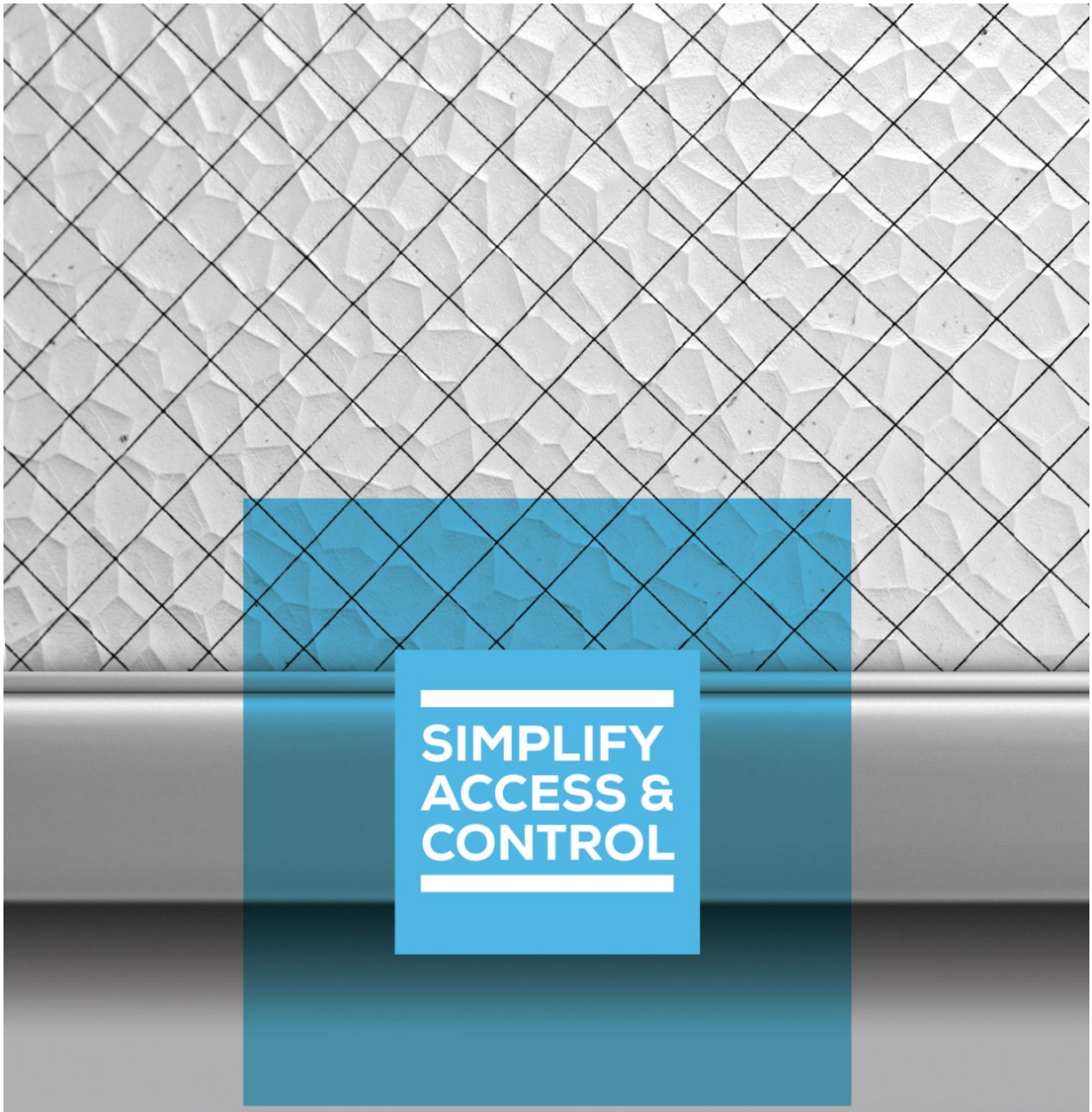

exacqVision NVR Panel Guide

Intelli-Site
Security Management Software

exacqVision NVR Panel Guide

For Windows 7 Professional and Ultimate,
Windows 8.1 Pro and Enterprise,
Windows 10 Pro and Enterprise,
Server 2008 R2, and Server 2012 R2

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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 Application Menu.
- Product License and SMA numbers used for registration.
- The type of computer being used including, operating system, processor type, speed, amount of memory, type of display, etc.
- Exact wording of any messages that appear 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 execute a System Information Report and export that report to Adobe .pdf format for transmission to Intelli-Site technical support staff.

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1 Introduction

The Intelli-Site exacqVision video integration uses the exacqVision SDK v1.32.3.107360. The Intelli-Site exacqVision NVR panel is the Intelli-Site software representation of an exacqVision NVR, referred to from here on out as an exacqVision NVR panel.

This guide explains using the exacqVision driver and exacqVision NVR panel with Intelli-Site.

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2 Installation

The exacqVision driver in Intelli-Site must be installed. No external software is needed.

If Intelli-Site has been installed without the exacqVision 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.

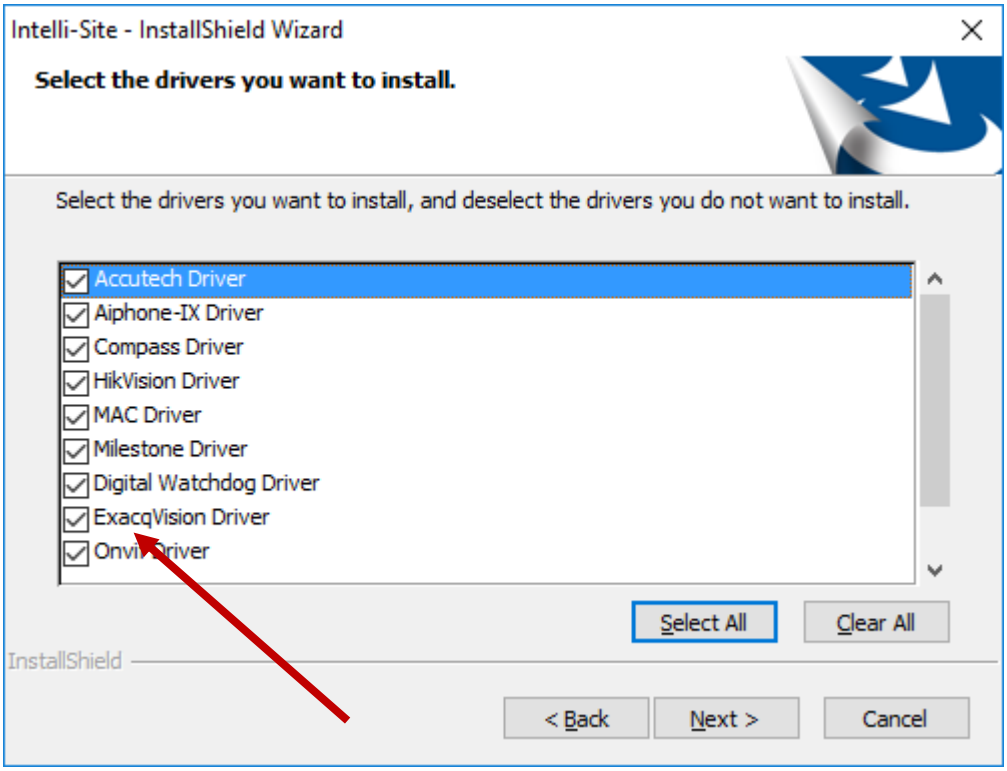

Figure 1 - Select the drivers you want to install

Ensure the **exacqVision Driver** option is checked then click Next > 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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3 Setup

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

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

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

3.1 Add an exacqVision driver

Adding an exacqVision driver is simple, but important. Without it, no communication with the exacqVision NVR 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 Menu and select .

