



**SIMPLIFY
ACCESS &
CONTROL**

Avigilon Control Center Panel Guide

Intelli-Site

Security Management Software

Avigilon Control Center Panel Guide

Avigilon Control Center Panel Guide

Copyright

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When calling, please be at the computer prepared to provide the following information:

- Product version number, found by selecting the  **About** button from the Intelli-Site Lite Application Menu.
- The type of computer being used, including operating system, processor type, speed, amount of memory, type of display, etc.
- Exact wording of any message that appears on the screen.
- What was occurring when the problem was detected?
- What steps have been taken to reproduce the problem?
- It is highly recommended that the user generate a support package for transmission to Intelli-Site technical support staff. To generate the package, run the Intelli-Site Lite Configuration Utility. *Create Support Package...* is the last option in the **Tools** menu.

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Introduction

The Intelli-Site Avigilon Control Center video integration uses the Avigilon Control Center 6.14 SDK. The Intelli-Site Avigilon Control Center panel is the Intelli-Site software representation of an Avigilon Control Center, referred to from here on out as an Avigilon Control Center panel.

This guide explains using the Avigilon Control Center driver and Avigilon Control Center panel with Intelli-Site.

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Installation

The Avigilon Control Center driver in Intelli-Site must be installed. No external software is needed.

If Intelli-Site has been installed without the Avigilon Control Center driver, run the Intelli-Site installer again and select **Modify**.

During the Intelli-Site installation or modify installation process, you are presented with the **Select the drivers you want to install** window.

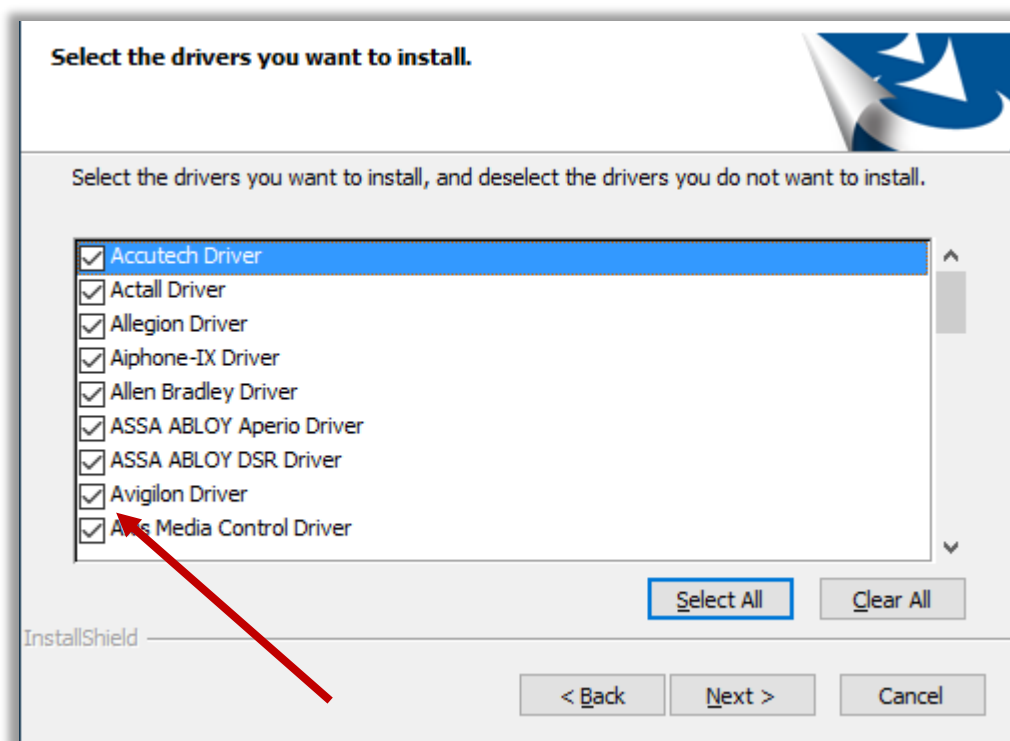
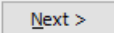


Figure 1 - Select the drivers you want to install

Ensure the **Avigilon Driver** option is checked then click  to continue with the installation or modification.

Note: When modifying the installation, clearing a checkbox will cause that component or driver to be removed from the current installation.

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Setup

The Avigilon Control Center driver and Avigilon Control Center panel are best configured in  **Hardware Management View**. Before we begin though, it is a good idea to have the IP address or DNS name, TCP port number, username and password for the Avigilon Control Center.

Once the above information is obtained, the setup process is straight forward.

1. Add an Avigilon Control Center driver
2. Add an Avigilon Control Center Panel
3. Configure the NVR Panel including adding the cameras
4. Enable the Avigilon Control Center driver

Add an Avigilon Control Center driver

Adding an Avigilon Control Center driver is simple, but important. Without it, no communication with the Avigilon Control Center can occur.

Launch the Desktop Client and login.

Hardware is managed in the  **Hardware Management View**. If you are not in  **Hardware Management View**, click on  and select .

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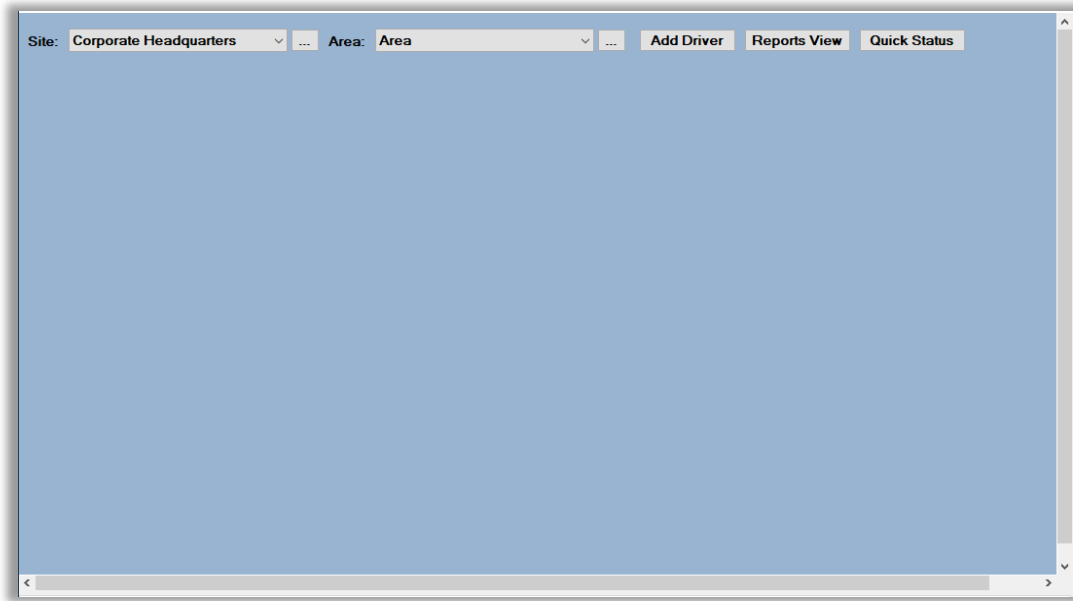


Figure 2 - Hardware Management View

To add the Avigilon Control Center driver, click **Add Driver**. The **Choose Driver Type** dialog displays.

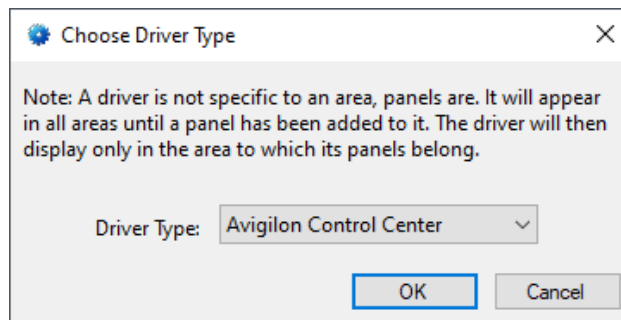


Figure 3 - Choose Driver Type Dialog

Select *Avigilon Control Center* from the **Driver Type** drop-down menu in the **Choose Driver Type** dialog then click **OK**. A new Avigilon Control Center driver icon is added to the screen and its properties dialog opens.

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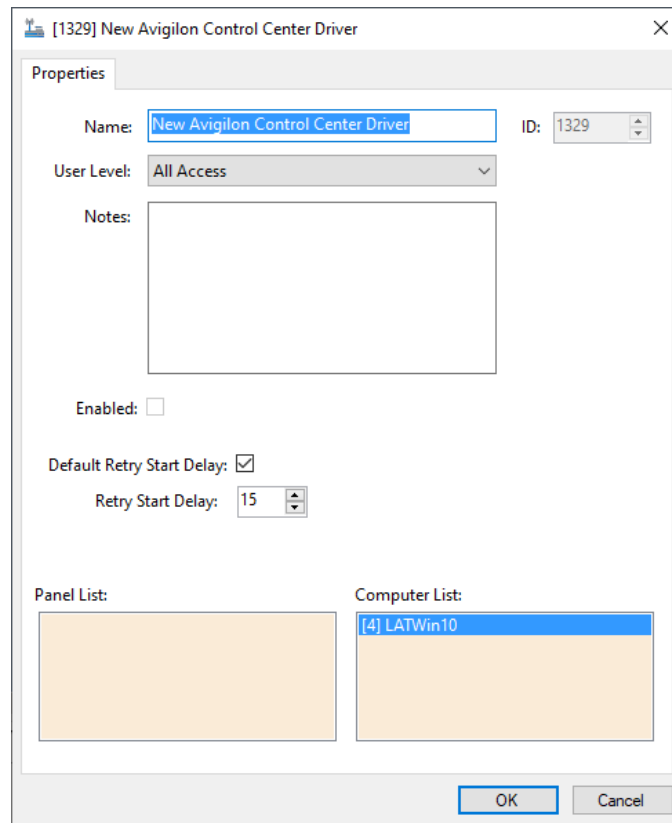


Figure 4 - Avigilon Control Center driver Properties Dialog

Change the name of the driver to something more descriptive that reflects the location and/or usage of the Avigilon Control Center that this driver will control (e.g., PS101 Avigilon Control Center driver). No other fields need to be modified at this time.

Note: For an explanation of all of the driver's properties, see [Avigilon Control Center Driver Node](#).



Figure 5 - Avigilon Control Center driver Icon

Now we need to add an Avigilon Control Center panel to the Avigilon Control Center driver.

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Add an Avigilon Control Center Panel

Once the Avigilon Control Center driver has been added, it's time to add an Avigilon Control Center panel to it.

Right-click on the Avigilon Control Center driver and select *Add Panel*. The **Add Panel** dialog displays.

