PESA Switching Systems

PESA VP

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PESA Switching Systems

PESA Virtual Panel

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1.1 Introduction

This manual contains the installation, configuration, and operation instructions for the PESA Virtual Control Panel. Please refer to this manual prior to installing and operating the PESA Virtual Control Panel.

General

The PESA Virtual Control Panel provides a wide range of powerful control options. Hot take, audio-follow-video, break-away, and salvo switches are available at the click of mouse button. Additionally, a selected source can be switched to a single destination or a group of destinations (gang). Single or multiple destinations can be locked or unlocked from the Virtual Control Panel. The salvo capability allows the custom building of multiple switches through an intuitive drag and drop interface screen (PESA Virtual Panel Preset Screen). Multiple salvos and panel configurations (PESA Virtual Panel Configuration Screen) can be saved (stored) to disk and recalled as needed. Additionally, the PESA Virtual Control Panel can be configured to automatically establish a communications link with remotely located switching systems. The communications link can be configured and established using a wide variety of industry standard modems.

The following topics are discussed in this manual:

- Virtual Panel Installation
- Software License Agreement
- Virtual Panel Configuration
- Example System Configuration
- Virtual Panel Operation

NOTE

The PESA Virtual Panel is designed to be installed on and function on PC running Windows 95™ or Windows NT™. The PESA Virtual **will not** function on a PC running Windows 3.1™.

NOTICE

THE PESA VIRTUAL PANEL SOFTWARE PACKAGE INSTALLATION, CONFIGURATION, AND OPERATION PROCEDURES FOUND IN THIS MANUAL MODULE ARE NOT MEANT TO BE A REPLACEMENT FOR A THOROUGH KNOWLEDGE OF WINDOWS™ OPERATING SYSTEMS. PESA VIRTUAL PANEL USERS SHOULD HAVE A CONCEPTUAL UNDERSTANDING OF THE WINDOWS™ OPERATING SYSTEM.

2.1 Virtual Panel Installation

The installation of the PESA Virtual Panel is a step-by-step process similar to the installation of any Windows™ based software package. The following paragraphs outline the steps necessary to properly install the PESA Virtual Panel Software.

To install the PESA Virtual Panel Software, access the Run Screen as shown in Figure 2-1. The Run Screen is available from the Start Button. Once the Run Screen is accessed, type in A:\VPSETUP.EXE or B:\VPSETUP.EXE in the Open Data Field, depending upon which floppy drive is a 3.5" drive. Once the entry in the data field is completed, place Disk 1 of the PESA Virtual Control Panel Software Package in the designated floppy drive and select OK to proceed with the installation.

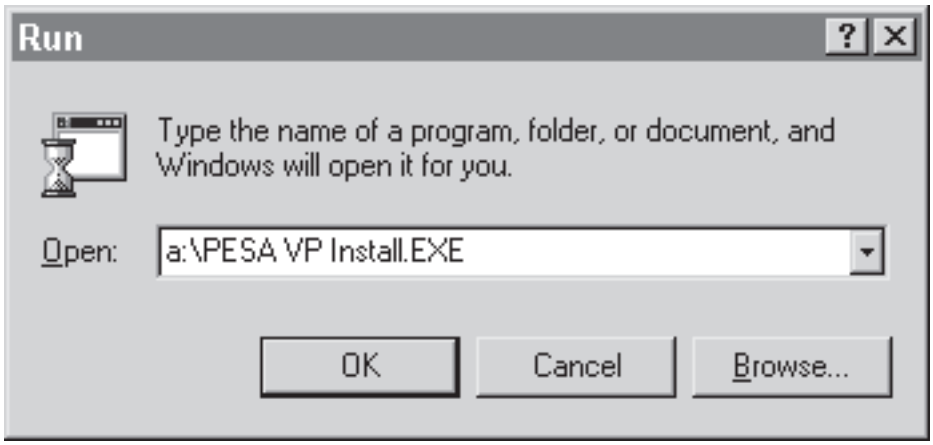

Figure 2-1 Run Screen

Once OK is selected on the Run Screen, the PESA Virtual Panel Installation Program will start. Follow the on-screen instructions to continue the installation process.

2.1 Virtual Panel Installation Continued:

Once the installation process is completed, the PESA Virtual Panel Shortcut Icon should be displayed on the desktop of the system computer as shown in Figure 2-2.

Figure 2-2 PESA Virtual Panel Shortcut Icon

The PESA Virtual Panel Program Group, which contains the PESA Virtual Panel, Virtual Panel Configuration, and PESA Virtual Panel Help, is accessible through the Start Programs function of Windows™ once the installation program is completed (Figure 2-3). To start one of the programs contained in the PESA Virtual Panel Group, select the desired program and click on it.

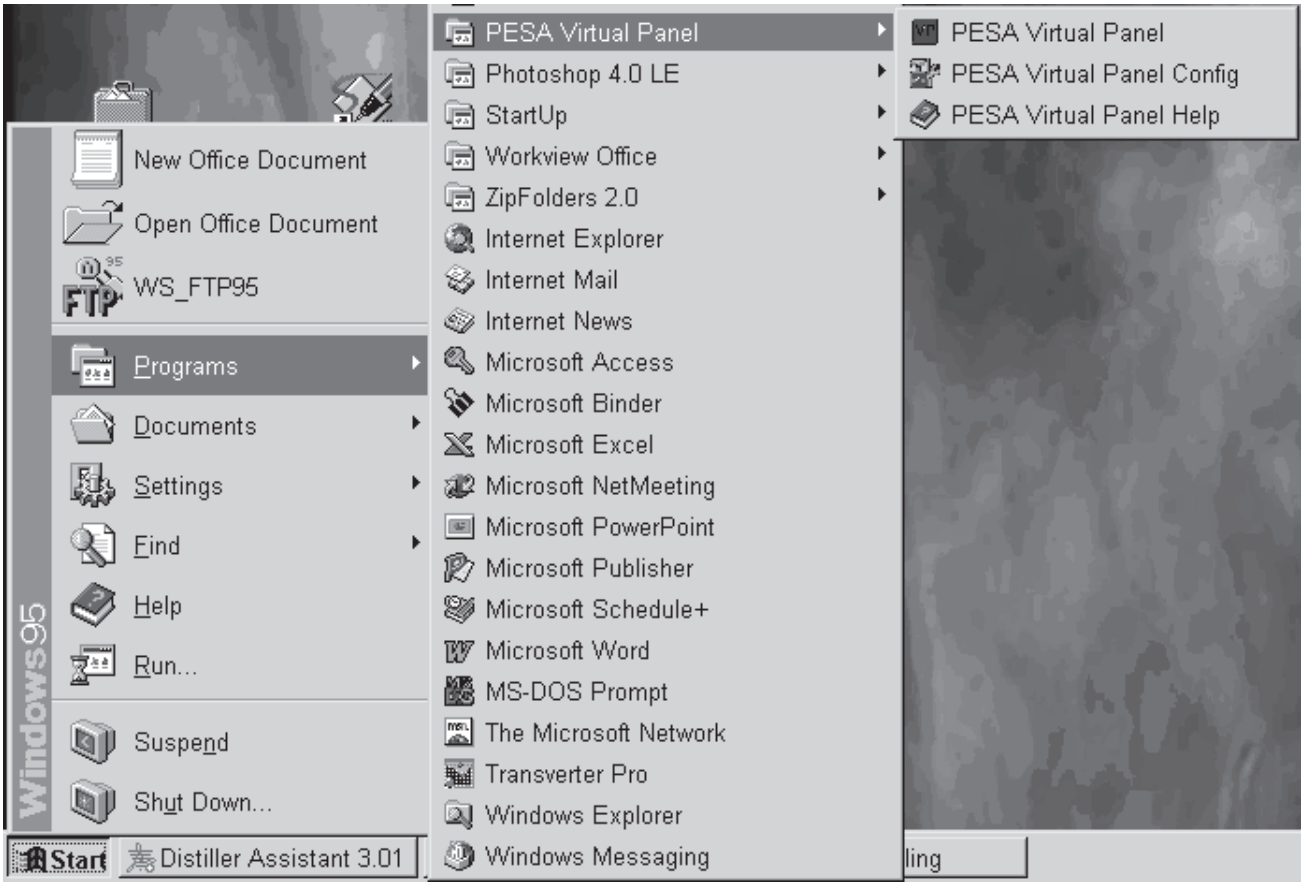

Figure 2-3 PESA Virtual Panel Program Group

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4.1 Introduction

To open the Virtual Panel Configuration Utility, select and click on Virtual Panel Configuration in the PESA Virtual Panel Group. The Virtual Panel Configuration Utility enables the user to quickly build, edit, save, and open multiple PESA Virtual Panel configurations. Selecting and clicking on Virtual Panel Configuration will open the Virtual Panel Configuration Utility Screen (Figure 4-1).

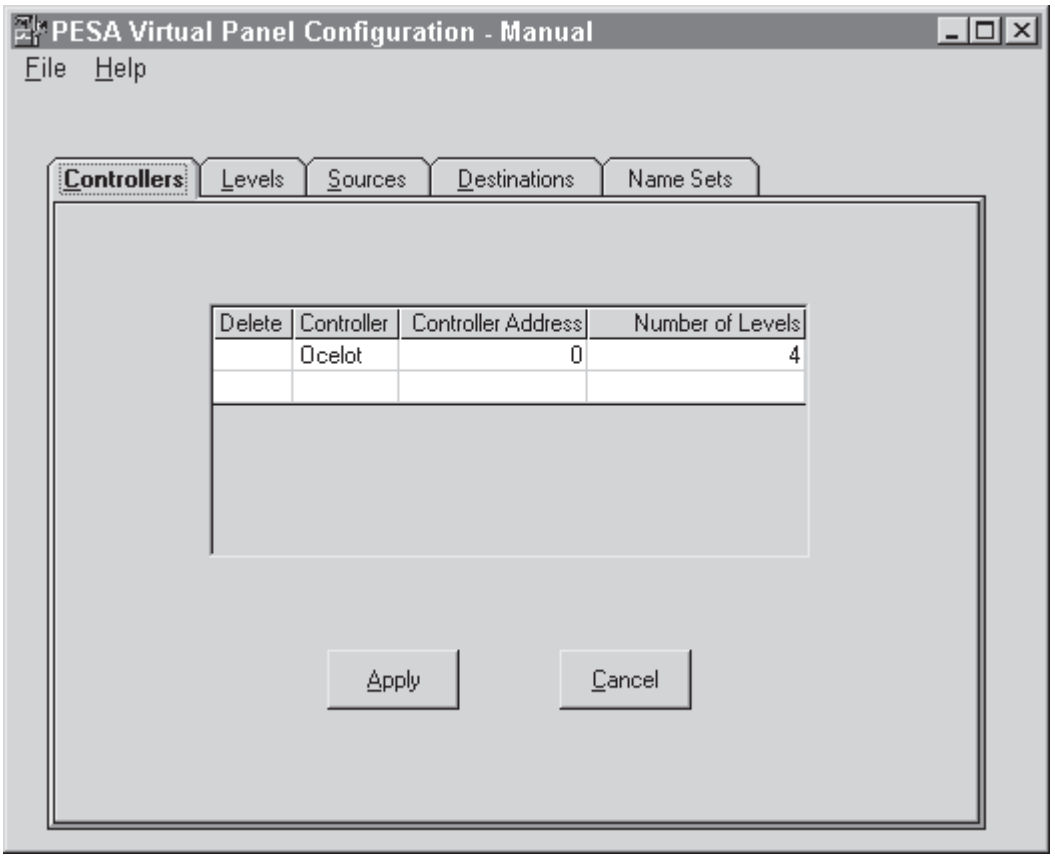

Figure 4-1 Virtual Panel Configuration Screen

The tabs on the Virtual Panel Configuration Utility Screen enable the entry and configuration of system controllers, levels, sources, destinations, and name sets (name sets consist of logical sets of sources and destinations). Additionally, each source and destination can be given a logical name up to eight alpha-numeric characters long including spaces.

4.2 Configuration Menus

The main configuration menus on the Virtual Panel Configuration Screen are File and Help. The File Menu provides access to the New, Open, Save, Load Default Configuration, and Exit configuration functions (Figure 4-2). The Help Menu provides access to the Contents and About functions (Figure 4-3).

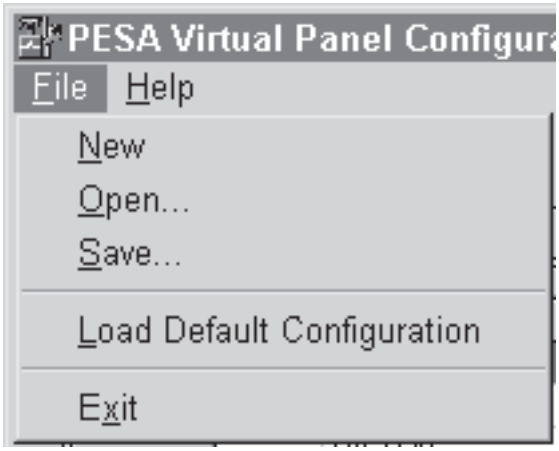

Figure 4-2 File Menu Functions

Figure 4-3 Help Menu Functions

New

Selecting New in the File Menu will open a blank Virtual Panel Configuration Screen as shown in Figure 4-4. The blank configuration screen enables the user to build a new PESA Virtual Panel Configuration by entering the desired configuration information on the proper tab page and into designated data fields. For help in building a new configuration refer to the Example Configuration Section of this manual.

4.2 Configuration Menus Continued:

New Continued:

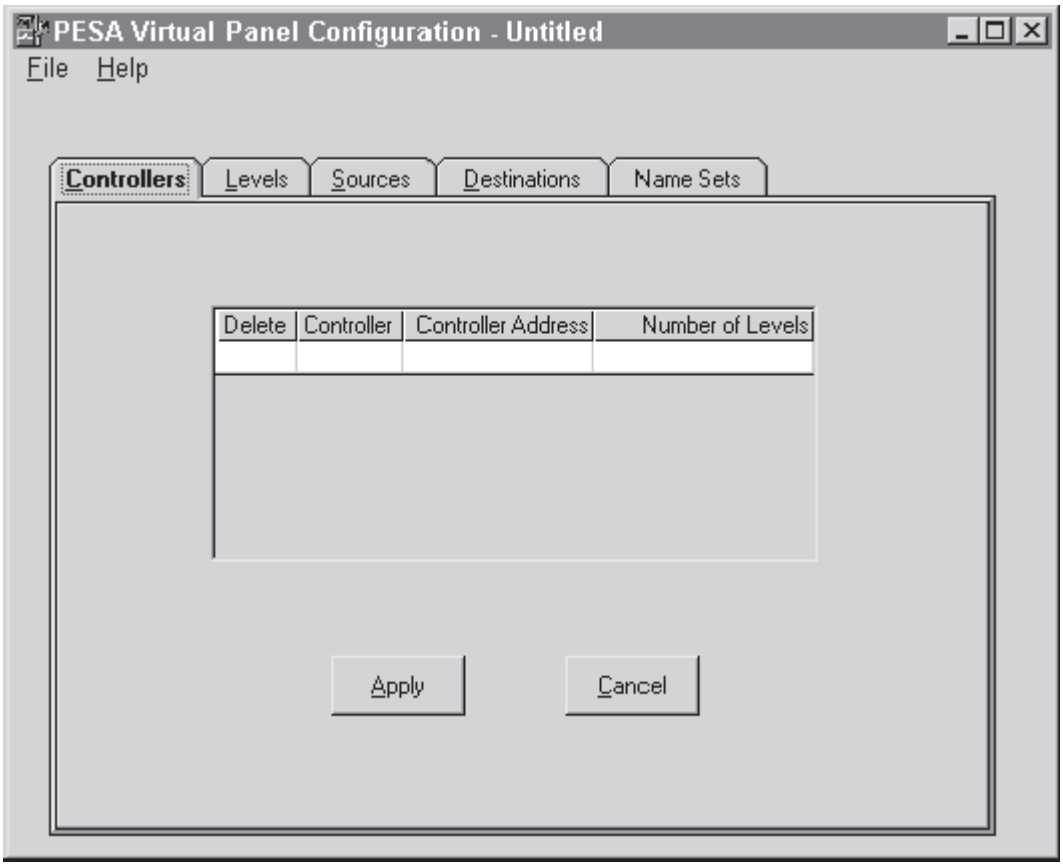

Figure 4-4 Blank Virtual Panel Configuration Utility Screen

Open

Selecting Open in the File Menu will cause the Open Screen (Figure 4-5) to be displayed. The Open Screen enables the user to open existing Virtual Panel Configurations into the Virtual Panel Configuration Screen. The existing configuration can then be viewed and edited if desired.

To open the desired configuration, click on the desired configuration name or type in the desired configuration name into the File Name Data Field and select Open. Selecting Cancel will abort the file open operation and will return you to the Virtual Panel Configuration Utility Screen.

4.2 Configuration Menus Continued:

Open Continued:

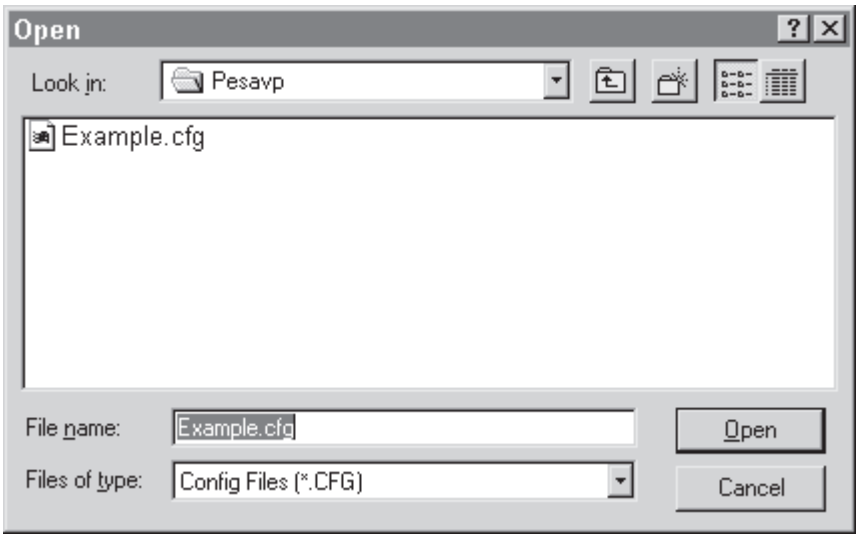

Figure 4-5 Open Screen

Save

Selecting Save from the File Menu will cause the Save As Screen (Figure 4-6) to be displayed. The Save As Screen enables the user to save the current configuration's information onto a floppy drive or hard-drive for convenient retrieval as needed. The configuration information can either be saved in an existing configuration file or in a new user assigned configuration file. To save the current configuration to a new file, enter the desired file name in the File Name Data Field and select Save. Please note that the default save directory is the PESAVP Directory. If you wish to save the current configuration in a directory other than the default directory, please select the desired directory. To save the current configuration to an existing file name, click on the existing file name and then select Save.

4.2 Configuration Menus Continued:

Save Continued:

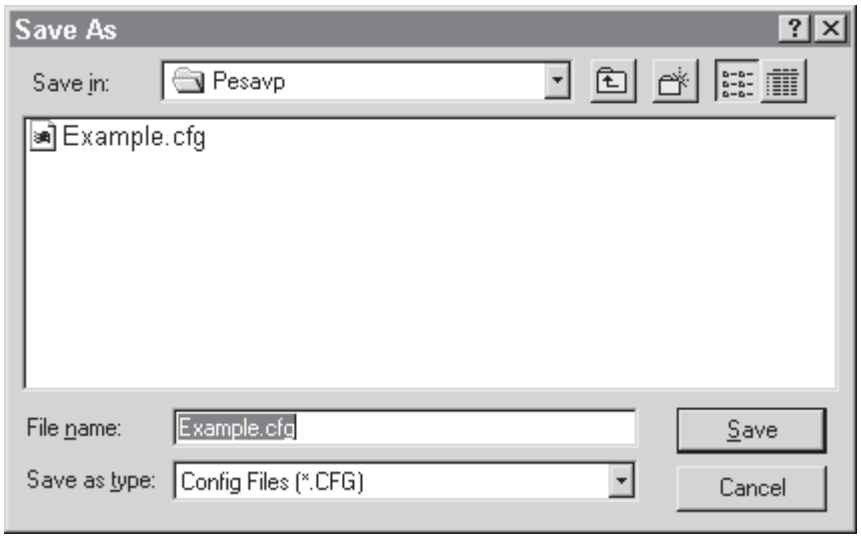

Figure 4-6 Save As Screen

If the current configuration is being saved into an existing file name, the Save As Information Screen will be displayed prior to the configuration information being saved. If you definitely want to replace the existing configuration's file information with the current configuration's information, select Yes. Selecting No will return you to the Save As Screen without making any changes to the selected configuration file.

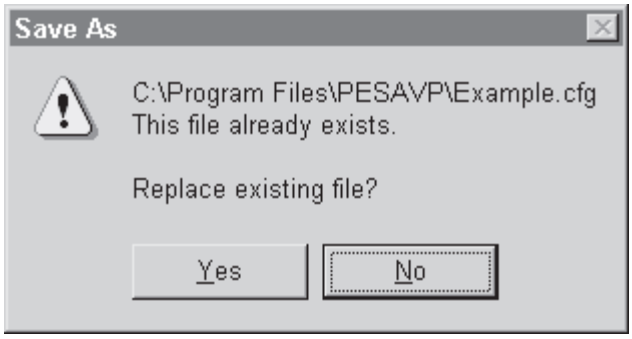

Figure 4-7 Save As Information Screen

4.2 Configuration Menus Continued:

Save Continued:

Once the current configuration's information is saved to the selected file, the Save Completed Screen (Figure 4-8) will be displayed. Select OK on the Save Completed Screen to make the current configuration (the configuration that was saved) the default configuration and return you to the Virtual Panel Configuration Screen. If OK is selected, the next time the PESA Virtual Panel Program is started, it will load the default configuration. Selecting Cancel will return you to the Virtual Panel Configuration Screen without making the current configuration the default configuration.