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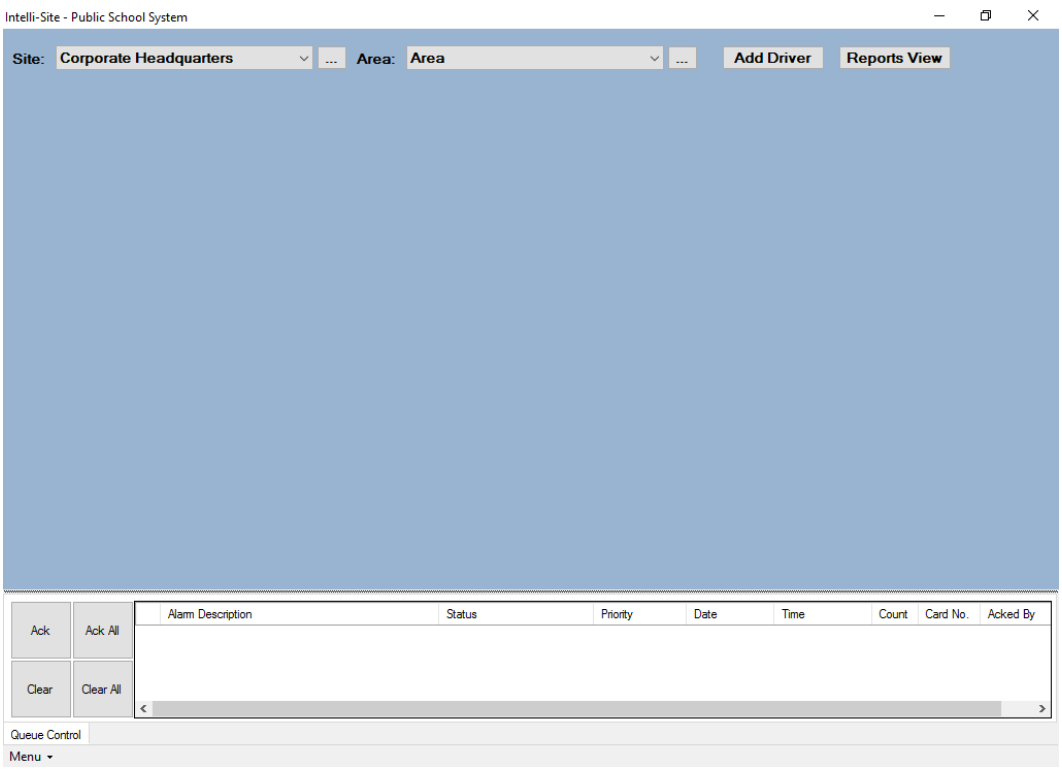

Figure 2 - Hardware Management View

To add the exacqVision driver, click **Add Driver**. The **Choose Driver Type** dialog displays.

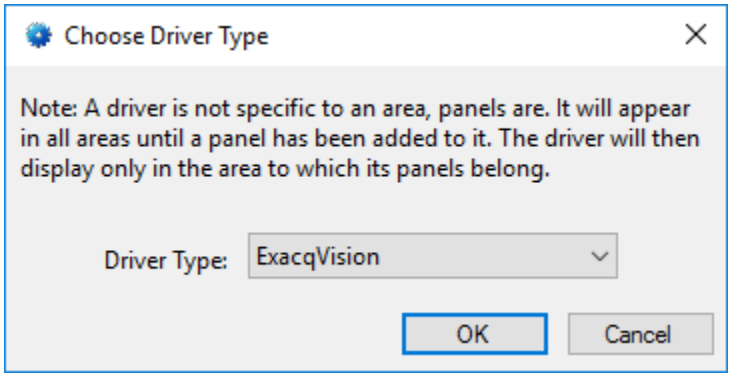

Figure 3 - Choose Driver Type Dialog

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

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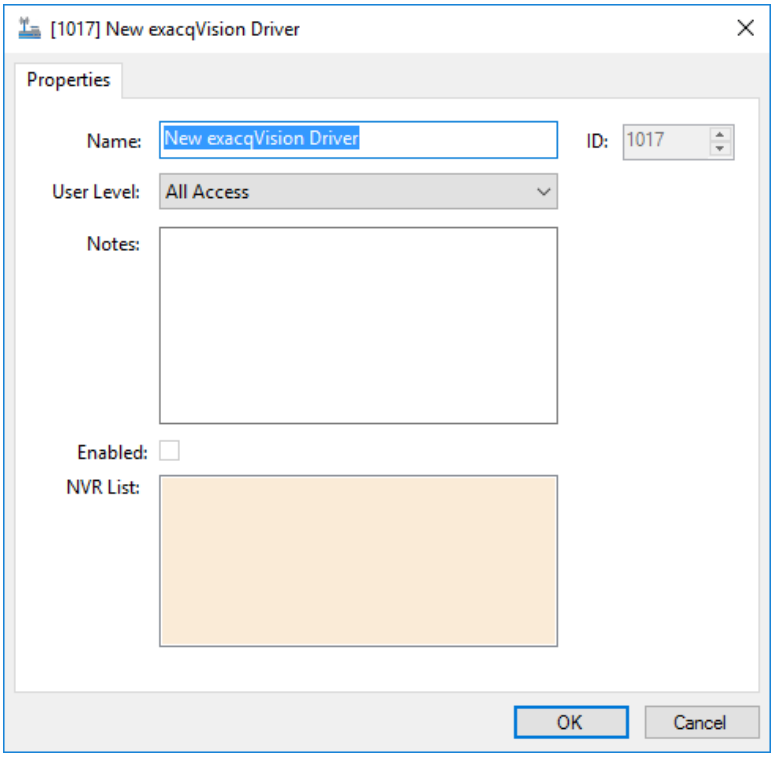

Figure 4 - exacqVision driver Properties Dialog

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

Note: For an explanation of all of the driver properties, see exacqVision driver Node.

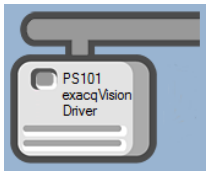

Figure 5 - exacqVision driver Icon

Now we need to add an exacqVision NVR panel to the exacqVision driver.

3.2 Add an exacqVision NVR Panel

Once an exacqVision driver has been added, it's time to add a exacqVision NVR panel to it.

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Right-click on the exacqVision driver and select *Add Panel*. The **Add Panel** dialog displays.

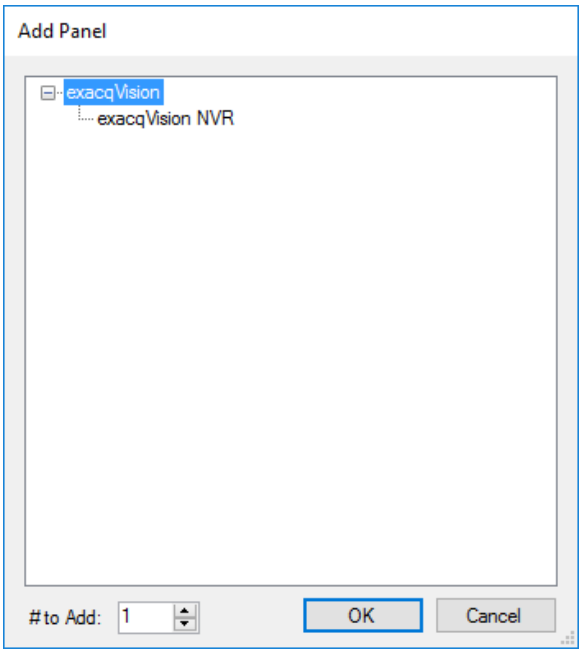

Figure 6 - Add Panel Dialog

Select *exacqVision NVR*. 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 exacqVision NVR** icon is added to the target exacqVision driver.

