Overview

exacqVision can be integrated with DSC PowerSeries Neo intrusion systems. Configuration controls and realtime feedback have been added into the exacqVision client giving the user control and monitoring capabilities of the system.

NOTE: This integration applies only the PowerSeries Neo line of DSC equipment with **communicator firmware version 5.0 or greater.**

For more information about PowerSeries Neo equipment, please visit these DSC websites.
http://www.dsc.com/dsc-product-families/Neo/1
http://www.dsc.com/dsc-product-families/neo/alarm-verification-solutions/5
http://www.dsc.com/index.php?n=library (for looking up manuals)

Purpose

The purpose of this document is to provide guidance for integrating DSC intrusion system equipment with exacqVision and using the exacqVision client for connecting, controlling and monitoring the PowerSeries Neo equipment.

NOTE: This guide does not cover the installation and configuration of DSC PowerSeries Neo security equipment in general.

Requirements

Exacq software requirements

- exacqVision client version: 7.4 (or greater)
- exacqVision server version: 7.4 (or greater)

License requirements

- exacqVision license: Professional or Enterprise

DSC requirements or as tested

- One of the following Communicators:
  - TL280(R)E (see **COMPONENTS** section below, item 5 in the list)
  - TL2803G(R)E (**NOTE**: SIM card activation must be configured for IP communication to be enabled with exacq)
  - 3G2080(R)E (**NOTE**: SIM card activation must be configured for IP communication to be enabled with exacq)
- Firmware version 5.0 (or greater)
- No special licensing required

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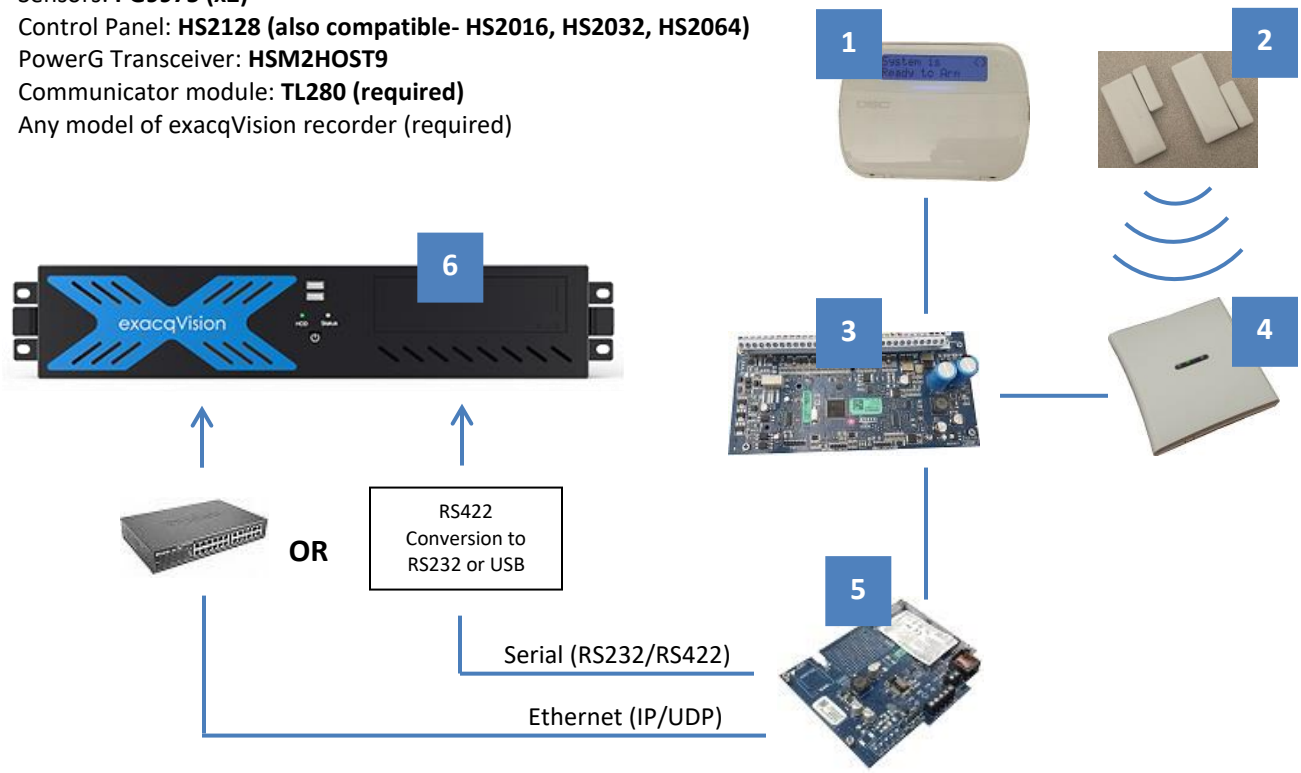
Components