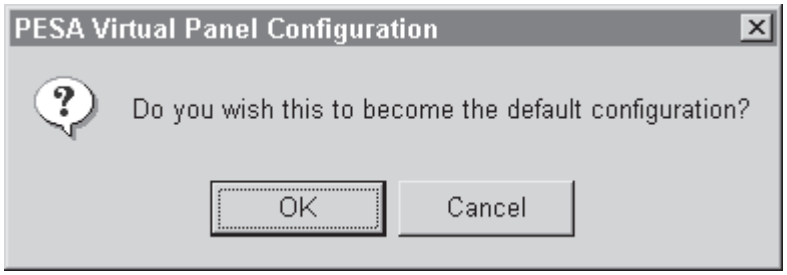

Figure 4-8 Save Completed Screen

Load Default

Selecting Load Default from the File Menu will cause the Load Default Screen (Figure 4-9) to be opened. To load the default configuration into the Virtual Panel Configuration Screen, select OK. Any existing configuration information listed on the Virtual Panel Configuration Screen will be over-written by the default configuration's information. The default configuration is simply a general configuration representing a PESA Routing Switcher System. Selecting Cancel will return you to the Virtual Panel Configuration Screen without any configuration change actions taking place.

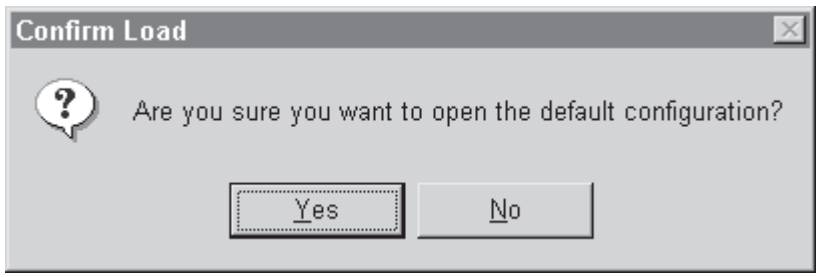

Figure 4-9 Load Default Screen

4.2 Configuration Menus Continued:

Exit

Selecting Exit from the File Menu will exit you from the Virtual Panel Configuration Program and return you the Windows™ desktop.

Contents

Selecting Contents from the Help Menu will open the PESA Virtual Panel Help File Screen. The PESA Virtual Panel Help File functions in the same manner as the majority of Windows™ help files. Once you are through referencing the help file, select File and Exit to return to the PESA Virtual Panel Configuration Utility Screen.

About

Selecting About from the Help Menu will open the Virtual Panel Configuration Utility Information Screen. The Virtual Panel Configuration Utility Information Screen displays copyright and version information. To return to the Virtual Panel Configuration Utility Screen, select OK.

4.3 Configuration Tabs

There are five configuration tabs on the Virtual Panel Configuration Screen which allow the user to configure the controllers, levels, sources, destinations, and name sets which make-up a complete virtual panel configuration. The number of configurable controllers, levels, sources, destinations, and name sets are only limited by the physical configuration of the user's routing switcher system and by type routing switcher system controller being utilized. The following paragraphs describe each of the configuration tabs and their related data entry fields.

NOTE: The data tables and corresponding data fields on the configuration tabs are selectable and up-datable using standard Windows™ keystrokes and mouse actions. Please also note that invalid data field entries not allowed and are alerted by a corresponding error message.

4.3 Configuration Tabs Continued:

Controllers

The data fields available on the Controller Tab are Controller, Controller Address, Number of Levels, and Delete (Figure 4-10). The Controller Data Field allows the entry of a logical controller name up to eight alpha-numeric characters long. The Controller Address Data Field allows the entry of a numeric address from 0 to 255. The selection of address 0 limits the configuration of the PESA Virtual Panel to one system controller. The Number of Levels Data Field enables the number of desired configuration levels consistent with the type of system controller being utilized. Selection of the Delete Data Field marks configuration items (controllers) to be deleted when Apply is selected or when another tab is selected. Controller names and addresses must be unique.

To configure a controller, enter the desired controller name, controller address, and number of levels in the correct data fields. Please note that as controller configurations are entered the Controller Tab Data Table automatically expands to allow the entry of more configuration items.

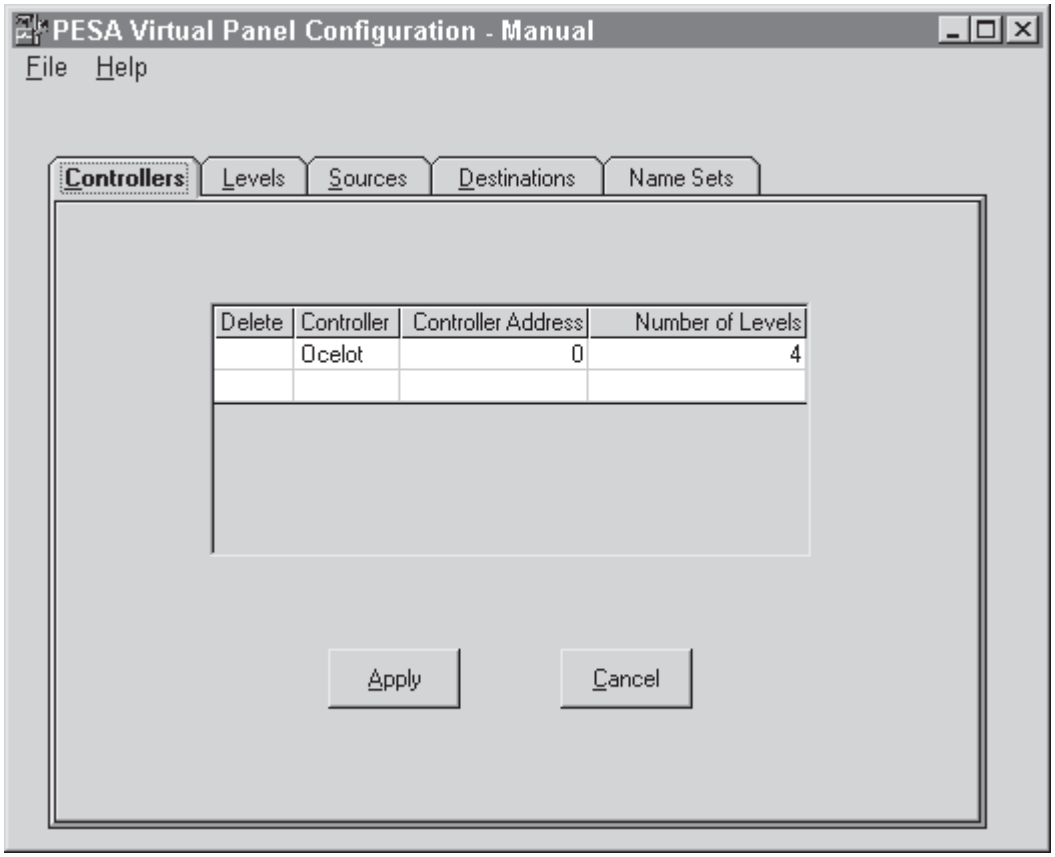

Figure 4-10 Controllers Tab

4.3 Configuration Tabs Continued:

Levels

The data fields available on the Levels Tab are the Levels, Number, Controller, Levels Offset, Number of Inputs, Number of Outputs, and Delete (Figure 4-11). The Level Data Field allows the entry of an alpha-numeric name, up to eight characters long, for each configured level. Please note that all levels names must be unique. The Number Data Field allows the entry of a level number. If a level number is not assigned the next available number will be automatically assigned. Please note that all level numbers must be unique. The Controller Data Field allows the selection of an previously configured controller; either from the scroll-down controllers list or by typing the desired controller's assigned name. The Level Offset Data Field indicates the level offset for the controller that is associated with the respective level. The assigned level offset must be unique per controller. The Number of Inputs Data Field allows the assignment of the number inputs which will be controlled on the configured level. The assigned number of inputs should match the number of valid physical inputs which can be controlled on the corresponding level. The Number of Outputs Data Field allows the assignment of the number outputs which will be controlled on the configured level. The assigned number of outputs should match the number of valid physical inputs which can be controlled on the corresponding level. Selection of the Delete Data Field marks configuration items (levels) to be deleted when Apply is selected or when another tab is selected.

To configure a level, enter the desired level name, number, controller selection, level offset, number of inputs, and number of outputs in the correct data fields. Please note that as level configurations are entered the Levels Tab Data Table automatically expands to allow the entry of more configuration items.

4.3 Configuration Tabs Continued:

Levels Continued:

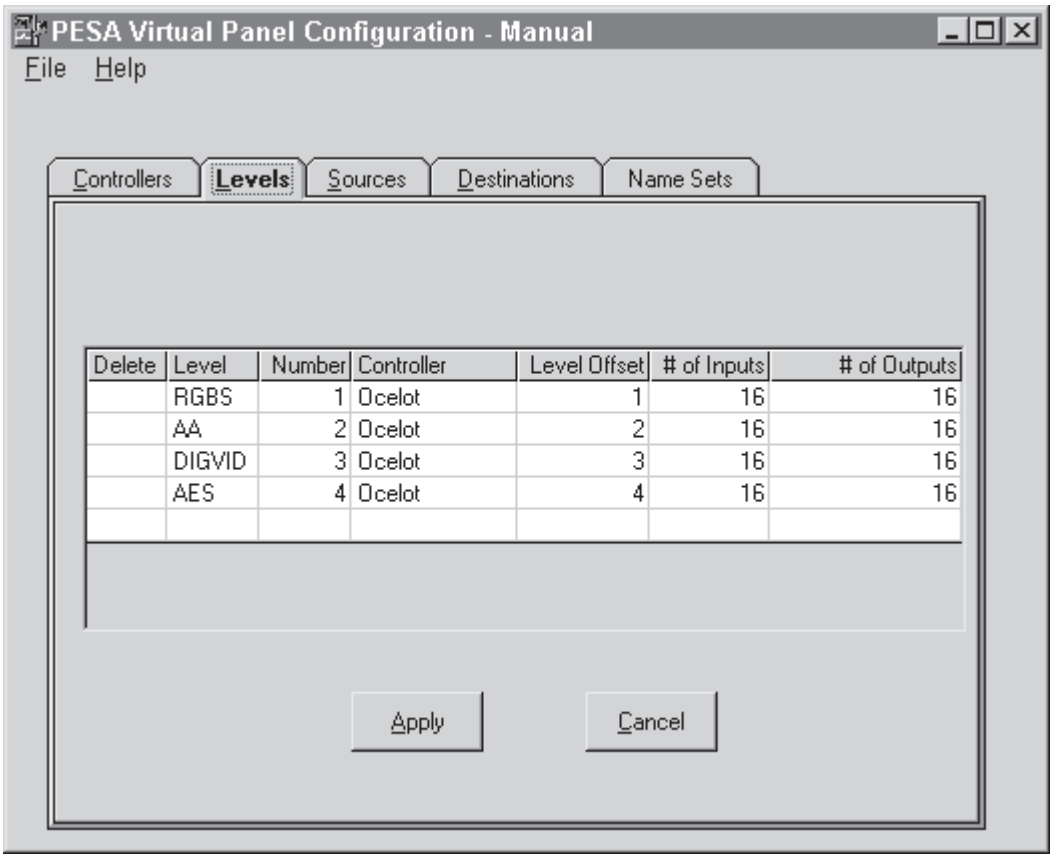

Figure 4-11 Levels Tab

Sources

The data fields available on the Source Tab are Source, a data field corresponding to each configured level, and Delete. The Source Data Field allows the configuration of sources and assignment of an alpha-numeric source name, up to eight characters long, to each configured source. The Level Entry Data Fields allow the assignment of input numbers to each configured source on each configured level. Please note the input number "0" equates to an input number not being assigned to a configured source on a selected level. Selection of the Delete Data Field marks configuration items (sources) to be deleted when Apply is selected or when another tab is selected.

4.3 Configuration Tabs Continued:

Sources Continued:

To configure a source, enter the desired unique source name and the input number to be assigned to each configured level in the correct data fields. Please note that as source configurations are entered the Sources Tab Data Table automatically expands to allow the entry of more configuration items.

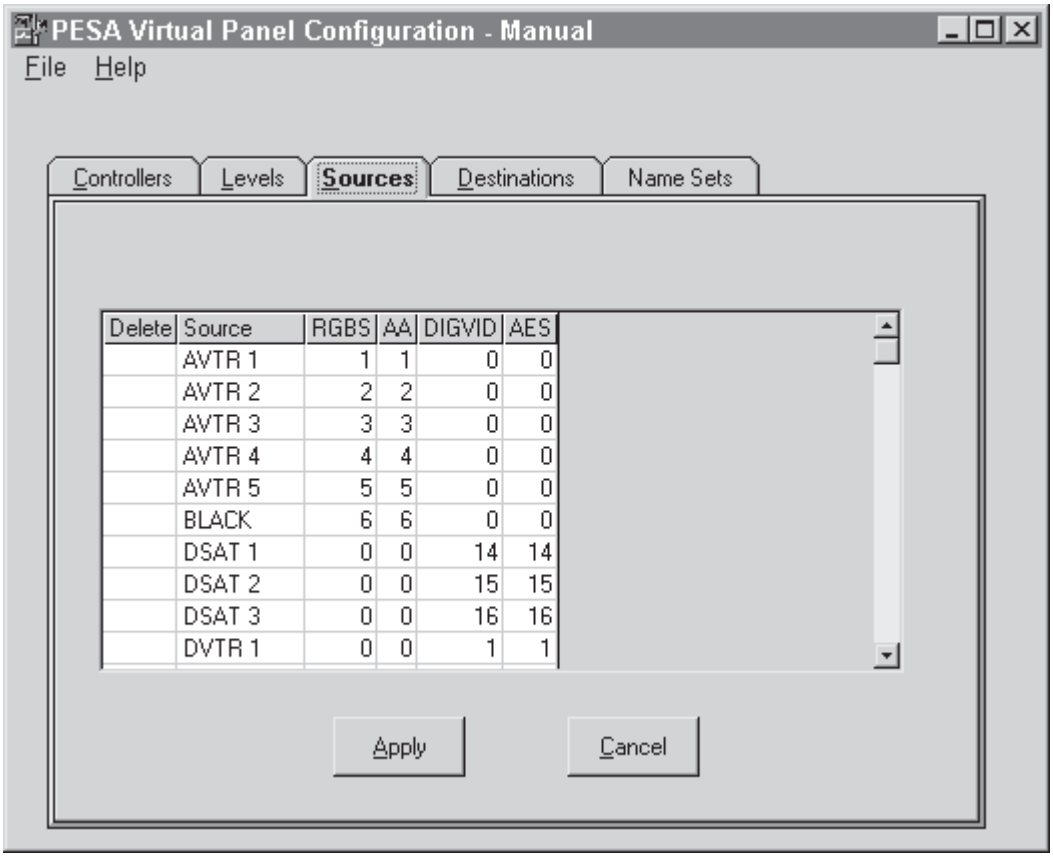

Figure 4-12 Sources Tab

Destinations

The data fields available on the Destination Tab are Destination, a data field corresponding to each configured level, and Delete. The Destination Data Field allows the configuration of destinations and assignment of an alpha-numeric destination name, up to eight characters long, to each configured destination. The Level Entry Data Fields allow the assignment of output numbers to each configured destination on each configured level.

4.3 Configuration Tabs Continued:

Destinations Continued:

Please note the output number "0" equates to an output number not being assigned to a configured destination on a selected level. Outputs for a destination must be unique per level; i.e. two destinations may not share the same output on the same level. Selection of the Delete Data Field marks configuration items (destinations) to be deleted when Apply is selected or when another tab is selected.

To configure a destination, enter the desired unique destination name and the destination number to be assigned to each configured level in the correct data fields. Please note that as destinations configurations are entered the Destinations Tab Data Table automatically expands to allow the entry of more configuration items.

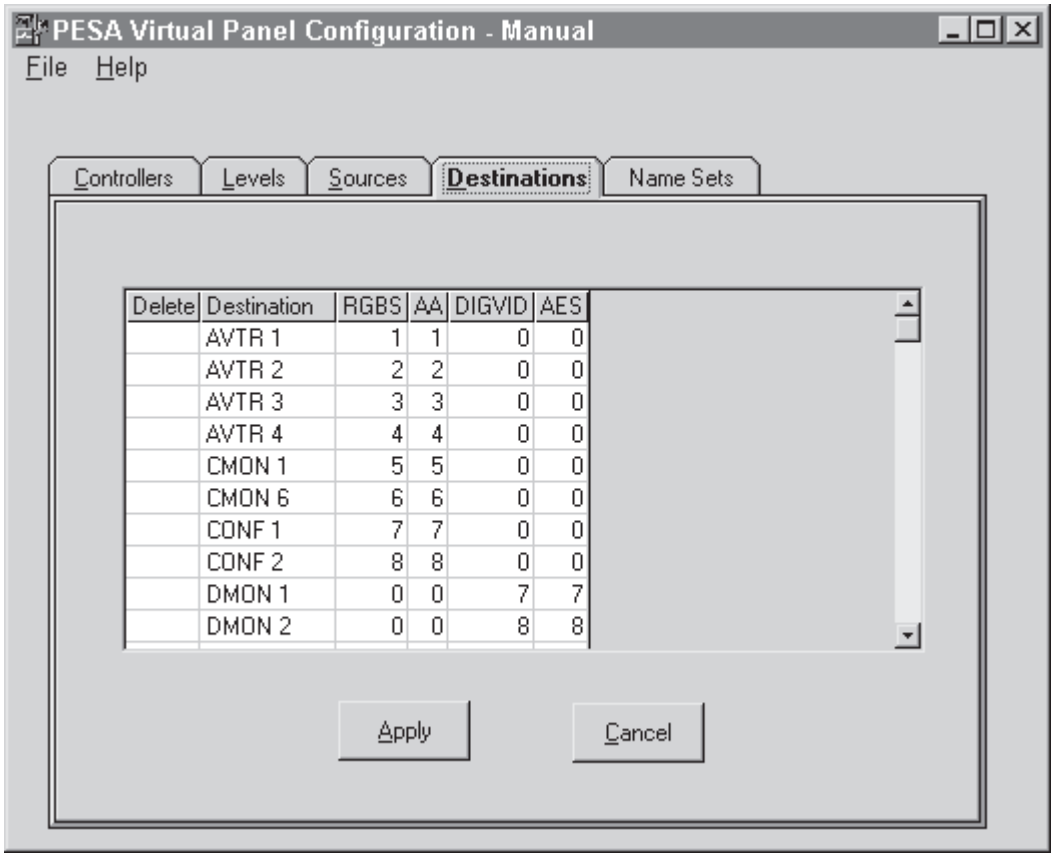

Figure 4-13 Destinations Tab

4.3 Configuration Tabs Continued:

Names Sets

The data fields available on the Name Sets Tab are Name Set and Delete. The Name Sets Tab also provides a Sources List and Destinations List to enable the quick building of Name Sets. The Group Name List displays the sources and destinations contained within the selected Name Set. The commands available on the Name Sets Tab are Add, Clear, and Delete.

The Name Set Data Field allows the configuration of a name set and the assignment of a unique alpha-numeric name, up to eight characters long, to each configured name set. Selection of the Delete Data Field enables the deletion of the corresponding name set.

The Add command allows the addition of selected source and destinations to the selected name set. The Clear command enables the clearing of the selection of sources and destinations. The Delete command enables the deletion of selected sources and destinations from the selected name set.

To configure a name set, enter the desired name set name in the correct data field. Once the name set name is entered, select the sources and destinations that will comprise the selected name set's configuration from the sources and destinations lists and select Add. When Add is selected, the Group Name List will be updated to display the selected sources and destinations.

4.3 Configuration Tabs Continued:

Names Sets Continued:

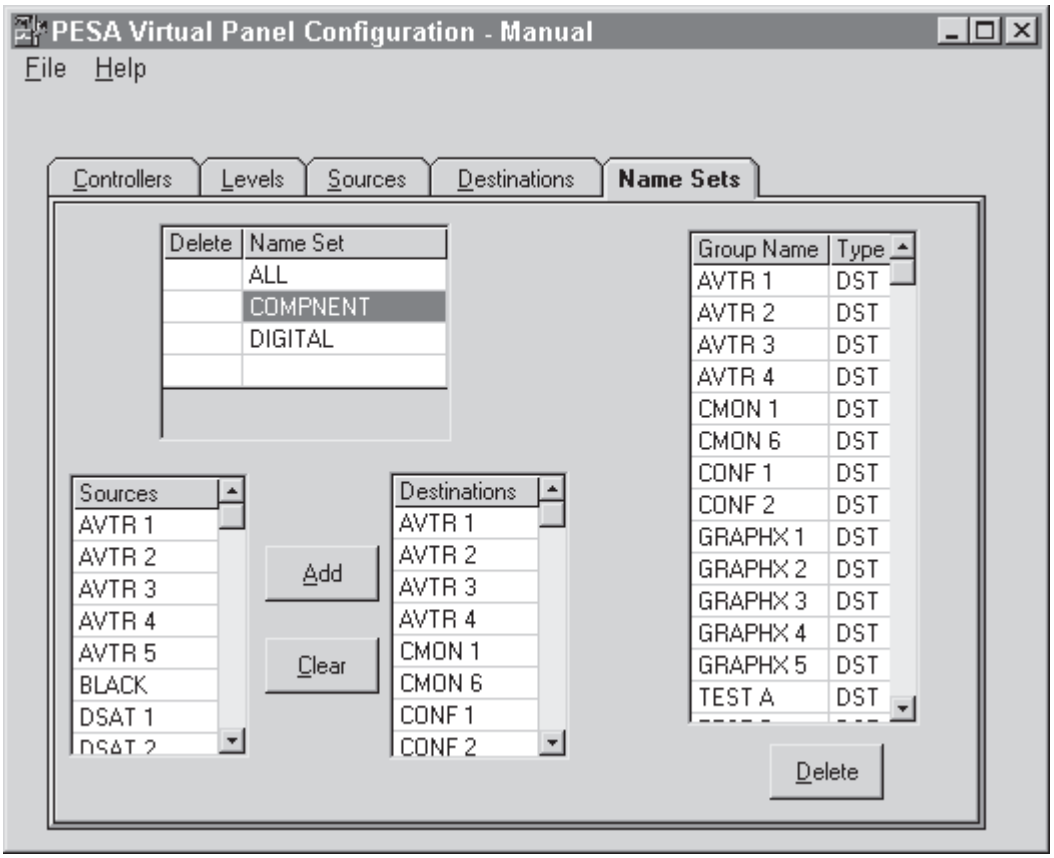

Figure 4-14 Name Sets Tab

4.4 Configuration Commands

The following paragraphs describe the commands available on the Virtual Panel Configuration Screen. Please note that the following commands are not available on the Name Set Tab.