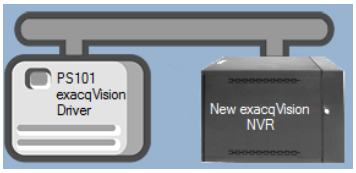

Figure 7 - exacqVision driver and a new exacqVision NVR panel

Next comes configuring the exacqVision NVR panel.

3.3 Configure the exacqVision NVR Panel

The exacqVision NVR 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 exacqVision NVR icon and select *Quick Config*.

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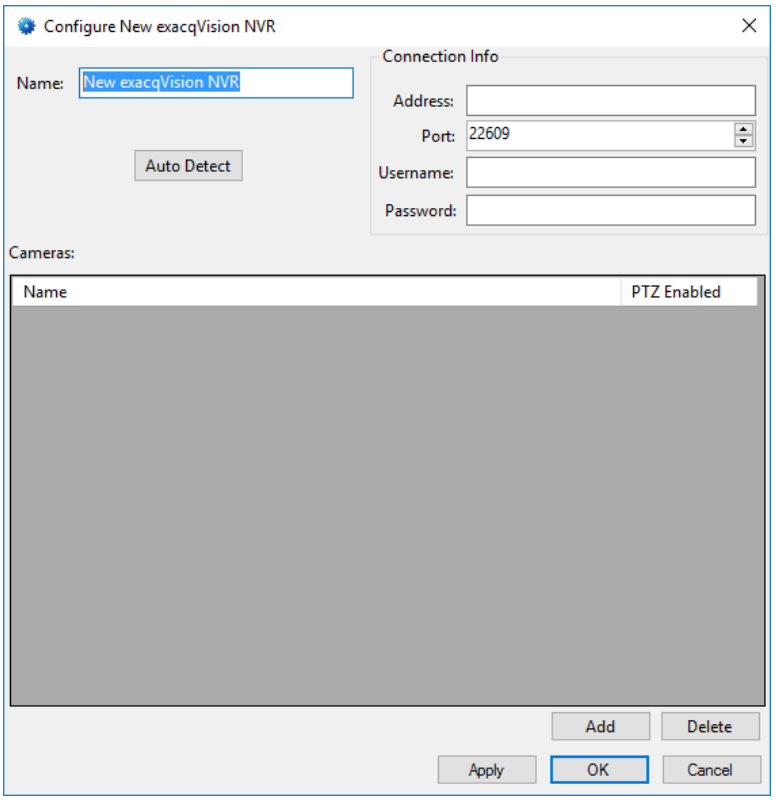

Figure 8 – exacqVision NVR Panel Quick Config Dialog

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

Set the **Address** to the panel address of the exacqVision NVR. This can be the IP address or the DNS address. Set the **Port**; 22609 is the default value for the exacqVision. Fill in the **Username** and **Password**. Then apply the new settings by clicking the Apply button.

There are two ways to add cameras. The first, and easiest way, is to click the Auto Detect button. Intelli-Site will query the exacqVision NVR for the list of cameras and populate the **Cameras** table.

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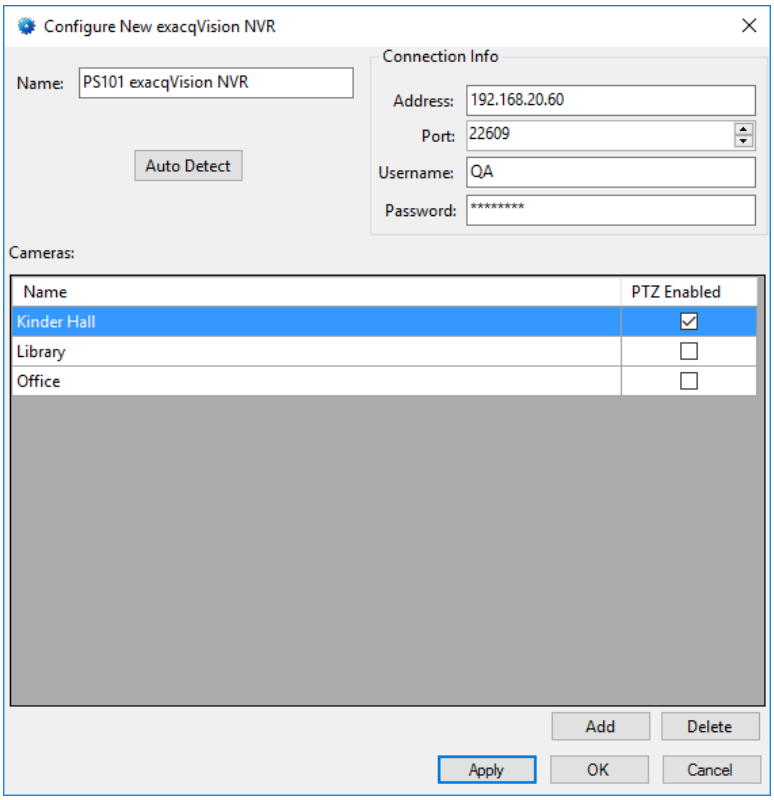

Figure 9 – Quick Config after auto detecting the cameras

The exacqVision NVR will tell Intelli-Site if a camera is PTZ enabled or not. Click Apply or OK to save the settings.

Note: Do not change the name of any of the cameras. The camera name is how exacqVision identifies the camera. If a camera is modified in exacqVision, Auto Detect to update the Cameras table.

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 name and port number for each camera.

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Click the Add button under the **Cameras** table. A new entry is added.

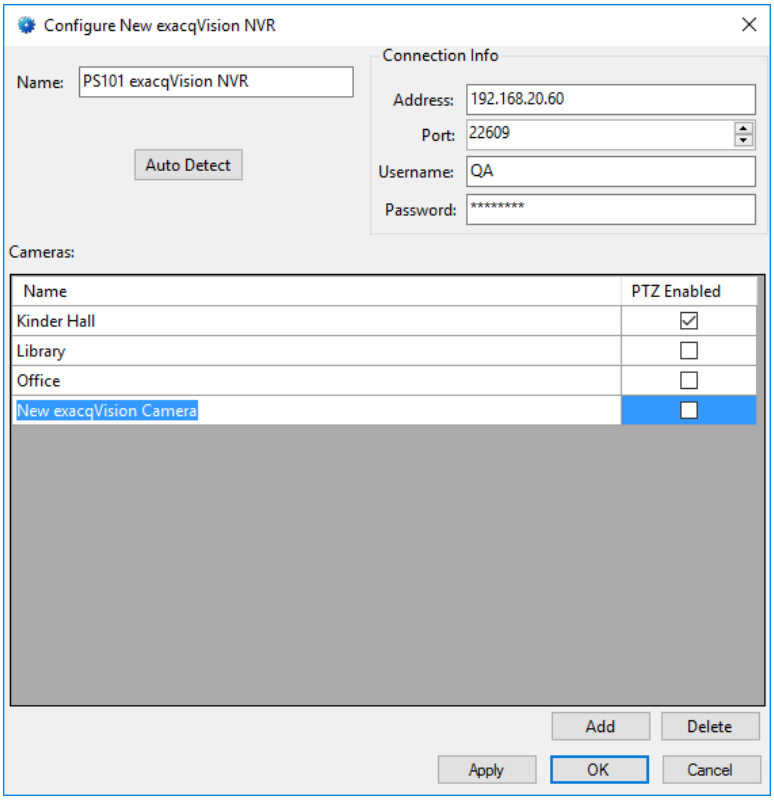

Figure 10 - Quick Config with a new camera added manually

In the **Name** cell, enter the camera's name as it appears in exacqVision. Check the **PTZ Enabled** check box if the camera is a PTZ camera.

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

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3.4 Enable the exacqVision driver

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

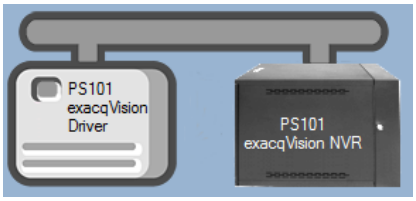

Figure 11 – Disabled exacqVision driver

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.