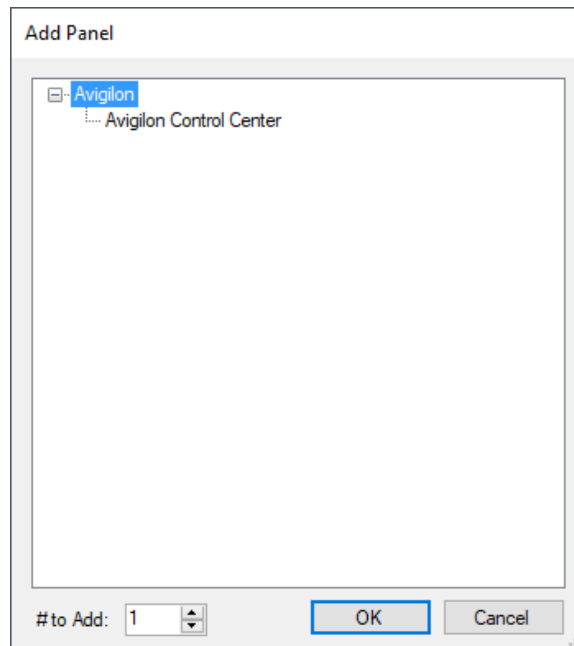


Figure 6 - Add Panel Dialog

Select *Avigilon Control Center*. Change the value of **# to Add** to the number of interfaces you want to add. For the most part, one (1) is sufficient. Click **OK**. A **New Avigilon Control Center** icon is added to the target Avigilon Control Center driver.



Figure 7 - Avigilon Control Center driver and a new Avigilon Control Center panel

Next comes configuring the Avigilon Control Center panel.

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Configure the Avigilon Control Center Panel

The Avigilon Control Center panel is configured using the **Quick Config** dialog. It is on this dialog that the IP address, TCP port, username, and password are set, and the cameras are added. To open the **Quick Config** dialog, right-click on the Avigilon Control Center icon and select *Quick Config*.

Configure New Avigilon Control Center

Name:

Connection Info

Address:

Port:

Username:

Password:

WAN Connection: ☐

Auto Detect

Cameras:

Name	ID	PTZ Enabled
------	----	-------------

Add Delete

Apply OK Cancel

Figure 8 – Avigilon Control Center Panel Quick Config Dialog

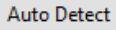
Change the **Name** of the panel to describe its use or location. In our example, the Avigilon Control Center is located at PS101.

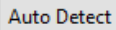
Set the **Address** to the panel address of the Avigilon Control Center. This can be the IP address or the DNS address. Set the **Port**; 38880 is the default value for the Avigilon Control Center. Fill in the **Username** and **Password**. If the Avigilon Control Center is set up for a WAN connection, check **WAN** Connection. Then apply the new settings by clicking the button.

There are two ways to add cameras. Automatically detect the cameras by querying the Avigilon Control Center directly, or add an individual camera by hand.

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Auto Detect Cameras

The first, and easiest way to import cameras is to use the  button. Intelli-Site will query the Avigilon Control Center for the list of cameras and populate the **Cameras** table.

Ensure all of the **Connection Info** fields are filled in with the correct information. Then click the  button. An **Auto Detecting Cameras** status dialog displays while the software acquires the camera information for the Avigilon Control Center

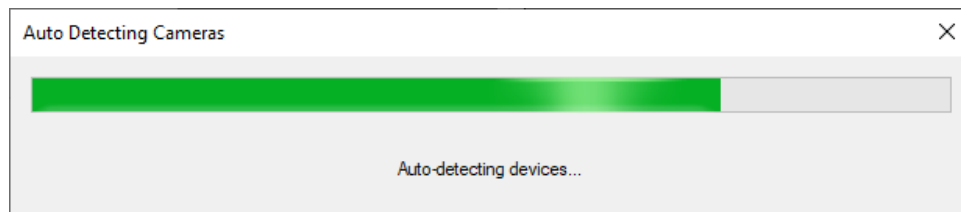
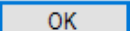


Figure 9 - The Auto Detecting Cameras status dialog

When auto detection is complete, the cameras are listed in the **Cameras** table. Click  to save the detected cameras and close the **Quick Config** dialog.

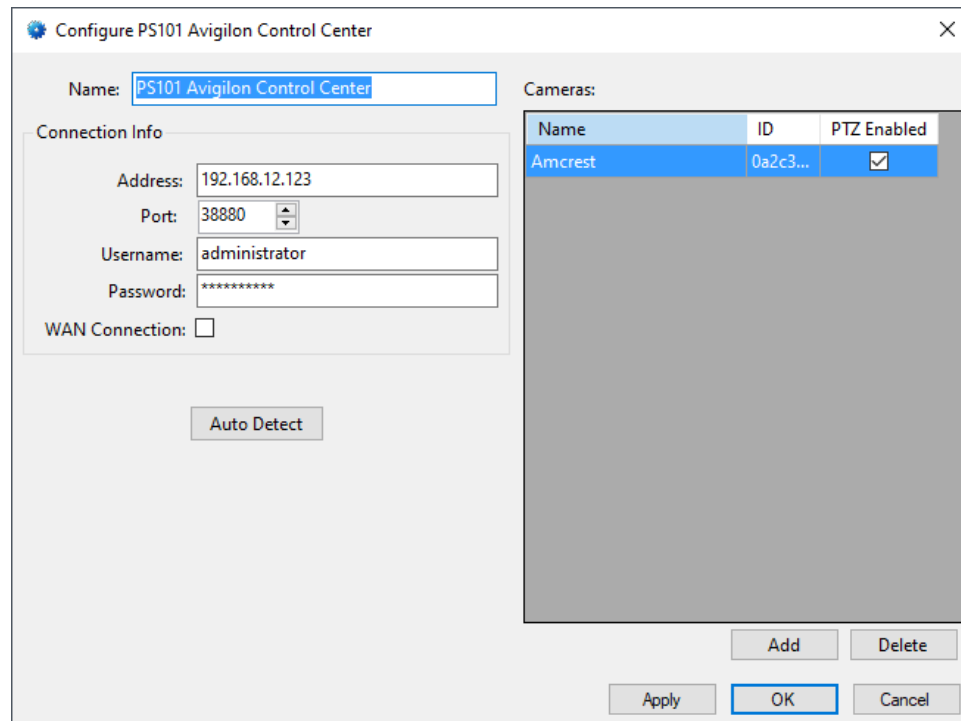


Figure 10 – Quick Config after auto detecting the cameras

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If there are any PTZ enabled cameras attached to this NVR, the PTZ presets will also be imported.

Manually Enter Cameras

If for some reason Intelli-Site does not locate all of the cameras or you don't want to automatically detect them, you can add cameras by hand. If that is the case, you must know the camera **ID** number for each camera used by the Avigilon Control Center.

Click the button under the **Cameras** table. A new row is added to the table. In the **Name** cell, enter the camera's name. In the **ID** cell, enter the camera's ID. If the camera is a PTZ camera, check the **PTZ Enabled** checkbox.

Repeat the process until all of the cameras are present. Click to save the settings.

Enable the Avigilon Control Center driver

At this point, the Avigilon Control Center and the Avigilon Control Center driver are configured, but the driver is not online. A quick way to know this is that the communication indicator is grey.

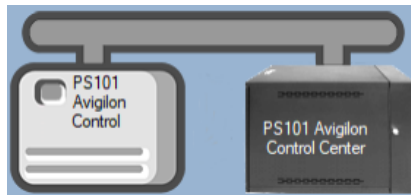


Figure 11 – Disabled Avigilon Control Center driver

Right-click on the driver to open the context menu; select *Enable Driver*. The communications indicator will change color to green when it's online.

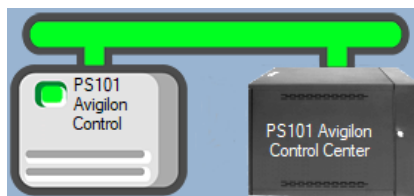


Figure 12 - Enabled Avigilon Control Center driver

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Note: *The Client initiates streaming connection. But the alarms are received by the Avigilon Control Center driver. Therefore, it must be enabled, and the Driver Service must be running as well.*

Congratulations! The Avigilon Control Center is integrated and ready to use in  **Video View** and in screen design for  **Live View**. Screen design occurs in  **Design View**.

Streaming Video

Video streams from the Avigilon Control Center can be viewed in  **Video View** or  **Live View**.  **Video View** allows the user to stream live video as well as playback if applicable. See the Intelli-Site User's Guide for information on  **Video View**.

This document explains the programming necessary to stream video in  **Live View**.

Note: *Programming is done in  **Design View**. Once programmed, it is used in  **Live View**.*

The philosophy of video streaming is that each video display screen object is expected to stream video from at least one camera. The video display contains a table that defines the cameras from which it will stream video. A counter value controls which stream to display. Therefore, a counter must be added to the project for every video display screen object.

Programming

Programming is simple. It requires a video display screen object, a counter per video display screen object, and counter values for each camera configuration the video display screen object is configured to display. Once the video display screen object is configured, additional screen objects are needed to trigger video streaming.

Intelli-Site has automated the configuration and programming for those video displays that will only display one video from one camera at a time. If for some reason, the video display must stream from two or more cameras simultaneously, you will need to program it by hand.

Automatic Programming

The following walks you through the automatic programming of the video display for streaming one camera at a time. You will:

- Add a counter to the Tree and
- Add a video display screen object and configure it.

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Add a Counter

Which camera or set of cameras to display is controlled by a counter and its counter values. Add the counter to the Tree by right-clicking on the area node and selecting *Add Node*. In the **Add Panel** dialog, select *Counters* then click . Expand the new **Counters** node to reveal the group node and the new counter.

