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Documentation

Pelco DigitalSENTRY RTU Guide

Version 3.9.x

Intelli-Site

Security Management Software
Pelco DigitalSENTRY RTU Guide

PC Software RTU Interface Guide
For Windows 7 SP1, 2008 R2 SP1, XP SP3 & 2003 SP2

Version 3.9.x
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Section 1 – Introduction

This section describes the following:

- Overview
- Technical Support Assistance

Overview

The Pelco DigitalSENTRY RTUs (Receiver/Transmitter Units) are the Intelli-Site software representations of the Pelco DigitalSENTRY Network Video Recorders (NVR). For purposes of this document, the term RTU is synonymous with a Pelco DigitalSENTRY NVR.

Technical Support Assistance

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Technical Support

Technical support is available via Telephone, Fax or Email. Contact OSSI Technical Support 8:00 AM to 5:00 PM Central Standard time. If calling after hours, please leave a detailed voice mail message, and someone will return your call as soon as possible.

E-Mail: support@ossi-usa.com
Fax: 262-522-1872 (Attention Technical Support)
Local: 262-522-1870

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 Menu Application Bar.
- Product serial number 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?

Section 2 - Important Installation and Setup Notes

Prior to use of the Pelco DigitalSENTRY NVR features, the Pelco DigitalSENTRY driver component must be installed with the Intelli-Site installer.   This driver is required in order for the Pelco DigitalSENTRY functionality within Intelli-Site to function.   The Microsoft .NET Framework 3.5 SP1 must be installed on versions of Windows prior to Windows 7, and is not included in the Intelli-Site software install package. The .NET Framework 3.5 SP1 must be installed before the Intelli-Site driver for Pelco DigitalSENTRY will install.

Pelco DigitalSENTRY NVR units need to be installed with DigitalSENTRY software version 7.4.149 or later. Visit the Pelco website to download the updated version. Contact Pelco for information or for assistance upgrading.

This Pelco DigitalSENTRY driver has been developed with and tested on only DigitalSENTRY hardware, but other types of Pelco NVR/DVR hardware MAY function with this driver.

Other hardware:

- **Pelco DS DataPoint**
- **Pelco DVX Series**
- **Pelco 4000 Series**
- **Pelco 8x00 Series**
- **Pelco 4600 Series**
- **Pelco Endura Series**

Section 3 - Pelco DigitalSENTRY NVR Setup (Design Mode)

This section discusses the setup of Pelco DigitalSENTRY NVRs in the project in Graphic Design mode.