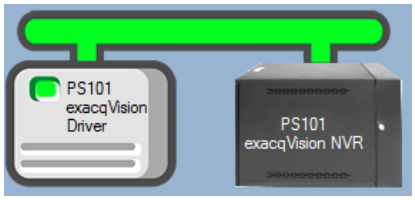

Figure 12 - Enabled exacqVision driver

Note: Live streaming of video does not require the Driver Service. The exacqVision driver must be enabled, but the Driver Service is not necessary. The Client initiates streaming connection.

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

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4 Streaming Video

Video from the exacqVision NVR can be viewed in **Video View** or **Live View**. **Video View** allows the user to stream live video as well as playback. See the Intelli-Site User's Guide for information on **Video View**. This section 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.

4.1 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.

The following walks you through

- Adding the counter to the Tree,
- Adding counter values to that counter,
- Adding a video display screen object and configuring it, and then,
- Adding counter value screen objects to trigger video streaming.

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4.1.1 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 OK. Expand the new **Counters** node to reveal the group node and the new counter.

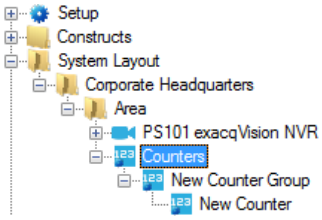

Figure 13- The expanded Counters node

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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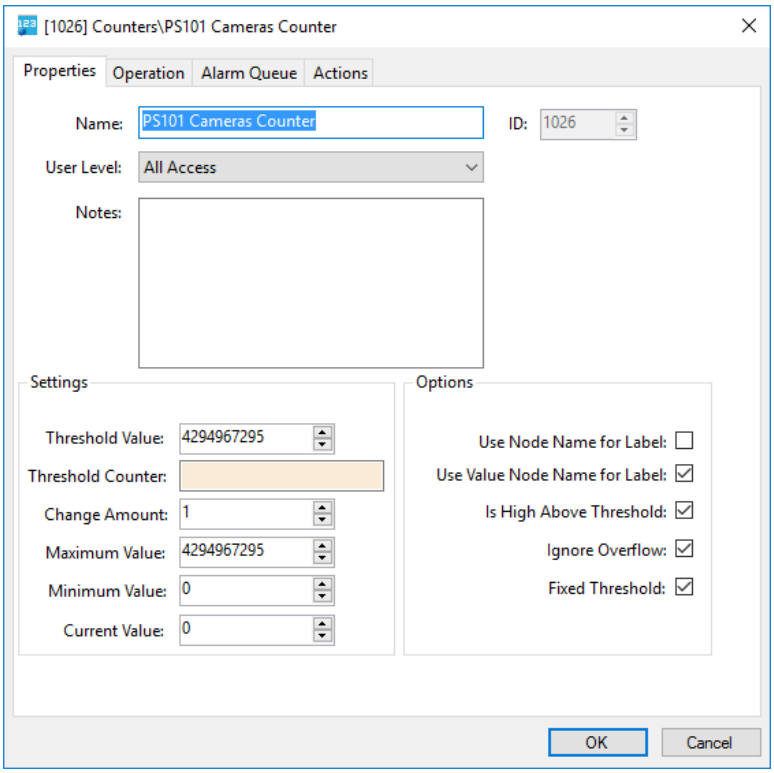

Figure 14 - Counter Properties Dialog

4.1.2 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 for Disconnect, the Kinder Hall, Office, and Library. Disconnect is special. This is the value of the counter when no camera streams are to be 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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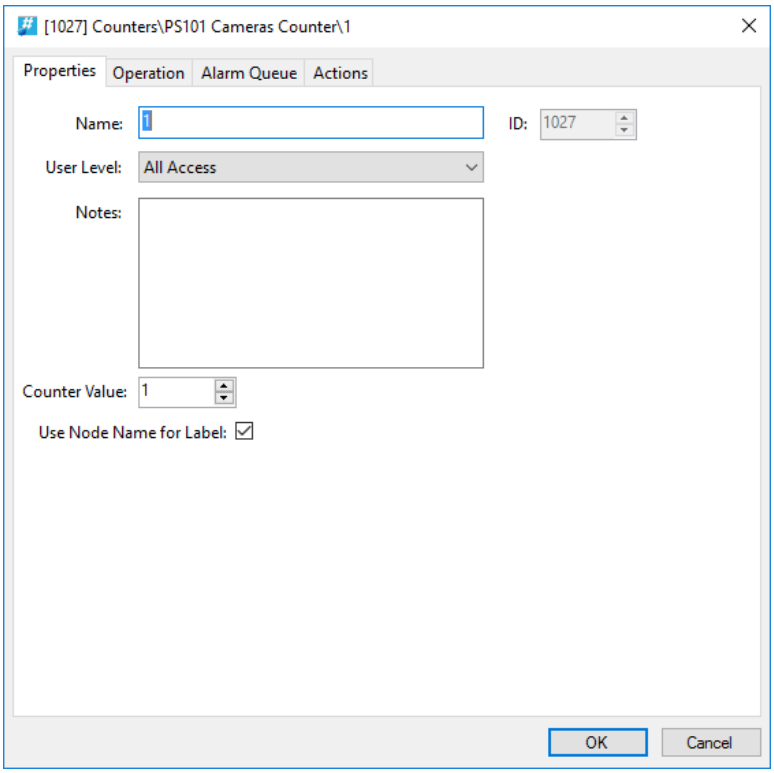

Figure 15 - Counter Value Node Properties dialog

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…*

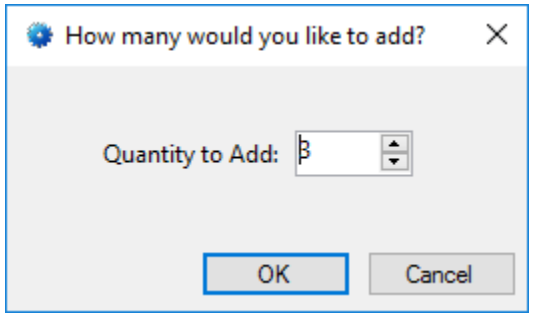

Figure 16 - How many would you like to add? dialog

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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 OK button.