4.4 Configuration Commands

Apply

Selecting the Apply command causes any configuration changes or edits on the current tab to be included as part of the current (open) configuration. For example, if an additional level is added to the current configuration and another tab has not been selected, selecting Apply will update the current configuration to include the new level configuration. The current changes are also updated and included into the current (open) configuration when another tab is selected. To store changes permanently, the user must select Save from the File Menu.

Cancel

Selecting the Cancel command will cancel any configuration changes to the current configuration providing another tab has not been selected prior to selecting Cancel.

4.5 PESA VP Configuration Conceptual Overview

The PESA Virtual Panel is a Windows™ based control panel that allows the user to control a PESA Routing Switcher System from a PC. The PC connects to the PESA Routing Switcher over a serial link (RS-232 or RS-422) using the PESA Routing Switcher Controller's CPU link interface. The PESA Virtual Panel can be used with any routing switcher system that supports the standard PESA CPU Link Protocol #1.

The PESA Virtual Panel can be configured for single or multiple controllers. It can map router inputs and outputs into different sources and destinations providing optimal usage of the router. Sources and destinations may be organized into different name sets due to their location, signal type or for any other reason the user requires. Through name sets, users may view and control only selected sources and destinations at one time.

The following scenarios provide examples of how to configure two different systems.

4.5 PESA VP Configuration Conceptual Overview Cont:

Single Ocelot Configuration

A single 8X8 Ocelot configuration may include 4 levels: Analog-Video, Analog-Audio, Digital-Video and Digital-Audio. In this example, the user wants to control the audio and digital as separate items even though they are resident on the same Ocelot system.

This results in the following configuration.

Controller Tab

CONTROLLER	CONTROLLER ADDRESS	NUMBER OF LEVELS
CNTL	0	4

Notes: The Controller Address of 0 indicates that this configuration is for a single controller.

Level Tab

LEVEL	LEVEL NUMBER	CONTROLLER	LEVEL OFFSET	NUMBER OF INPUTS	NUMBER OF OUTPUTS
A-VID	1	CNTL	1	8	8
A-AUD	2	CNTL	2	8	8
D-VID	3	CNTL	3	8	8
D-AUD	4	CNTL	4	8	8

Note: CNTL1 has 4 levels, therefore there is a level offset for each level associated with the controller.

4.5 PESA VP Configuration Conceptual Overview Cont:

Single Ocelot Configuration Continued:

Source Tab

SOURCE	A-VID	A-AUD	D-VID	D-AUD
ARSC 1	1	1	0	0
ASRC 2	2	2	0	0
:	:	:	:	:
ASRC 8	8	8	0	0
DSRC 1	0	0	1	1
DSRC 2	0	0	2	2
:	:	:	:	:
DSRC 8	0	0	8	8

These represent the feeds that are incoming into the routing switcher. Note that they are setup so the sources are divided between those with digital signals and those with analog signals. (**Note:** 0 as an input indicates that the source is not defined on that level.)

Destination Tab

DESTINATION	A-VID	A-AUD	D-VID	D-AUD
ADST 1	1	1	0	0
ADST 2	2	2	0	0
:	:	:	:	:
ADST 8	8	8	0	0
DDST 1	0	0	1	1
DDST 2	0	0	2	2
:	:	:	:	:
DDST 8	0	0	8	8

These represent the feeds that are driven from the routing switcher. As with the sources, the destinations are divided between those with digital signals and those with analog signals. (Note: 0 as an input indicates that the Destination is not defined on that level.)

4.5 PESA VP Configuration Conceptual Overview Cont:

Single Ocelot Configuration Continued:

Name Set Tab

ANALOG NAME SET

GROUP NAME	TYPE
ASRC 1	SRC
ASRC 2	SRC
:	:
ASRC 8	SRC
ADST 1	DST
ADST 2	DST
:	:
ADST 8	DST

DIGITAL NAME SET

GROUP NAME	TYPE
DSRC 1	SRC
DSRC 2	SRC
:	:
DSRC 8	SRC
DDST 1	DST
DDST 2	DST
:	:
DDST 8	DST

4.5 PESA VP Configuration Conceptual Overview Cont:

Single Ocelot Configuration Continued:

ALL NAME SET

GROUP NAME	TYPE
ASRC 1	SRC
ASRC 2	SRC
:	:
ASRC 8	SRC
DSRC 1	SRC
DSRC 2	SRC
:	:
DSRC 8	SRC
ADST 1	DST
ADST 2	DST
:	:
ADST 8	DST
DDST 1	DST
DDST 2	DST
:	:
DDST 8	DST

Name Sets allow the user to restrict the sources and destinations that the user sees on the PESA Virtual Panel at any one time. This reduces the clutter that a user may have to deal with when they are controlling the router. In this instance, the user can display only the digital sources and destinations by selecting the DIGITAL Name Set. The same occurs as well with the ANALOG Name Set. The ALL Name Set is a convenience that allows the user to show activity of all sources and destinations.

4.5 PESA VP Configuration Conceptual Overview Cont:

Multiple Ocelot Configuration

The PESA Virtual Panel has the capability of simultaneously controlling multiple controllers across a single RS-422 link. PESA's Ocelot, Bobcat, and LNS routing switchers support this multi-drop feature in their CPU link configurations.

A multiple controller configuration might include two Ocelot Controllers with the first having three levels and the second having four levels. These Ocelot Controllers might be located in two different rooms, Rooms A and B. From a single instance of the PESA Virtual Panel, the user can control the routing switching system in either room at the same time.

This might result in the following configuration.

Controller Tab

CONTROLLER	CONTROLLER ADDRESS	NUMBER OF LEVELS
CNTL 1	1	3
CNTL 2	2	4

Note: The controller address of 0 cannot be used since this is reserved for a single controller configuration.

Level Tab

LEVEL	LEVEL NUMBER	CONTROLLER	LEVEL OFFSET	NUMBER OF INPUTS	NUMBER OF OUTPUTS
A-VID	1	CNTL 1	1	16	16
A-LAUD	2	CNTL 1	2	16	16
A-RAUD	3	CNTL 1	3	16	16
B-VID	4	CNTL 2	1	16	16
B-LAUD	5	CNTL 2	2	16	16
B-RAUD	6	CNTL 2	3	16	16
B-TC	7	CNTL 2	4	16	16

4.5 PESA VP Configuration Conceptual Overview Cont:

Multiple Ocelot Configuration Continued:

Note: CNTL1 has 3 levels, therefore there is a level offset for each level associated with that controller. CNTL2 has 4 levels and there is a level offset for each level associated with that controller. Level offsets must be unique per controller. For example, A-VID and A-LAUD could not both have a Level Offset of 1 since they are both associated with the same controller.

Source Tab

SOURCE	A-VID	A-LAUD	A-RAUD	B-VID	B-LAUD	B-RAUD	B-TC
ASRC 1	1	0	0	0	0	0	0
ASRC 2	0	2	2	0	0	0	0
ASRC 3	3	3	3	3	0	0	0
BSRC 4	0	0	0	1	0	0	0
BSRC 5	0	0	0	0	2	2	0
BSRC 6	0	0	0	3	3	3	3

Note: 0 as an input indicates that the source is not defined on that level.

Destination Tab

DESTINATION	A-VID	A-LAUD	A-RAUD	B-VID	B-LAUD	B-RAUD	B-TC
ADST 1	1	0	0	0	0	0	0
ADST 2	0	2	2	0	0	0	0
ADST 3	3	3	3	3	0	0	0
BDST 4	0	0	0	1	0	0	0
BDST 5	0	0	0	0	2	2	0
BDST 6	0	0	0	3	3	3	3

Note: 0 as an input indicates that the Destination is not defined on that level.

4.5 PESA VP Configuration Conceptual Overview Cont:

Multiple Ocelot Configuration Continued:

Name Set Tab

ROOMA NAME SET

GROUP NAME	TYPE
ASRC 1	SRC
ASRC 2	SRC
ASRC 3	SRC
ADST 1	DST
ADST 2	DST
ADST 3	DST

ROOMB NAME SET

GROUP NAME	TYPE
BSRC 4	SRC
BSRC 5	SRC
BSRC 6	SRC
BDST 4	DST
BDST 5	DST
BDST 6	DST

ALL NAME SET

GROUP NAME	TYPE
ASRC 1	SRC
ASRC 2	SRC
ASRC 3	SRC
BSRC 4	SRC
BSRC 5	SRC
BSRC 6	SRC
ADST 1	DST
ADST 2	DST
ADST 3	DST
BDST 4	DST
BDST 5	DST
BDST 6	DST

4.5 PESA VP Configuration Conceptual Overview Cont:

Multiple Ocelot Configuration Continued:

Note: In grouping the sources and destinations into a name set such as ROOMA, the ROOMA name set may be selected from the PESA Virtual Panel and only the sources and destinations for room A, i.e. controller 1, are displayed. Likewise, if the user chooses to view only ROOMB sources and destinations, the ROOMB name set may be selected and the user will view only those sources and destinations controlled by controller 2. The ALL name set is used to control and status all sources and destinations.

5.1 Introduction

The following paragraphs describe the building of an example configuration to assist the user in learning to build virtual panel configurations. The example configuration consists of one controller, four 16X16 levels (an analog video level, an analog audio level, a digital video level, and a digital audio level), sources, destinations, and three name sets. Additional configuration items are listed in tables included in the following paragraphs. To begin building the example configuration, open the PESA Virtual Panel Configuration Program and select New from the File Menu.

NOTE: The example configuration file is included as part of PESA Virtual Panel Software Package.

5.2 Controllers

Selecting New from the File Menu will open a blank Virtual Panel Configuration Screen. To continue building the example configuration, select the Controllers Tab (Figure 5-1) and then select the Controller Data Field.

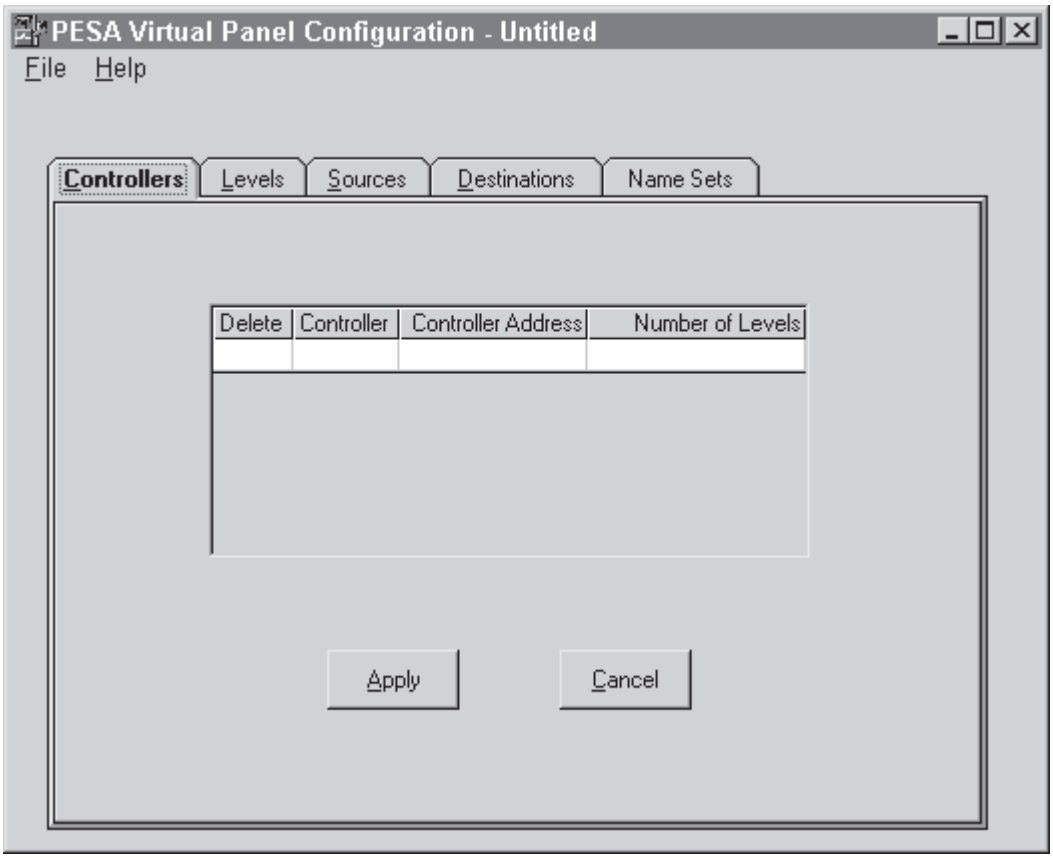

Figure 5-1 Blank Controllers Tab

5.2 Controllers Continued:

To continue building the example configuration, enter the configuration information found in Table 5-1 into the appropriate data fields. Enter the controller's name (OCELOT) in the Controller Data Field, the controller's address (0) in the Controller Address Data Field, and the number of levels (4) in the Numbers of Levels Data Field.

Table 5-1 Controllers

CONTROLLERS		
CONTROLLER	**CONTROLLER ADDRESS**	**NUMBER OF LEVELS**
OCELOT	0	4

Once the example configuration's controller information is entered into the appropriate data fields, the Controller Tab should appear similar to the one shown in Figure 5-2.

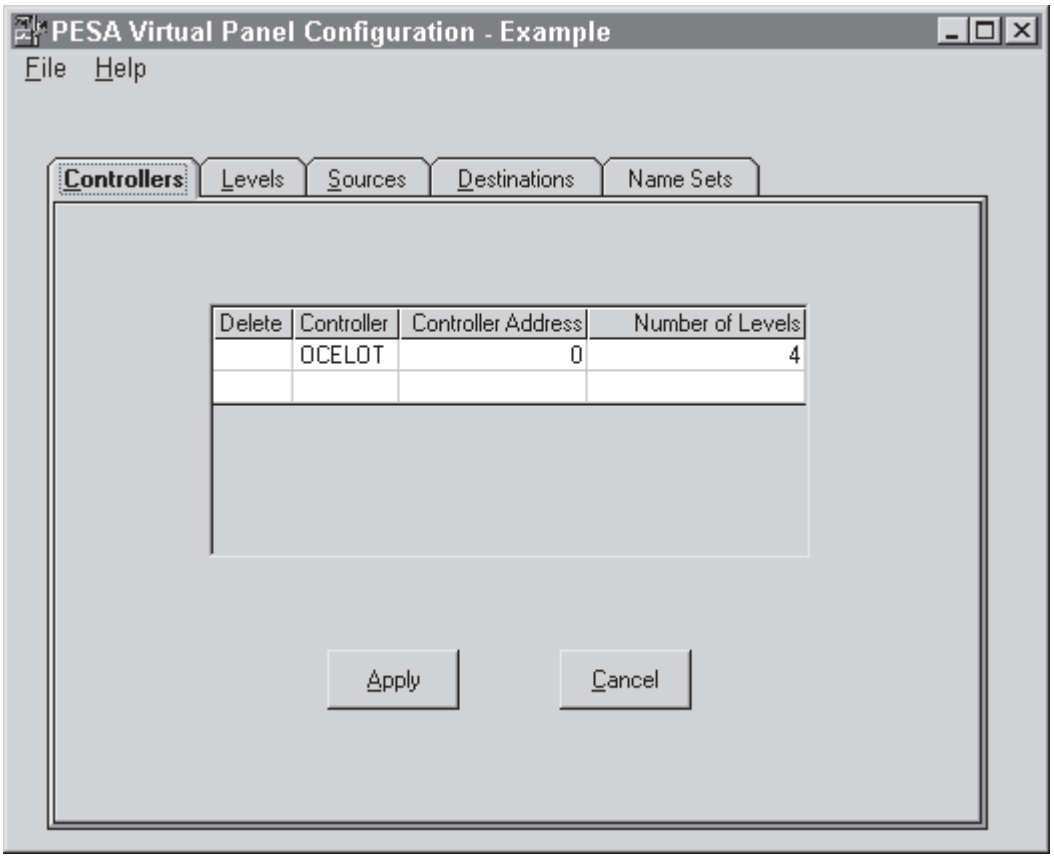

Figure 5-2 Example Configuration Controllers Tab

5.3 Levels

To continue building the example configuration, select the Levels Tab (Figure 5-3) and enter the configuration information found in Table 5-2 into the appropriate data fields. Enter the first level's name (RGBS) in the Level Data Field and the level number (1) in the Number Data Field or allow the configuration software to automatically assign the next available number. Select the OCELOT Controller from the Controller List (Controller Data Field). Once the level name and number are assigned and the controller is selected, enter the level's offset (1) in the Level Offset Data Field, the number of inputs (16) in the Number of Inputs Data Field, and the number of outputs (16) in the Number of Outputs Data Field.

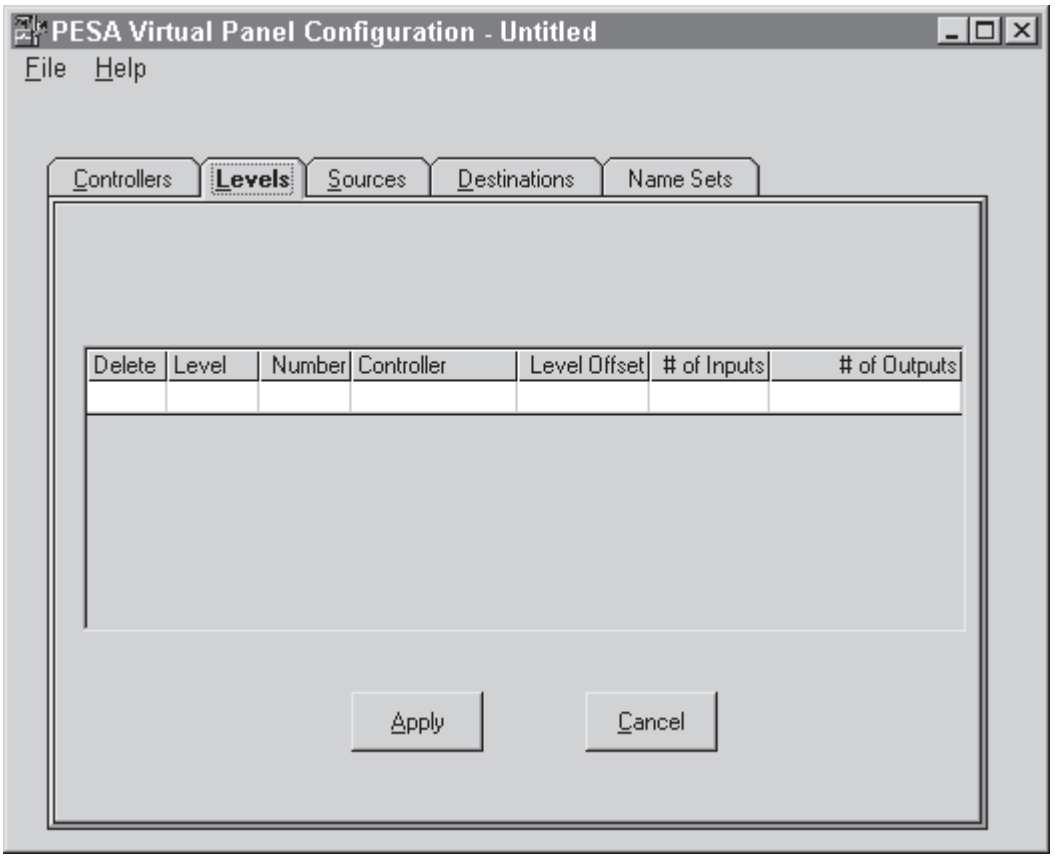

Figure 5-3 Blank Levels Tab

To continue configuring the example configuration's levels, enter the levels configuration information found in Table 5-2 in the corresponding Levels Tab data fields.

5.3 Levels Continued:

Table 5-2 Levels

LEVELS					
LEVEL	NUMBER	CONTROLLER	LEVEL OFFSET	NUMBER OF INPUTS	NUMBER OF OUTPUTS
RGBS	1	OCELOT	1	16	16
AA	2	OCELOT	2	16	16
DIGVID	3	OCELOT	3	16	16
AES	4	OCELOT	4	16	16

Once the example configuration's levels information is entered into the appropriate data fields, the Levels Tab should appear similar to the one shown in Figure 5-4.