Adding NVR Nodes

Pelco DigitalSENTRY NVR nodes reside under a parent Area node. This Pelco DigitalSENTRY NVR node must be added first (see figures below):
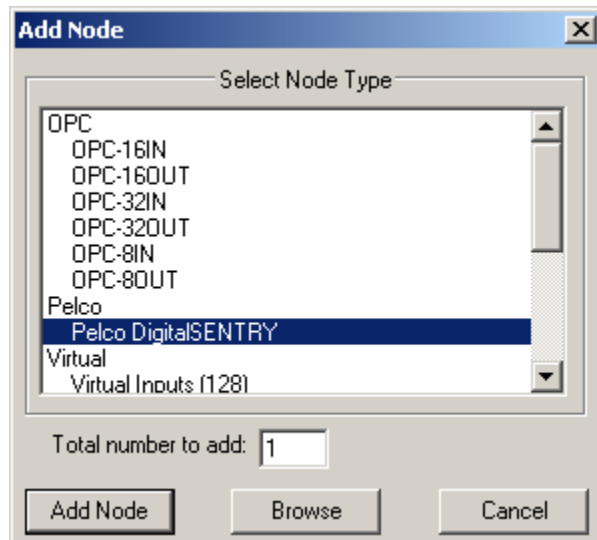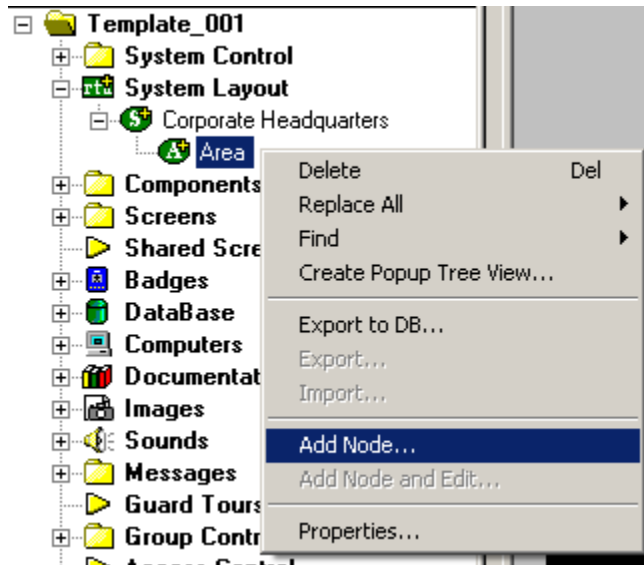
As displayed, the first step is to add a 'Pelco DigitalSENTRY' node from the list in the 'Add Node' dialog.
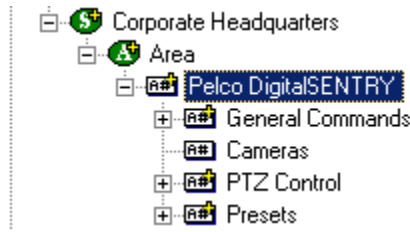
Configuring the NVR Node

After a NVR node has been added under the 'Pelco DigitalSENTRY' node, it needs to be configured. This is accomplished by selecting the properties of the NVR node:

Select the 'Settings' tab. Fill out the following required information:

Pelco DVR/NVR Login

Hostname or IP: This is the DNS hostname or IP address of the Pelco DigitalSENTRY NVR.

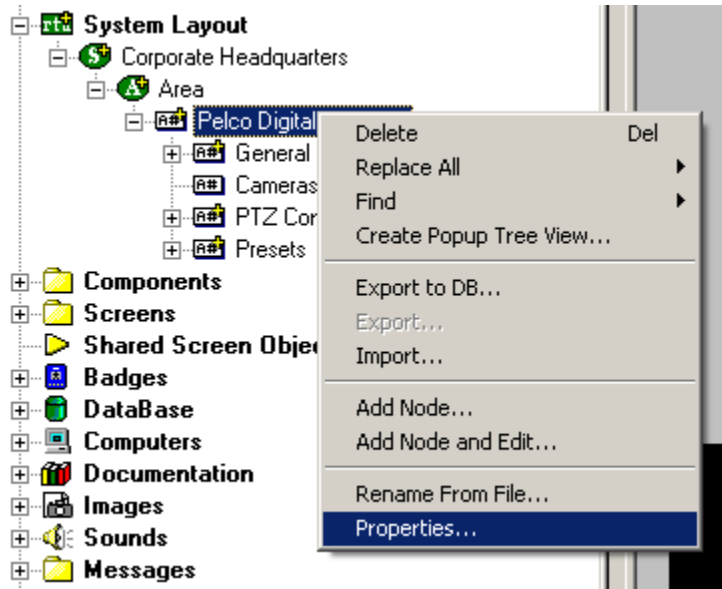**Port**: This is the port to connect to the NVR. The default port is 18772.

Username: Login account username to the NVR. The user must have user rights for 'Configuration Viewer', 'Live Video', and 'PTZ User'. See the documentation for Pelco DigitalSENTRY software configuration for instructions.

Password: The login account password for the user entered above.

Get Cameras: Press this button after entering the login settings to import the NVR's cameras. The camera entries will be created and set up automatically.

Snapshot Settings

Output Folder: Enter the folder where video snapshots will be created. Snapshots will be created when a DigitalSENTRY camera or playback video is playing in a Video Display and the 'Take Snapshot' command is sent to the Video Display object. Filenames will be created in this folder as:

YYYY-MM-DD_HHMMSS {Camera Name}

The date is the date and time the 'Take Snapshot' command is sent to the 'Video Display' object.