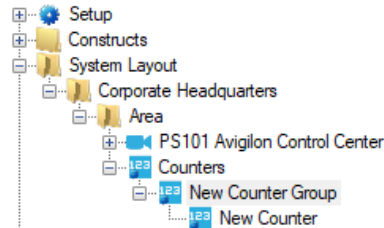
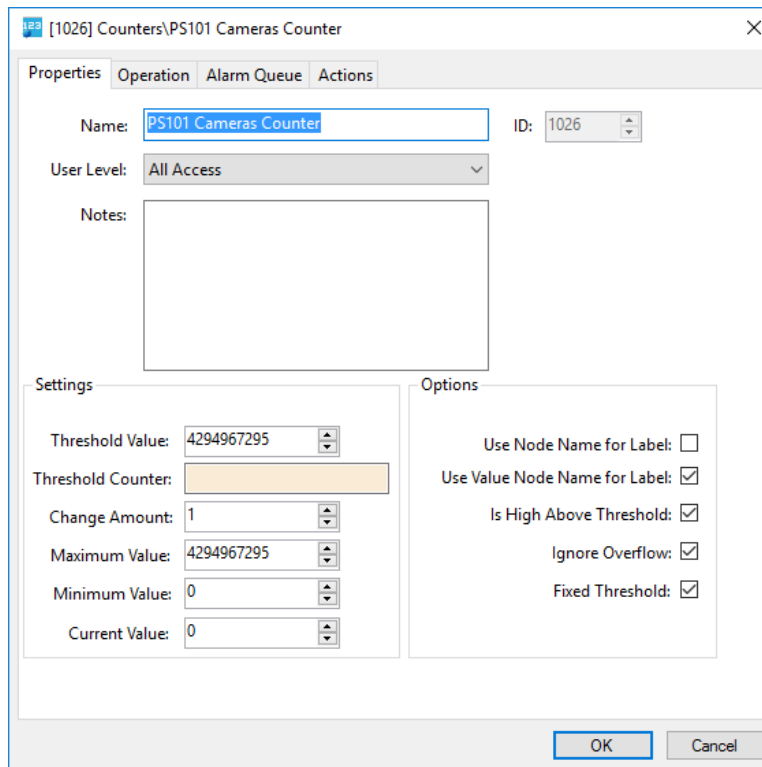


Figure 13- The expanded Counters node

We strongly suggest the names for these nodes be changed to ones that describe their purpose so that the next person that comes along doesn't have problems understanding their use. In keeping with our PS101 example, we named the group node **Video Display Counters Group**. The specific counter we named **PS101 Cameras Counter**.

Open the properties dialog for the counter, change the **Name** and check **Use Value Name for Label**. All of the other default values are fine.

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The image shows a software dialog box titled "[1026] Counters\PS101 Cameras Counter". It has four tabs: "Properties", "Operation", "Alarm Queue", and "Actions". The "Properties" tab is active. It contains the following fields and controls:

- Name:** A text box containing "PS101 Cameras Counter".
- ID:** A dropdown menu showing "1026".
- User Level:** A dropdown menu showing "All Access".
- Notes:** A large empty text area.
- Settings:** A section containing several numeric input fields:
 - Threshold Value:** 4294967295
 - Threshold Counter:** An empty field with a yellow background.
 - Change Amount:** 1
 - Maximum Value:** 4294967295
 - Minimum Value:** 0
 - Current Value:** 0
- Options:** A section containing four checkboxes:
 - Use Node Name for Label:** ☐
 - Use Value Node Name for Label:** ☒
 - Is High Above Threshold:** ☒
 - Ignore Overflow:** ☒
 - Fixed Threshold:** ☒

At the bottom right are "OK" and "Cancel" buttons.

Figure 14 - Counter Properties Dialog

Add a Video Display Screen Object

The video display screen object is the workhorse of streaming video. It has the ability to display multiple streams at a time, switch between different streams, take snapshots, and even open a PTZ pad.

To add a video display to a screen, you must first be in **Design View**. Once in **Design View**, locate the **Create Video Display** tool in the **Design View** toolbar. Click on it to select it. Then use the mouse to draw the object on the screen. Place the mouse at one corner of the object, hold down the right mouse button and drag the mouse to the opposite corner then let up the button. A black quadrangle appears on the screen.

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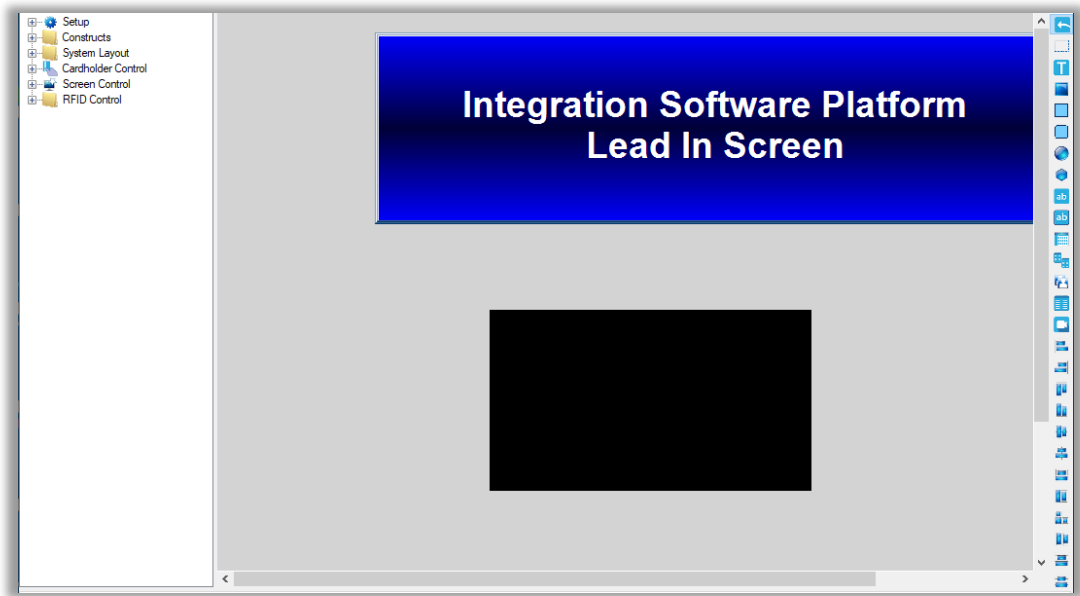


Figure 15 - Video Display Screen Object

Right-click on the video display screen object to open its properties.

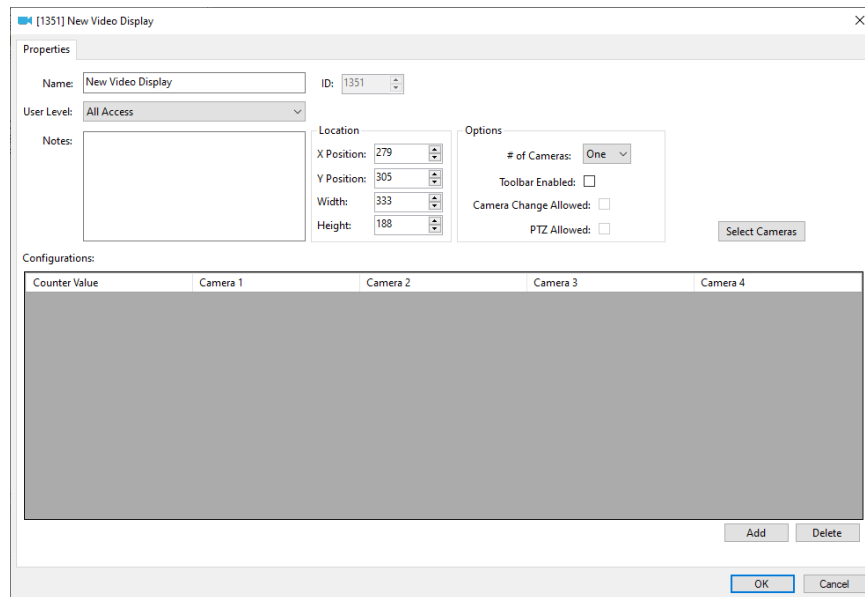


Figure 16 - Video Display Properties Dialog

Change the **Name** field to describe the purpose of this video display.

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The **Location** group box contains the fields associated with the location and size of the video display screen object. These are updated when the object is dragged around the screen or when it is resized.

The **Options** group box contains the fields that define the video display parameters. When **Toolbar Enabled** is checked, the toolbar for the video display will appear when the mouse hovers over it. When checked, **Camera Change Allowed** and **PTZ Allowed** are enabled. If **Camera Change Allowed** is checked, the video display toolbar will include the camera selection tool. If **PTZ Allowed** is checked the toolbar will include the PTZ pad.

The  button is only enabled when **# of Cameras** is set to *One*. This button runs the automatic configuration wizard. Click it. A **Select Cameras** dialog displays.

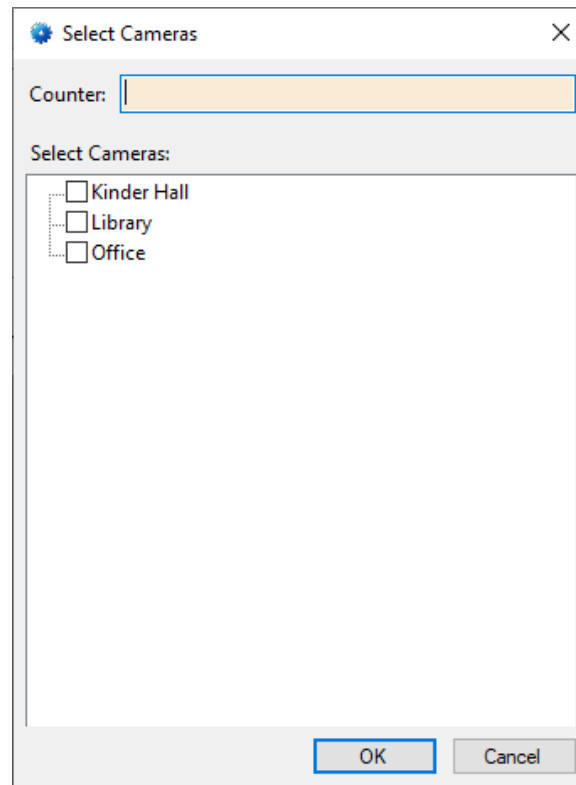


Figure 17 - Select Cameras dialog

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The automatic configuration wizard needs to know what counter and which cameras. Click in the **Counter** drop box and select the desired counter and check the desired cameras. Then click **OK**. Intelli-Site will add counter values to the Tree for each camera selected and add rows to the **Configurations** table. Click **OK** on the video display properties to save it.

Properties

Name: PS101 Video Display ID: 1351

User Level: All Access

Notes:

Location

X Position: 279 Y Position: 305 Width: 333 Height: 188

Options

of Cameras: One

Toolbar Enabled: ☐ Camera Change Allowed: ☐ PTZ Allowed: ☐

Select Cameras

Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4
[1368] PS101 Cameras Counter\...				
[1369] PS101 Cameras Counter\K...	[1340] PS101 Avigilon Control Ce...			
[1370] PS101 Cameras Counter\L...	[1352] PS101 Avigilon Control Ce...			
[1371] PS101 Cameras Counter\...	[1360] PS101 Avigilon Control Ce...			

Add Delete

OK Cancel

Figure 18 - Video Display properties dialog after 

Now go to [Add Counter Value Screen Objects](#).

Programming by Hand

The following walks you through

- Adding the counter to the Tree,
- Adding counter values to that counter, and
- Adding a video display screen object and configuring it.

The last thing that must be done is adding counter value screen objects.

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Add a Counter

Which camera or set of cameras to display is controlled by a counter and its counter values. Add the counter to the Tree by right-clicking on the area node and selecting *Add Node*. In the **Add Panel** dialog, select *Counters* then click . Expand the new **Counters** node to reveal the group node and the new counter.