The PowerSeries Neo components that were tested and integrated with Exacq were the following:

1. Keypad: **HSLCD**
2. Sensors: **PG9975 (x2)**
3. Control Panel: **HS2128 (also compatible- HS2016, HS2032, HS2064)**
4. PowerG Transceiver: **HSM2HOST9**
5. Communicator module: **TL280 (required)**
6. Any model of exacqVision recorder (required)



The security system communicates with the exacqVision recorder via the interface module the communicator module. This communication link between the exacqVision recorder and the interface module can be established via Ethernet (IP/UDP) or Serial (RS232/RS244). The security system must be configured by the keypad (**HSLCD**) to enable the communications link to exacqVision.

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Configuration - DSC PowerSeries Neo

With the exacqVision system connected to the communicator module (**TL280**) via Ethernet (IP/UDP) or Serial (RS232/RS422), use the keypad (**HSLCD**) to configure the the security system to communicate with the exacqVision recorder. Here are some general guidelines to follow when navigating the display panel's menus.

- Use the arrows "<>" to scroll through options.
- Use the "*" key to change options.
- Use the "#" to go back one menu level.
- In the following steps a comma "," will be used to separate segments of user input where the user should wait for the keypad to respond.
- An Installer's Code of 5555 (default value) is used throughout these instructions. Substitute your own Installer's code if programmed.
- Wherever you see a bolded statement such as "**Note these characters…**", please do so because you will need these pieces of information in the exacqVision configuration.
- Reference NEO Communicator V5.0 Installation Manual which can be obtained here http://www.dsc.com/index.php?n=library You may need an account to access manuals.
- Please refer to the "**NEO Communicator V5.0 Manual**" (sections in parenthesis).

Enable the TL280 Communicator Module (Initial Panel Programming)

1. *8, 5555, 382, scroll to option 5 - Alt Comm. Set value to "Y" by pressing *
2. *8, 5555, 401, scroll to option 7 - Alt Comm DLS. Set the value to "Y" by pressing *

Get Panel Init Key and Panel Application Key (Ethernet/Cellular Programming Options | SMS Event Notification/Command…)

1. *8,5555, 851, 422, to view Integration Identification Number. **Note for the Init Key in exacq configuration**
2. *8,5555, 851, 423, to view Integration Access Code. **Note for the Application Key in exacq configuration**

Enable Ethernet (IP/UDP) (Ethernet/Cellular Programming Options | SMS Event Notification/Command and Control Options)

1. *8, 5555, 851, 425, ensure bits 3 and 5 are set
2. *8, 5555, 851, 426, ensure bits 1, 3 and 4 are set

View IP address (Ethernet/Cellular Programming Options | System Information (Read Only))

1. *8, 5555, 851, 992 to view IP address. **Note IP address for use in exacq configuration**

…OR…

Set Static IP Address and Config (Ethernet/Cellular Programming Options | System Options)

2. *8, 5555, 851, 001 to enter a static IP address. **Note this IP address for use in exacq configuration**
3. *8, 5555, 851, 002, enter desired subnet mask, default is 255.255.255.0.
4. *8, 5555, 851, 003, enter desired default gateway.
5. *8, 5555,851, 999, 55 (**to restart the communicator**)
6. Perform previous step **View IP Address** to confirm

Set Integration Notification TCP Port to Default

1. *8, 5555, 851, 429 set to 0C00

Get or Set UDP Port Number information (Ethernet/Cellular Programming Options | SMS Event Notification/Command…)

1. *8, 5555, 851, 432, to view / set Session 1 Integration Outgoing port (default = 0C04). **Note for Panel Port in exacq**
2. *8, 5555, 851, 430, to view or set Session 1 Integration Polling port (default = 0C01). **Note for Local Port in exacq**