Note that the camera's name for snapshots comes from the DigitalSENTRY NVR, not the camera name in the Intelli-Site project.

Image Format: This is the snapshot's output kind and file extension to use.
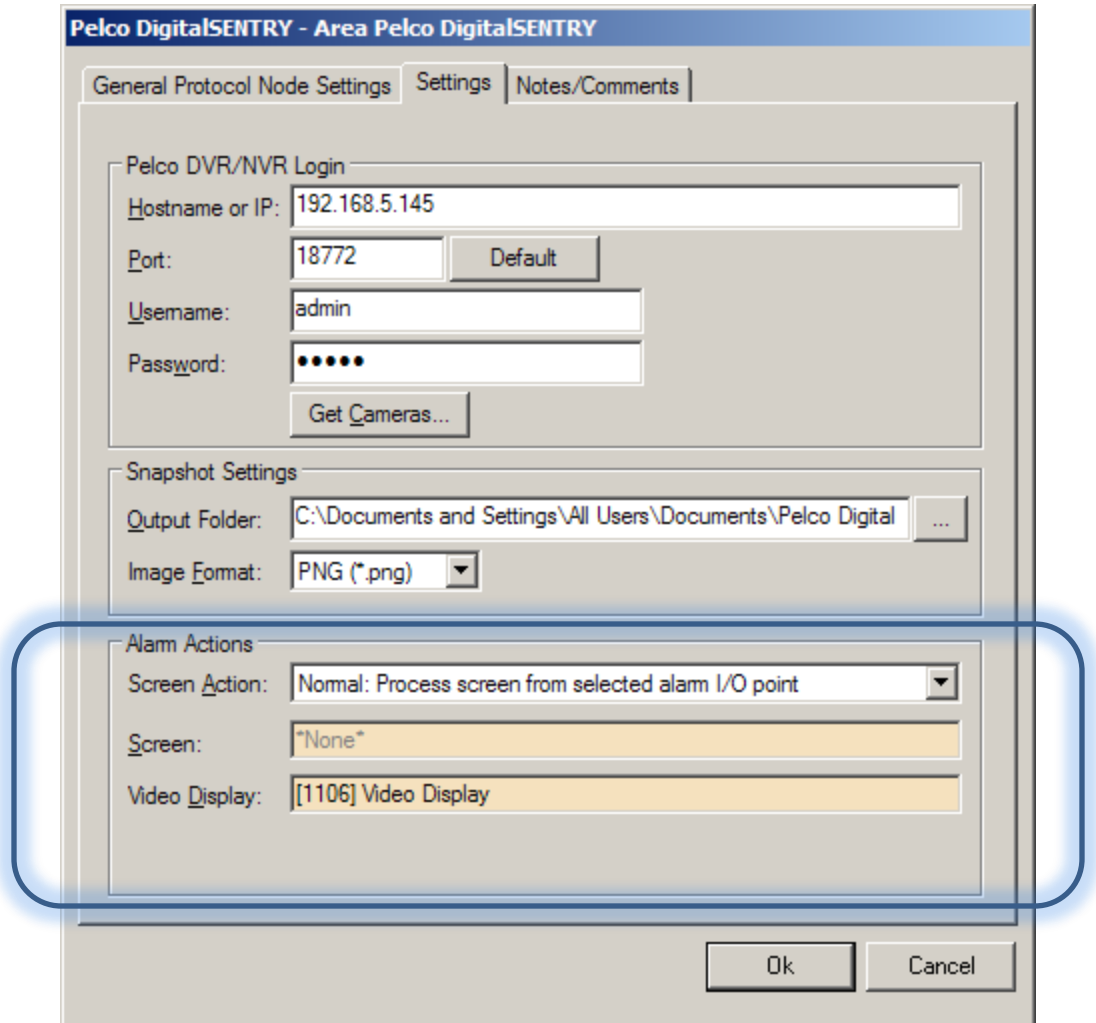
Alarm Actions

Screen Action: This is what happens when alarms in the alarm queue with a DigitalSENTRY camera are clicked or double-clicked.

