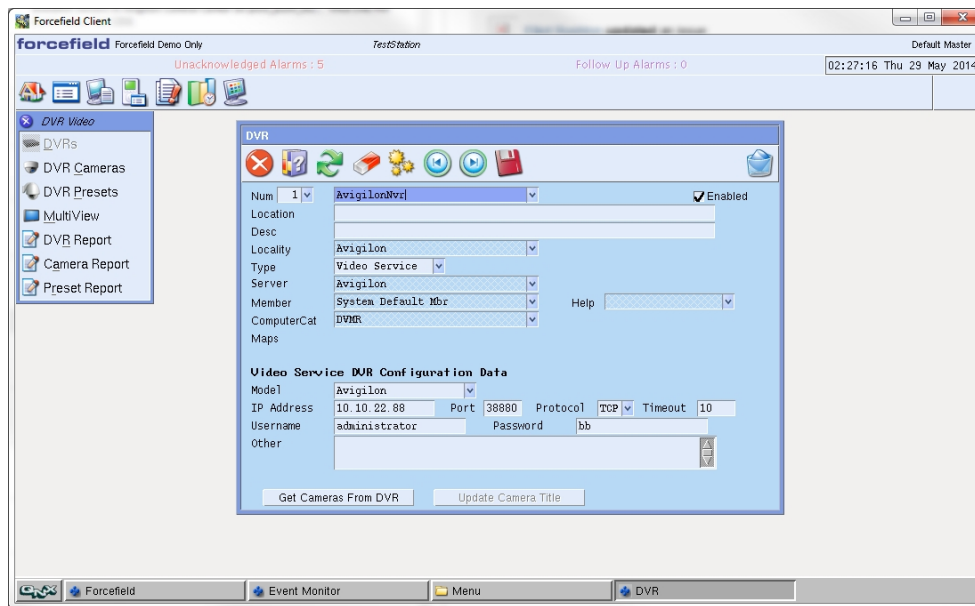
In the Avigilon™ Control Center Client software, assign a logical ID to each camera. The integration software only allows you to access cameras with a logical ID. By default, cameras do not have a logical ID.

1. In the Avigilon™ Control Center Client software, right-click a camera in the System Explorer and select **Setup**.
2. In the camera Setup tab, click **General**.
3. In the General dialog box, enter a Logical ID: for the camera. The logical ID must be unique number.

Adding Avigilon™ Control Center Server to the Forcefield™ System

Before you can start streaming video from the Avigilon Control Center system in the Forcefield software, you must add the Avigilon Control Center as a video service.

1. In the Forcefield client, select **Databases > Video > DVR Video**.
2. In the DVR Video dialog box, complete the following fields:



- **Type:** Video Service.
- Video Service DVR Configuration Data:
 - **Model:** Avigilon
 - **IP Address:** enter the IP address of an Avigilon Control Center Server in the Site.
 - **Port:** enter the port used by the Avigilon server. The default port is 38880.
 - **Username:** enter the username for the Avigilon Control Center user that was created for the integration. For more information, see *Adding an Integration User in Avigilon™ Control Center* on the previous page.
 - **Password:** enter the password for the username.

3. Select the **Enabled** check box.
4. Click **Get Cameras from DVR** to import the cameras into the Forcefield system.

A popup message is displayed to say that the cameras have been successfully imported.

Enabling PTZ Controls

If you have pan-tilt-zoom cameras in your Control Center system, the PTZ camera controls need to be manually enabled in the Forcefield client software or they are not displayed in the Forcefield video player.

1. In the Forcefield client software, select **Databases > Video > DVR Video > DVR Cameras**.
2. In the following dialog box, select the **Has PTZ Control** check box.
3. Click **Save**.

Choosing Event Notifications

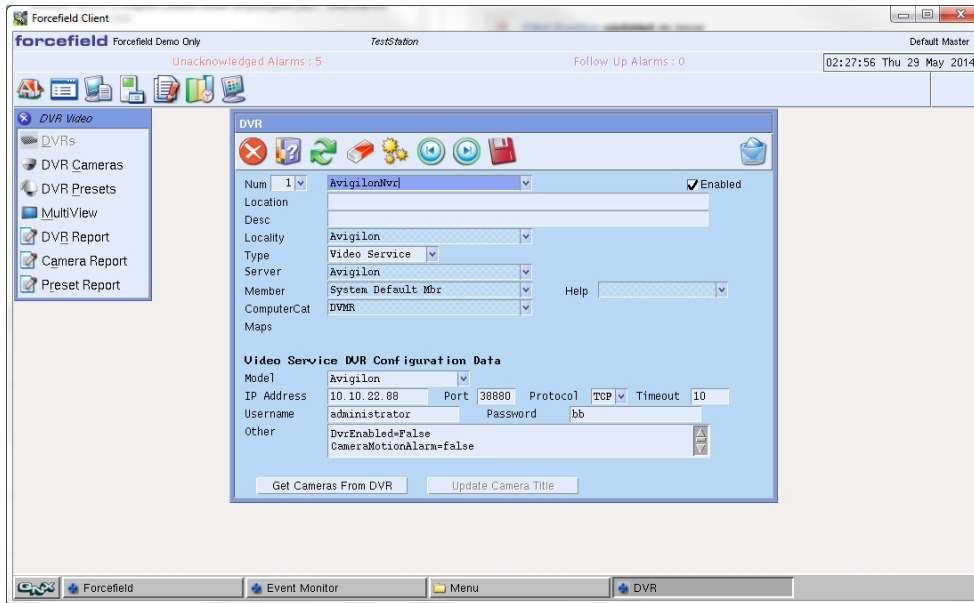
The Avigilon integration plugin software allows you to receive event notifications from the Avigilon™ Control Center in the Forcefield client.