Set Destination IP address for ITv2 session (Ethernet/Cellular Programming Options | SMS Event Notification/Command…)

1. *8, 5555, 851, 428, to view or set Session 1 Integration Server IP. (Enter IP of exacqVision recorder)

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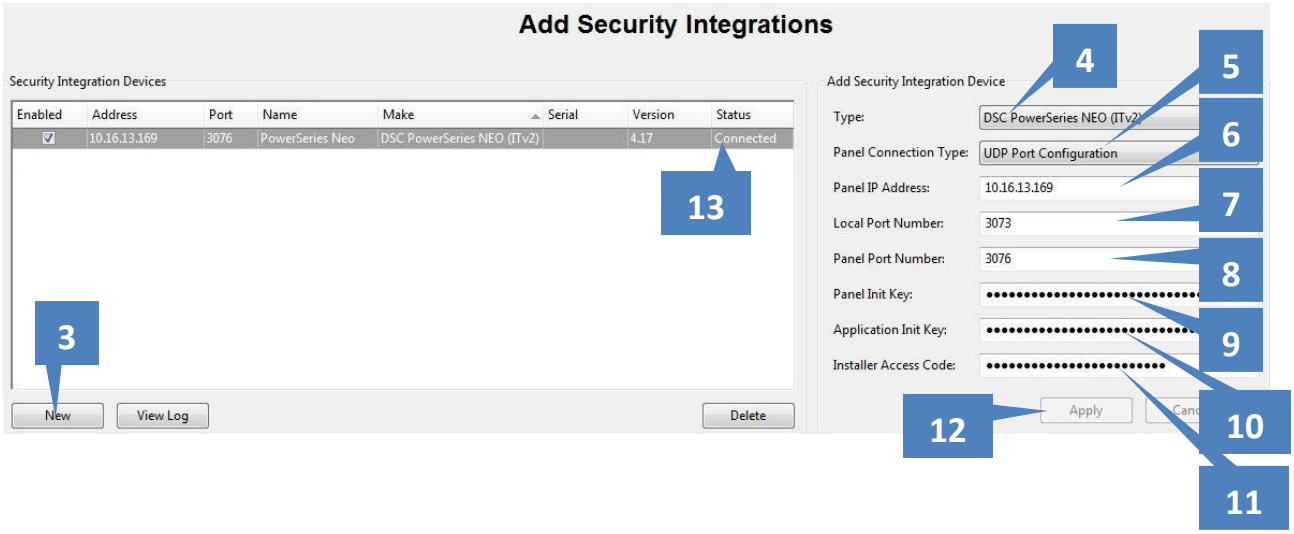
Configuration - exacqVision

Add Security Integration

Launch the exacqVision client and perform the following steps.
Please refer to the "**NEO Communicator V5.0 Manual**" (sections in parenthesis).

1. Click on the **Config(Setup)Page**
2. Click on **"Add Security Integration"**
3. Click **New**
4. Select **"DSC PowerSeries NEO"**
5. Select **"UDP Port Configuration"**
6. Panel IP Address - Enter IP address of the security system (from above)
7. Local Port Number - Enter 3073 (0C01hex = 3073dec, from above)
8. Panel Port Number - Enter 3076 (0C04hex = 3076dec, from above)

To quickly convert *hexadecimal* to *decimal*, go here:
https://www.binaryhexconverter.com/hex-to-decimal-converter



9. Panel Init Key - (from above)
    a. Enter the first 8 characters of this code 4 times in a row. For example if the first 8 characters of your code are "15102105" then enter "15102105151021051510210515102105".
10. Application Init Key - (from above)
    a. Enter the first 8 characters of this code 4 times in a row. For example if the first 8 characters of your code are "12345678" then enter "12345678123456781234567812345678".
11. Enter the 4 digit Installer Access Code. We have been using "5555". Exacq encrypts this data so it appears as more characters than four after being entered and accepted.
12. Click Apply
13. Ensure that the status reports "Connected"

