



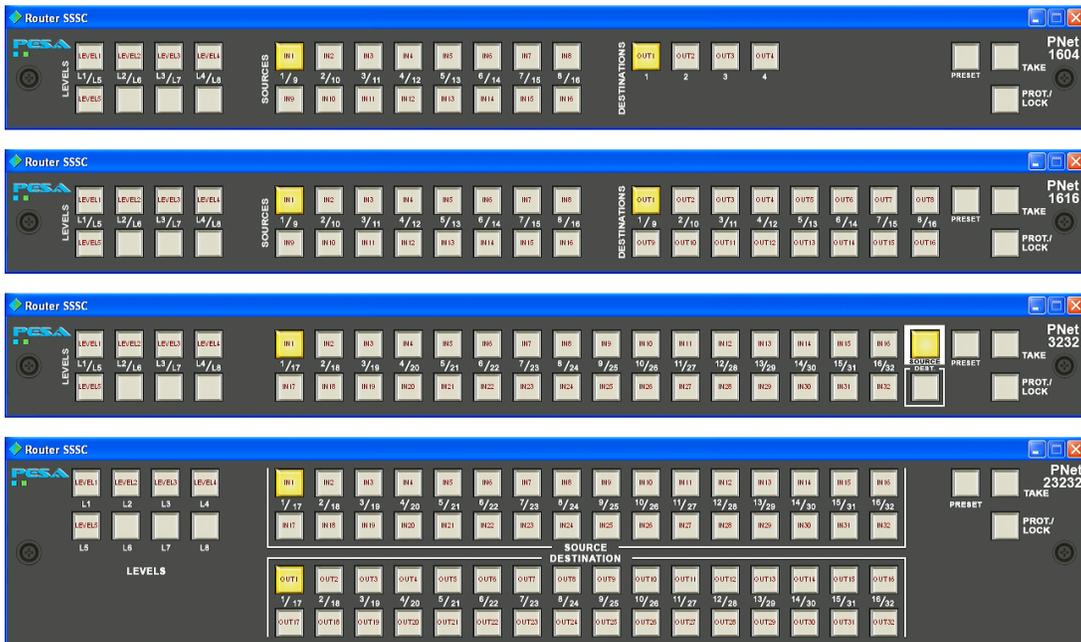
PESA

QUICK START GUIDE

PNET

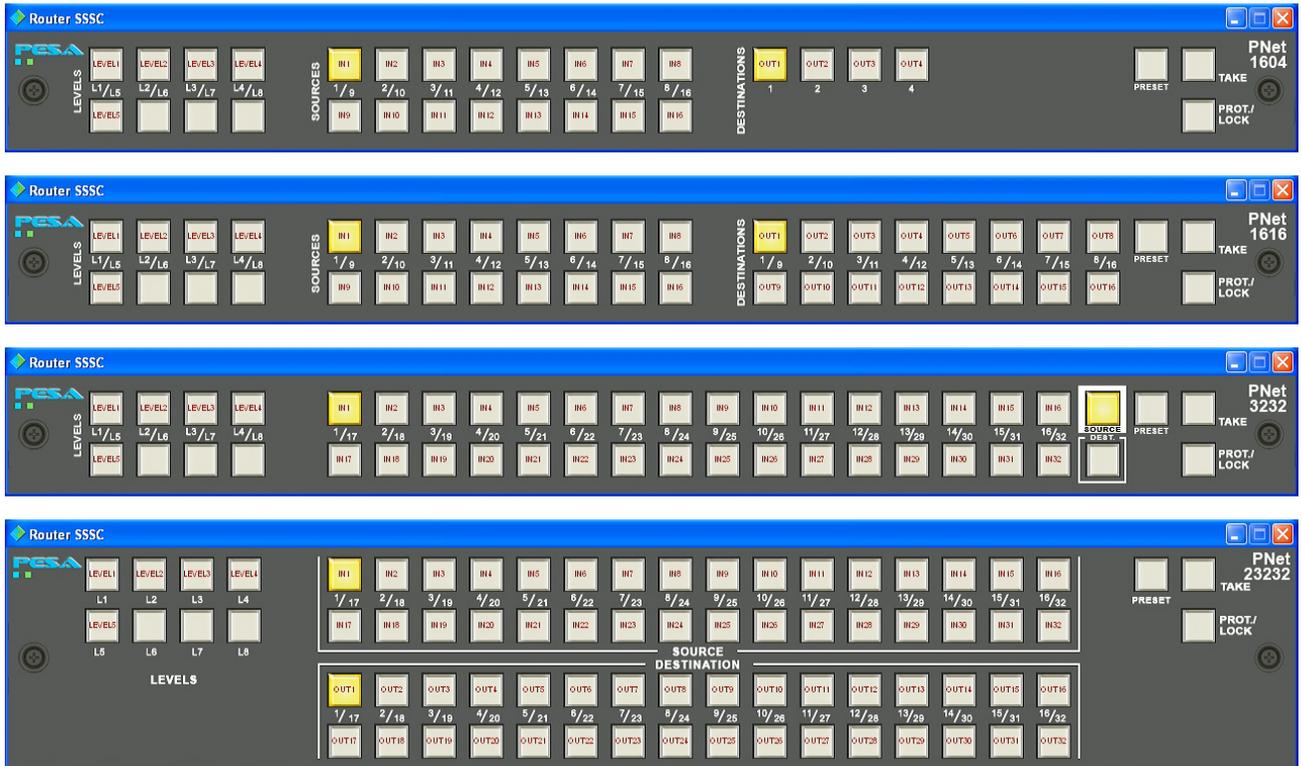
soft panels

ROUTER CONTROL SOFTWARE APPLICATION FOR WINDOWS[®] BASED PCs



1.0 PRODUCT DESCRIPTION

- PNet Soft Panel PC-based router system control panels emulate functionality of PNet hardware panels, and allow control of PESA routers equipped with the Small Scale System Controller (SSC) from virtually any computer in your facility.
- Soft panels are installed and activated through **Router Panel**, a software application that installs on PCs running the Microsoft Windows® 2000, XP, Vista or Windows 7 Operating System.
- Router Panel software must be loaded and resident on each host computer on which you wish to activate a soft panel.
- PNet soft panel instances are controlled under license management configured through PESA's Catrax system control software application.
- PNet soft panels communicate with the system controller over an Ethernet interface, either through a closed-loop Ethernet configuration or with full integration into the facility network.
- Each PC running a soft panel instance communicates with the SSC using the IP address and other network parameters of the host computer.
- Screen display illustrations of various available soft panel types are shown below.



2.0 SYSTEM REQUIREMENTS

In order to use PNet soft panels with your router you **must** have the following:

- Catrax V2.4.2 or higher installed on a host PC communicating with the SSC in the router.
- Small Scale System Controller installed in the router frame, running operating system V1.6 or higher.

In addition, it is **highly recommended** that you have:

- Internet access
- Valid e-mail address

3.0 DOWNLOAD AND INSTALL ROUTER PANEL APPLICATION

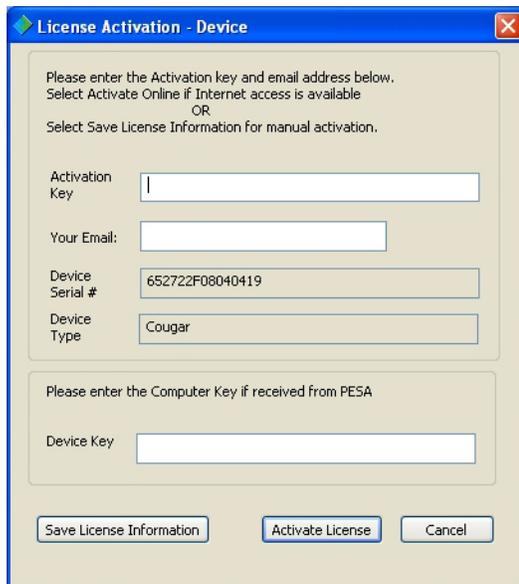
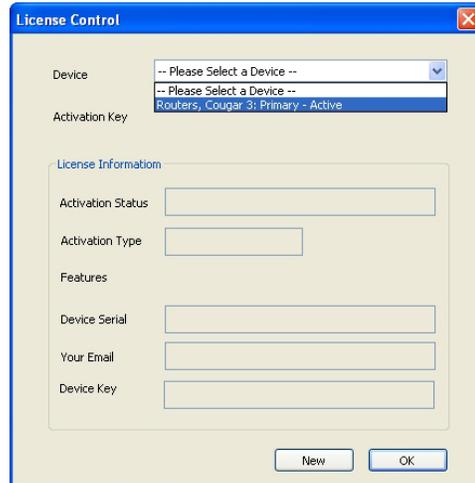
- Download Router Panel software installation file from the PESA website to a convenient directory folder on the host PC. You may download the trial version or permanent version from the website.
- On completion of download, a zipped file is copied to the folder which contains a PDF file with soft panel license information and an auto-run executable file for Router Panel installation.
- If the auto-run function does not automatically launch, navigate to the directory of the disk drive containing the zipped file, unzip the file to a convenient directory and double click the **Router Panel-Setup.exe** file.
- During installation an indicator bar tracks progress of software load and upon completion of installation, an “Installation Complete” prompt is displayed.
- Click **Finish** to exit installation process. During installation a shortcut icon to access the soft panel configuration box is automatically placed on the desktop.