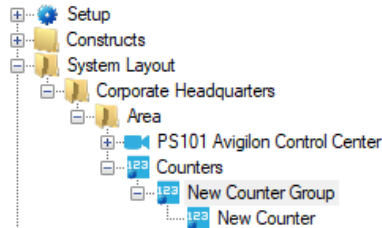


Figure 19- The expanded Counters node

We strongly suggest the names for these nodes be changed to ones that describe their purpose so that the next person that comes along doesn't have problems understanding their use. In keeping with our PS101 example, we named the group node **Video Display Counters Group**. The specific counter we named **PS101 Cameras Counter**.

Open the properties dialog for the counter, change the **Name** and check **Use Value Name for Label**. All of the other default values are fine.

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The screenshot shows the 'Counter Properties' dialog box for a counter named 'PS101 Cameras Counter' with ID '1026'. The 'Properties' tab is selected. The 'User Level' is set to 'All Access'. The 'Notes' field is empty. The 'Settings' section contains: 'Threshold Value' (4294967295), 'Threshold Counter' (empty), 'Change Amount' (1), 'Maximum Value' (4294967295), 'Minimum Value' (0), and 'Current Value' (0). The 'Options' section contains: 'Use Node Name for Label' (unchecked), 'Use Value Node Name for Label' (checked), 'Is High Above Threshold' (checked), 'Ignore Overflow' (checked), and 'Fixed Threshold' (checked). 'OK' and 'Cancel' buttons are at the bottom right.

Figure 20 - Counter Properties Dialog

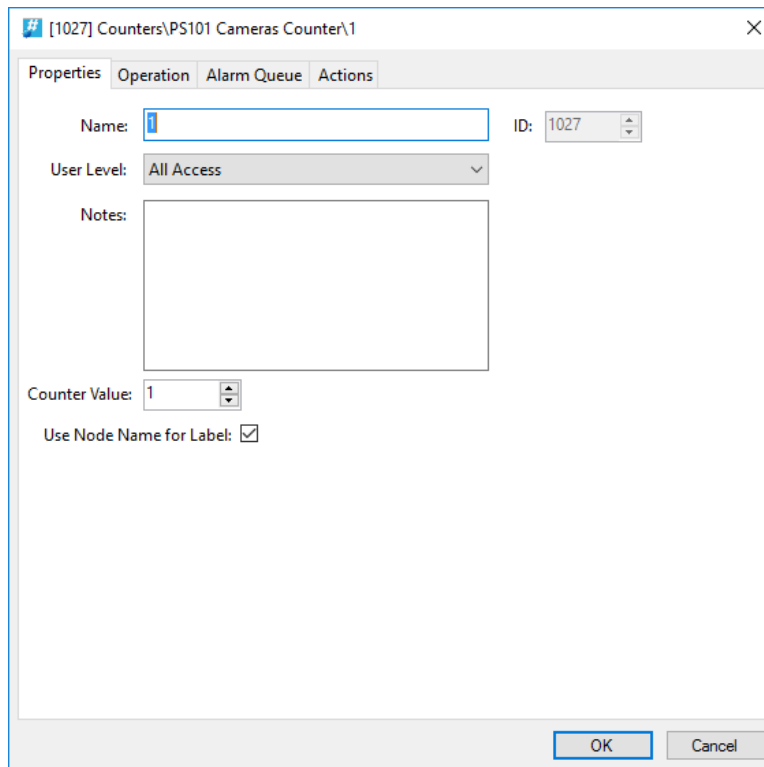
Add Counter Values

The camera configuration to display on a video display screen object is determined by the value of a counter. When the counter changes to the value for a configuration line in the video display's configuration table, that configuration of cameras will be displayed. This will become clearer in the next section. But understand it is important to have specific counter value nodes added to the Tree to control which cameras are streaming on a video display.

In our example, we want four (4) counter values: one for Disconnect, one for the Kinder Hall, one for the Office, and one for the Library. Disconnect is special. This is the value of the counter when no camera streams are being displayed. We will add it singly using *Add Node and Edit*, and then add the others using *Add Multiple...*

To add the Disconnect counter value, right-click on the counter node and select *Add Node and Edit*.

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The dialog box is titled "[1027] Counters\PS101 Cameras Counter\1". It has four tabs: "Properties", "Operation", "Alarm Queue", and "Actions". The "Properties" tab is active. It contains the following fields:

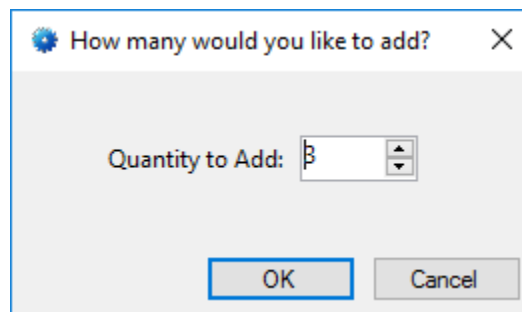
- Name:** A text box containing the value "1".
- ID:** A dropdown menu showing "1027".
- User Level:** A dropdown menu showing "All Access".
- Notes:** A large empty text area.
- Counter Value:** A dropdown menu showing "1".
- Use Node Name for Label:** A checked checkbox.

At the bottom right, there are "OK" and "Cancel" buttons.

Figure 21 - Counter Value Node Properties dialog

Notice that the **Name** and **Counter Value** are 1. Best practices suggest that the value for Disconnect should be zero (0). Therefore, set the **Counter Value** to zero (0). Change the **Name** to Disconnect. Also, check **Use Node Name for Label** this way the automatically created screen object for this node will be labeled Disconnect and not 0. Click the **OK** button to save the changes.

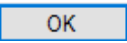
Now let's add the rest of the counter values. Right-click on the counter node and select *Add Multiple...*



The dialog box is titled "How many would you like to add?". It contains a single text box labeled "Quantity to Add:" with the value "3" entered. At the bottom, there are "OK" and "Cancel" buttons.

Figure 22 - How many would you like to add? dialog

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In the **How many would you like to add?** dialog, enter desired number. In the case of the example, we want three (3) more. Click the  button.

Expand the counter node to reveal the new counter value nodes. Notice that they are named 1, 2, 3, etc.

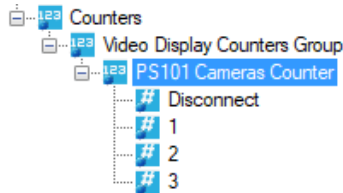


Figure 23 - The New Counter Value Nodes

The properties for each counter value should be modified so that the **Name** is easily understandable, and **Use Node Name for Label** is checked.

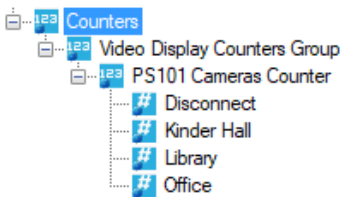


Figure 24 - The properly configured Counter Value Nodes

Now we're ready to begin the video display screen object programming.

Add a Video Display Screen Object

The video display screen object is the workhorse of streaming video. It has the ability to display multiple streams at a time, switch between different streams, take snapshots, and even open a PTZ pad.

To add a video display to a screen, you must first be in  **Design View**. Once in  **Design View**, locate the  **Create Video Display** tool in the  **Design View** toolbar. Click on it to select it. Then use the mouse to draw the object on the screen. Place the mouse at one corner of the object, hold down the right mouse button and drag the mouse to the opposite corner then let up the button. A black quadrangle appears on the screen.

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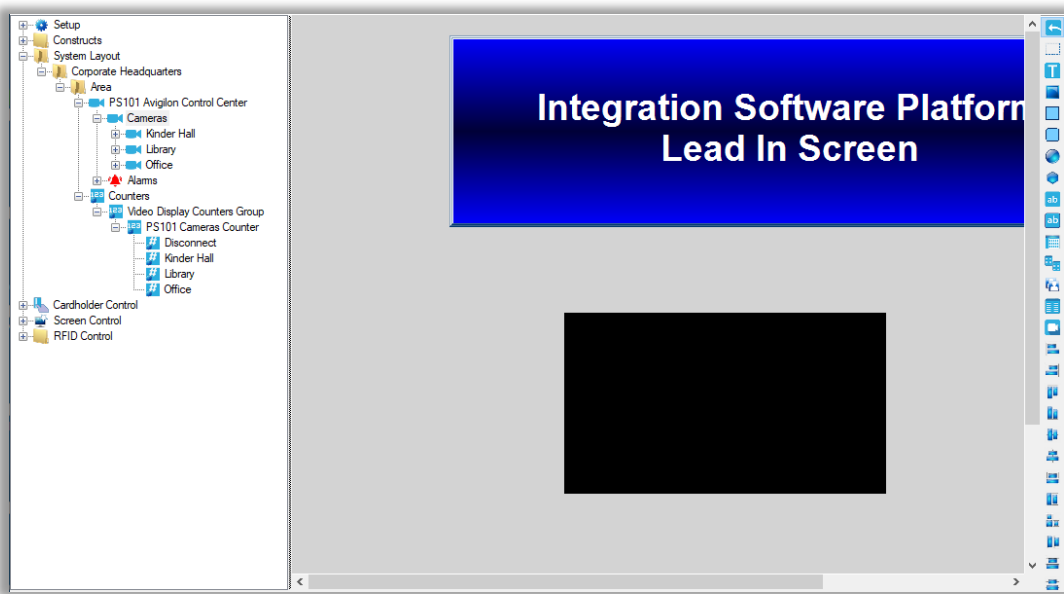


Figure 25 - Video Display Screen Object

Right-click on the video display screen object to open its properties.

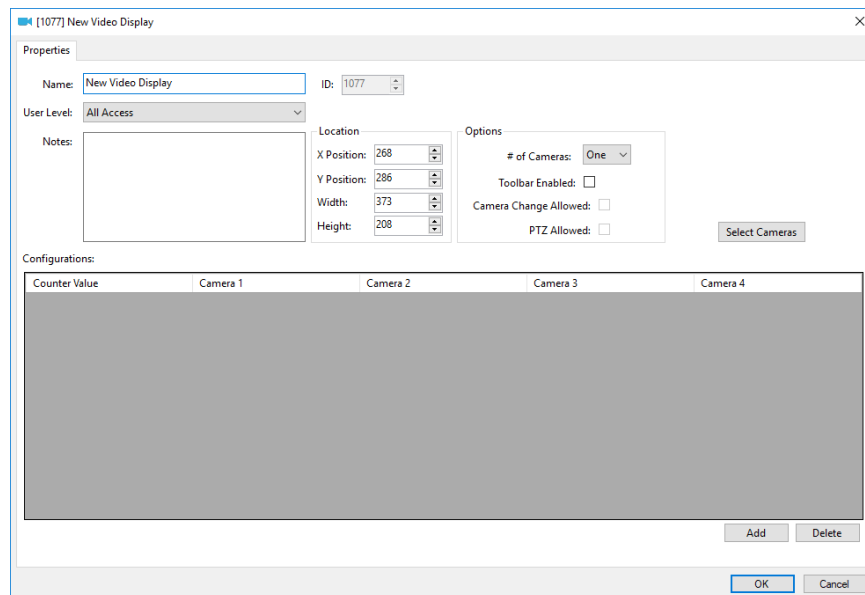


Figure 26 - Video Display Properties Dialog

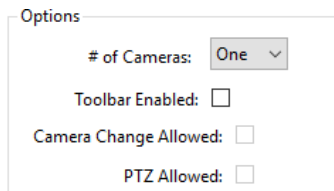
Change the **Name** field to describe the purpose of this video display.