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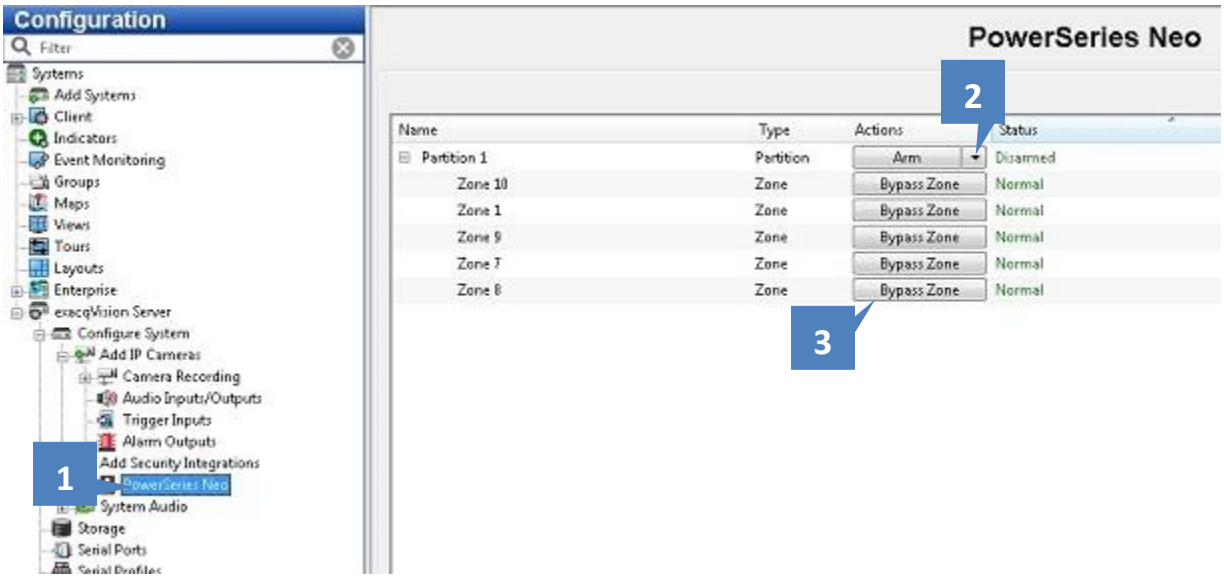
Supported controls now appear when you click on the PowerSeries Neo entry in the configuration tree.

1. Click on PowerSeries Neo.
2. Arming and Disarming can be performed here with the following options:
    a. Arm - State when user arms the panel at the keypad using their personal access code
    b. Arm Away - provides an exit and entry delay, includes all zones
    c. Arm Stay - provides an exit delay, bypasses interior zones
    d. Arm (No Delay) - Arms immediately, triggers immediately
3. Zones can be bypassed.



The DSC PowerSeries Neo security is now integrated with exacqVision. For more information, please see your DSC Neo Panel User information. Visit http://www.dsc.com/index.php?n=library to look up DSC documents.

RS232/422 Connection

You can connect the DSC system via RS232/422 to an exacq system. You may need a serial to USB adapter. If so ensure the driver for the adapter is installed in the Windows or linux operating system and the COM port shows up properly in the Serial Ports page, UART section, of exacqVision. Configure the serial port with a meaningful name and proper attributes for connecting to the DSC hardware. Those attributes can be configured for the DSC equipment in Step 3 (outlined below)

Enable (RS232/422) (Ethernet/Cellular Programming Options | SMS Event Notification/Command and Control Options)

1. *8, 5555, 851, 425, ensure bits 1 and 5 are set
2. *8, 5555, 851, 420, set or check baud rate
3. *8, 5555, 851, 421, set or check parity, stop bits, flow control, etc. (See **NEO Communicator V5.0 Manual**)

Follow the same steps as in the Configuration - exaqVision section except make the following selections:

1. Panel Connection Type: Select Serial Port Configuration
2. Serial Port Name: Select name of serial port you configured on Serial Ports page, UART section

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Troubleshooting

When using IP/UDP to connect and the status in the “Add Security Integration” is not showing connected, you may have to delete and allow the integration to re-create the serial port. Follow these steps.

1. Navigate to the Serial Ports page
2. Select the itv2 serial port (this was created automatically)
3. Click Delete

You should notice that the port is re-created almost immediately. Now go back to the “Add Security Integrations” area and check the status again.