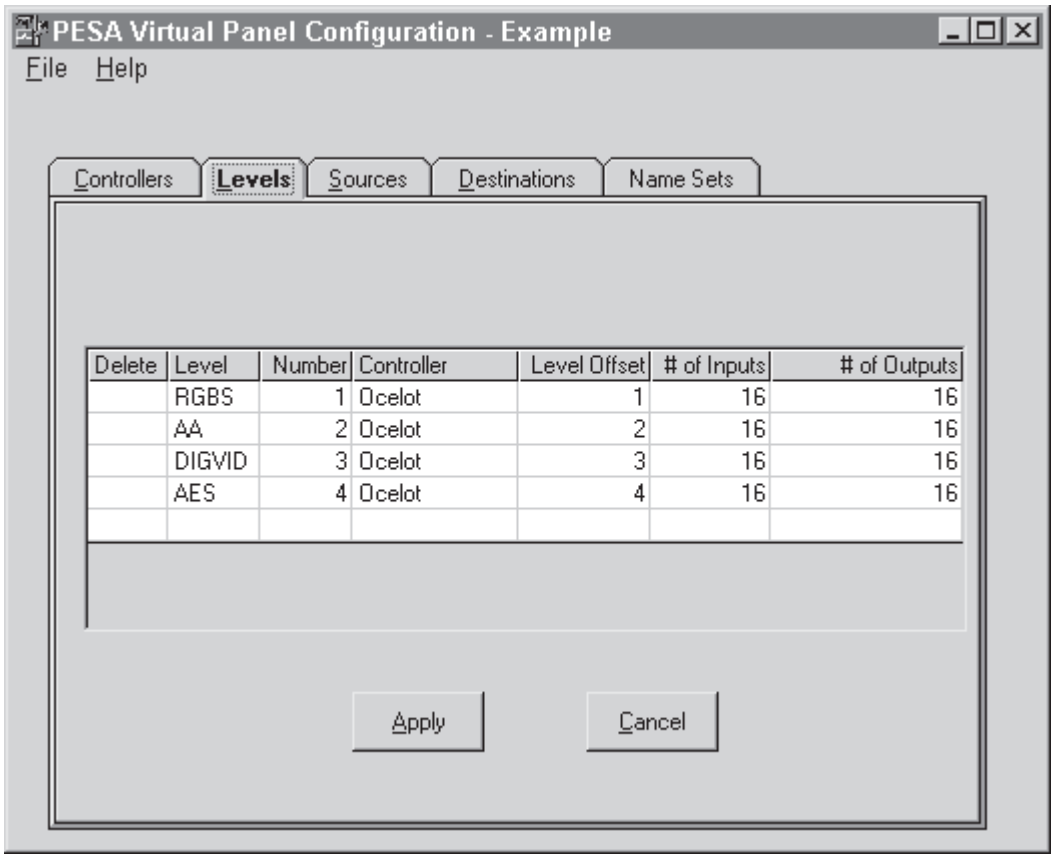

Figure 5-4 Example Configuration Levels Tab

5.4 Sources

To continue building the example configuration, select the Sources Tab (Figure 5-5) and enter the configuration information found in Table 5-3 into the appropriate data fields. Enter the first source's name (AVTR 1) in the Source Data Field, the output number assignment for the RGBS Level (1) in the RGBS Data Field, and the output number assignment for the AA Level (1) in the AA Data Field. Please note that the DIGVID Level and the AES Level are not assigned output numbers for the source AVTR 1 and the corresponding data fields are assigned the value "0" (unassigned).

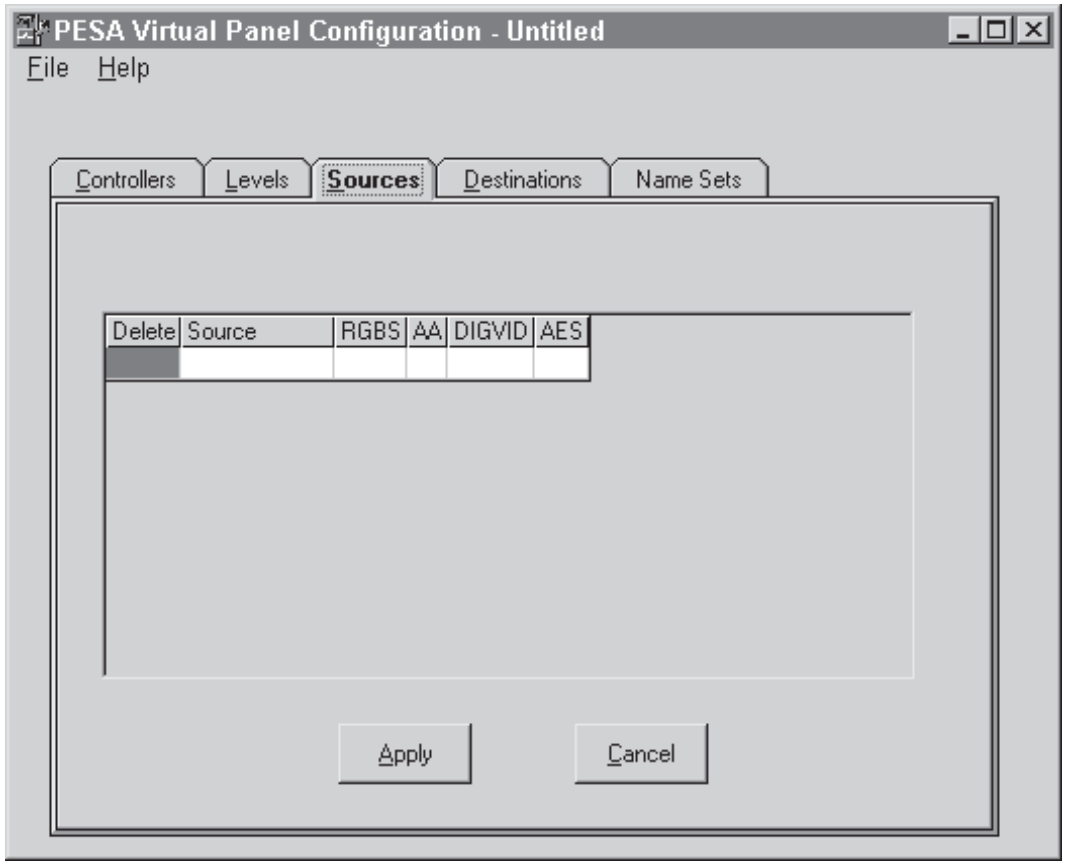

Figure 5-5 Blank Sources Tab

To continue configuring the example configuration's sources, enter the source configuration information found in Table 5-3 in the corresponding Sources Tab data fields.

5.4 Sources Continued:

Table 5-3 Sources

SOURCES TABLE

SOURCES	RGBS LEVELS	AA LEVELS	DIGVID LEVELS	AES LEVELS
AVTR 1	1	1	0	0
AVTR 2	2	2	0	0
AVTR 3	3	3	0	0
AVTR 4	4	4	0	0
AVTR 5	5	5	0	0
BLACK	6	6	0	0
DSAT 1	0	0	14	14
DSAT 2	0	0	15	15
DSAT 3	0	0	16	16
DVTR 1	0	0	1	1
DVTR 2	0	0	2	2
DVTR 3	0	0	3	3
DVTR 4	0	0	4	4
DVTR 5	0	0	5	5
DVTR 6	0	0	6	6
GRAPHX 1	12	12	0	0
GRAPHX 2	13	13	0	0
GRAPHX 3	14	14	0	0
GRAPHX 4	15	15	0	0
GRAPHX 5	16	16	0	0
PC 1	0	0	7	7
PC 2	0	0	8	8
PC 3	0	0	9	9
SGI	0	0	13	13
SGIEDITA	11	11	0	0
SGIEDITB	10	10	0	0
SUN 1	0	0	10	10
SUN 2	0	0	11	11
SUN 3	0	0	12	12
WALL 1	7	7	0	0
WALL 2	8	8	0	0
WALL 3	9	9	0	0

5.4 Sources Continued:

Once the example configuration's sources information is entered into the appropriate data fields, the Sources Tab should appear similar to the one shown in Figure 5-6.

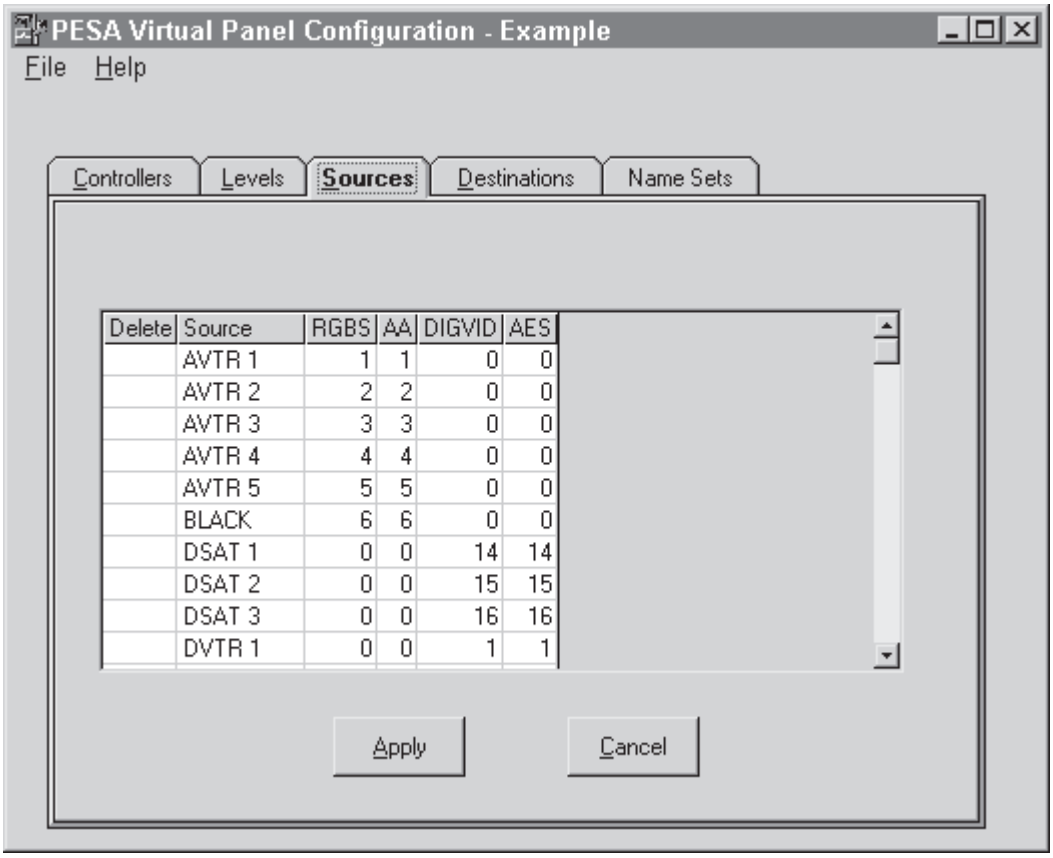

Figure 5-6 Example Configuration Sources Tab

5.5 Destinations

To continue building the example configuration, select the Destinations Tab (Figure 5-7) and enter the configuration information found in Table 5-4 into the appropriate data fields. Enter the first destination's name (AVTR 1) in the Destination Data Field, the input number assignment for the RGBS Level (1) in the RGBS Data Field, and the input number assignment for the AA Level (1) in the AA Data Field. Please note that the DIGVID Level and the AES Level are not assigned input numbers for the source AVTR 1 and the corresponding data fields are assigned the value "0" (unassigned).

5.5 Destinations Continued:

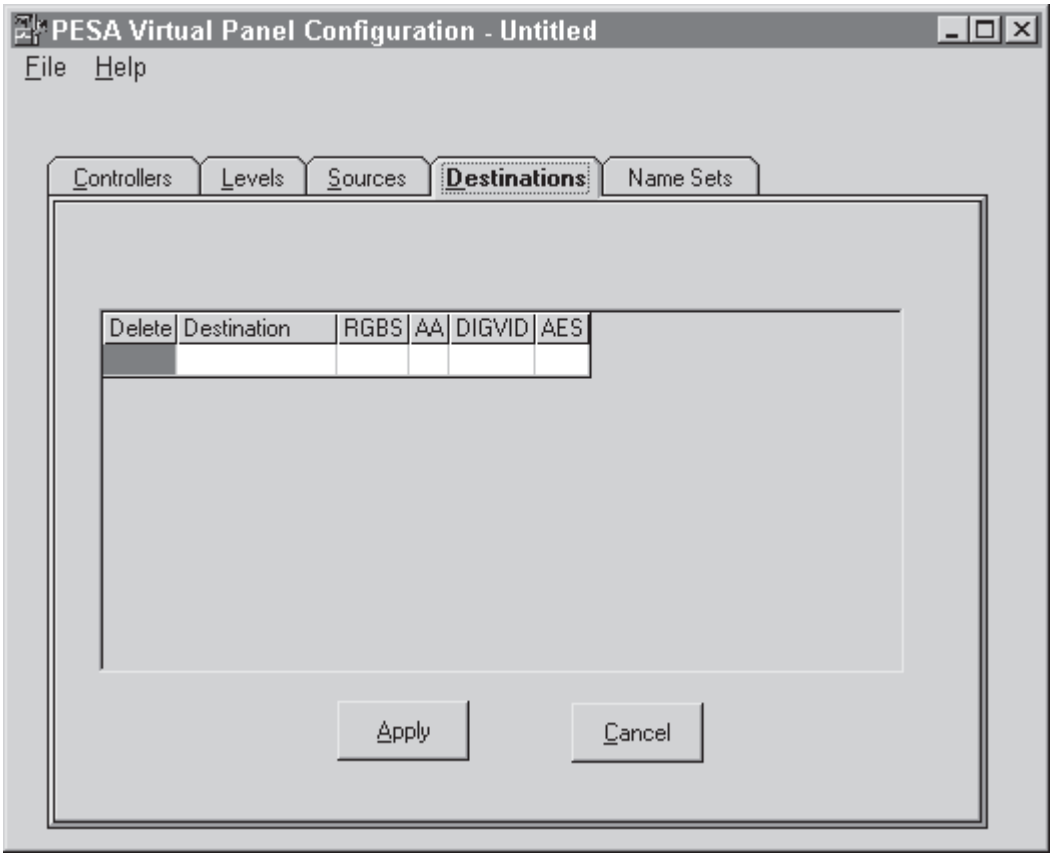

Figure 5-7 Blank Destinations Tab

To continue configuring the example configuration's destinations, enter the destination configuration information found in Table 5-4 in the corresponding Destination Tab data fields.

5.5 Destinations Continued:

Table 5-4 Destinations

DESTINATIONS TABLE

		LEVELS		
DESTINATIONS	**RGBS**	**AA**	**DIGVID**	**AES**
AVTR 1	1	1	0	0
AVTR 2	2	2	0	0
AVTR 3	3	3	0	0
AVTR 4	4	4	0	0
CMON 1	5	5	0	0
CMON 6	6	6	0	0
CONF 1	7	7	0	0
CONF 2	8	8	0	0
DMON 1	0	0	7	7
DMON 2	0	0	8	8
DMON 3	0	0	9	9
DMON 4	0	0	10	10
DVTR 1	0	0	1	1
DVTR 2	0	0	2	2
DVTR 3	0	0	3	3
DVTR 4	0	0	4	4
DVTR 5	0	0	5	5
DVTR 6	0	0	6	6
DWALL 1	0	0	11	11
DWALL 2	0	0	12	12
DWALL 3	0	0	13	13
GRAPHX 1	12	12	0	0
GRAPHX 2	13	13	0	0
GRAPHX 3	14	14	0	0
GRAPHX 4	15	15	0	0
GRAPHX 5	16	16	0	0
QC DVID	0	0	16	16
TEST A	10	10	0	0
TEST B	11	11	0	0
TEST BAR	9	9	0	0
TXMIT 1D	0	0	14	14
TXMIT 2D	0	0	15	15

5.5 Destinations Continued:

Once the example configuration's destinations information is entered into the appropriate data fields, the Destinations Tab should appear similar to the one shown in Figure 5-8.

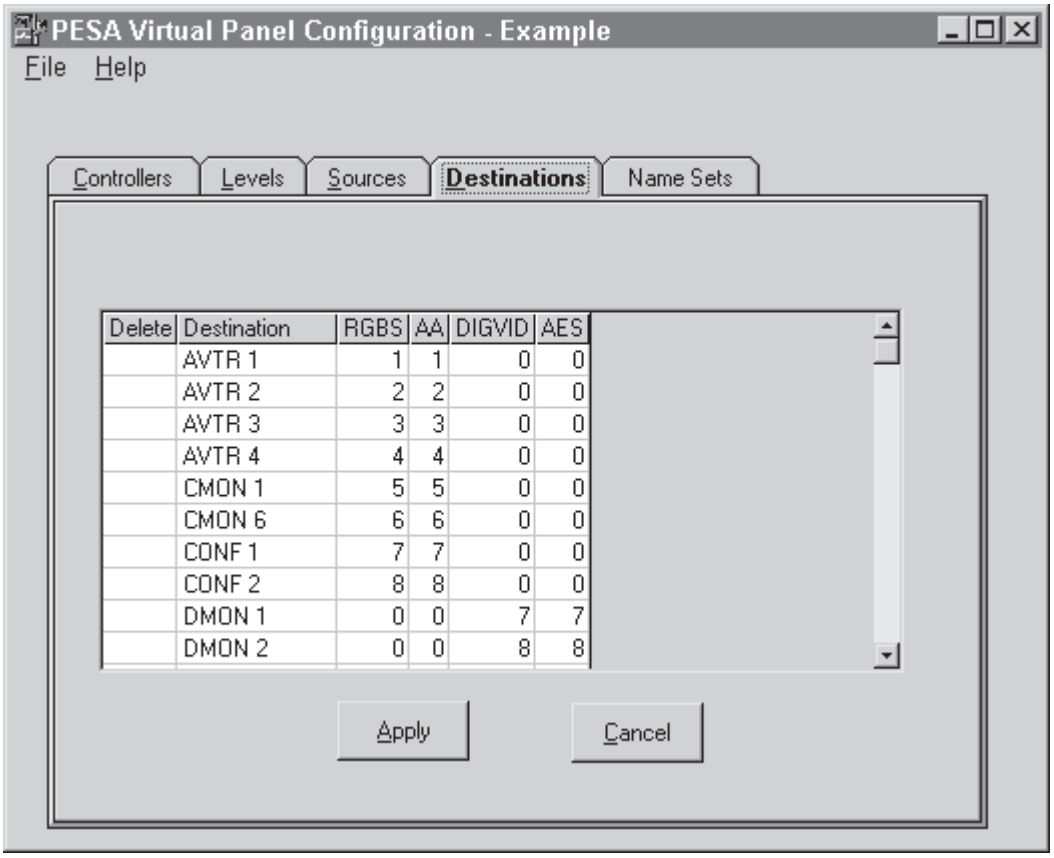

Figure 5-8 Example Configuration Destinations Tab

5.6 Name Sets

To continue building the example configuration, select the Name Sets Tab (Figure 5-9). Three logical name sets (ALL, COMPNENT, and DIGITAL) will be configured as part of the example configuration demonstration. The ALL Name Set will be configured will all previously configured sources and destinations assigned. The COMPNENT Name Set will be configured with the previously configured analog sources and destinations assigned and the DIGITAL Name Set will be configured with the previously configured digital sources and destinations assigned.

5.6 Name Sets Continued:

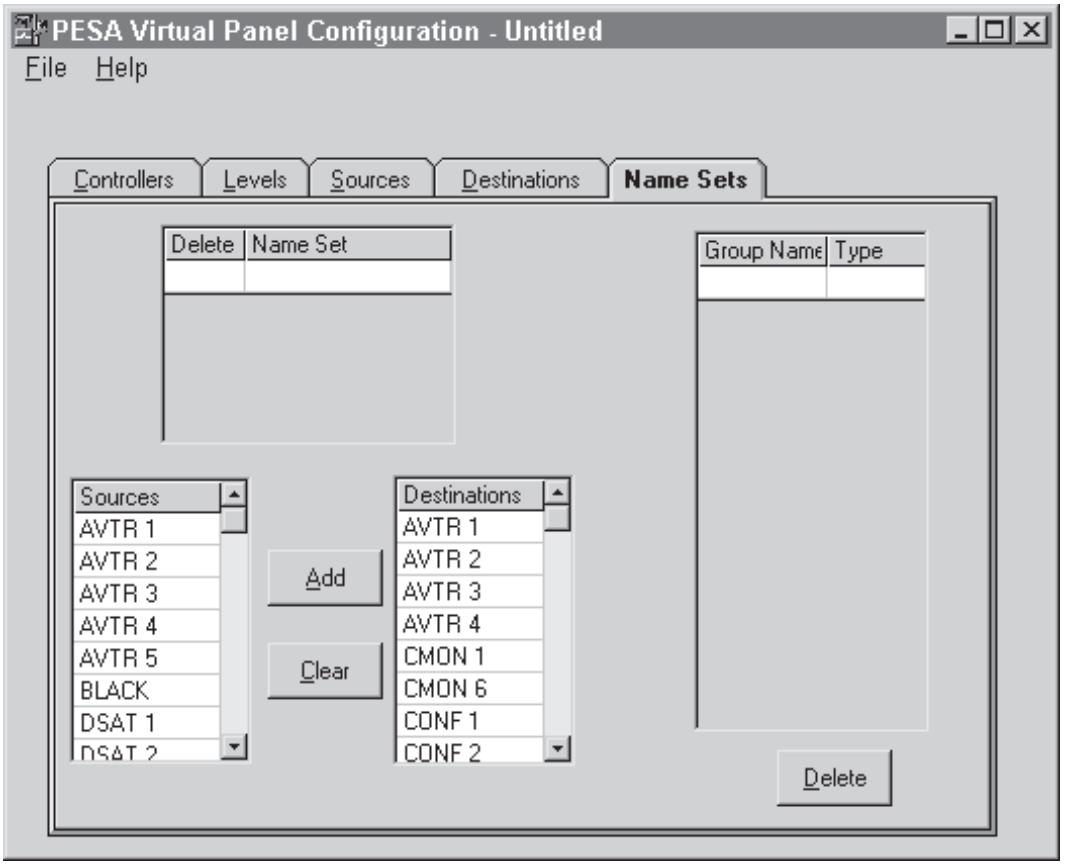

Figure 5-9 Blank Name Sets Tab

To continue building the example configuration name sets, enter ALL in the Name Set Data Field. Select all sources from the Sources List and all destinations from the Destinations List as shown in Table 5-5. Once the sources and destinations are selected, select Add to complete the configuration of the ALL Name Set.

5.6 Name Sets Continued:

Table 5-5 All Name Set

NAME SET ALL TABLE

DESTINATIONS		SOURCES	
AVTR 1	DST	AVTR 1	SRC
AVTR 2	DST	AVTR 2	SRC
AVTR 3	DST	AVTR 3	SRC
AVTR 4	DST	AVTR 4	SRC
CMON 1	DST	AVTR 5	SRC
CMON 6	DST	BLACK	SRC
CONF 1	DST	DSAT 1	SRC
CONF 2	DST	DSAT 2	SRC
DMON 1	DST	DSAT 3	SRC
DMON 2	DST	DVTR 1	SRC
DMON 3	DST	DVTR 2	SRC
DMON 4	DST	DVTR 3	SRC
DVTR 1	DST	DVTR 4	SRC
DVTR 2	DST	DVTR 5	SRC
DVTR 3	DST	DVTR 6	SRC
DVTR 4	DST	GRAPHX 1	SRC
DVTR 5	DST	GRAPHX 2	SRC
DVTR 6	DST	GRAPHX 3	SRC
DWALL 1	DST	GRAPHX 4	SRC
DWALL 2	DST	GRAPHX 5	SRC
DWALL 3	DST	PC 1	SRC
GRAPHX 1	DST	PC 2	SRC
GRAPHX 2	DST	PC 3	SRC
GRAPHX 3	DST	SGI	SRC
GRAPHX 4	DST	SGIEDITA	SRC
GRAPHX 5	DST	SGIEDITB	SRC
QC DVID	DST	SUN 1	SRC
TEST A	DST	SUN 2	SRC
TEST B	DST	SUN 3	SRC
TEST BAR	DST	WALL 1	SRC
TXMIT 1D	DST	WALL 2	SRC
TXMIT 2D	DST	WALL 3	SRC

5.6 Name Sets Continued:

To continue building the example configuration name sets, enter COMPNENT in the Name Set Data Field below the ALL entry. Select the analog sources from the Sources List and the analog destinations from the Destinations List as shown in Table 5-6. Once the analog sources and destinations are selected, select Add to complete the configuration of the COMPNENT Name Set.