4.0 LICENSE INSTALLATION AND ACTIVATION

- Decide quantity of soft panels you need and purchase the desired PNET-SOFT license pack.
- PESA will generate and e-mail you a Soft Panel License Management Activation Key. The activation key is a quite lengthy computer-generated character string. You may use the Windows® copy and paste function to copy the characters from the e-mail you receive to the key entry form in Catrax.
- Start the Catrax router control program on a host computer actively communicating with the SSC controller in the router frame.
- From the Catrax home screen, click the Tools tab on the menu bar and then select the License Control icon in the Tools menu, as shown at right.



- The License Control window opens and prompts you to select the SSC controller device on which you wish to install soft panel license management from the pull-down menu, as shown in the example window at right.
- Click the New button and the License Activation – Device window opens as shown by the example window below.

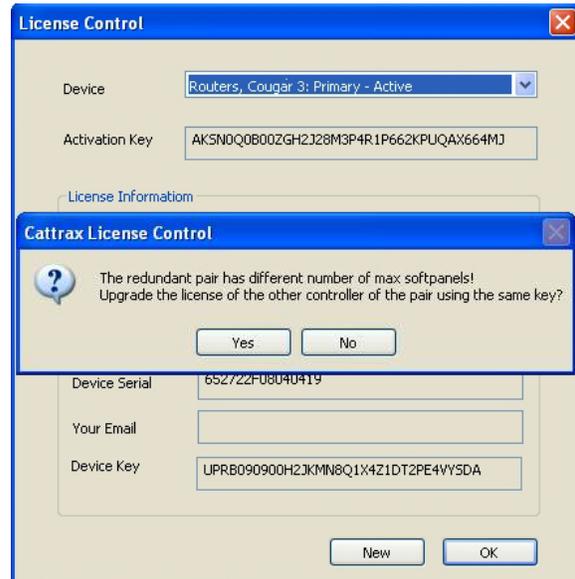


- Copy and paste, or enter, the Activation Key character string you received from PESA in the Activation Key box.
- Enter a valid e-mail address in the Your Email box
- The device serial number and type are read from the selected device and entered for you.
- If you have an active internet connection on the host PC that allows you to communicate with PESA’s license server, click the Activate License button to send the activation request immediately to PESA.

- You may also click the Save License Information button if you wish to create and save a data file which you may use to manually send an activation request to PESA. In the event that internet access to PESA’s license server is not immediately available on the host PC, you may complete the licensing process through Email communication with PESA. Refer to the PNet Soft Panel User Guide.
- If the internet communication is successful, PESA’s license management server processes the request and returns a Device Key character string that is automatically entered in the Device Key box upon receipt. A dialog box, as shown at right, notifies you that the device key is received.



- Click the OK button to activate the device license.
- If the router is equipped with a secondary system controller, a prompt box will alert you that the primary and secondary controllers have different licensing, and ask if you want to update the second controller to the same device key as the primary, as shown below. PESA allows you to install the device key on two controllers so that in a redundant system, the controllers are licensed the same. In most installations you will click Yes to update the secondary controller. If for some reason, you choose not to update the secondary controller, click No to close the prompt box and activate the new device key only on the primary controller.