> **(None)**: Don't do anything with screens, video displays, or cameras.

> **Normal**: When an alarm is selected in the alarm queue, and that alarmed I/O point has a DigitalSENTRY camera, the current screen will change to the 'Alarm Screen' on that same alarmed point. When the alarmed point is double-clicked in the alarm queue, the camera will then attach to the 'Video Display' object selected below in the Alarm Actions settings.

Display: Ignore the 'Alarm Screen' setting on the alarm I/O point, and change screens on a double-click of the alarm the 'Alarm Screen' and 'Video Display' set here below instead.

PopUp: Ignore the 'Alarm Screen' setting on the alarm I/O point, and double-click the alarm to pop-up the 'Alarm Screen' screen without a border, title bar, or close button. The camera will then attach to the 'Video Display' object set here.

PopUpDialog: Ignore the 'Alarm Screen' setting on the alarm I/O point, and double-click the alarm to pop-up the 'Alarm Screen' screen with a border, title, and close button. The camera will then attach to the 'Video Display' object set here.

Screen: The screen to use when an alarm I/O point is double-clicked for 'Display', 'PopUp', and 'PopUpDialog' actions set in the Screen Action box above.

Video Display: The video display object to use when the alarm I/I point is double-clicked for 'Normal', 'Display', 'PopUp' and 'PopUpDialog' actions set in the Screen Action box above.

Programming Examples

The following section describes some basic programming for Pelco DigitalSENTRY RTU functionality in Run Mode:

The first step in adding Pelco DigitalSENTRY RTU functionality is to create a Video Display Object. The Video Display Object is the display target for any Pelco DigitalSENTRY Video Channel (Camera). You can add as many Video Display Objects to a Screen as you need.

Add a Video Display to a Screen

In Design Mode, Drag-and-Drop a 'Video Display' object from the Components folder onto the screen.