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

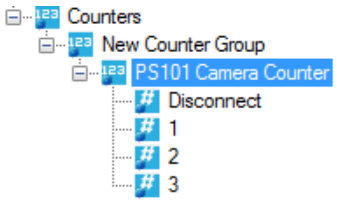

Figure 17 - The New Counter Value Nodes

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

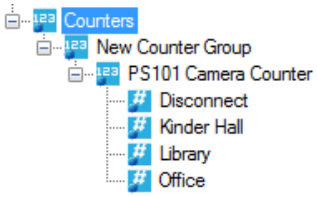

Figure 18 - The properly configured Counter Value Nodes

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

4.1.3 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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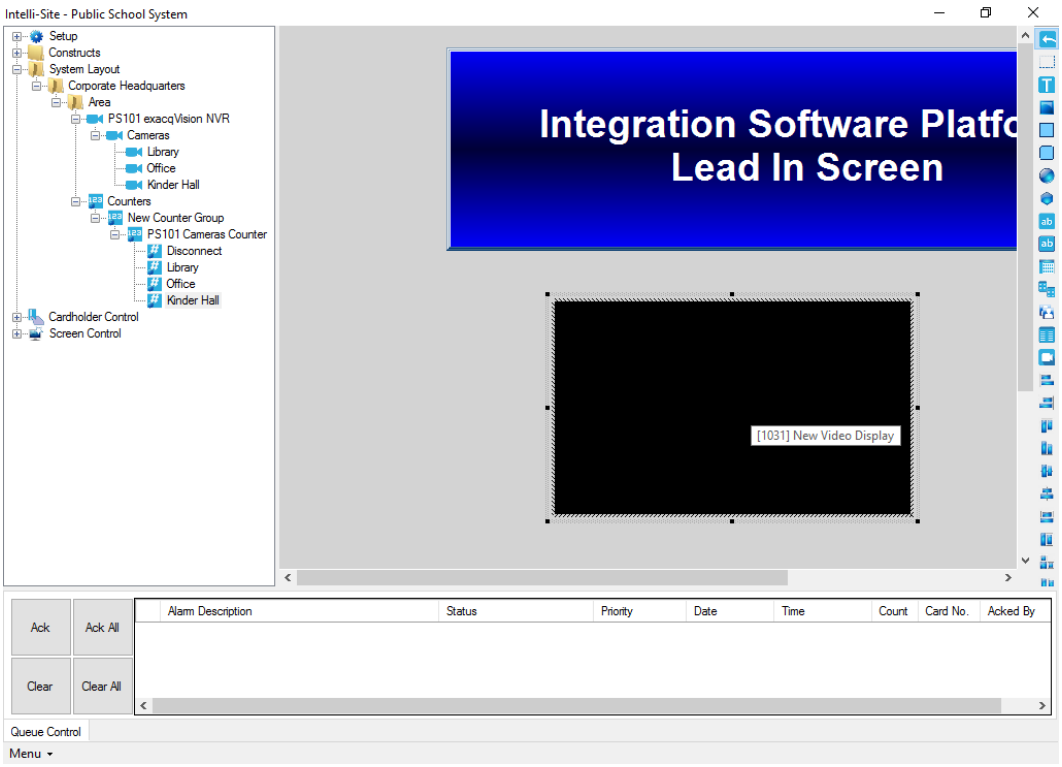

Figure 19 - Video Display Screen Object

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

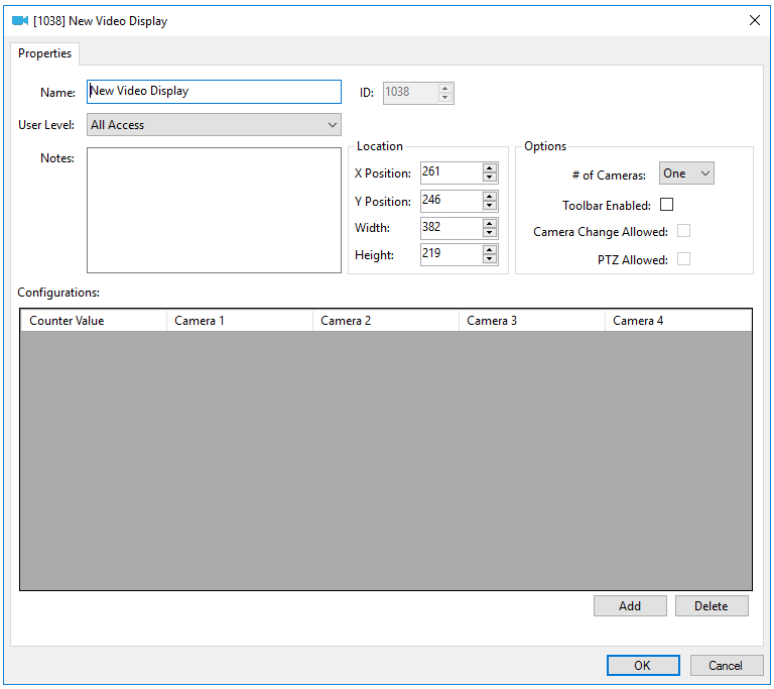

Figure 20 - Video Display Properties Dialog

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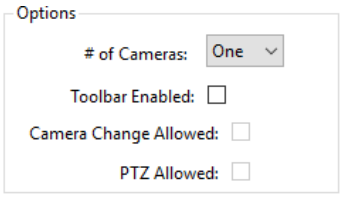
Change the **Name** field to describe the purpose of this video display.

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.

4.1.3.1 Options Group Properties

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



# 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* cameras 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 the height is the longer dimension, the Camera 1 will be on top and Camera 2 will be on bottom. If the width is longer, 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

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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

4.1.3.2 Configurations Table

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

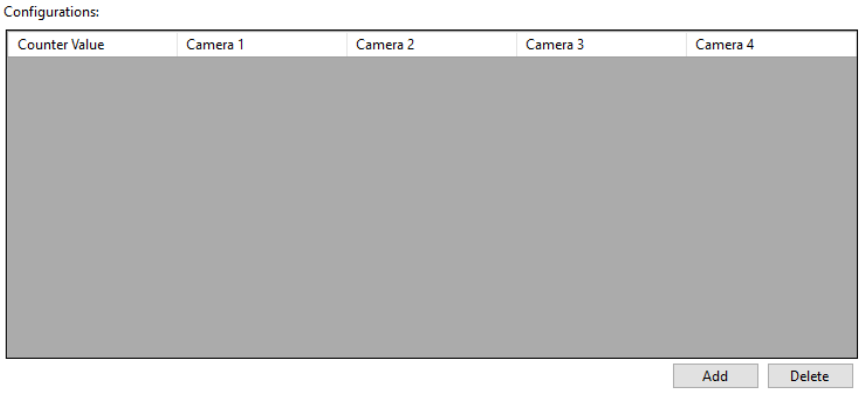
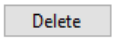


Figure 21 - Configurations Table

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.

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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 Add 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.

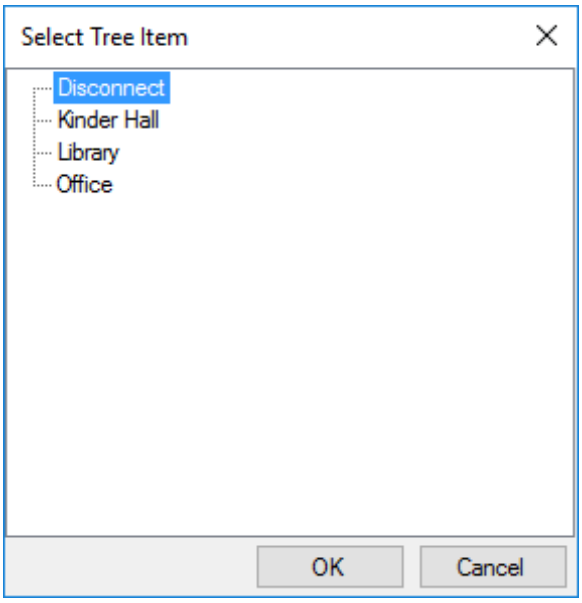

Figure 22 - Select Tree Item dialog for Counter Values

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 OK.