Table 5-6 Compnent Name Set

NAME SET COMPNENT TABLE

DESTINATIONS		SOURCES	
AVTR 1	DST	AVTR 1	SRC
AVTR 2	DST	AVTR 2	SRC
AVTR 3	DST	AVTR 3	SRC
AVTR 4	DST	AVTR 4	SRC
CMON 1	DST	AVTR 5	SRC
CMON 6	DST	BLACK	SRC
CONF 1	DST	GRAPHX 1	SRC
CONF 2	DST	GRAPHX 2	SRC
GRAPHX 1	DST	GRAPHX 3	SRC
GRAPHX 2	DST	GRAPHX 4	SRC
GRAPHX 3	DST	GRAPHX 5	SRC
GRAPHX 4	DST	SGIEDITA	SRC
GRAPHX 5	DST	SGIEDITB	SRC
TEST A	DST	WALL 1	SRC
TEST B	DST	WALL 2	SRC
TEST BAR	DST	WALL 3	SRC

To continue building the example configuration name sets, enter DIGITAL in the Name Set Data Field below the COMPNENT entry. Select the digital sources from the Sources List and the digital destinations from the Destinations List as shown in Table 5-7. Once the digital sources and destinations are selected, select Add to complete the configuration of the DIGITAL Name Set.

5.6 Name Sets Continued:

Table 5-7 Digital Name Set

NAME SET DIGITAL TABLE

DESTINATIONS		SOURCES	
DMON 1	DST	DSAT 1	SRC
DMON 2	DST	DSAT 2	SRC
DMON 3	DST	DSAT 3	SRC
DMON 4	DST	DVTR 1	SRC
DVTR 1	DST	DVTR 2	SRC
DVTR 2	DST	DVTR 3	SRC
DVTR 3	DST	DVTR 4	SRC
DVTR 4	DST	DVTR 5	SRC
DVTR 5	DST	DVTR 6	SRC
DVTR 6	DST	PC 1	SRC
DWALL 1	DST	PC 2	SRC
DWALL 2	DST	PC 3	SRC
DWALL 3	DST	SGI	SRC
QC DVID	DST	SUN 1	SRC
TXMIT 1D	DST	SUN 2	SRC
TXMIT 2D	DST	SUN 3	SRC

Once the example configuration's name sets are configured, the Name Sets Tab should appear similar to the one shown in Figure 5-10.

5.6 Name Sets Continued:

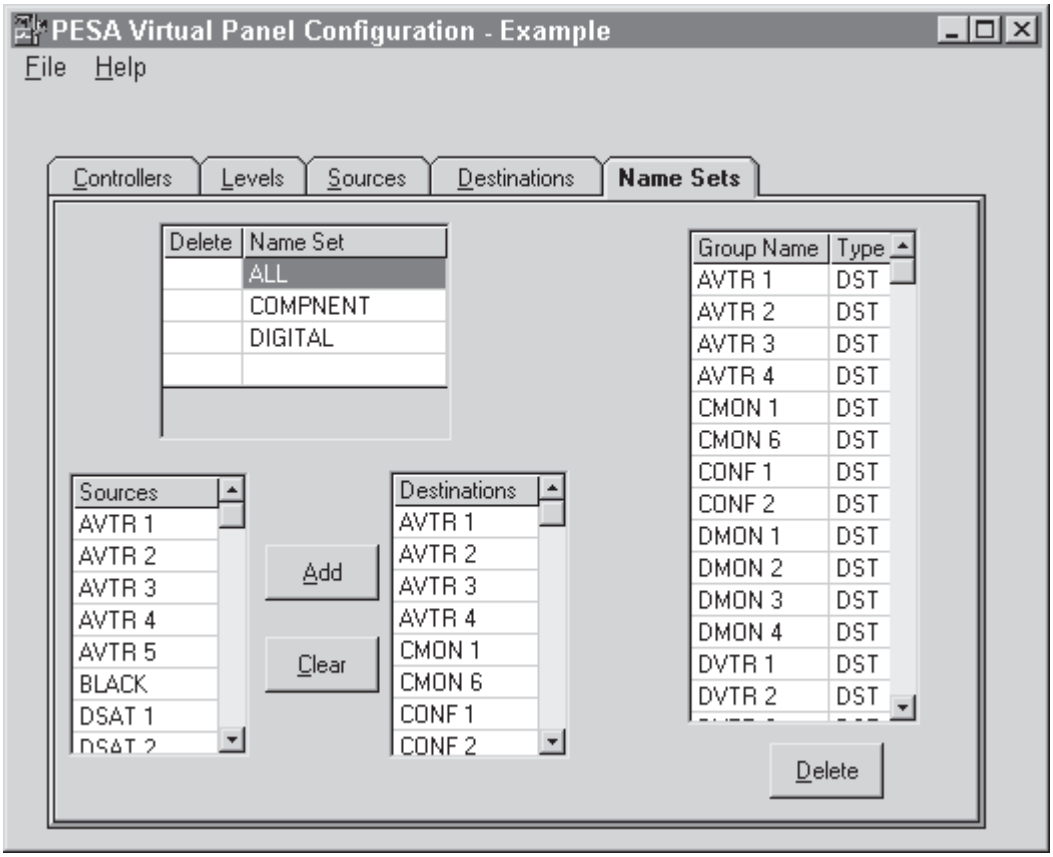

Figure 5-10 Example Configuration Name Sets Tab

5.7 Example Configuration Save

Once the example configuration is completed, save the example configuration as "Example" and make the example configuration the default configuration. Refer to the Save Section of this manual to resolve any questions concerning the save operation. Once the example configuration is saved and selected to be the default configuration, exit from the PESA Virtual Panel Configuration Program.

6.1 Introduction

Selecting and clicking on PESA Virtual Panel in the PESA Virtual Panel Program Group or selecting and clicking on the PESA Virtual Panel Icon will open the PESA Virtual Panel Program. Once the PESA Virtual Panel is open, the PESA Virtual Panel Screen will be displayed (Figure 6-1). Note that the default configuration's (example configuration's) information is displayed on the PESA Virtual Panel Screen.

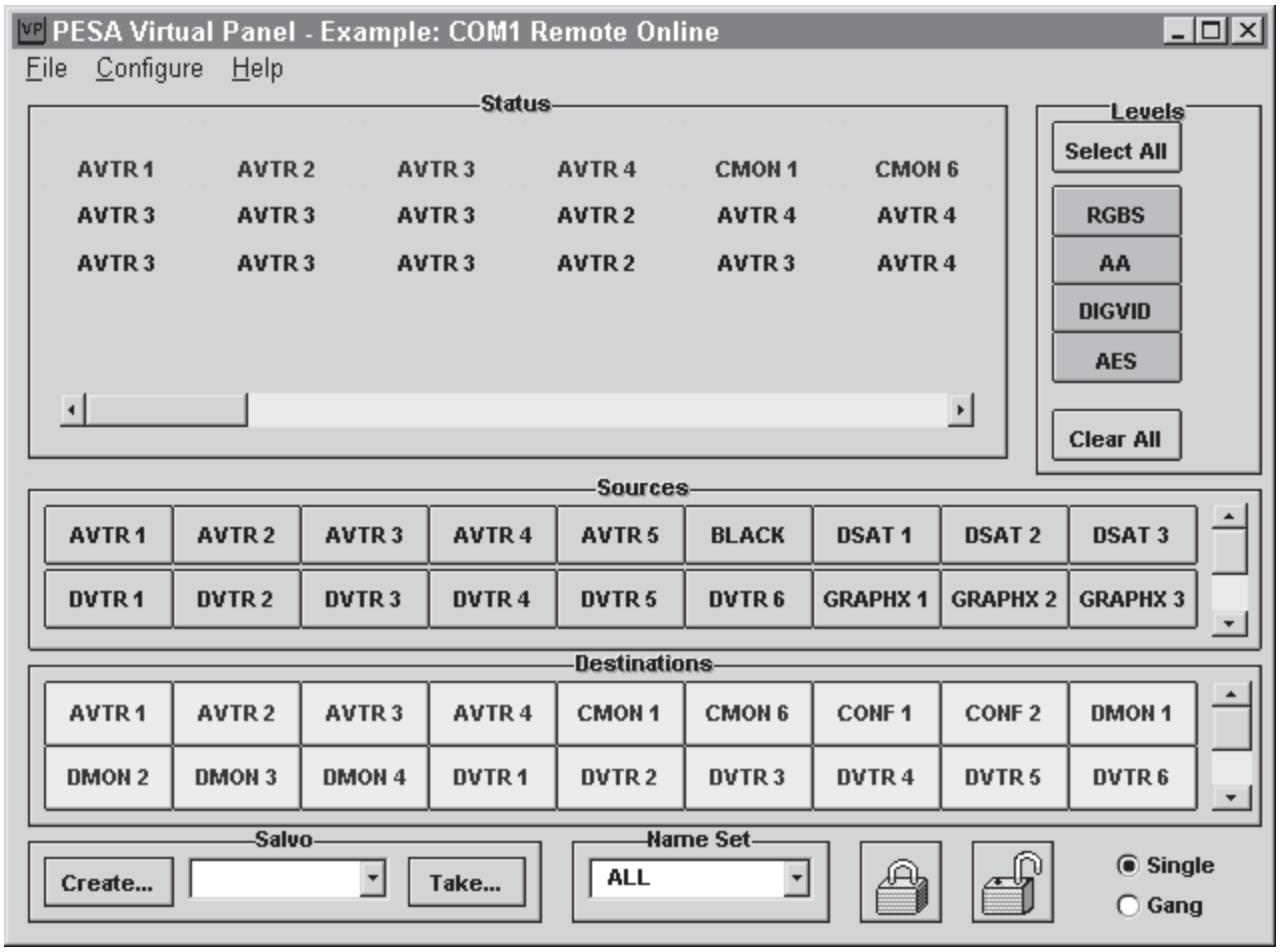

Figure 6-1 PESA Virtual Panel Screen

General

There are up to four level keys, source keys, and destination keys on the PESA Virtual Panel Screen. Additionally, there are keys and scrolling menus on the PESA Virtual Panel Screen to facilitate the selection of levels (Select All Key and Clear All Key), to select and take (Take Key) presets/salvo, to select name sets, and to lock and unlock destinations (Lock Key and Unlock Key).

6.1 Introduction Continued:

The Single Selection allows the selection of a single destination per switch, while the Gang Selection allows the selection of multiple destinations per switch. The selection of Create enables the user to create new salvos, edit existing salvos, and delete existing salvos. The creation, editing, and deletion of salvos is described in the Preset/Salvo Creation Section of this manual.

6.2 Operation Menus

The main configuration menus on the PESA Virtual Panel Screen are File, Configure, and Help. The File Menu provides access to the Open, Default, 3300/3500 Config Autoload, Force Load, and Exit menu functions (Figure 6-2). The Configure Menu provides access to the Local Locking Only, Communications, Call Remote, and Hangup functions (Figure 6-3). The Help Menu provides access to the Contents and About functions (Figure 6-4).

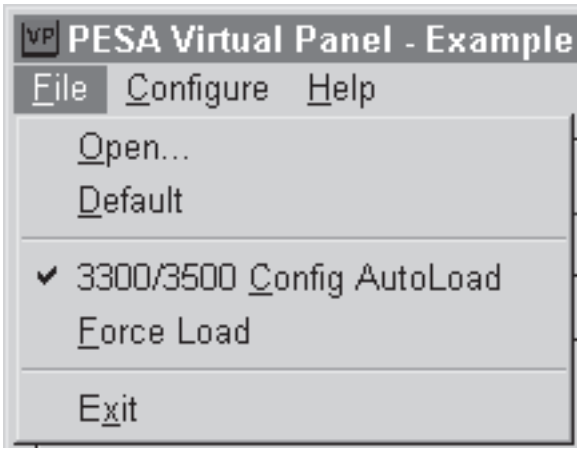

Figure 6-2 File Menu Functions

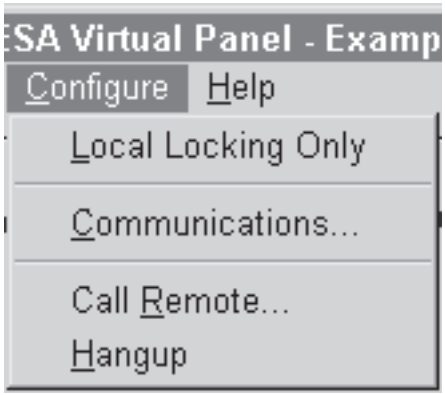

Figure 6-3 Configure Menu Functions

6.2 Operation Menus Continued:

Figure 6-4 Help Menu Functions

Open

Selecting Open in the File Menu will cause the Open Screen (Figure 6-5) to be displayed. The Open Screen enables the user to open existing Virtual Panel Configurations (controller, levels, sources, destinations, and name set information) into the PESA Virtual Panel Screen.

To open the desired configuration, click on the desired configuration name or type in the desired configuration name into the File Name Data Field and select Open.

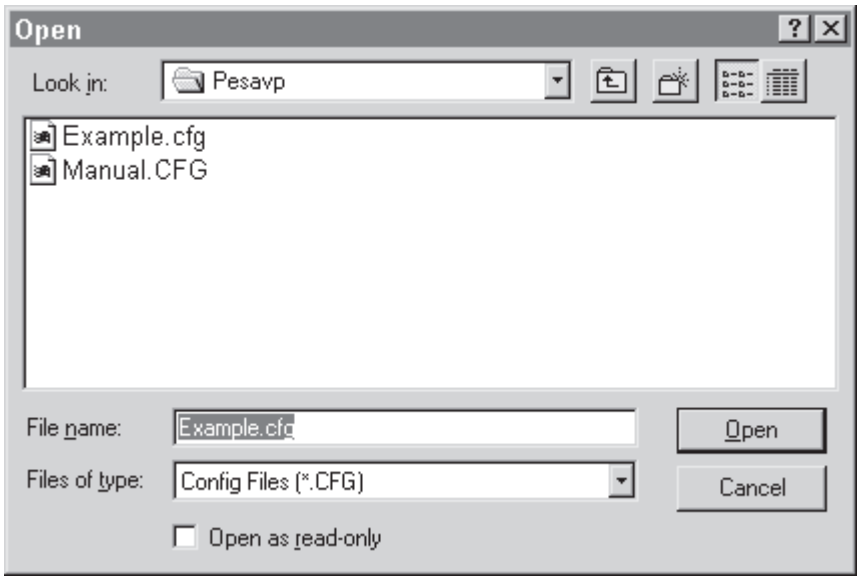

Figure 6-5 Open Screen

Default

Selecting Default from the File Menu will open the default configuration and update the PESA Virtual Panel Screen to reflect the default configuration's functional information. The default configuration is a general configuration that represents a PESA Ocelot Switching System configuration.

6.2 Operation Menus Continued:

3300/3500 Config Autoload

Selecting 3300/3500 Config Autoload from the File Menu will activate the automatic loading, into the PESA Virtual Panel, of the current 3300/3500 Controller configuration. Please note that the autoload function can only utilized when a 3300 Controller or 3500 Controller is part of the routing switcher system configuration. The current 3300/3500 Controller configuration will also be loaded when the PESA Virtual Panel is opened while 3300/3500 Config Autoload is selected. Please note that when 3300/3500 Config Autoload is selected, it will stay selected until it is deselected.

Force Load

Selecting Force Load from the File Menu will force the PESA Virtual Panel to re-load the current 3300/3500 Controller configuration. Force Load is only active when 3300/3500 Config Autoload is selected.

Exit

Selecting Exit from the File Menu will close the PESA Virtual Panel Program and return you to the Windows™ desktop.

Local Locking Only

When Local Locking Only is selected from the Configure Menu, locks made at the PESA Virtual Panel are not visible to the routing switcher system and only affect the operation of the PESA Virtual Panel. Please note that when Local Locking Only is selected, it will stay selected until it is deselected. Local locking is useful when a high degree of source and destination mapping is used in the system configuration. It prevents a lock of one destination from locking other destinations as well.

NOTE: When implemented locks made at the PESA Virtual Panel do not appear on the physical routing switcher control panels.

Communications

Selecting Communications from the Configure Menu will open the Configure Settings Screen (Figure 6-6). The Configure Settings Screen enables the user to select the system computer's communications port that will be utilized for communications to and from the system controller via direct connection or modem. Selections Com1 - Com4 are standard communications port selections, while the Simulator Selection allows the user to practice using the PESA Virtual Panel without taking actual switches on the routing switcher system.

6.2 Operation Menus Continued:

Communications Continued:

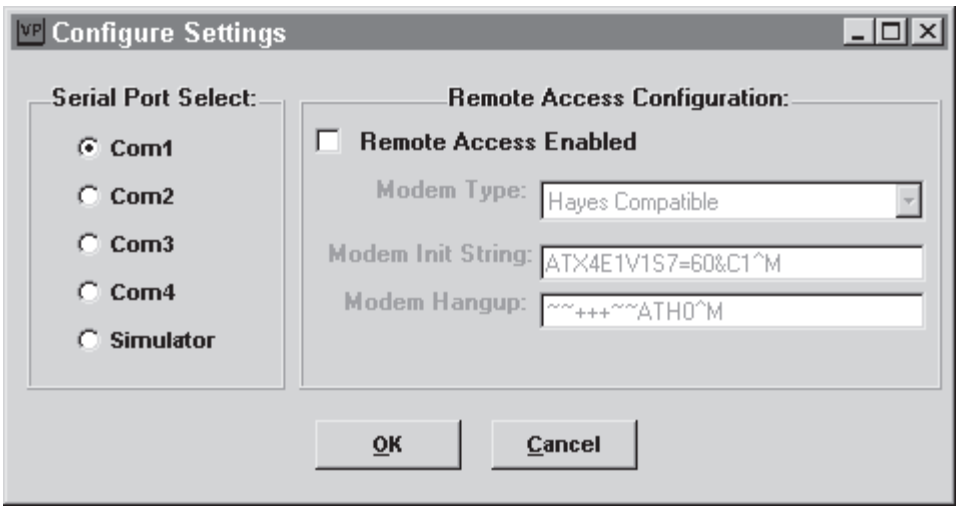

Figure 6-6 Configure Settings Screen

Local Communications Configuration

To select the desired direct communications port, click on the desired selection and then select OK. Selecting Cancel will abort the selection of a communications port.

NOTE: If the incorrect communications port is selected, the switching system may appear to be inoperative as the PESA Virtual Panel Program tries unsuccessfully to communicate with the controller.

Remote Communications Configuration

The following paragraphs describe the initial configuration of dial-up modem communications link between the PESA Virtual Panel and a remote system controller. Please note that the following remote communications configuration guide is meant to be example and does not cover all possible communication configurations.

To select the desired modem communications port, click on the communications port selection corresponding to the modem communications port connection and then select Remote Access Enabled (Figure 6-7).

6.2 Operation Menus Continued:

Communications Continued:

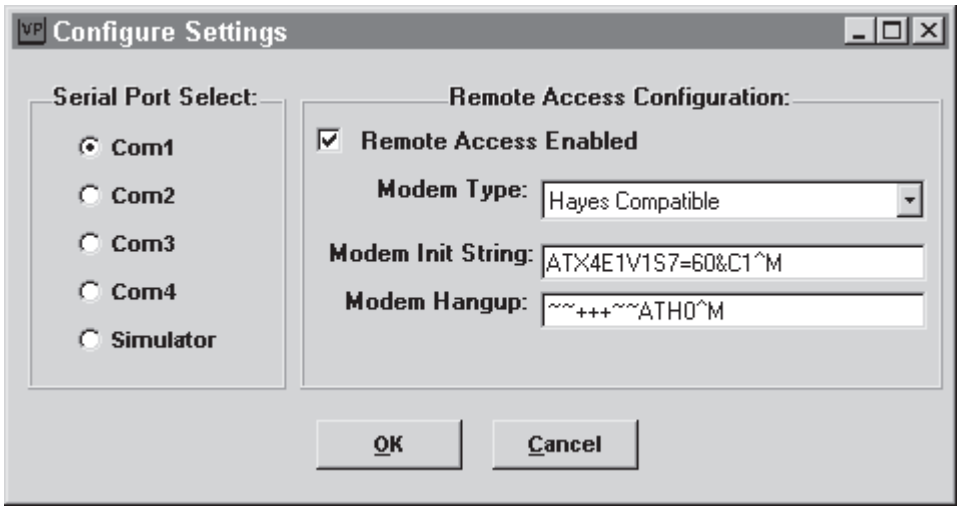

Figure 6-7 Configure Settings Screen (Remote Access Enabled)

Once Remote Access enabled is selected, select the communications modem from the Modem Type List which corresponds to the local modem in the routing switcher communications system. (If there is not an exact match on the Modems Type List, select Hayes Compatible (Figure 6-8).) Please note that the Modem Init String Data Field and the Modem Hangup Data Field are automatically updated to be compliant with the selected modem.