Drag-and-Drop a 'Video Display' object from the Components folder onto the screen. You should modify the properties of the Video Display and give it a unique name as well as change its size and frame settings.
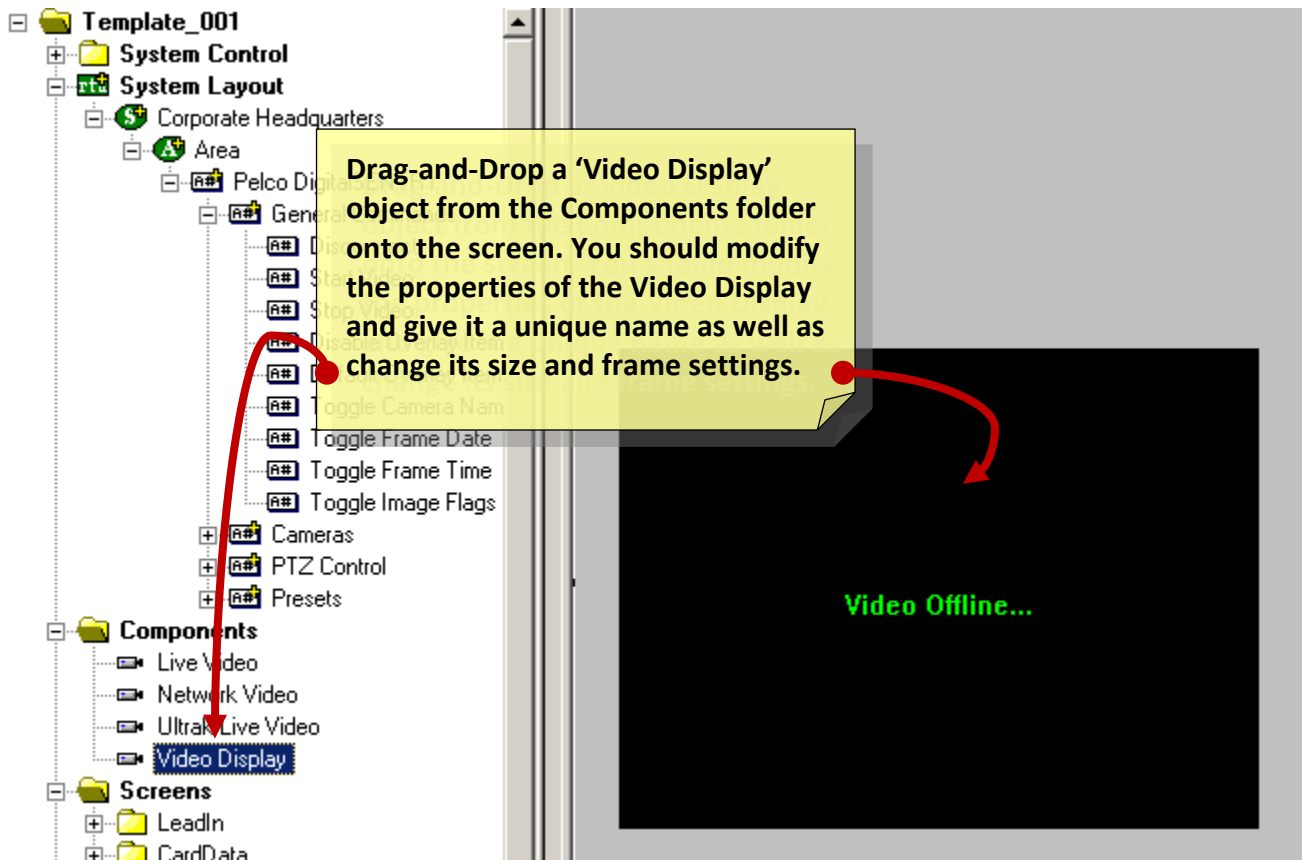
Add a Button to Send a Camera to the Video Display
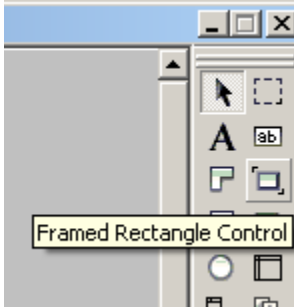
Create a control Screen Object (a button or icon) that directs a video channel (Camera) to the Video Display. The Action for any Pelco DigitalSENTRY command is always 'SendCommand', and the Target may be any sub-node under the Pelco DigitalSENTRY RTU. In the following example, we are sending live video stream (Camera) to the Video Display object that we created in the previous step.

The commands included in the Action Grid will set the Live Video object and then send a live video stream to the object.

Button Action Sets

In Run Mode select (mouse-down) the button. The resultant display should be live streaming video to the Video Display Object:

Video Display Commands

Additional video-related commands can be set up as SendCommand action targets, such as:
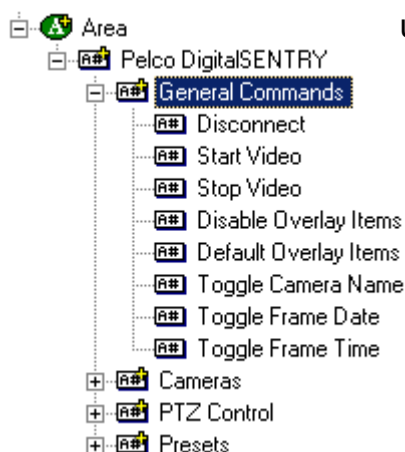
- **Disconnect**: Stop & close a video feed.

- **Start Video**: Un-pause a video feed.

- **Stop Video**: Pause a video feed.

- **Disable Overlay Items**: Turn off all additional information while showing the video stream.

- **Default Overlay Items**: Show the default stream information as configured in the DigitalSENTRY administration software. These are the overlay settings configured in the DigitalSENTRY NVR.

- **Toggle Camera Name**: Hide/show the camera name inside the video feed.