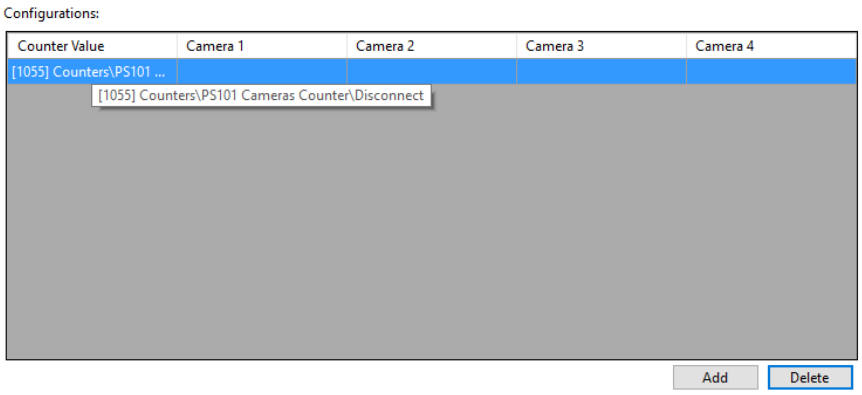

Figure 23 – Configurations Table with the Disconnect definition

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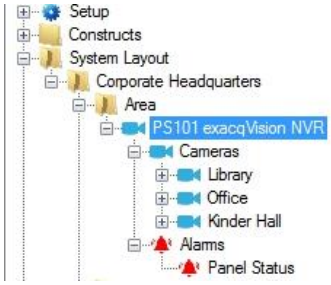
Click Add again. Click in the **Counter Value** cell of the new line. The **Select Tree Item** dialog appears with all of the counter values in the Tree. Select the counter value that you want to use for the next camera configuration then click OK. Drag and drop the corresponding camera into the **Camera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

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



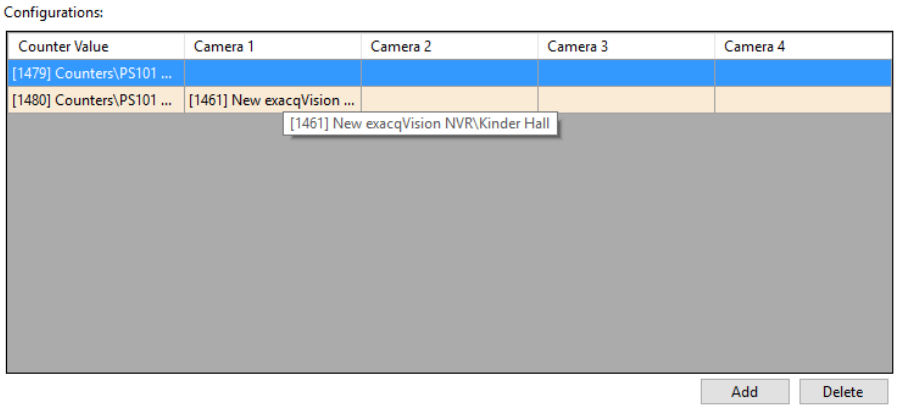


Figure 24 - Configurations Table with Two Lines

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

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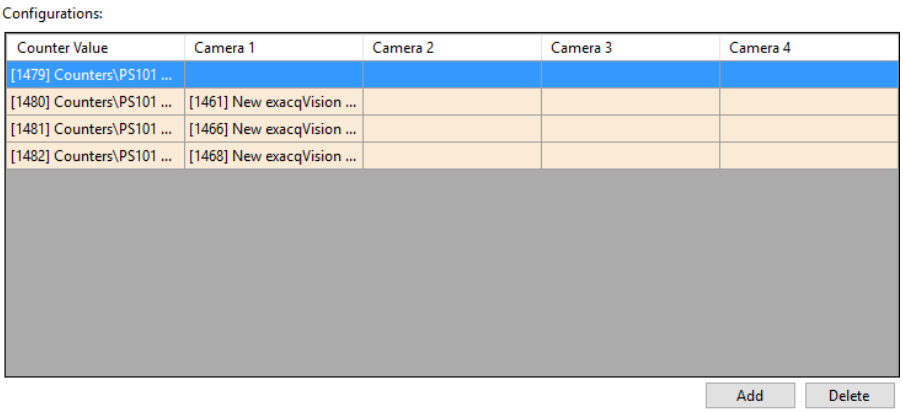

Figure 25 - Example Configurations Table

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

4.1.4 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.***

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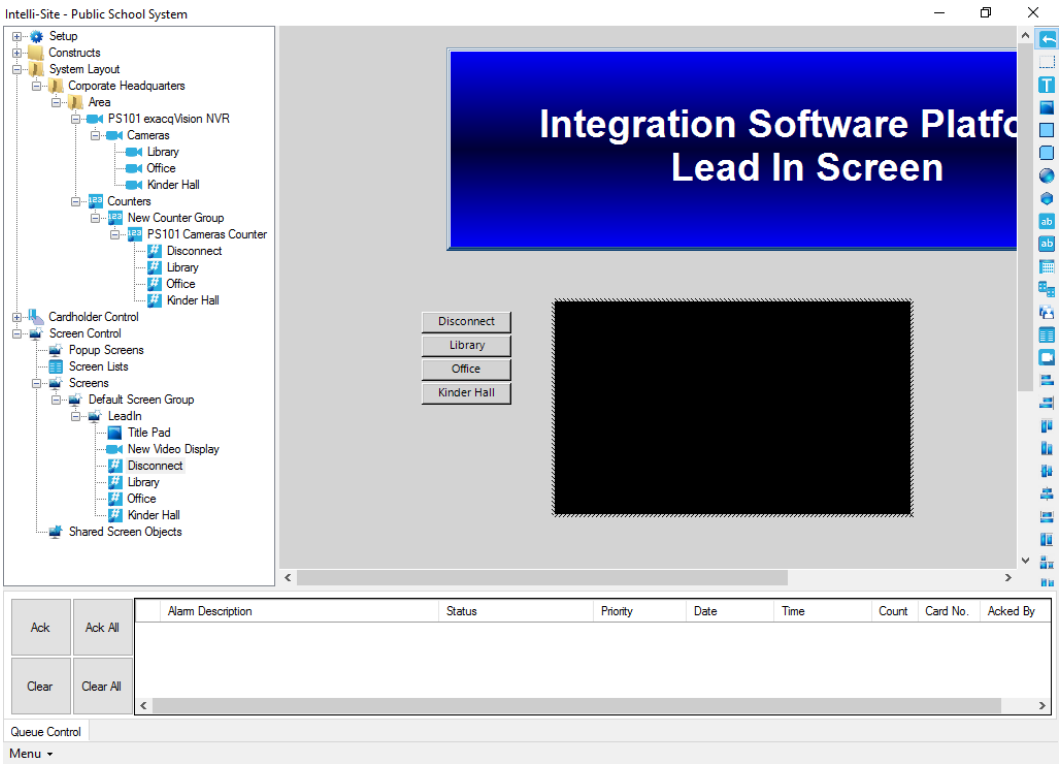

Figure 26 - Design View fully programmed

4.2 Live View

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

Note: ***The exacqVision driver must be enabled for video to display. See Enable the exacqVision driver.***

Click on the button to display the desired video stream.

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Figure 27 - Live View displaying video from Office

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5 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 exacqVision driver node properties,
- The exacqVision NVR node properties, and
- The programming needed to stream video in **Live View**

5.1 exacqVision Driver Node

The exacqVision driver node is found by expanding **Setup->Computer Setup->Drivers**.

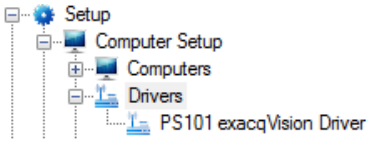

Figure 28 - exacqVision driver node in the Project Node Tree

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

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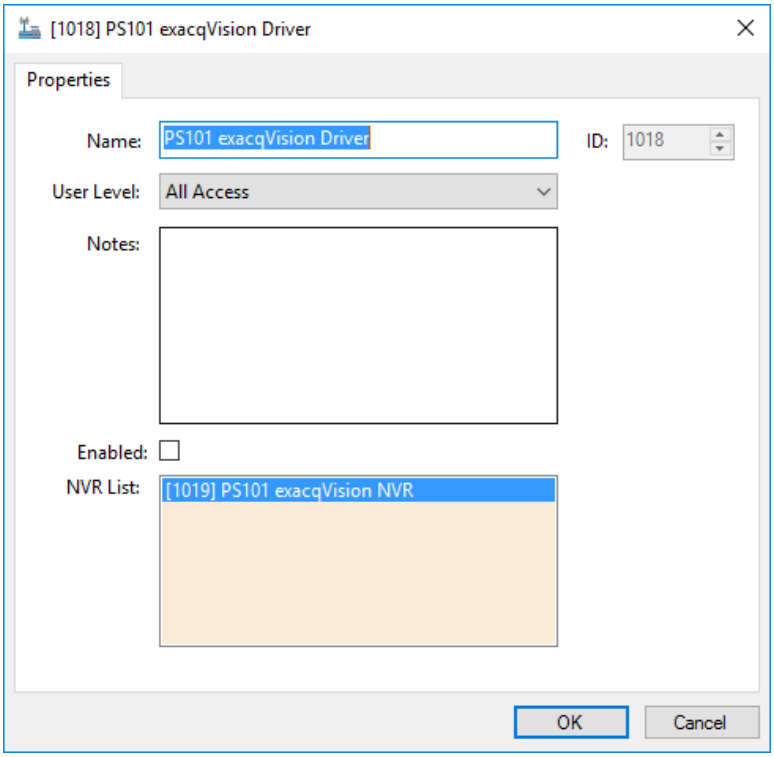