By default, the following events are automatically forwarded from the Avigilon Control Center to the Forcefield client.

Event	Description
NotSupported	Any events that occur in Avigilon system that does not map to the Forcefield event will be forwarded from Avigilon to Forcefield as a 'NotSupported' event.
DvrEnabled	Occurs when the <i>NvrReady</i> event has occurred in Avigilon system. The <i>NvrReady</i> event is raised when the site becomes ready for usage after a successful login.
DvrDiskFull	Raised when <i>StorageLowDiskSpace</i> event is raised in the Avigilon system.
CameraVideoLoss	Raised when <i>DeviceVideoSignalLost</i> event is raised in the Avigilon system. Occurs when the device signal is lost.
DvrNotRecording	Raised when <i>DeviceRecordingStopped</i> event is raised in the Avigilon system. Occurs when a device stops recording.
DvrRecording	Raise when <i>DeviceRecordingStarted</i> event is raised in the Avigilon system. Occurs when a device starts recording.
CameraMotionAlarm	Raised when <i>DeviceMotionStart</i> event is raised in the Avigilon system. Occurs when the device detects motion.
DvrDiskFault	Raised when <i>StorageWritesFailed</i> event is raised in the Avigilon system. Occurs when a server detects an error while writing to its disk.
DvrHardwareFault	Raised when <i>SystemHardwareError</i> event is raised in the Avigilon system. Occurs when a hardware fault is detected.
DvrAuthenticationFailed	Raised when the integration fails to log into the Avigilon Control Center with the given credentials.
DvrNetworkFailure	Raised when <i>DeviceConnectionError</i> event is raised in the Avigilon system. Occurs when a connection error is detected with a device.

If you prefer not to receive certain event notifications from the Avigilon Control Center, you can choose to unsubscribe from the events.

1. In the Forcefield client, open the DVR Video dialog box for the Avigilon integration.
2. In the Other field, enter the events you want to stop event notifications for.



The events must be listed in the following format:

```
<Event>=False
```

For example: CameraMotionAlarm=False

If you want to stop event notifications for more than one event, enter each event on a new line.

For example:

```
CameraMotionAlarm=False
```

```
DvrEnabled=False
```

3. Click **Save**.

Using the Integration

Once the Avigilon™ Control Center software integration with the Interlogix™ Forcefield™ software has been installed, you can view live and recorded video in the Forcefield™ Client software.

For more information about how to monitor video and event notifications in the Forcefield software, see the related Interlogix Forcefield software manuals.

Troubleshooting

If the following troubleshooting solutions do not resolve your issue, contact Avigilon Technical Support – <http://avigilon.com/support-and-downloads/>

Cannot Display Video in Forcefield Client

When you try to display video from the Avigilon DVR in the Forcefield client, nothing happens. Video is not displayed and no error message is displayed.

Check the following:

- `AvigilonForcefieldPlugin.exe` is installed in the same directory as the Forcefield™ Video Presentation Client (VPC) software.
- The workstation firewall is not blocking the connection.

PTZ Controls Not Displayed

When you display video from a pan-tilt-zoom (PTZ) camera in the Forcefield client software, the PTZ controls are not displayed.

PTZ camera controls need to be manually enabled in the Forcefield client software or they are not displayed.

1. In the Forcefield client software, select **Databases > Video > DVR Video > DVR Cameras**.
2. In the following dialog box, select the **Has PTZ Control** check box.
3. Click **Save**.

When you display video from the PTZ camera again, the PTZ controls are displayed.

Avigilon Events Not Displayed in Forcefield

Events sent from the Avigilon Control Center are not displayed in the Forcefield client.

Check the following:

- The `AvigilonForcefieldPlugin.exe` is installed in the same directory as the Forcefield™ Video Status Manager (VSM) software.
- The workstation firewall is not blocking the connection.
- Notifications for the event are not disabled. For more information, see *Choosing Event Notifications* on page 5.