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The **Location** group box contains the fields associated with the location and size of the video display screen object. These are updated when the object is dragged around the screen or when it is resized.

Options Group Properties

Take a look at the **Options** group box.



Options

of Cameras: One ▾

Toolbar Enabled: ☐

Camera Change Allowed: ☐

PTZ Allowed: ☐

of Cameras – drop-down menu; the number of video streams to display at one time, possible values are *One*, *Two*, or *Four*; Intelli-Site will divide the display screen into the number of cameras selected

If *Two* is selected, Intelli-Site will divide the video display screen object into two video displays. The longer dimension, height or width, determines if the two displays are side by side or top and bottom. If height is greater than length, then Camera 1 will be on top and Camera 2 will be on bottom. If the width is greater than height, then Camera 1 will be on the left and Camera 2 on the right.

When *Four* is selected, the video display screen into four video displays. Camera 1 is the top left display, Camera 2 is the top right display, Camera 3 is the bottom left display, and Camera 4 is bottom right display.

Toolbar Enabled – When checked, the toolbar for the video display will appear when the mouse hovers over it; the two fields below it are enabled as well

Camera Change Allowed – Enabled when **Toolbar Enabled** is checked; when checked, the user will be able to change the displayed cameras using the camera configuration drop-down menu in the toolbar

PTZ Allowed – Enabled when **Toolbar Enabled** is checked; when checked, the user will be able to open the PTZ pad in the toolbar if the camera is a PTZ enabled camera

Avigilon Control Center Panel Guide

Configurations Table

The **Configurations** table contains the definitions of desired camera configurations.

Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4

Figure 27 - Configurations Table

Notice there are four columns for cameras. These camera columns correspond to the **# of Cameras** field in the **Options** group box. If *One* is selected, only the cameras in the **Camera 1** column will display. If *Two* is selected, then columns **Camera 1** and **Camera 2** are displayed. And of course, if *Four* is selected, then all four camera columns display.

Each line of the table links a counter value to a camera arrangement. When the counter is set to the specified counter value, the video display screen object will display the corresponding camera arrangement. Therefore, to display no video, a line with no cameras will be needed.

Use to add a line to the **Configurations** table. Use to delete the highlighted line of the table.

Returning to our example, we want to display Kinder Hall, the Office, the Cafeteria, and the Library. We are only going to display them one at a time which means we need a line for each camera and a line for no cameras for a total of five (5) lines. Use to add a line to the **Configurations** table. Click in the **Counter Value** cell of the new line. The **Select Tree Item** dialog appears with all of the counter values in the Tree.

Avigilon Control Center Panel Guide

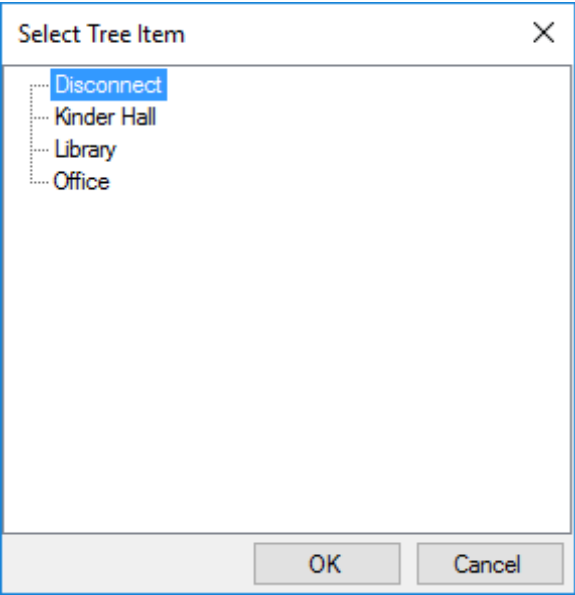
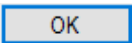


Figure 28 - Select Tree Item dialog for Counter Values

These are the counter values that we added in [Add Counter Values](#). Select the counter value that you want to use for the no cameras configuration. We called that one **Disconnect**. Click .

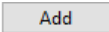
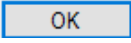
Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4
[1338] PS101 Cameras Counter\...				

[1338] PS101 Cameras Counter\Disconnect

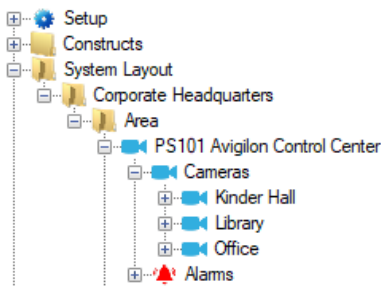
AddDelete

Figure 29 – Configurations Table with the Disconnect definition

Click  again. Click in the **Counter Value** cell of the new line. The **Select Tree Item** dialog appears with all of the counter values in the Tree. Select the counter value that you want to use for the next camera configuration then click . Drag and drop the corresponding camera into the **Camera 1** cell.

Avigilon Control Center Panel Guide

Note: The camera nodes are located in the Project Node Tree by expanding the Avigilon Control Center node and its Cameras child node.



Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4
[1368] PS101 Cameras Counter\...				
[1369] PS101 Cameras Counter\K...	[1340] PS101 Avigilon Control Ce...			

AddDelete

Figure 30 - Configurations Table with Two Lines

Repeat until there are definitions for each of the camera configurations in the **Configurations** table.

Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4
[1368] PS101 Cameras Counter\...				
[1369] PS101 Cameras Counter\K...	[1340] PS101 Avigilon Control Ce...			
[1370] PS101 Cameras Counter\L...	[1352] PS101 Avigilon Control Ce...			
[1371] PS101 Cameras Counter\...	[1360] PS101 Avigilon Control Ce...			

AddDelete

Figure 31 - Example Configurations Table

Make sure to click **OK** to save the changes made to the video display screen object.

Avigilon Control Center Panel Guide

The last thing that must be done is adding counter value screen objects.

Add Counter Value Screen Objects

The last thing needed is screen objects to select the desired camera's video stream to display. Drag and drop the counter values to the screen to make counter value screen objects.

Note: *After the first counter value screen object has the desired look, you might want to use Replicate to create the rest of the screen objects. See the Intelli-Site User's Guide.*

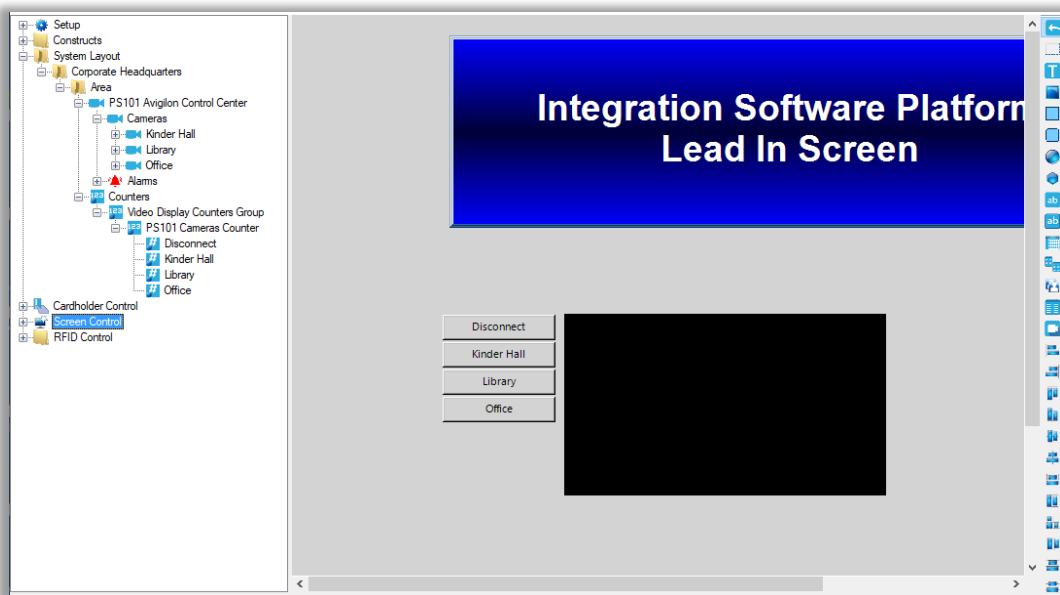


Figure 32 - Design View fully programmed

Programming PTZ Presets

When a camera is a PTZ enabled camera with presets in Avigilon Control Center, those presets are imported during Auto Detect. They can be found in the Tree as child nodes of the camera.

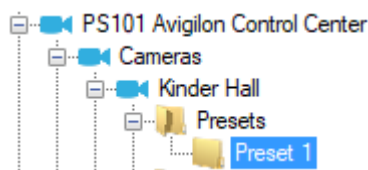
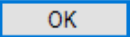


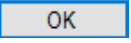
Figure 33 - Camera Presets nodes

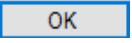
Avigilon Control Center Panel Guide

When the preset node is the target of a *SendCommand*, the Avigilon Control Center driver sends the preset request to the Avigilon Control Center. This command can be in any action grid that allows a *SendCommand*. Let's program a button to send the preset to the Avigilon Control Center.

The button needs three commands. The first command is to set the live video object. The second is the preset command. And the third is the warm fuzzy so the user has feedback that the button was pressed.

Add a button to the screen using the  *Create Button* tool. Open the properties of this new button and switch to the **States** tab. In the action grid, click on the first cell in the **Action** column. The **Actions** dialog opens. Locate the **LiveVideo** command in the **Video** group. Click on it then click . Then drag and drop the video display screen object node from the Project Tree into the **Target** cell. To find this node in the Tree, expand **Screen Control->Screens** and its child nodes until you find the desired video display screen object.

Now, click on the **Action** cell of the second row of the action grid. In the lower right side of the **Actions** dialog is the **Panel** group of actions. Click on *SendCommand* then click . Then drag and drop the preset node in the **Target** cell.

And last but not least, add a third line to play a sound so the user gets feedback to know the button was clicked. A label would also be nice. Click  to save the programming.