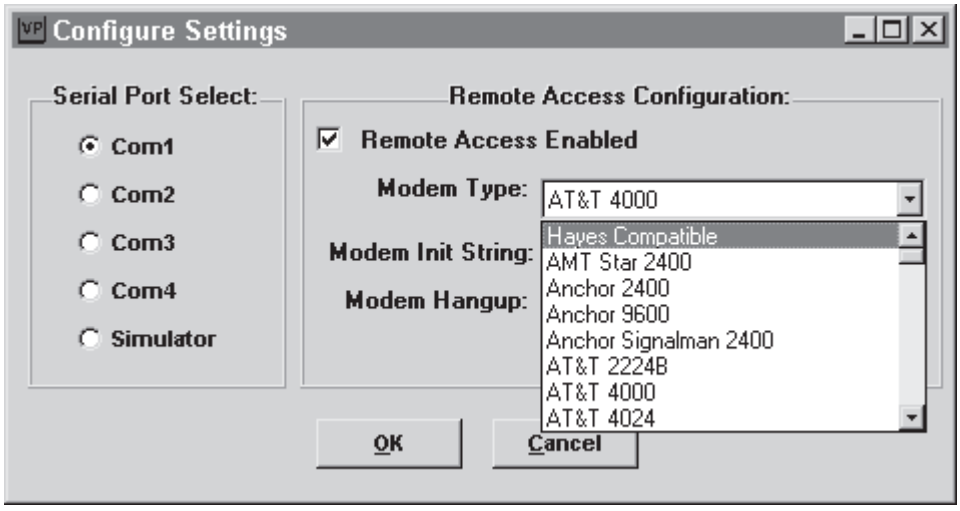

Figure 6-8 Modem Type List Screen

6.2 Operation Menus Continued:

Communications Continued:

Once the modem type is selected, select OK. Selecting OK will open the Virtual Panel Connect Screen (Figure 6-9). Select New to continue the configuration of the initial remote communications link.

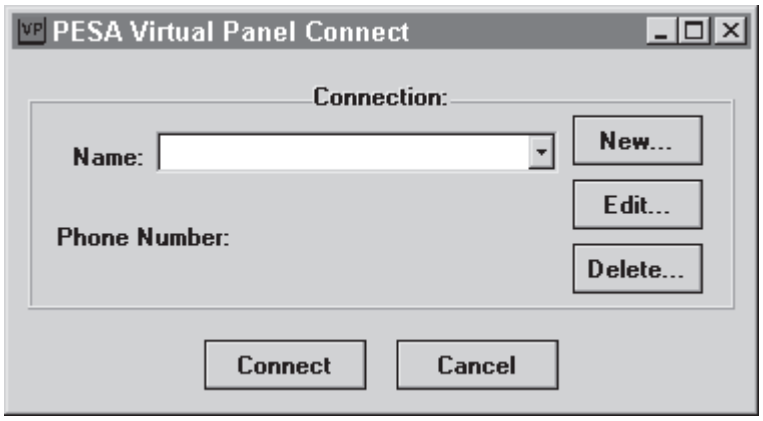

Figure 6-9 Virtual Panel Connect Screen

Selecting New will open the New Connection Name Screen (Figure 6-10). Enter the desired name and select OK to continue the configuration of the remote communications link.

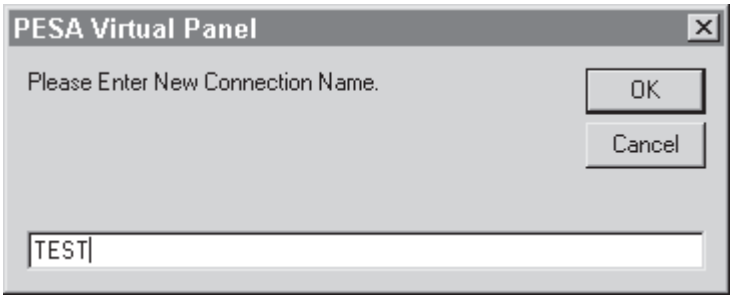

Figure 6-10 New Connection Name Screen

Selecting OK on the New Connection Name Screen will open the Remote Connection Phone Number Screen (Figure 6-11). Enter the correct phone number for the remote routing switcher system remote connection and select OK.

6.2 Operation Menus Continued:

Communications Continued:

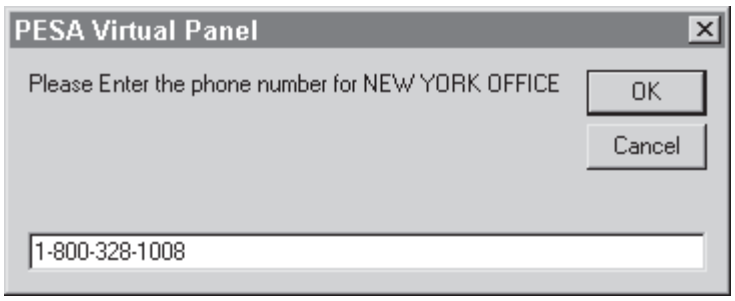

Figure 6-11 Remote Connection Phone Number Screen

Selecting OK on the Remote Connection Phone Number Screen will activate the remote communication connection and will cause the local modem to dial-up and connect to the remote modem. While the local modem is attempting to establish the communications link, the Modem Status Screen (Figure 6-12) will be displayed. Once the link is established, the Modem Status Screen will close and the PESA Virtual Panel will be displayed.

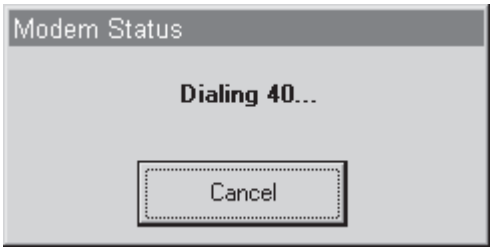

Figure 6-12 Modem Status Screen

Call Remote

Selecting Call Remote from the Configure Menu will open the PESA Virtual Panel Connect Screen (Figure 6-13). The desired remote connection may be selected from the Name List or created using the New command. If needed an existing remote connection configuration can be edited using the edit command. Remote connection configurations that are no longer needed can be deleted using the Delete command. Once the desired remote connection is configured or selected, select Connect to dial-up the selected remote communications connection. Please note that Call Remote is only selectable when remote access is enabled.

6.2 Operation Menus Continued:

Call Remote Continued:

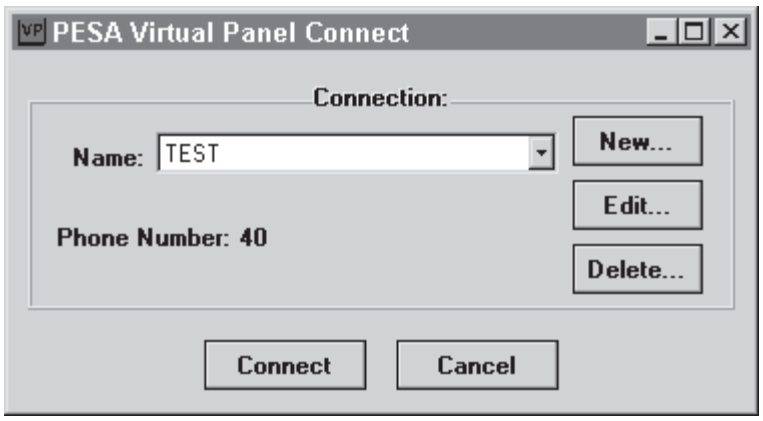

Figure 6-13 PESA Virtual Panel Connect Screen

Hangup

Selecting Hangup from the Configure Menu will disconnect the PESA Virtual Panel from the remote communications connection. Once the remote communications connection is disconnected the Modem Offline Screen (Figure 6-14) will be displayed. Select OK to acknowledge the modem offline condition and to return to the PESA Virtual Panel. Please note that Hangup is only selectable when remote access is enabled.

Figure 6-14 Modem Offline Screen

Contents

Selecting Contents from the Help Menu will open the PESA Virtual Panel's help file. The help file functions in the same manner as the majority of Windows™ help files. Once you are through referencing the PESA Virtual Panel Help File, select File and Exit to return to the PESA Virtual Panel Screen.

6.2 Operation Menus Continued:

About

Selecting About from the Help Menu will open the PESA Virtual Panel Information Screen. The PESA Virtual Panel Information Screen displays copyright and version information. To return to the PESA Virtual Panel Screen, select OK.

6.3 PESA Virtual Panel Screen Areas and Buttons

The following paragraphs describe the display and button functions on the PESA Virtual Panel Screen (Figure 6-15). The function of the Status Display and the level, source, and destination buttons is described. Additionally, the function of the Clear All, Select All, Create, Take, Lock, and Unlock Buttons is described. Also the functionality of the Name Set Select, Single Selection, and Gang Selection are discussed.

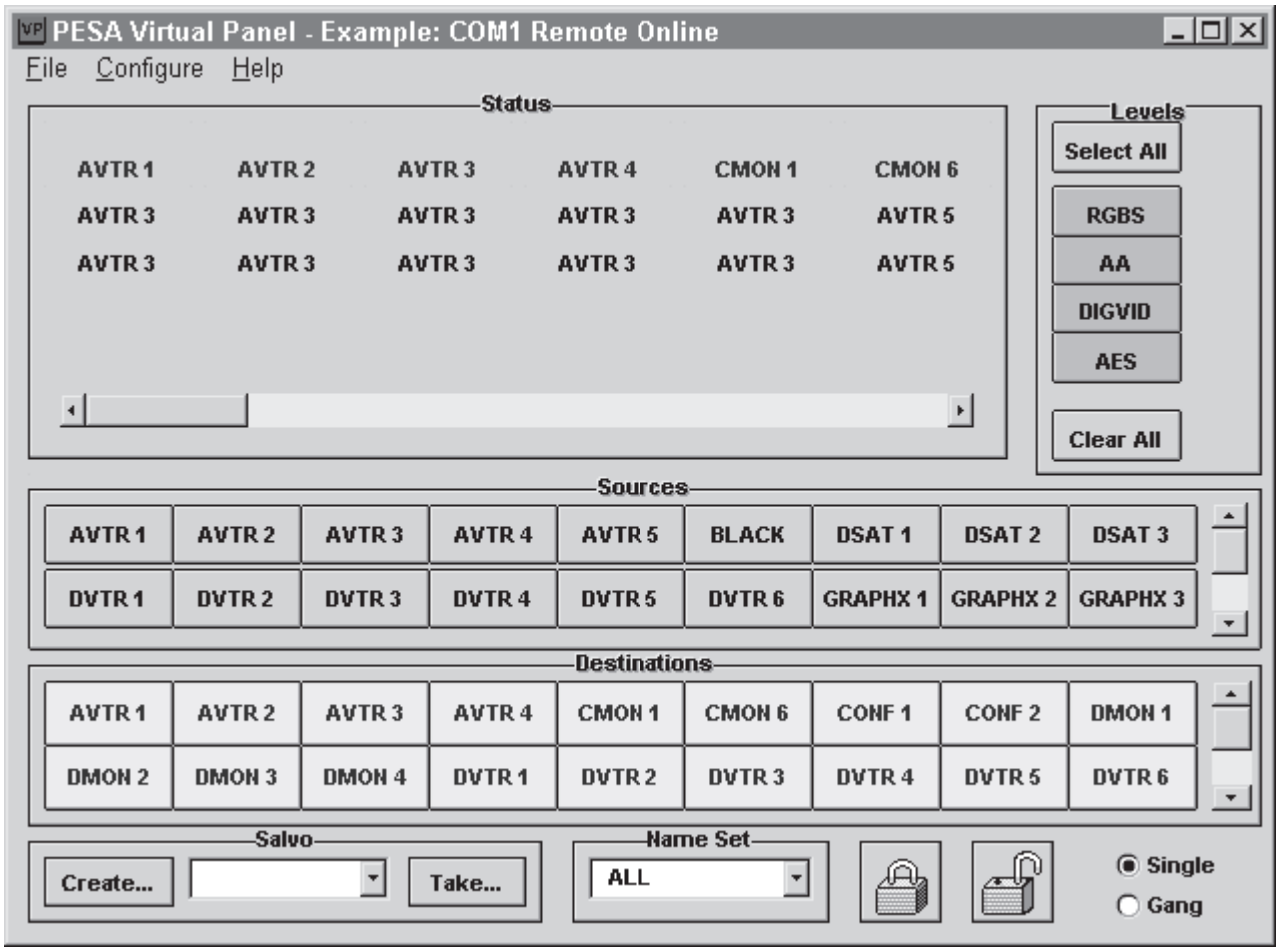

Figure 6-15 PESA Virtual Panel Screen

6.3 PESA Virtual Panel Screen Areas and Buttons Cont:

Status Display

The Status Display displays the status, by level, of six destinations at a time. The Status Display also displays the lock status of the destinations. A lock symbol is displayed to the left of locked destination names. The Status Display is automatically updated when switch actions are taken. The Status Display can be scrolled by clicking on the left and right arrow symbols, by using the scroll bar, and by clicking on a destination button.

Level Buttons

There are up to four level buttons displayed at one time on the PESA Virtual Panel Screen. If more than four are included in the current configuration, a scroll bar will appear next to the level buttons. The level names of the configured levels are displayed on the level buttons. Selected level buttons are displayed with a green background. Level buttons that are not selected are displayed with a yellow background. Clicking on a level button toggles the level between being selected/deselected.

Select All/Clear All Buttons

All levels can be selected/deselected by clicking on the Select All Button/ Clear All Button.

Source Buttons

There is one source button displayed on the PESA Virtual Panel Screen for each of the current configuration's sources. If the number of configured sources exceeds the number of buttons that can be displayed at one time, the source buttons can be scrolled. The configured source names are displayed on the source buttons. Activating a source button causes a switch to be taken to the selected destination(s) for all active levels.

Destination Buttons

There is one destination button displayed on the PESA Virtual Panel Screen for each of the current configuration's destinations. If the number of configured destinations exceeds the number of buttons that can be displayed at one time, the destination buttons can be scrolled. The configured destination names are displayed on the destination buttons. The destination buttons enable the selection of a single destination in the Single Mode or the selection of multiple destinations in the Gang Mode. Selected destination buttons are displayed with a green background. The destination buttons not selected are displayed with a yellow background. Unlocked destination names are displayed in blue text, while locked destination names are displayed in red text.

6.3 PESA Virtual Panel Screen Areas and Buttons Cont:

Salvo/Preset Area

The Salvo/Preset Area of the PESA Virtual Panel Screen contains the Create Button, the Take Button, and the Configured Salvos List. Clicking on the Create Button accesses the PESA Virtual Panel Preset Screen. The PESA Virtual Panel Preset Screen's function is described in the Create Salvo/Preset Section of this manual. The Configured Salvos List enables the selection of a pre-configured salvo to be executed or taken. The Take Button enables the execution of the selected salvo.

Name Set List

The Name Set List contains the list of all the current configuration's name sets and enables the selection of the desired name set from the list. The name sets enable the rapid configuration of the controlled destinations and sources.

Lock/Unlock Buttons

The Lock Button enables the locking of a selected destination or destinations, to protect the selected destination(s) from unwanted switch actions. Locked destination names are displayed in red and a lock symbol is displayed to the left of the destination names in the Status Display. The Unlock Button enables the unlocking of locked destination(s). Please note that locks occur on the physical controller or just on the PESA Virtual Panel depending on Local Lock Mode.

Single/Gang Selections

The Single Selection enables the selection of one destination at a time. To select a destination in the Single Mode, click on the desired destination button. The destination selection will be automatically updated to the destination corresponding to the last selected destination button while in the Single Mode. The Gang Selection enables the selection of multiple destinations at a given time. To select the desired destinations in the Gang Mode, click on the desired destination buttons. Please note that while in the Gang Mode, destinations will stay selected until they are deselected. To deselect destinations in the Gang Mode, click on the selected destination buttons.

6.3 Follow Switch Example

To execute a follow switch, first select all levels and then select a destination or group of destinations (gang). Once all levels and the desired destination(s) are selected, select the source to be switched. When the source is selected the switch will be taken and the Status Display of the PESA Virtual Panel Screen will be updated to reflect the latest control panel status.

Analog Levels Follow Switch

Using the sample configuration's source and destination information, select the destination "AVTR 1" and then select the source "AVTR 2". When the source "AVTR 2" is selected the follow switch occurs and the Status Display of the PESA Virtual Panel Screen is updated as shown in Figure 6-16 to reflect the switch.

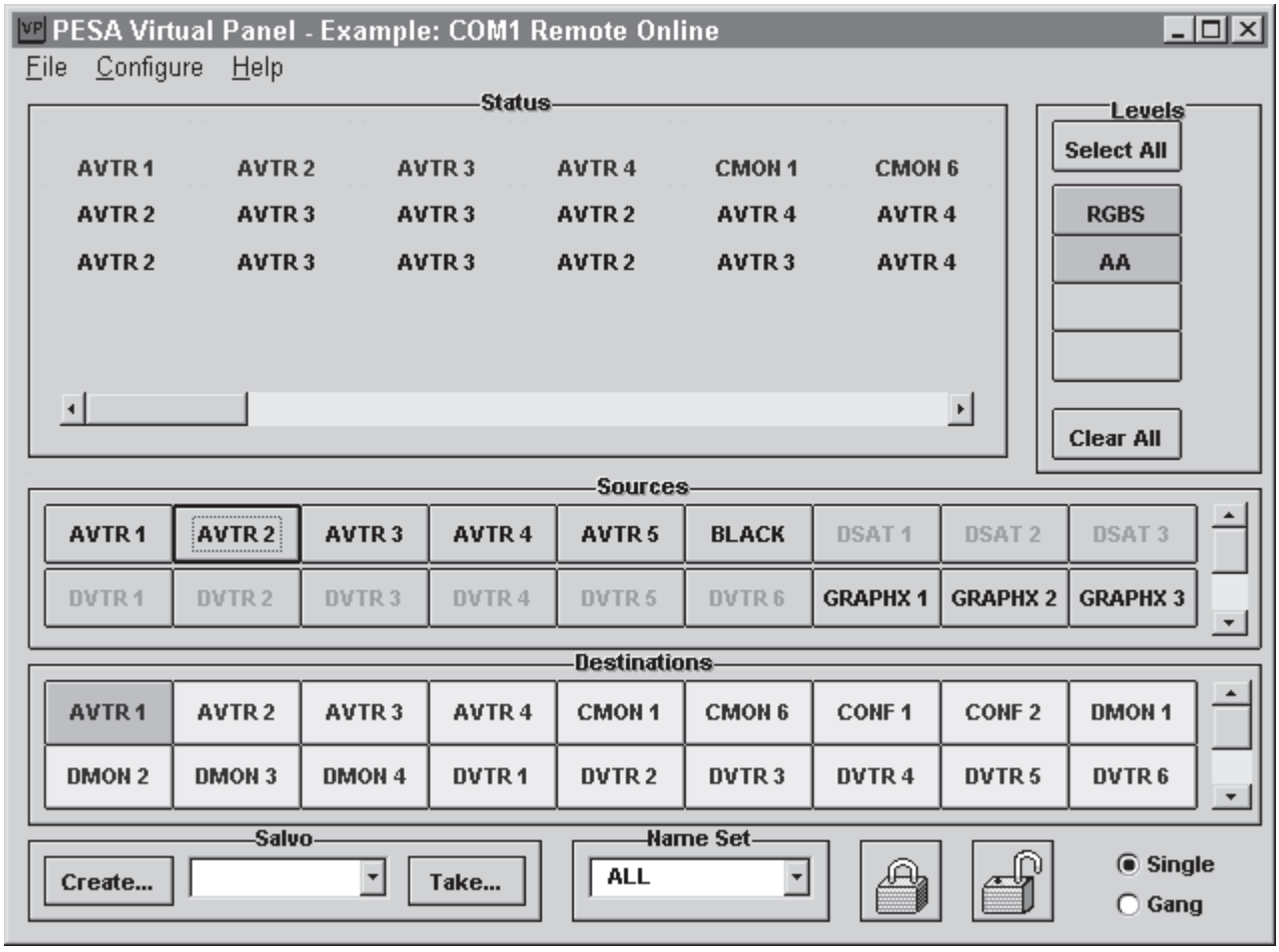

Figure 6-16 Analog Levels Follow Switch

6.3 Follow Switch Example Continued:

Digital Levels Follow Switch

Using the sample configuration's source and destination information, select the destination "DMON 1" and then select the source "DSAT 1". When the source "DSAT 1" is selected the follow switch occurs and the Status Display of the PESA Virtual Panel Screen is updated as shown in Figure 6-17 to reflect the switch.

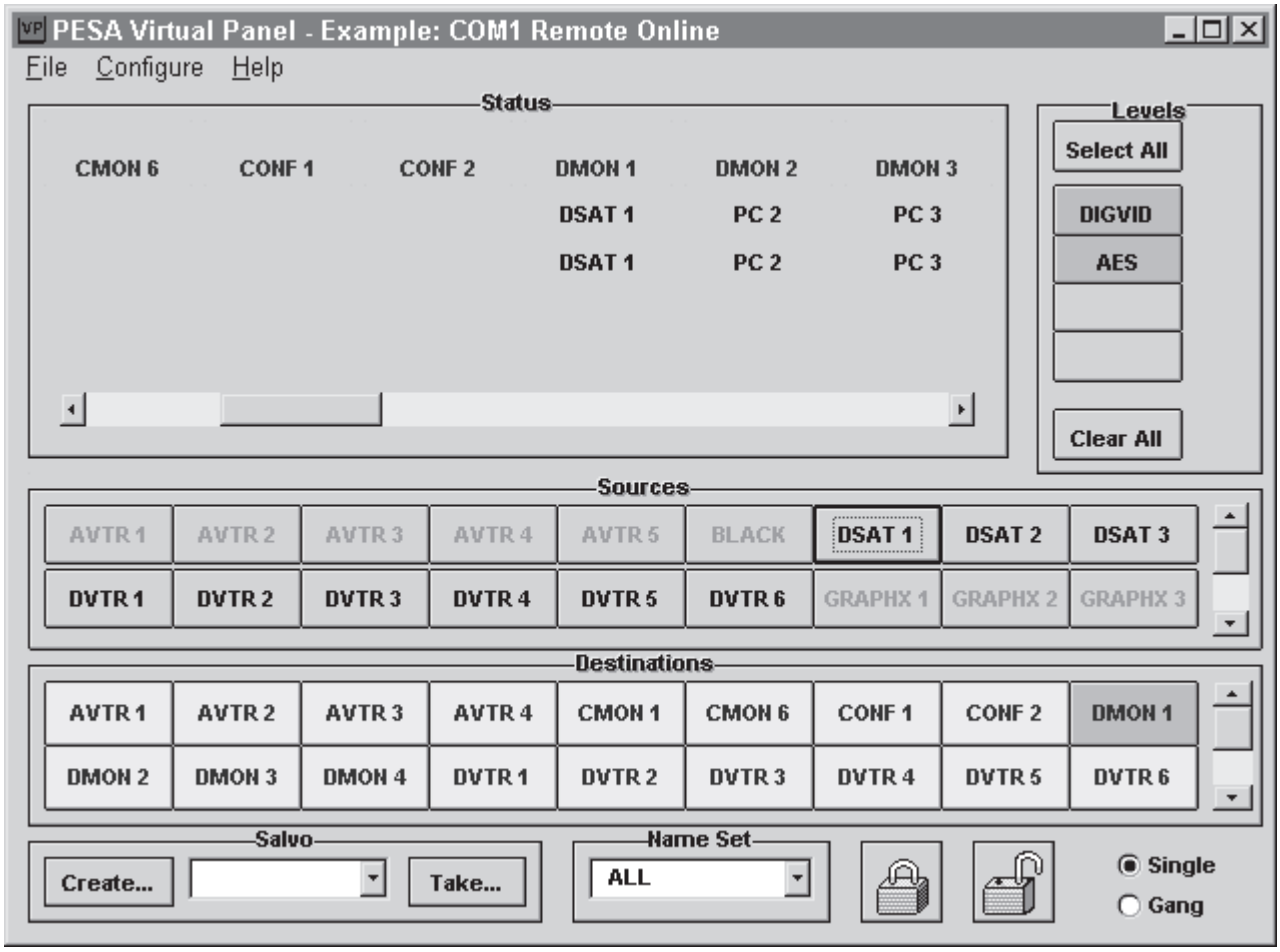

Figure 6-17 Digital Levels Follow Switch

6.4 Breakaway Switch Example

To execute a breakaway switch, select the desired destination(s). Once the destination(s) are selected, select the levels which are to be switched and then select the source to be switched. When the source is selected the switch will occur and the Status Display of the PESA Virtual Panel Screen will be updated to reflect the latest control panel status.