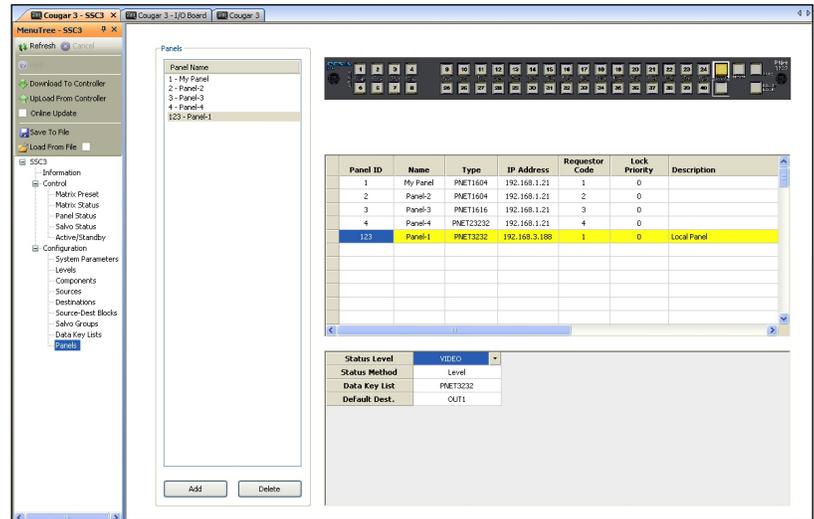


5.0 CONFIGURATION REQUIREMENTS

- In order for a PNet soft panel to be functional, the host computer running the Router Panel application must have established Ethernet communication with the SSC controller in the video router frame, and panel operating parameters must be configured through Catrax into the system controller configuration file.
- Modified configuration file must be downloaded and become the active configuration file used by the system controller.
- Adding a PNet soft panel to a router system requires the following procedures be completed:
 - Install PNet Router Panel software application on a host PC, Step 3.0, above.
 - Ensure there is functional Ethernet communication between the host PC and the SSC device with which you wish to use the soft panel.
 - Through operator screens of Catrax, create a system controller configuration file with the PNet soft panel operating parameters added.
 - An individual panel configuration entry is required for *each* soft panel instance.
 - The newly created controller configuration file must be downloaded and running as the active controller configuration **BEFORE** you can set-up panel instances on the host PC.
 - Launch Router Panel application on host PC, set-up and activate soft panel instance, refer to Chapter 4 of this guide.

6.0 PANEL CONFIGURATION THROUGH CATTRAX

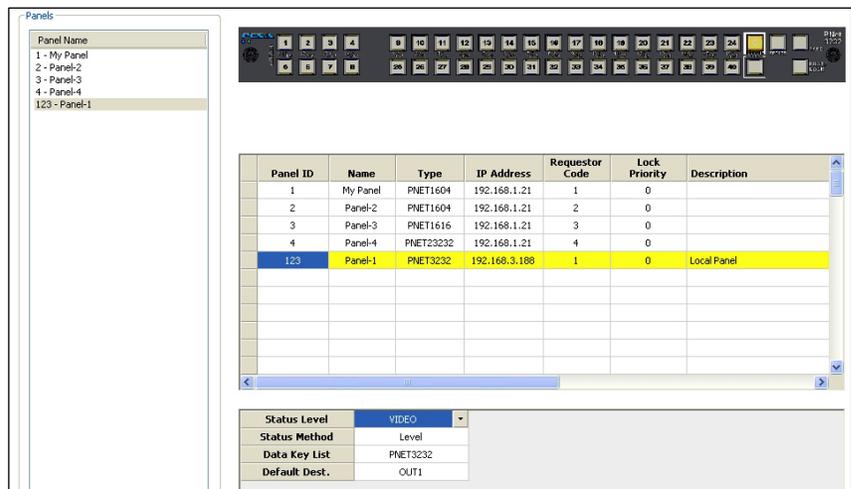
- Launch Cattrax on its host PC from the desktop icon.
- Click the Panels parent entry in the SSC Configuration menu.
- Be sure that the configuration file to which you wish to add soft panels is loaded into Cattrax, either by uploading the currently active file from the system controller, or retrieving a saved file from a storage device.