Avigilon Control Center Panel Guide

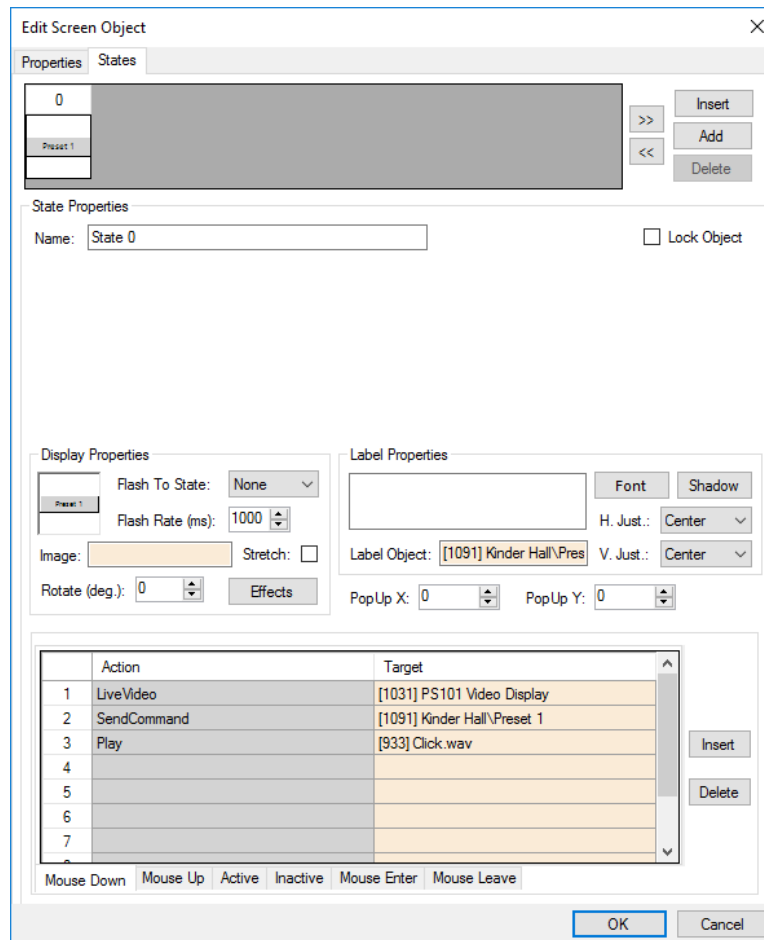


Figure 34 - Programming using Preset node

Now, in  **Live View**, when this button is clicked, the camera will be sent to the **Kinder Hall\Preset 1** preset.

Note: This same programming works if the Target of the SendCommand is a camera node. The video display will begin streaming from the camera node.

Live View

Now that everything is programmed, switch to  **Live View**.

Note: The Avigilon Control Center driver must be enabled to stream. See [Enable the Avigilon Control Center Driver](#).

Click on the button to display the desired video stream.

Avigilon Control Center Panel Guide

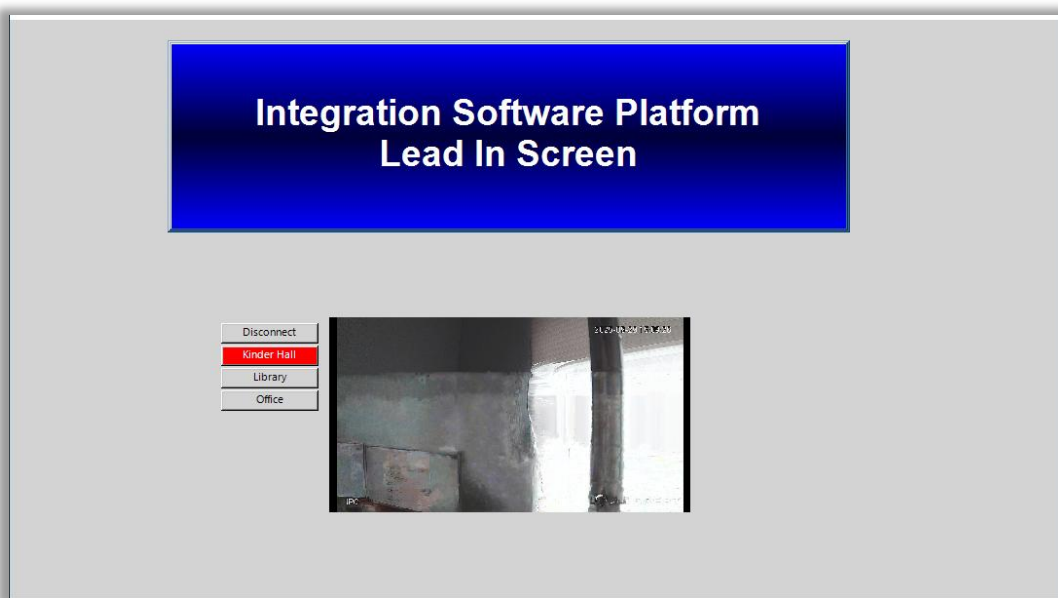


Figure 35 -  Live View displaying video from Office

Avigilon Control Center Panel Guide

Design View

 **Design View** is the home of the Project Node Tree and the place where screens and screen objects are programmed. The following sections explain:

- The Avigilon Control Center driver node properties,
- The Avigilon Control Center node properties, and
- The Avigilon Control Center nodes and their preset and alarm child nodes

Avigilon Control Center Driver Node

The Avigilon Control Center driver node is found by expanding **Setup->Computer Setup->Drivers**.



Figure 36 - Avigilon Control Center driver node in the Project Node Tree

Right-click on the Avigilon Control Center driver node and select *Properties* to open the properties dialog.

Avigilon Control Center Panel Guide

The screenshot shows a Windows-style dialog box titled "[1329] PS101 Avigilon Control Center Driver". It has a "Properties" tab. The "Name" field contains "PS101 Avigilon Control Center Driver". The "ID" field is a disabled spinner showing "1329". The "User Level" is a dropdown menu set to "All Access". The "Notes" field is a large empty text area. The "Enabled" checkbox is checked. The "Default Retry Start Delay" checkbox is checked, and the "Retry Start Delay" spinner is set to "15". At the bottom, there are two list boxes: "Panel List" containing "[1330] PS101 Avigilon Control Center" and "Computer List" containing "[4] LATWin10". "OK" and "Cancel" buttons are at the bottom right.

Figure 37 - Avigilon Control Center driver properties dialog

Name – edit box; the name for the node; the name doesn't have to be unique

ID – numeric (disabled); the unique identifier of this node; generated by Intelli-Site

User Level – drop-down menu (default: All Access); the User Level a user must possess to open the properties for this node

Notes – multiline edit box; any notes the user may have for the node

Enabled – check box; when checked the driver is enabled

Default Retry Start Delay – check box (default: checked); if the driver did not connect, pause before attempting to connect again

Avigilon Control Center Panel Guide

Retry Start Delay – numeric (default: 15); number of seconds to wait between retries on connection attempts

Panel List- drop box; the Avigilon Control Center nodes attached to this driver

Computer List – drop box; the computers whose driver service will run this driver; most useful in a redundant system

Avigilon Control Center Panel

The Avigilon Control Center panel node is found by expanding **System Layout** then the Site and Area to which the Avigilon Control Center panel was added in  **Hardware Management View**. In the example below, the panel was added to the site **Corporate Headquarters** and the area **Area**.

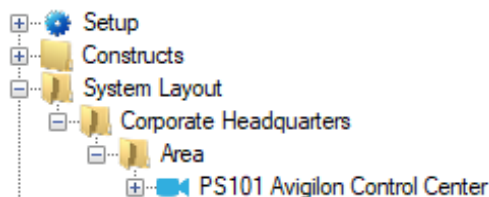


Figure 38 - The Avigilon Control Center panel node in the Project Node Tree

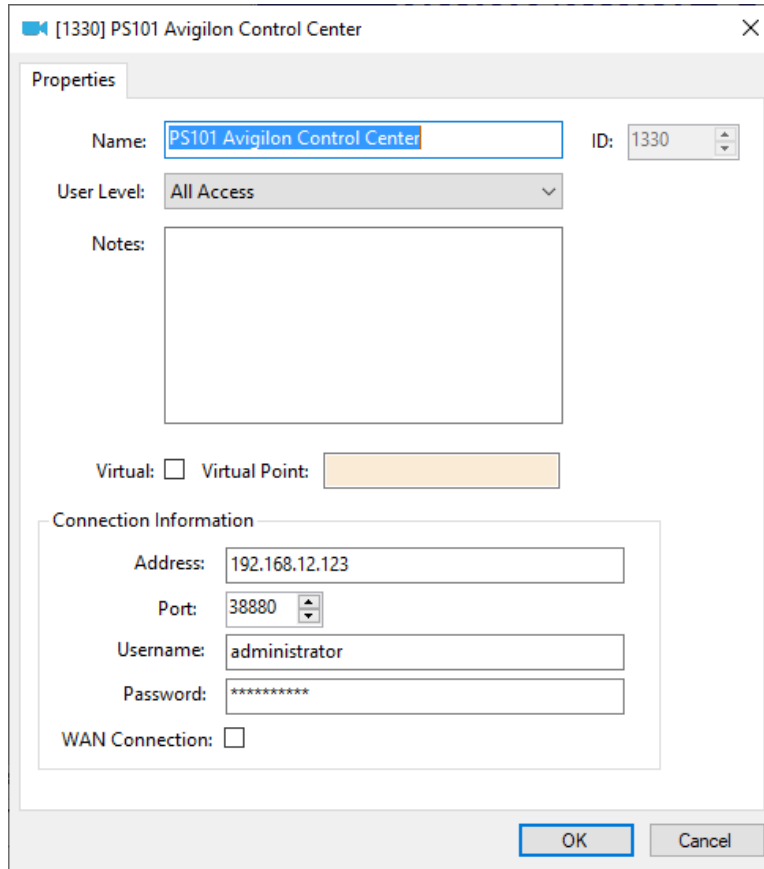
The Avigilon Control Center node is the root node for the panel. The following sections will explain:

- The properties of the Avigilon Control Center node
- The configuration of the Avigilon Control Center panel (a.k.a. the **Quick Config** dialog)
- The child nodes of the Avigilon Control Center panel

Avigilon Control Center Node Properties

Right-click on the Avigilon Control Center node to open the properties. These fields are not accessible through the **Quick Config** dialog except for **Address**. They correspond to those features that aren't necessarily related to the configuration of the Avigilon Control Center, but are related to how Intelli-Site handles the node.