Figure 29 - exacqVision driver properties dialog

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

NVR List- drop box; the exacqVision NVR nodes attached to this driver

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5.2 exacqVision NVR Panel

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

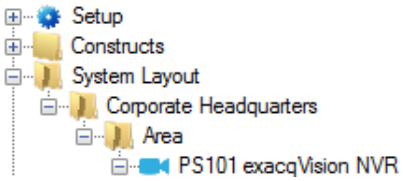

Figure 30 - The exacqVision NVR panel node in the Project Node Tree

The exacqVision NVR node is the root node for the panel. The following sections will explain:

- The properties of the exacqVision NVR node
- The configuration of the exacqVision NVR panel (a.k.a. **Quick Config** dialog)
- The child nodes of the exacqVision NVR panel

5.2.1 exacqVision NVR Node Properties

Right-click on the exacqVision NVR 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 exacqVision NVR, but are related to how Intelli-Site handles the node.

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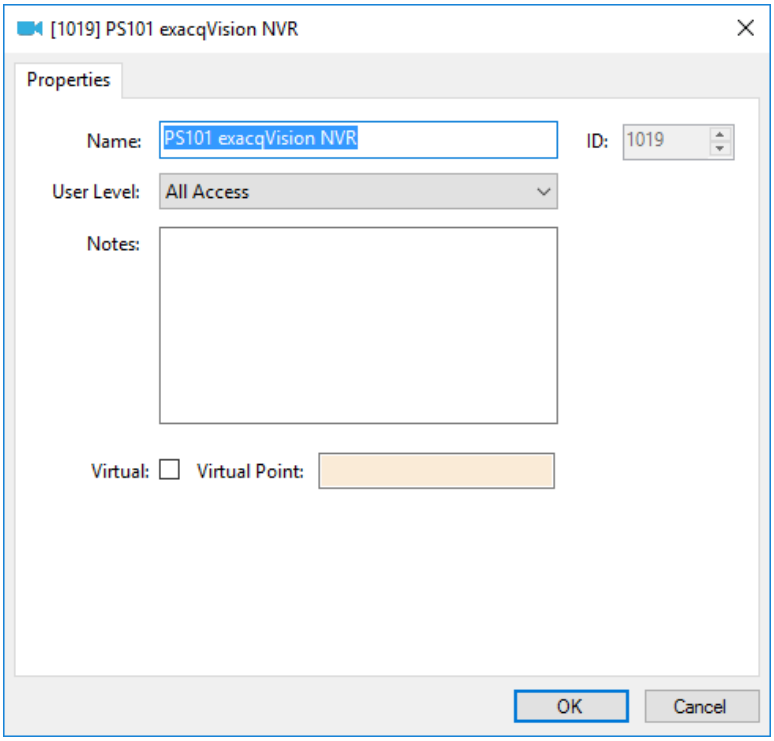

Figure 31 - exacqVision NVR node properties dialog

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

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5.2.2 exacqVision NVR 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 exacqVision NVR panel node and select *Quick Config*.

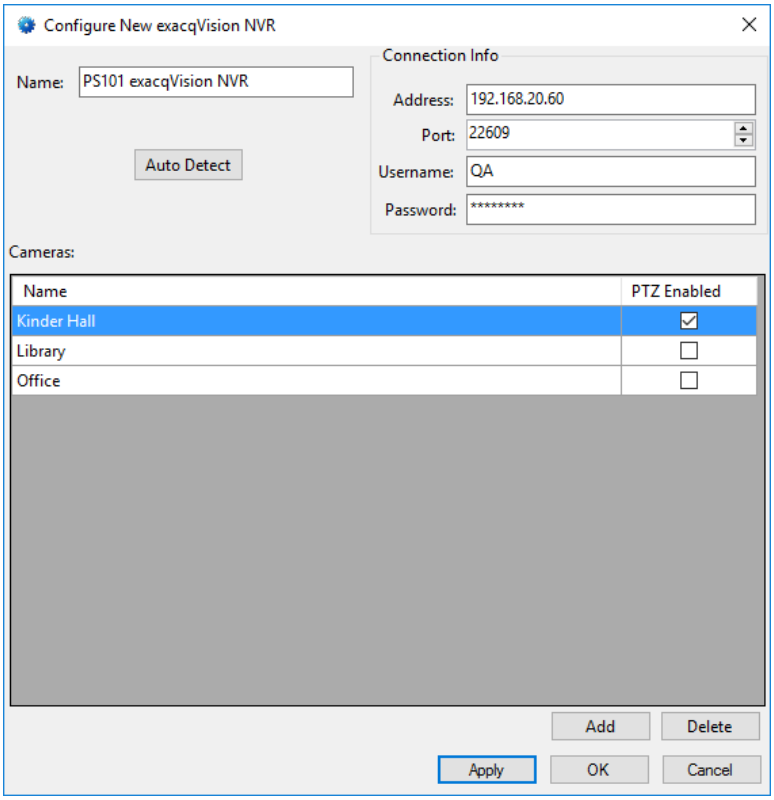

Figure 32 - exacqVision NVR panel Quick Config dialog

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

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

Port – numeric (default 7001); the TCP port of the exacqVision NVR; exacqVision uses 7001 as its default value, but it is configurable

Username and **Password** – edit box; the login credentials of the exacqVision NVR

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Auto Detect - button; used to find the cameras of the exacqVision NVR panel

Cameras – table; the cameras of the exacqVision NVR panel; lists the name and if PTZ is enabled

Note: Do not change the name of any of the cameras. The camera name is how exacqVision identifies the camera. If a camera is modified in exacqVision, use Auto Detect ***to update the*** *Cameras* ***table.***

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

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

5.2.3 exacqVision NVR Panel Child Nodes

Each exacqVision NVR panel node has two child nodes: **Cameras** and **Alarms**.

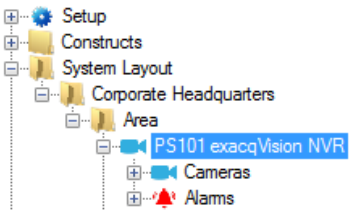

Figure 33 - exacqVision NVR panel child nodes

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. At this time, there is only one alarm point: **Panel Status**.