- The Panels Configuration Screen, shown at right, allows you to add PNet control panels to the system, program the functionality of each panel, and review the configuration of existing panels.

- **Adding a Control Panel** –To add a PNet soft panel, click the Add button at the bottom of the Panel Name list box. A place-holder name is added to the list name box; however, it may be changed through the configuration set-up entries. Choosing the Add function also creates a data entry row in the panel configuration box for you to enter set-up data for the new panel.

- **Defining a PNet Soft Panel** - In the middle of this screen you will see a spreadsheet format table, as shown at right, with an entry for each PNet panel in the system. Anytime a panel entry in the listing window is highlighted, a graphic image of that panel type is displayed at the top of the configuration screen.



If you are adding a new panel to the listing, the graphic image of the panel is displayed once the panel type parameter is selected. Displaying a graphic image allows you to verify the panel type as well as provide a visual cue of the features and functions of the specific panel.

- **Enter Panel Configuration Data**

- **Panel ID** – With PNet soft panels, the Panel ID number creates a unique configuration entry and identifier for the panel; it is not a hardware ID number as with PNet hardware panels, and may be changed to any unused value you wish. Many users create a unique block of numbers that identify the panels in the group as being soft panels. While the soft panel ID entry does not identify a specific piece of hardware, each individual soft panel you configure must have a unique Panel ID entry.
- **Name** – This entry allows you to assign a name to each panel. If you are adding a new panel, the place-holder name entered by Cattrax will initially appear in this column. You may change the name to a more descriptive panel name if you wish. A panel name may consist of a mix of alphanumeric characters. This is the text string displayed in other configuration and status screens to identify the panel.
- **Type** – This column allows you to select the soft panel type you will activate on the host PC using a pull-down menu of all available soft panel types. Click in the Type cell and open the pull-down menu. Select the panel type you are configuring and click the entry. The type number appears in the cell and a graphic image of the panel is displayed on the configuration screen.
- **IP Address** – Each host computer running Router Panel software must be assigned a unique and valid IP address that is compatible with the facility network or closed Ethernet loop. In most cases, IP addresses are issued by the facility network administrator. Enter the IP address of the host PC running the panel you are configuring in this column. Note that if for some reason you are activating instances of different soft panel types on the same computer, you will enter the same IP address for each panel configured on that PC.
- **Destination Protect and Lock Functions**
These functions are configured and operate identically to hardware PNet panels.
- **Requestor Code and Lock Priority Values**
These functions are configured and operate identically to hardware PNet panels.
- **Description** –The Description column is a free text field where you can enter a description of the panel and its function or any other data you wish to enter concerning this panel.

- **Enter Panel Parameters**

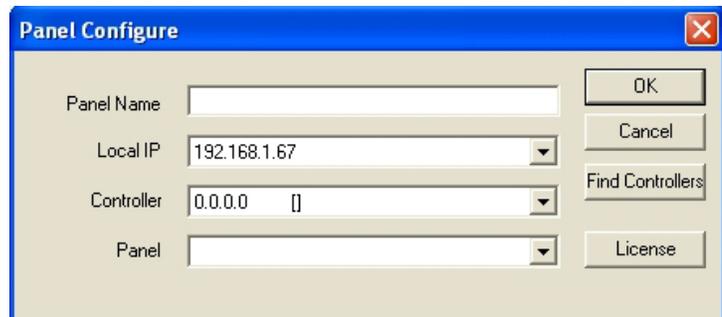
- Enter specific operational parameters for the soft panel in the small box located in the lower portion of the window, as shown in the illustration at right. Each cell in this table uses a pull-down menu to display the options available. In order to enter or change any selection in the configuration, click in the cell containing the parameter you want to change and click on the pull-down arrow. From the pull-down menu, click on the selection you want to enter for the panel configuration. This table contains the following entries:

Status Level	VIDEO ▾
Status Method	Level
Data Key List	PNET3232
Default Dest.	OUT1