Avigilon Control Center Panel Guide



The screenshot shows a window titled "[1330] PS101 Avigilon Control Center" with a close button (X) in the top right corner. The window contains a "Properties" tab with the following fields:

- Name:** A text box containing "PS101 Avigilon Control Center".
- ID:** A numeric field containing "1330".
- User Level:** A drop-down menu showing "All Access".
- Notes:** A large, empty text area.
- Virtual:** A checkbox that is currently unchecked.
- Virtual Point:** A text box containing an empty field.
- Connection Information:** A section containing:
 - Address:** A text box containing "192.168.12.123".
 - Port:** A numeric field containing "38880".
 - Username:** A text box containing "administrator".
 - Password:** A text box containing "*****".
 - WAN Connection:** A checkbox that is currently unchecked.

At the bottom right of the window are "OK" and "Cancel" buttons.

Figure 39 - Avigilon Control Center node properties dialog

Name – edit box; the name for the node; the name doesn't have to be unique

ID – numeric (disabled); the unique identifier of this node; generated by Intelli-Site

User Level – drop-down menu (default: All Access); the User Level a user must possess to open the properties for this node

Notes – multiline edit box; any notes the user may have for the node

Virtual – check box; when checked the panel is virtualized, allowing the driver to be brought online without having the physical panel available

Virtual Point – drop box; this I/O Point will be set when the panel is virtualized, clear when it is not

Address – edit box; the IP address or DNS hostname of the panel

Avigilon Control Center Panel Guide

Port – numeric (default: 38880); the TCP port number to connect to on the panel

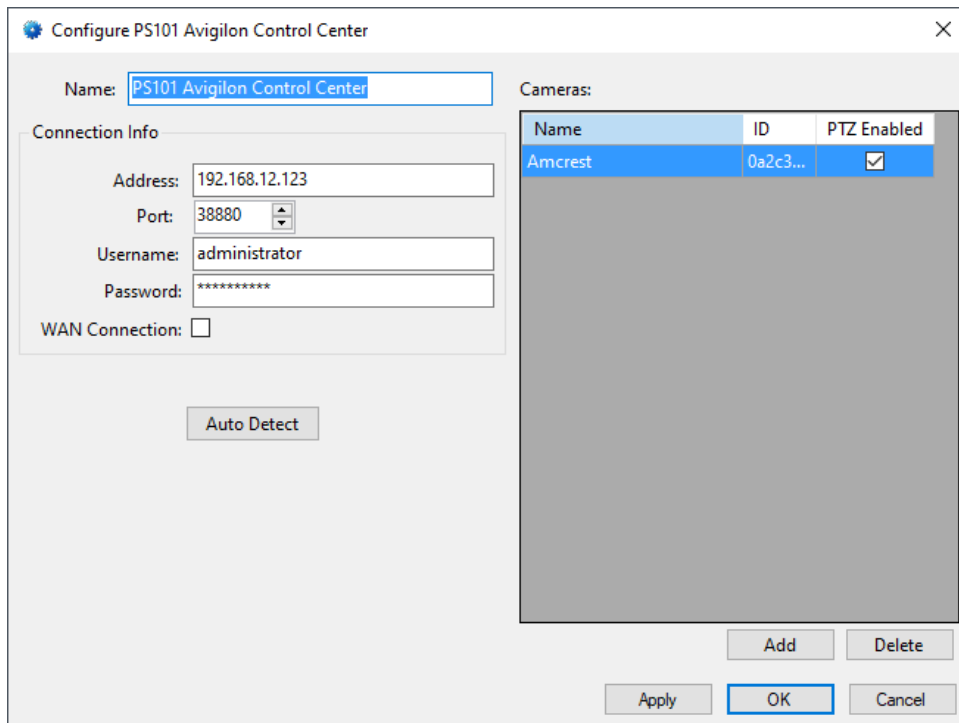
Username – edit box; the username to use when connecting to the panel

Password – edit box; the password to use when connecting to the panel

WAN Connection – check box; check when the panel is a WAN connection

Avigilon Control Center Quick Config

The **Quick Config** dialog is accessible either in  **Hardware Management View** or in  **Design View**. To open the **Quick Config** dialog, right-click on the Avigilon Control Center panel node and select *Quick Config*.



The dialog box is titled "Configure PS101 Avigilon Control Center". It contains the following fields and controls:

- Name:** A text box containing "PS101 Avigilon Control Center".
- Connection Info:**
 - Address:** A text box containing "192.168.12.123".
 - Port:** A spin box set to "38880".
 - Username:** A text box containing "administrator".
 - Password:** A text box containing "*****".
 - WAN Connection:** An unchecked checkbox.
- Cameras:** A table with the following data:

Name	ID	PTZ Enabled
Amcrest	0a2c3...	☒
- Buttons:** "Auto Detect", "Add", "Delete", "Apply", "OK", and "Cancel".

Figure 40 - Avigilon Control Center panel Quick Config dialog

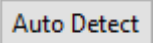
Name – edit box; the name of the panel; updating this field will change the name of the node; **changes to this field are reflected on the Properties dialog**

Avigilon Control Center Panel Guide

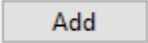
Address – edit box; the address of the panel, it can be the IP Address or the DNS name

Port – numeric (default: 38880); the TCP port of the panel; Avigilon Control Center uses 38880 as its default value, but it is configurable

Username and **Password** – edit box; the login credentials of the Avigilon Control Center

 - button; used to find the cameras of the Avigilon Control Center panel

Cameras – table; the cameras of the Avigilon Control Center panel; lists the name, camera ID, and if PTZ is enabled

 - button; add a new line to the **Cameras** table above the button

 - button; delete the highlighted camera line from the table above the button

Avigilon Control Center Panel Child Nodes

Each Avigilon Control Center panel node has two child nodes: **Cameras** and **Alarms**.

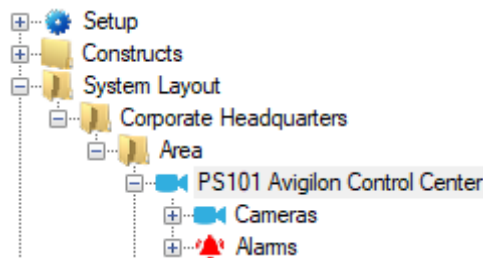


Figure 41 - Avigilon Control Center panel child nodes

The cameras listed in the **Cameras** table in the **Quick Config** dialog are stored in the Project Node Tree as nodes under the **Cameras** node. The **Alarms** node contains the alarm points for the panel.

Avigilon Control Center Panel Guide

Camera Node

The camera node defines the pertinent information about the camera. Expanding the camera node reveals the **Presets** node.

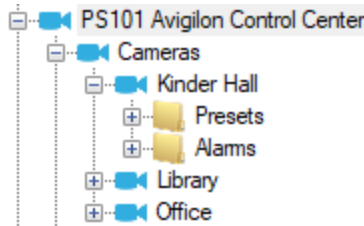


Figure 42 – Avigilon Control Center Camera node and its child node

Camera Node Properties

Under the **Cameras** node are each of the camera nodes. The information about each camera is stored here.

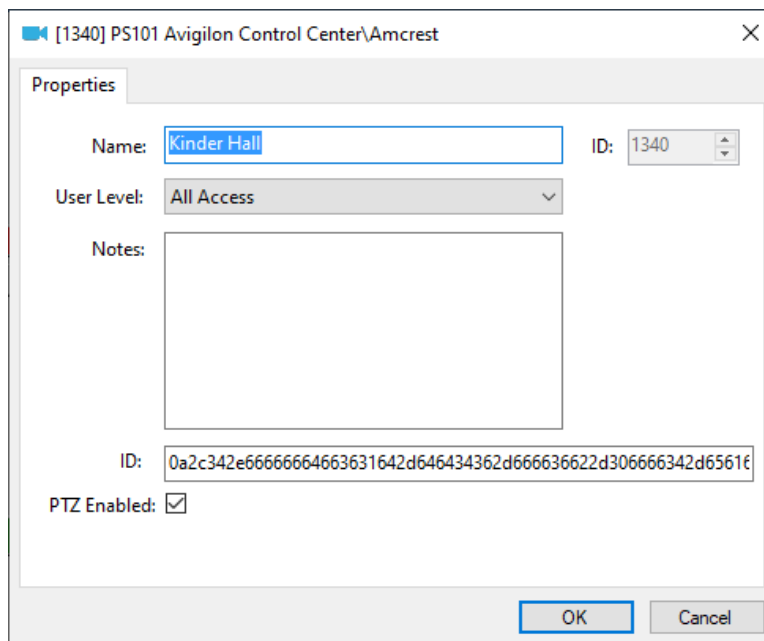


Figure 43 - Camera node Properties dialog

In addition to the standard properties of **Name**, **ID**, **User Level**, and **Notes**, the following fields are present.

ID – edit box; the ID of the camera

PTZ Enabled – check box; check this box when the camera is a PTZ camera

Avigilon Control Center Panel Guide

Presets

Every camera has a **Presets** child node. It is only applicable to PTZ cameras because only PTZ cameras have preset positions. Intelli-Site loads all of the presets from Avigilon Control Center if there are any defined and adds them as preset nodes. These nodes will then be used in  **Video View** to set the camera to the specified preset. It can also be used in  **Live View** to do the same thing.

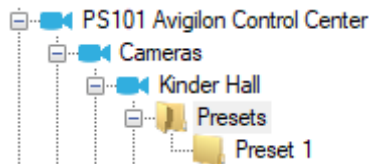


Figure 44 - Presets for the Kinder Hall camera

Presets are used in  **Video View** and  **Live View**.  **Video View** is simple and straight forward.  **Live View** requires some programming in  **Design View**.

Preset Node Properties

Each Preset node is a GenProto node. A GenProto node is an I/O Point with additional fields that can be used generically; hence, the name GenProto, generic protocol node.

Avigilon Control Center Panel Guide

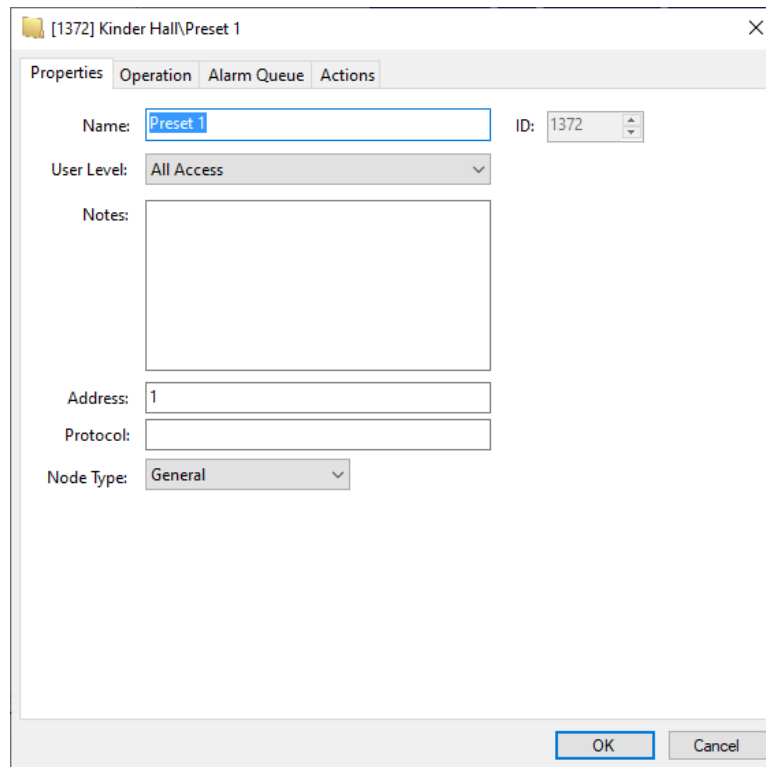


Figure 45 - Preset node properties dialog

The fields that define the specific preset are the **Address** and **Node Type** fields. The value for **Node Type** defines this node as a preset node. The **Address** is the address of the preset as defined by the Avigilon Control Center. Do not modify these fields. Doing so will render them useless. Intelli-Site loads the presets automatically.