Analog Levels Breakaway Switch

Using the sample configuration's level, source, and destination information, select the destination "AVTR 3". Once the destination is selected, select the level "AA" and then the source "BLACK". When the source "BLACK" is selected the breakaway switch occurs and the Status Display of the PESA Virtual Panel Screen is updated as shown in Figure 6-18 to reflect the switch.

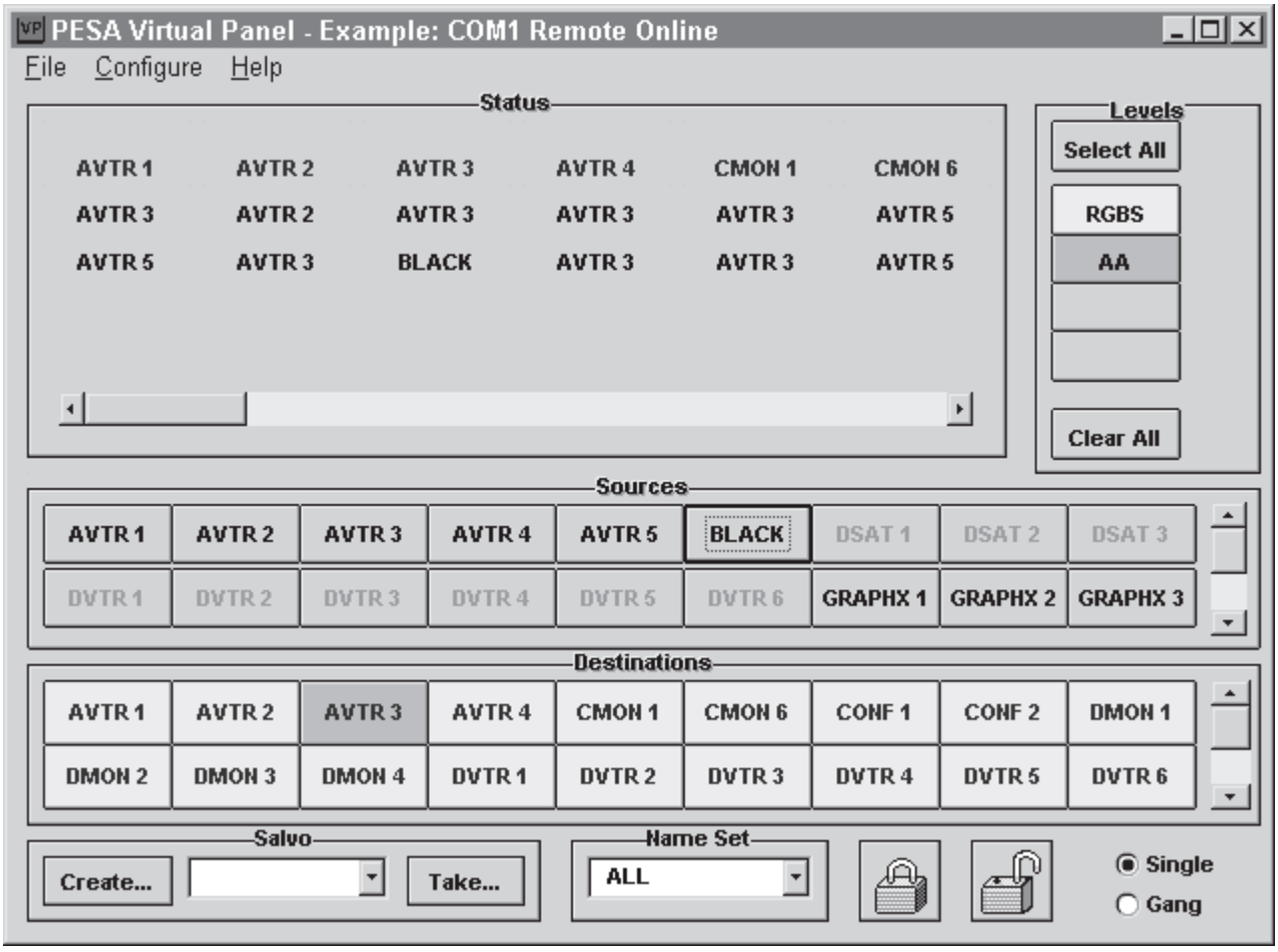

Figure 6-18 Analog Levels Breakaway Switch

6.4 Breakaway Switch Example Continued:

Digital Levels Breakaway Switch

Using the sample configuration's level, source, and destination information, select the destination "DMON 2". Once the destination is selected, select the level "DIGVID" and then the source "DVTR 5". When the source "DVTR 5" is selected the breakaway switch occurs and the Status Display of the PESA Virtual Panel Screen is updated as shown in Figure 6-19 to reflect the switch.

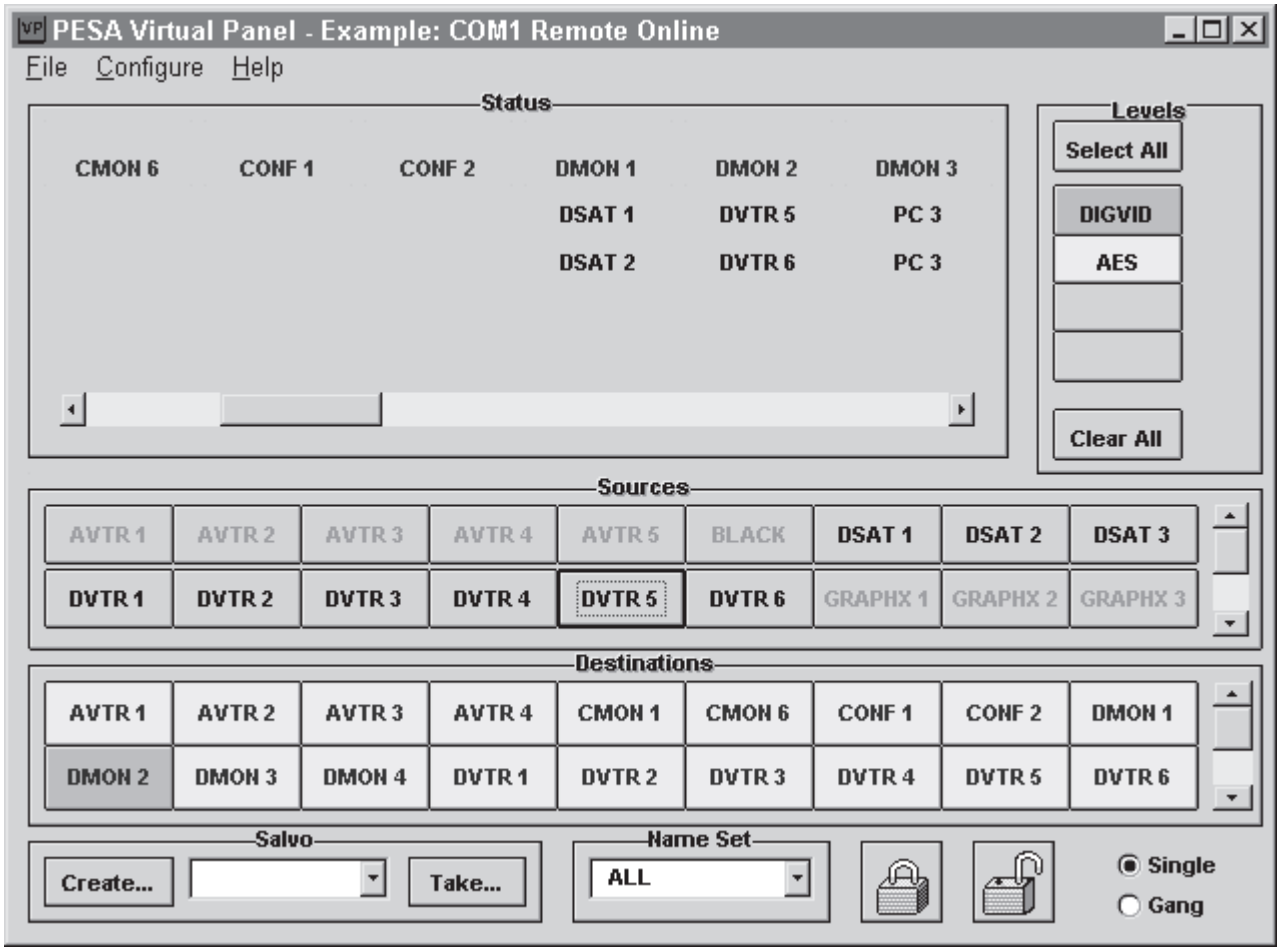

Figure 6-19 Digital Levels Breakaway Switch

6.5 Lock/Unlock Example

The lock function of the PESA Virtual Panel enables the user to lock the selected destination(s) in order to protect the selected destination(s) from unauthorized switch actions. To lock a selected destination, select the destination to be locked and then select lock. For example, select the destination "AVTR 7" and then select the lock button. When lock is selected, the selected destination will be locked and the Status Display of the Virtual Control Panel Screen will be updated to show the lock status of the selected destination (Figure 6-20).

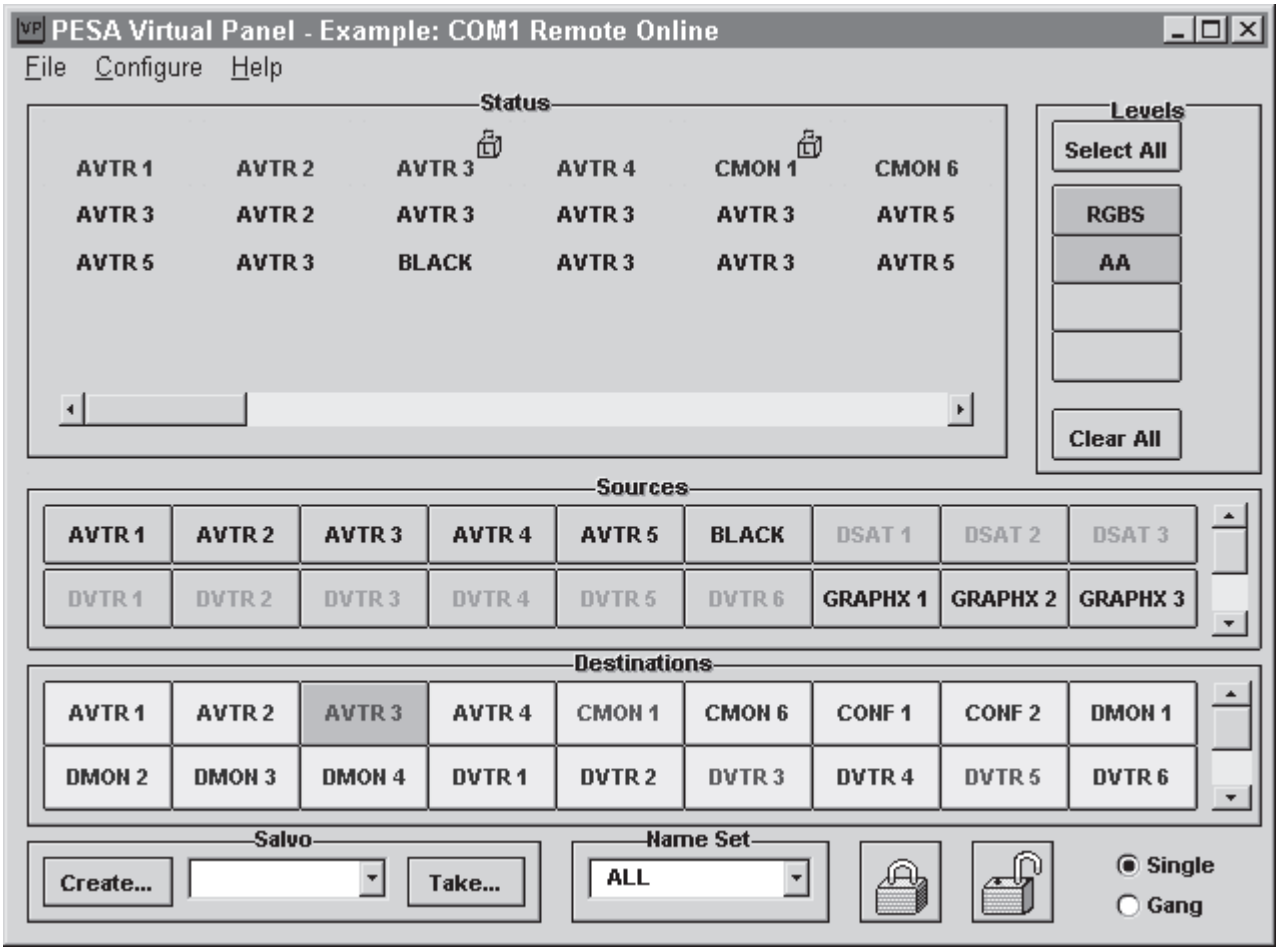

Figure 6-20 Locked Destinations

The unlock function of the PESA Virtual Panel enables the user to unlock the selected locked destination(s). To unlock a destination, select the destination to be unlocked and then select unlock. For example, select the destination "AVTR 7" and then select the unlock button. When unlock is selected, the selected destination will be unlocked and the Status Display of the Virtual Control Panel Screen will be updated to show the new status of the selected destination (Figure 6-21).

6.5 Lock/Unlock Example Continued:

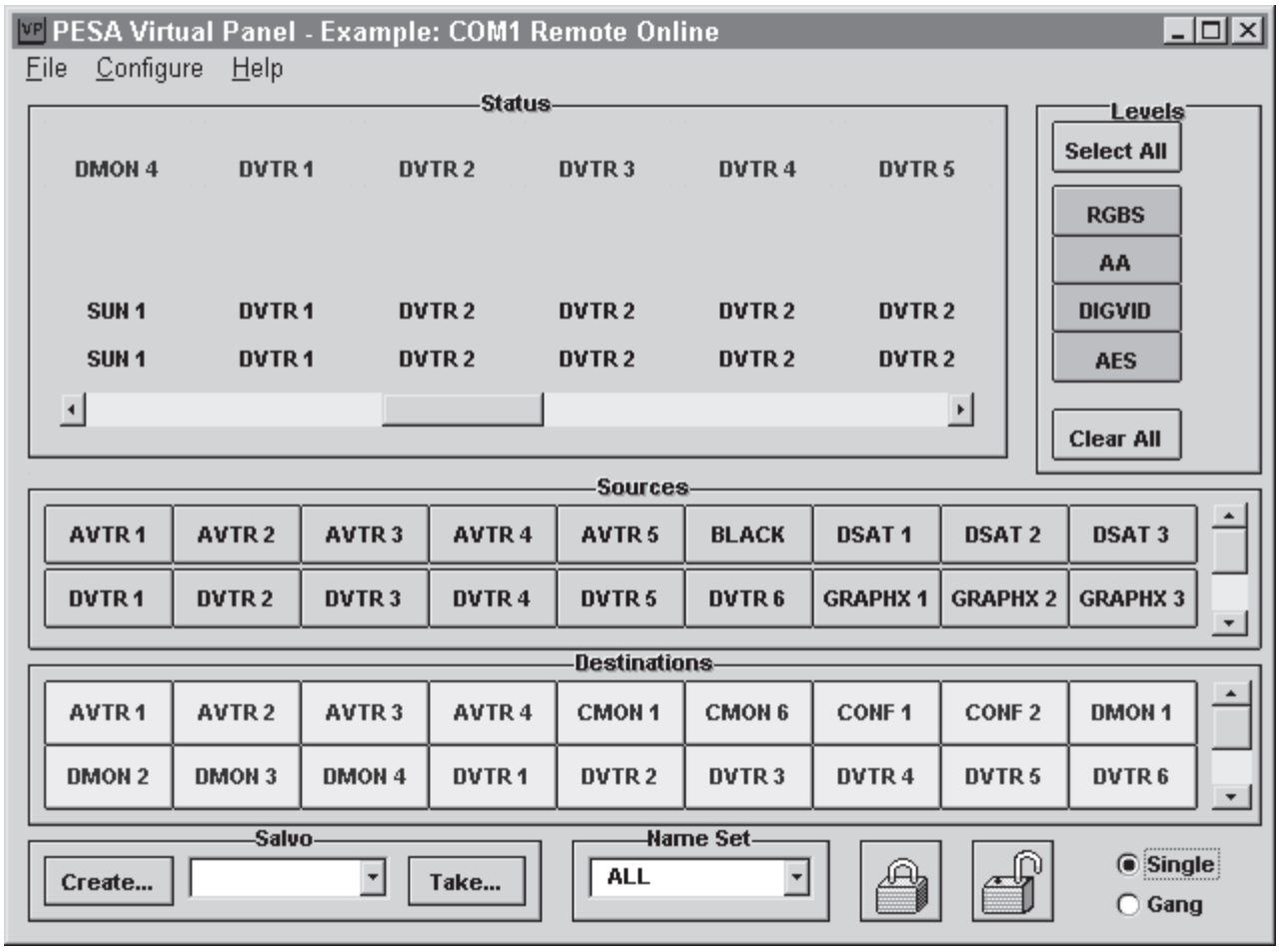

Figure 6-21 Unlocked Destinations

6.6 Single Destination Select Example

To select a single destination at a given time, select Single as shown in Figure 6-22. The Single Function enables the selection of only one destination at a time. "DMON 1" is the selected destination.

6.6 Single Destination Select Example Continued:

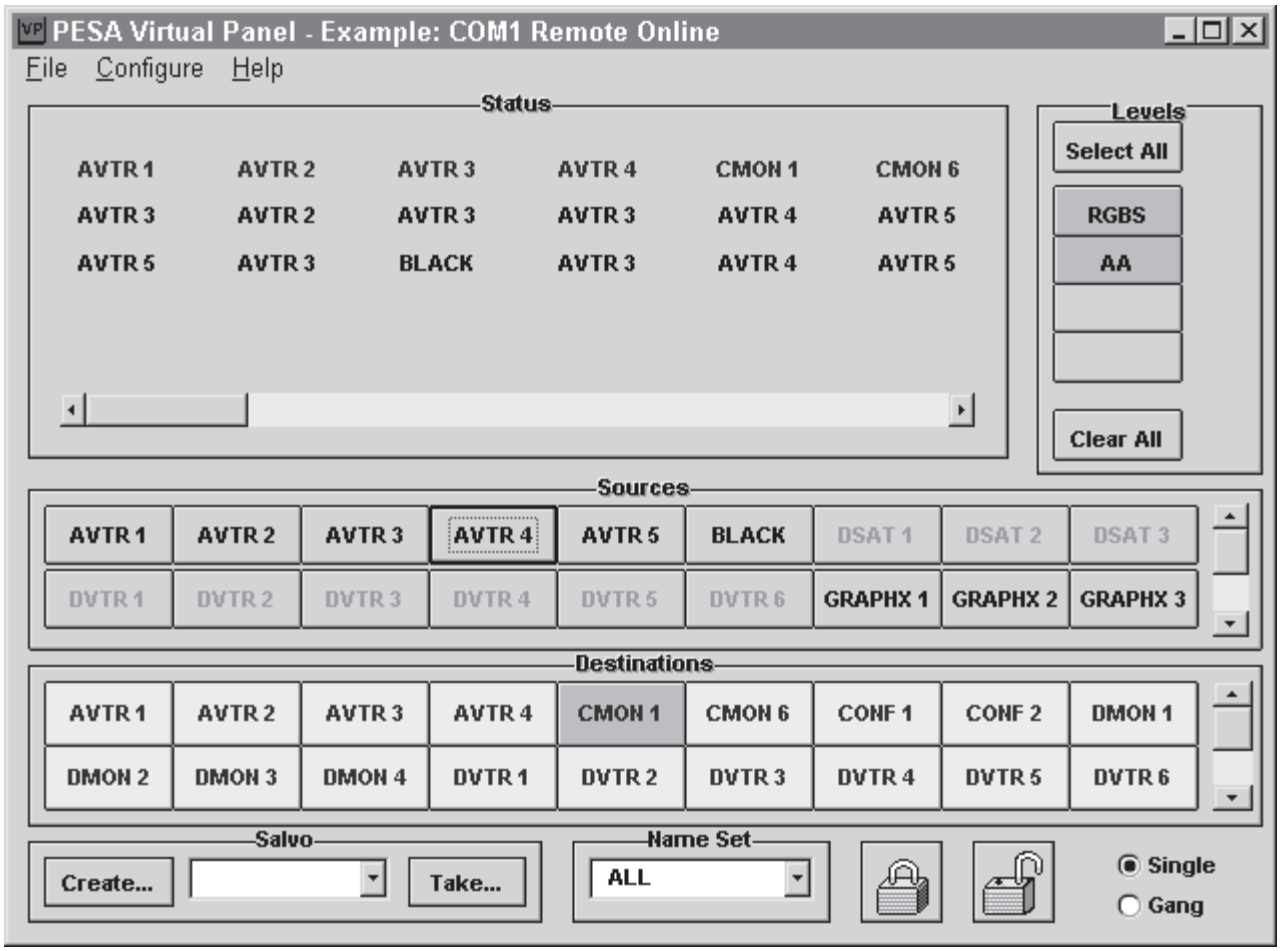

Figure 6-22 Single Destination Select

6.7 Gang (Multiple) Destination Select Example

To select multiple destinations at a given time, select Gang as shown in Figure 6-23. The Gang Function enables the selection of one or more destination at a time. "AVTR 1", "AVTR 2", "AVTR 3", "AVTR 4", "CMON 1", "CMON 6", "DMON 3", "DMON 4", "DVTR 1", "DVTR 2", "DVTR 3", and "DVTR 4" are the selected destinations.