- **Status Level** – Status Level is the default switching level displayed or controlled by the panel. To assign or edit the Status Level click in the cell and change the level selection from the pull-down menu.
 - **Status Method** – The pull-down menu in this cell should always be set to *Level* in the Cougar3 system application.
 - **Data Key List** – This entry determines the function of the configurable panel keys by assigning a Data Key List to the panel. The desired data key list is chosen from the pull-down menu associated with the cell. Only data key lists which are valid for the panel type are included in the pull-down menu. There is no difference between data key lists for hardware panels and soft panels, and any valid data key list for a panel type may be assigned to either the soft panel or hardware panel.
 - **Default Destination** – This entry assigns the default destination to the panel. In operation, the default destination determines which destination is displayed and controlled when the soft panel is first activated.
- You must download the modified configuration to the controller, and, if desired, save the file to an external storage device.
 - You will not be able to activate soft panels on the host PC until the modified configuration file is running on the system controller.

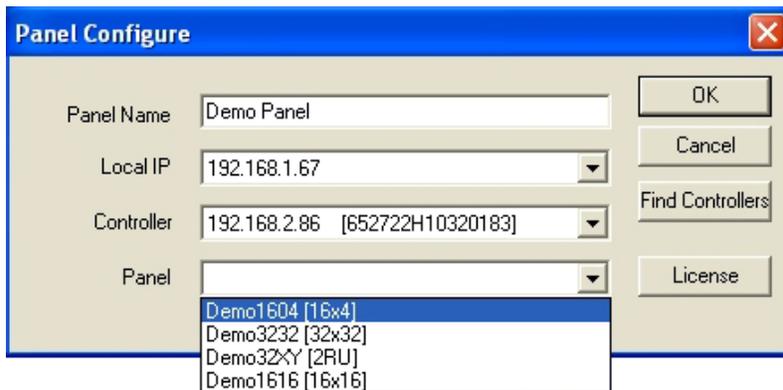
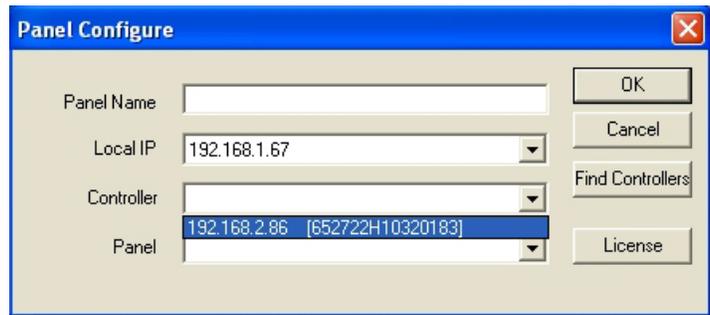
7.0 ACTIVATE PNET SOFT PANEL

- Launch Router Panel application on the PC on which you want to activate a soft panel, using the desktop icon.
- When the application starts, the Panel Configure window, as shown in the example at right, is opened.



- Remember, you must have already added the soft panel(s) you intend to activate to the controller configuration and downloaded the modified file to the system controller.
- Enter a Panel Name for the soft panel you are activating. This label is local to the host PC and is displayed in the panel icon on the PC desktop. Entering a panel name is required to activate a panel.
- The IP address of the host PC is displayed in the Local IP box, and **MUST** match the IP address you entered when configuring the soft panels in Catrax.
- Click the Find Controllers button to initiate a search for all compatible SSC controllers in the network. Upon completion of search, controllers discovered are listed in the pull down list by IP address. In most cases, there will only be one entry available in this box.

- Select the system controller to which you want to add the soft panel from the pull down list, as shown at right.



- Open the pull down list in the Panel box, as shown at left. The listing identifies by name and panel type all PNet soft panels configured through Catrax for the host PC. The name displayed in this listing is the panel name assigned through Catrax and may be different than the Panel Name entered above for the desktop icon. Note that the only soft panels that appear in the pull-

down list are the ones you have configured for the IP address of the host PC on which you are working.

- Select the panel type you wish to activate from the pull down list and click the OK button.
- The Panel Configure box closes and the panel emulation graphic opens with panel lights indicating current status of the default destination for the status switching level that you entered for the panel during configuration.
- The soft panel is now fully functional with every feature of the equivalent hardware PNet panel.