5.2.3.1 Camera Node

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

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Figure 34 – exacqVision NVR Camera node and its child node

5.2.3.1.1 Camera Node Properties

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

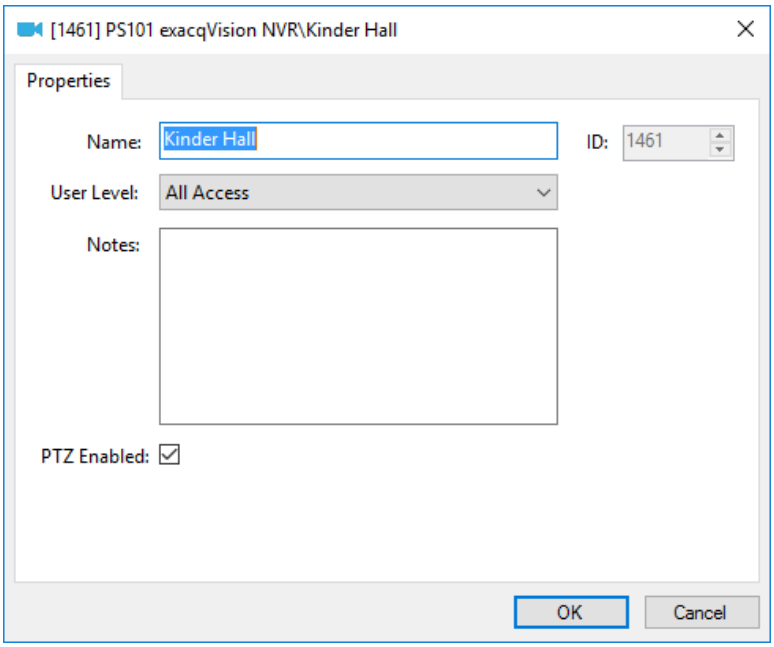

Figure 35 - Camera node Properties dialog

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

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

5.2.3.1.2 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 exacqVision 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.

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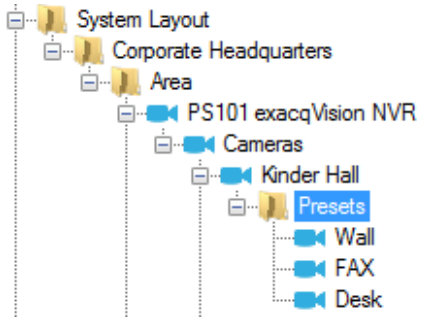

Figure 36 - Presets for the Kinder Hall camera

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

5.2.3.1.2.1 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.

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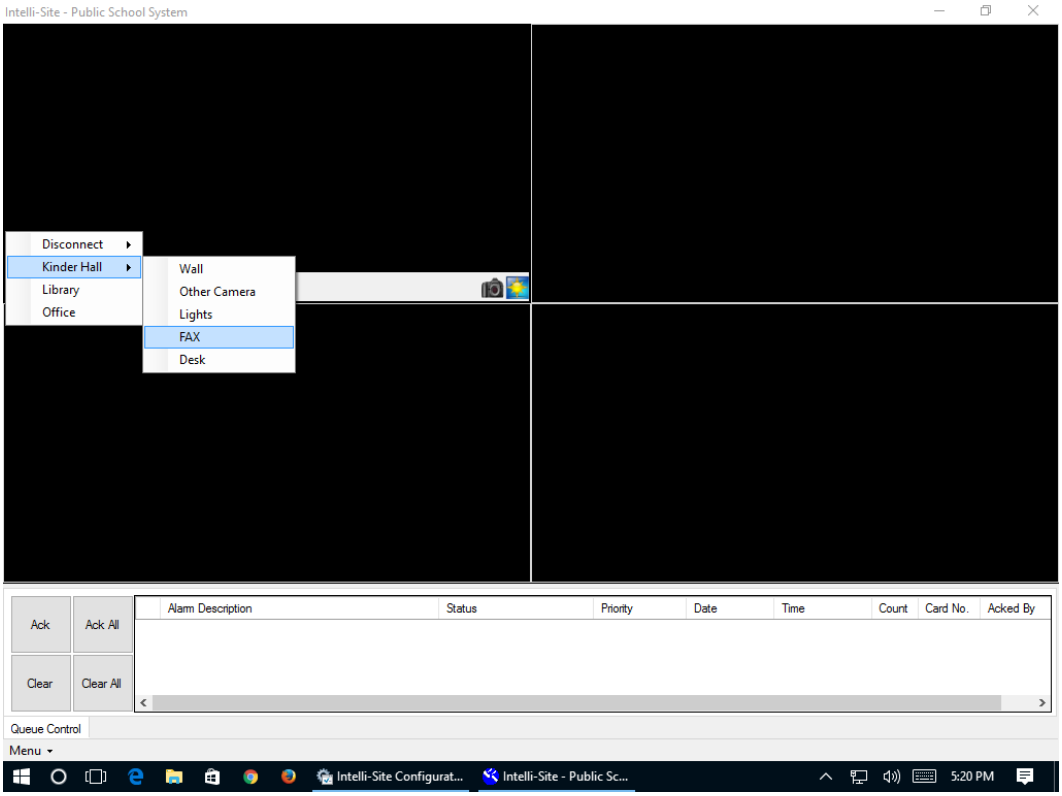

Figure 37 - Example Camera Presets in Video View

5.2.3.1.2.2 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 exacqVision driver sends the preset request to the exacqVision NVR. 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.

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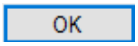
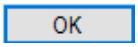
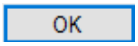
The button needs three commands. The first command is to set the live video object. The second is the preset command. And the third is the warm fuzzy so the user has feedback that the button was pressed.

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.

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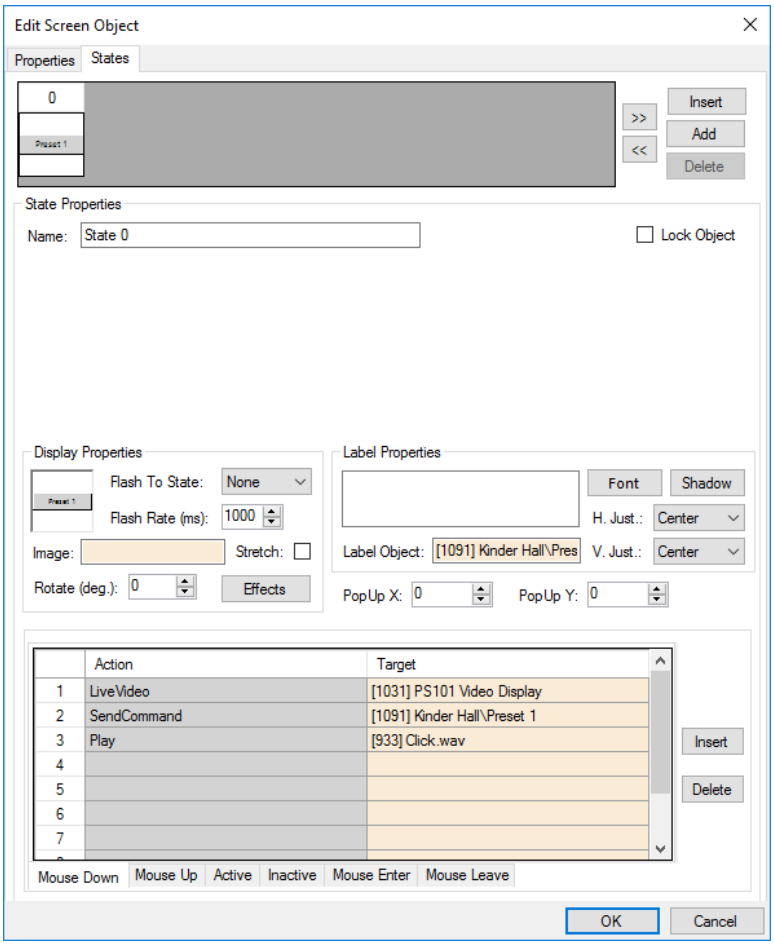

Figure 38 - Programming using Preset node

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

5.2.3.2 Alarms

At this time the **Alarms** node is a placeholder for future growth. No alarms are reported by Intelli-Site because the exacqVision NVR implementation does not maintain a connection to the panel, nor does it receive any alarms or events from it.

The alarms for the exacqVision NVR are located under the **Alarms** node. There is only one, **Alarm Status**. 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. Like the other points of the exacqVision NVR panel, this point is a GenProto node.

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Revision History

2017-06-22 Initial Creation

2017-07-14 Updated screen captures because the node name was not properly displayed in the properties dialog and dropboxes

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