- **Toggle Frame Date**: Hide/show the date inside the live video feed.

- **Toggle Frame Time**: Hide/show the date inside the live video feed.

- **Take Snapshot**: Take a snapshot of the currently playing video frame and save it in the Output Folder set on the Pelco DigitalSENTRY RTU node

- **Start Recording**: Start manual recording for the current camera until a 'Stop Recording' command is sent.

- **Stop Recording**: Stop manual recording started by a 'Start Recording' command.

- **Playback Play**: If the currently playing video stream supports playback controls, starts or resumes playback.

- **Playback Pause**: Pauses the video playback stream.

- **Playback Stop**: Stops the video playback stream.

- **Playback Rewind**: Starts rewinding the video playback stream.

- **Playback Fast-Forward**: Starts fast-forwarding the video playback stream.

Adding Custom Overlay Toggle Commands

More overlay settings can be created by adding a new node under 'General Commands' and entering a special address. (NOTE: Enter these exactly and do not enter any spaces.)

These addresses are:

o **OVERLAY,TOGGLE,IMAGE_FLAGS**

Show/hide a motion or alert indicator frame.

o **OVERLAY,TOGGLE,FRAME_DATE_GMT**

Show/hide date in universal Greenwich Mean Time.

o **OVERLAY,TOGGLE,FRAME_TIME_GMT**

Show/hide time in universal Greenwich Mean Time.

Additional Overlay Toggle Names

[See Pelco DigitalSENTRY documentation for descriptions]

Prefix these commands with "**OVERLAY,TOGGLE,**". For example, **FRAME_NUM** should have an Address setting of:

OVERLAY,TOGGLE,FRAME_NUM

These are the additional commands:

- o **FRAME_NUM**
- o **FRAME_RATE**
- o **FRAME_SIZE**
- o **AVERAGE_FRAME_SIZE**
- o **PTZ_VIEW**
- o **ACTIVE_ALERT**
- o **FRAME_DATE_LOCAL**
- o **FRAME_TIME_LOCAL**
- o **FRAME_DATE_SERVER**
- o **FRAME_TIME_SERVER**
- o **GENERIC_TEXT1**
- o **GENERIC_TEXT2**
- o **GENERIC_TEXT3**
- o **GENERIC_TEXT4**
- o **NO_VIDEO_YET_TEXT**
- o **INFO_SCREEN**
- o **MOTION_MASK**
- o **EVENT_TEXT_WITH_BOX**
- o **COUNTER1**
- o **COUNTER2**
- o **COUNTER3**
- o **COUNTER4**
- o **COUNTER_ALL**
- o **MOTIONBLOCKS**

PTZ Control Commands

PTZ control commands will start PTZ camera movement. Send the 'PTZ Stop' command to end the movement. A good way to do this is to start movement on a button's Mouse Down action grid and stop it by sending 'PTZ Stop' on the same button's Mouse Up action grid.

The default speed when a camera is connected to the video display object is 80%.

- **PTZ Speed Increase**: PTZ movements will be 10% faster for pan and tilt actions.

- **PTZ Speed Decrease**: PTZ movements will be 10% slower for pan and tilt actions.

	Action	Target	
1	LiveVideo	[1105] Video Display	
2	SendCommand	[1060] Pelco DigitalSENTRY->Tilt Up	
3			
4			
5			
6			
7			
8			

Mouse Down (2) / Mouse Up (2) / On Active (0)

	Action	Target	
1	LiveVideo	[1105] Video Display	
2	SendCommand	[1076] Pelco DigitalSENTRY->PTZ Stop	
3			
4			
5			
6			
7			
8			

Mouse Down (2) / **Mouse Up (2)** / On Active (0)

PTZ Preset Commands

Preset nodes, when used as targets of the SendCommand action, perform the action of going to that preset's camera position.

To set a preset, create a node under 'General Commands' with the address '`PRESETSET,#`', where # is the preset number. For example, to set the camera's preset #95 to the current position, use a SendCommand action to send the preset set node with the address: `PRESETSET,95`