For more detailed information on the GenProto node, see the Intelli-Site User's Guide.

Using Presets in Video View

For  **Video View**, select the target camera. Hover over the camera in the **Select Camera** drop-down menu to open the side menus. This will reveal the presets. Click on the desired preset to send the command to the camera.

Avigilon Control Center Panel Guide



Figure 46 - Example Camera Presets in  Video View

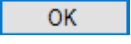
Using Presets in Live View

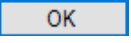
To use a preset in  **Live View** requires a bit of programming in  **Design View**. When the preset node is the target of a *SendCommand*, the Avigilon Control Center driver sends the preset request to the Avigilon Control Center. This command can be in any action grid that allows a *SendCommand*. To illustrate, let's program a button.

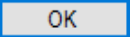
First, a video display screen object must be added to the Project. This may seem like a redundant statement because why wouldn't there be a video display? The user is most likely viewing the video stream when there is a need to send the camera to a preset. In fact, the video display object was probably added using the [Programming](#) section from [Streaming Video](#). This video display screen object is used in the programming of the button.

The button needs three commands. The first command is to set the live video object. The second is the preset command. And the third is the warm fuzzy so the user has feedback that the button was pressed.

Avigilon Control Center Panel Guide

Add a button to the screen using the  *Create Button* tool. Open the properties of this new button and switch to the **States** tab. In the action grid, click on the first cell in the **Action** column. The **Actions** dialog opens. Locate the **LiveVideo** command in the **Video** group. Click on it then click . Then drag and drop the video display screen object node from the Project Tree into the **Target** cell. To find this node in the Tree, expand **Screen Control->Screens** and its child nodes until you find the desired video display screen object.

Now, click on the **Action** cell of the second row of the action grid. In the lower right side of the **Actions** dialog is the **Panel** group of actions. Click on *SendCommand* then click . Then drag and drop the preset node in the **Target** cell.

And last but not least, add a third line to play a sound so the user gets feedback to know the button was clicked. A label would also be nice. Click  to save the programming.

Avigilon Control Center Panel Guide

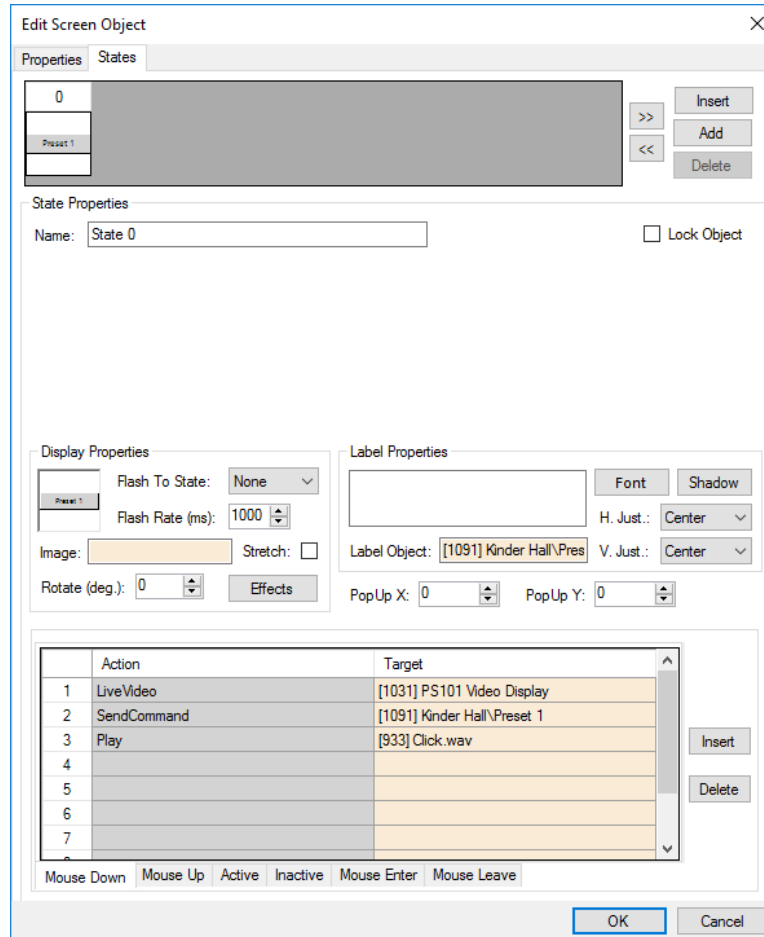


Figure 47 - Programming using Preset node

Now, in  **Live View**, when this button is clicked, the camera will be sent to the **Kinder Hall\Preset 1** preset.

Alarms

Each camera has a set of alarms specific to the camera.

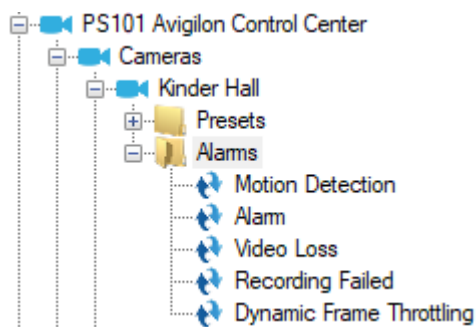
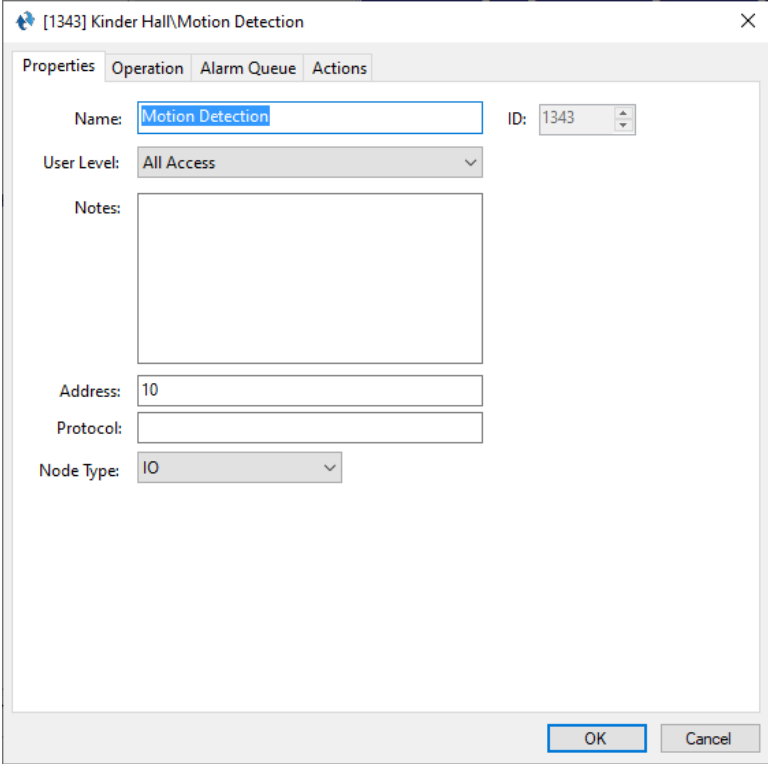


Figure 48 - Camera Alarm nodes

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When the panel detects any of these alarm conditions, it will send a message to driver. The driver will set the corresponding alarm point.

Each Alarm node is a GenProto node. A GenProto node is an I/O Point with additional fields that can be used generically; hence, the name GenProto, generic protocol node.



The screenshot shows a dialog box titled "[1343] Kinder Hall\Motion Detection". It has four tabs: "Properties", "Operation", "Alarm Queue", and "Actions". The "Properties" tab is active. The fields are as follows:

- Name:** Motion Detection (text box)
- ID:** 1343 (spin box)
- User Level:** All Access (dropdown menu)
- Notes:** (empty text area)
- Address:** 10 (text box)
- Protocol:** (empty text box)
- Node Type:** IO (dropdown menu)

At the bottom right are "OK" and "Cancel" buttons.

Figure 49 - Camera Alarm node Properties dialog

The fields that define the specific alarm are the **Address** and **Node Type** fields. The value for **Node Type** defines this node as an IO Point node. The **Address** is the address of the type of alarm as defined by the Avigilon Control Center. Do not modify these fields. Doing so will render them useless. Intelli-Site loads the alarms automatically.

For more detailed information on the GenProto node, see the Intelli-Site User's Guide.

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Alarms Node

The alarms for the Avigilon Control Center are located under the **Alarms** node. When the alarm condition for the panel is met, an event is sent to the driver who will then set the corresponding alarm point.

The **Panel Status** point is the only point not set based on an event from the panel. This point is high when the panel is offline (assuming the driver is online, and the panel is not virtualized). The point is low when the panel is online.

Each Alarm node is a GenProto node. A GenProto node is an I/O Point with additional fields that can be used generically; hence, the name GenProto, generic protocol node.

The screenshot shows a Windows-style dialog box titled "[1334] PS101 Avigilon Control Center\Stopped". It has four tabs: "Properties", "Operation", "Alarm Queue", and "Actions". The "Properties" tab is selected. Inside the dialog, there are several fields: "Name" with the text "Stopped", "ID" with the value "1334", "User Level" with a dropdown menu showing "All Access", "Notes" with a large empty text area, "Address" with the value "5", "Protocol" with an empty text box, and "Node Type" with a dropdown menu showing "IO". At the bottom right, there are "OK" and "Cancel" buttons.

Figure 50 - Panel Alarm node Properties dialog

The fields that define the specific alarm are the **Address** and **Node Type** fields. The value for **Node Type** defines this node as an IO Point node. The **Address** is the address of the type of alarm as defined by the Avigilon Control Center. Do not modify these fields. Doing so will render them useless. Intelli-Site loads the alarms automatically.

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Revision History

2025-11-21 Initial Creation