6.7 Gang (Multiple) Destination Select Example Cont:

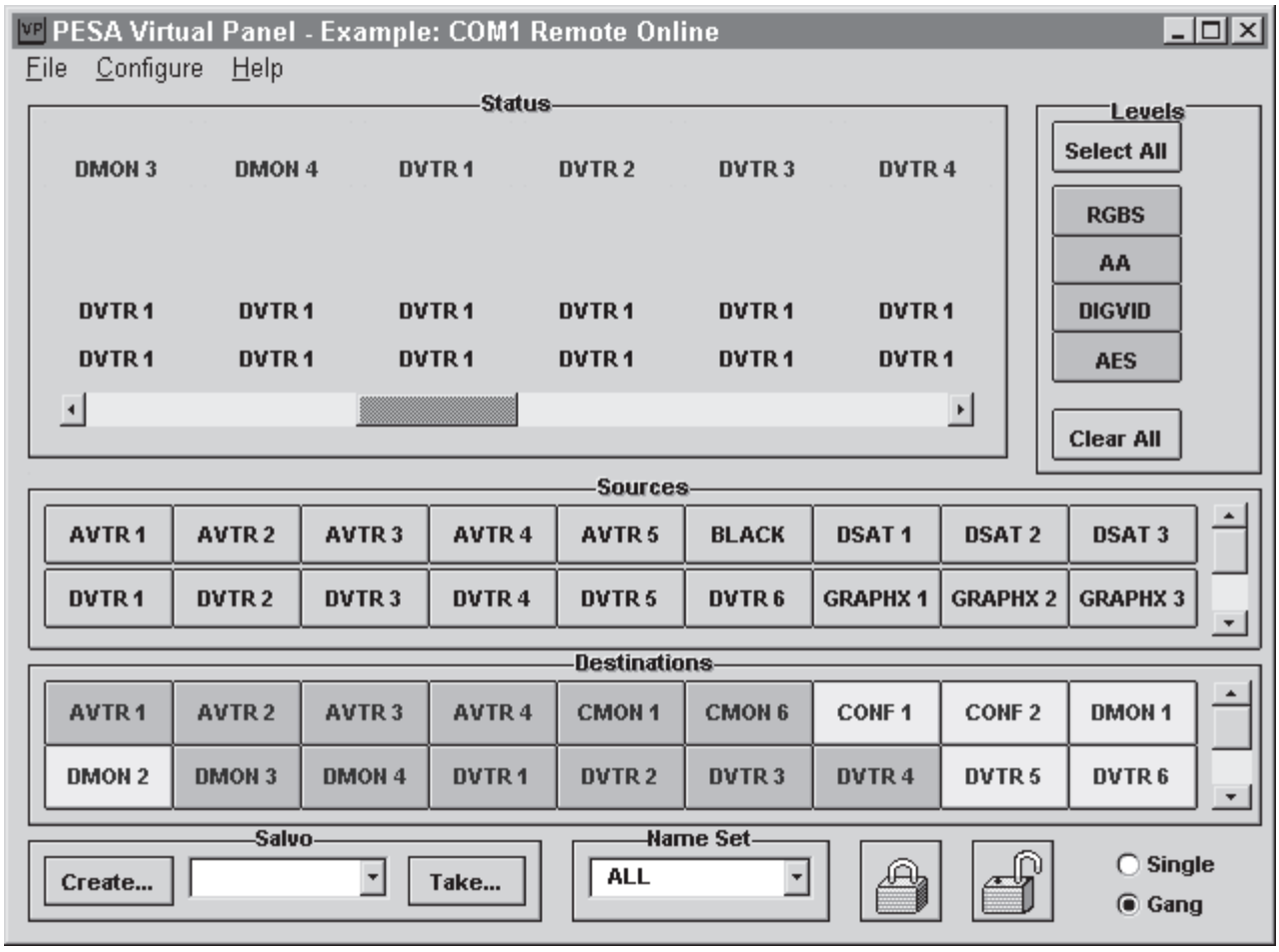

Figure 6-23 Gang Destination Select

6.8 Salvo Take Example

To take (execute) a pre-configured salvo, select the salvo to be executed from the drop list box (located to the left of the Take Button).

6.8 Salvo Take Example Continued:

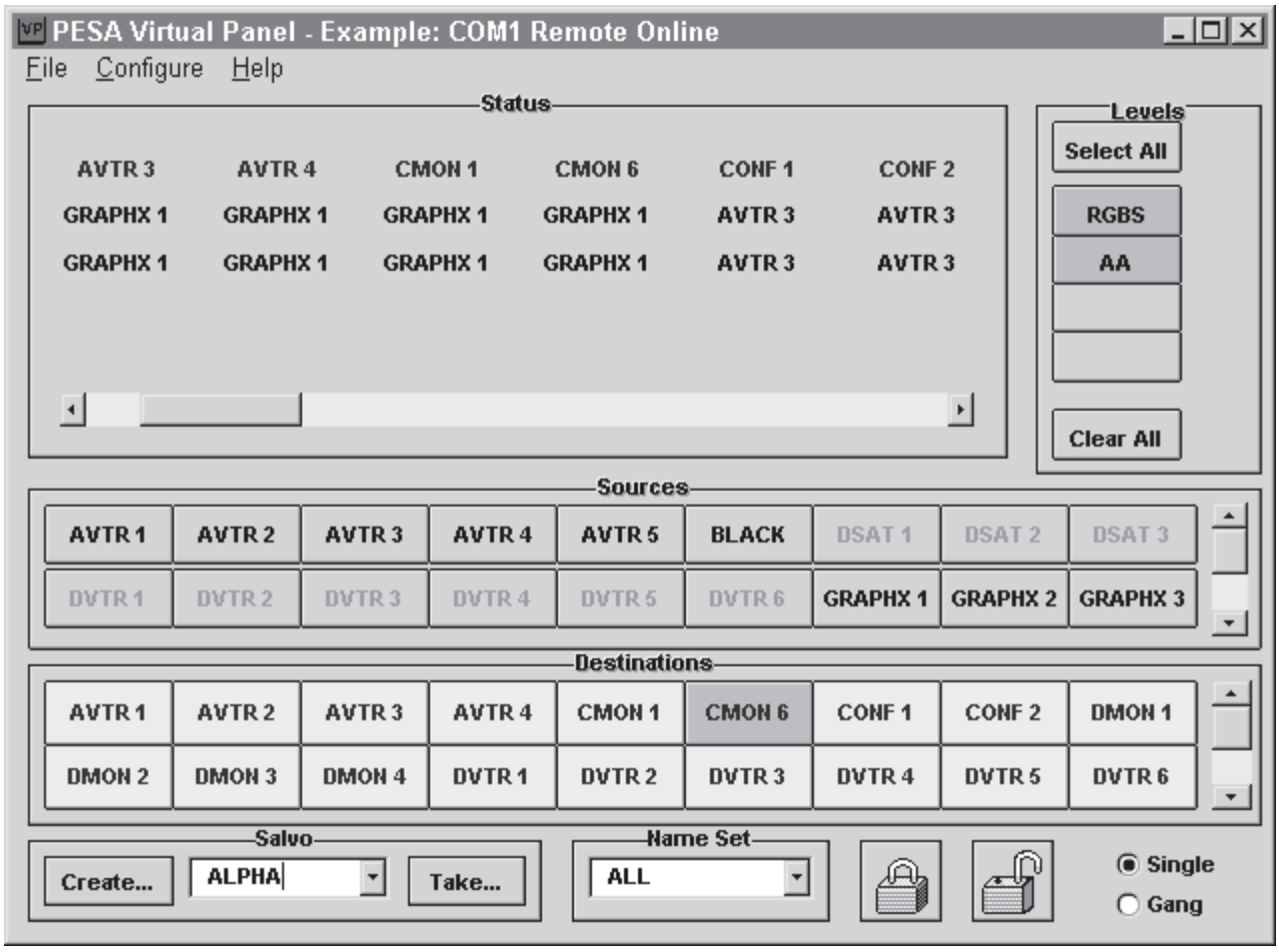

Figure 6-24 PESA Virtual Panel Screen (Alpha Salvo Selected)

To complete the execution of the selected salvo, select the Take Button. Selecting or clicking on the Take Button will open the PESA Virtual Panel Information Screen (Figure 6-25). Select OK to execute the selected salvo.

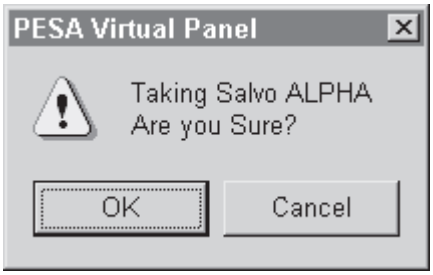

Figure 6-25 PESA Virtual Panel Information Screen

6.9 Create Salvo/Preset

Selecting Create on the PESA Virtual Panel Screen will open the PESA Virtual Panel Preset Screen. The PESA Virtual Panel Preset Screen contains the functions necessary to create, save, and delete salvos. Also included is a capture screen function which enables the capturing of the current status of the Status Display on the PESA Virtual Panel Screen.

6.10 PESA Virtual Panel Preset

The following paragraphs describe the display and button functions on the PESA Virtual Panel Preset Screen (Figure 6-26). The function of the Preset Display, Sources List, Destinations List, and of each button is discussed.

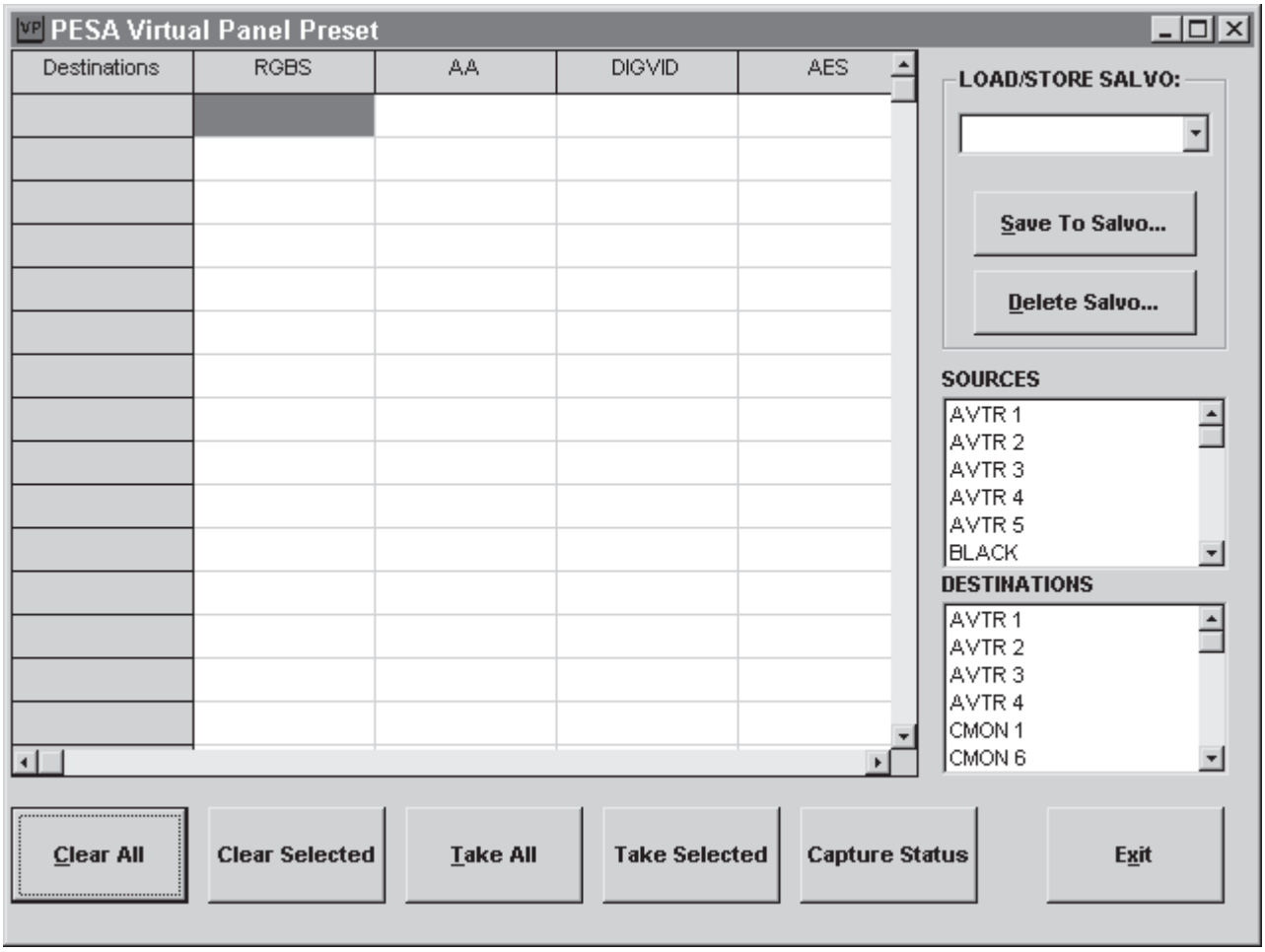

Figure 6-26 PESA Virtual Panel Preset Screen

6.10 PESA Virtual Panel Preset Continued:

Preset Display

The Preset Display enables the rapid and intuitive configuration of presets and salvos. The first column allows the configuration or plug-in of selected destinations from the Destinations List. The other columns (one column per level name) allow the configuration or plug-in of selected sources. Scroll bars enable the selection of the area of the Preset Display which is displayed.

Load/Store Salvo Button

The Load/Store Salvo Button enables the loading of a pre-configured salvo into the PESA Virtual Panel's preset. To load a salvo into the preset, scroll through the Salvo List and highlight the desired salvo name. Once the desired salvo name is selected, the PESA Virtual Panel Information Screen will be displayed. To complete the loading of the selected salvo into the preset, select OK.

Save to Salvo Button

The Save to Salvo Button allows the PESA Virtual Panel's preset information to be saved as a salvo. To save the preset information as a salvo, select Save to Salvo. Selecting Save to Salvo will open the Preset Save Screen (Figure 6-27). Enter the desired salvo name into the Save Preset As Data Field and then select OK. The preset information will then be saved in a salvo data file under the desired name.

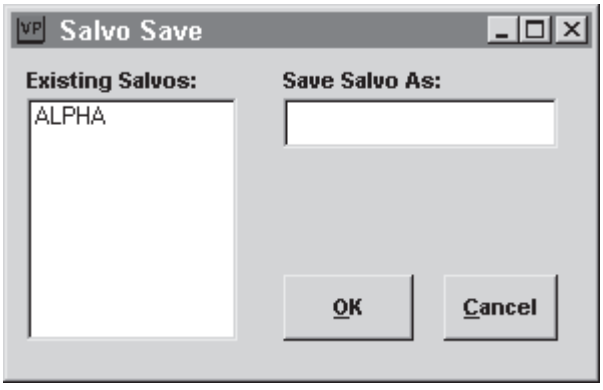

Figure 6-27 Salvo Save Screen

6.10 PESA Virtual Panel Preset Continued:

Delete Salvo Button

The Delete Salvo Button enables the deletion of existing salvo configuration files. To delete a salvo configuration file, select Delete Salvo. Selecting Delete Salvo will cause the Preset Delete Screen (Figure 6-28) to be displayed. Select the salvo(s) to be deleted from the Salvo List and then select Delete. Once all of the desired salvos are deleted, select Done to return to the PESA Virtual Panel Preset Screen.

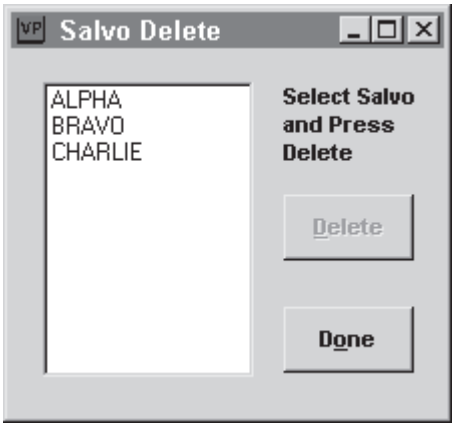

Figure 6-28 Preset Delete Screen

Sources List

The Sources List enables the selection of source names to configure presets. The Source List contains the names of all configured sources in the current name set. Selected source names can either be dragged and dropped into the desired Preset Display level column matrix positions or double-clicked on. The Sources List can be scrolled either by clicking on the Sources List arrow up or arrow down symbols or by using the Sources List scroll bar and dragging it up or down until the desired source name is visible.

6.10 PESA Virtual Panel Preset Continued:

Sources List Continued:

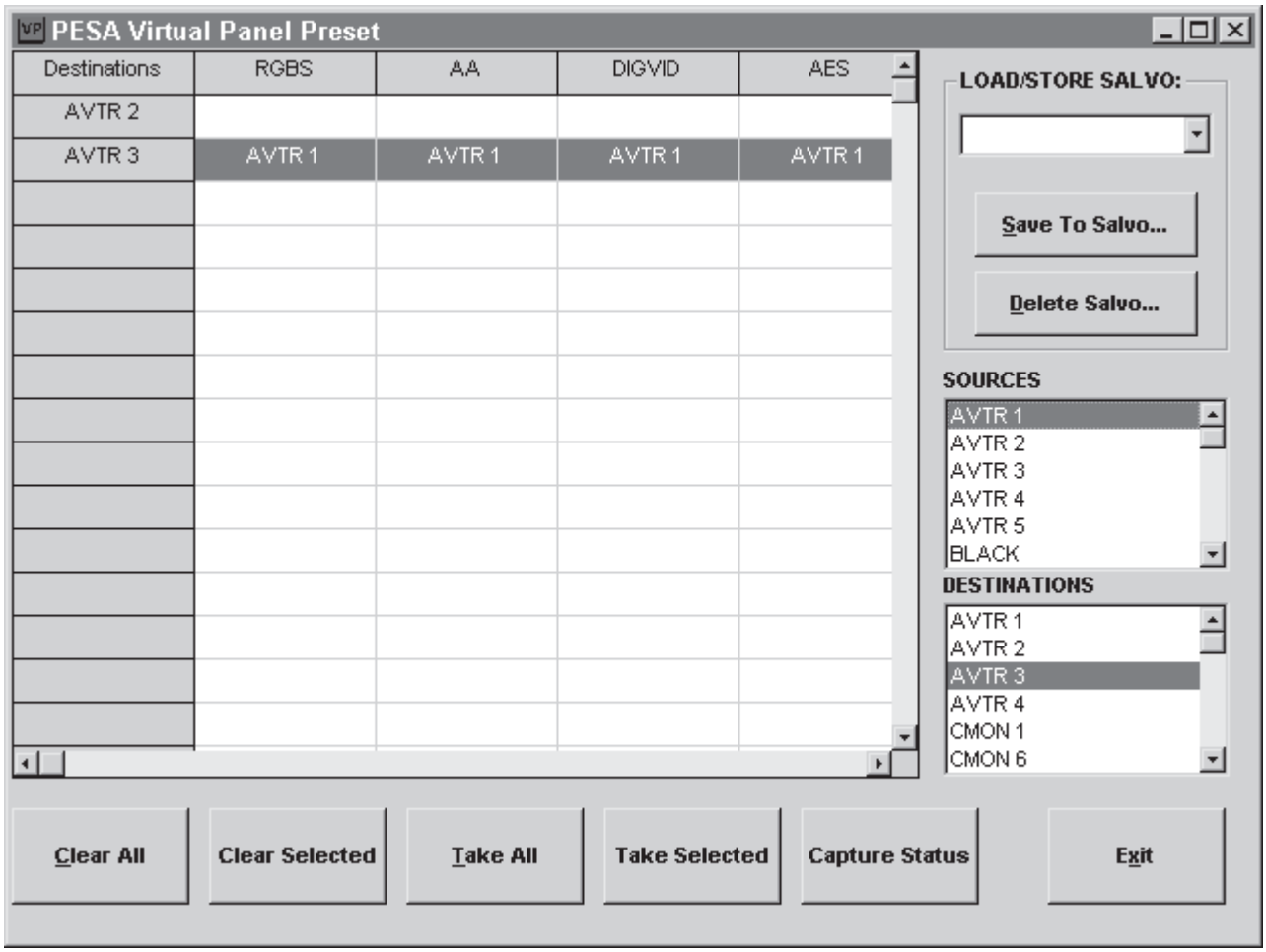

Figure 6-29 Source Select

Destinations List

The Destinations List enables the selection of destination names to configure presets. The Destinations List contains the names of all configured destinations in the current name set. Destinations selected from the Destinations List can either be dragged and dropped into the desired row in the Destinations Column or selected destinations can be double-clicked on. The Destinations List can be scrolled either by clicking on the Destinations List arrow up or arrow down symbols until the desired destination name is visible or by using the Destinations List scroll bar and dragging it up or down until the desired destination name is visible.

6.10 PESA Virtual Panel Preset Continued:

Destinations List Cotinued:

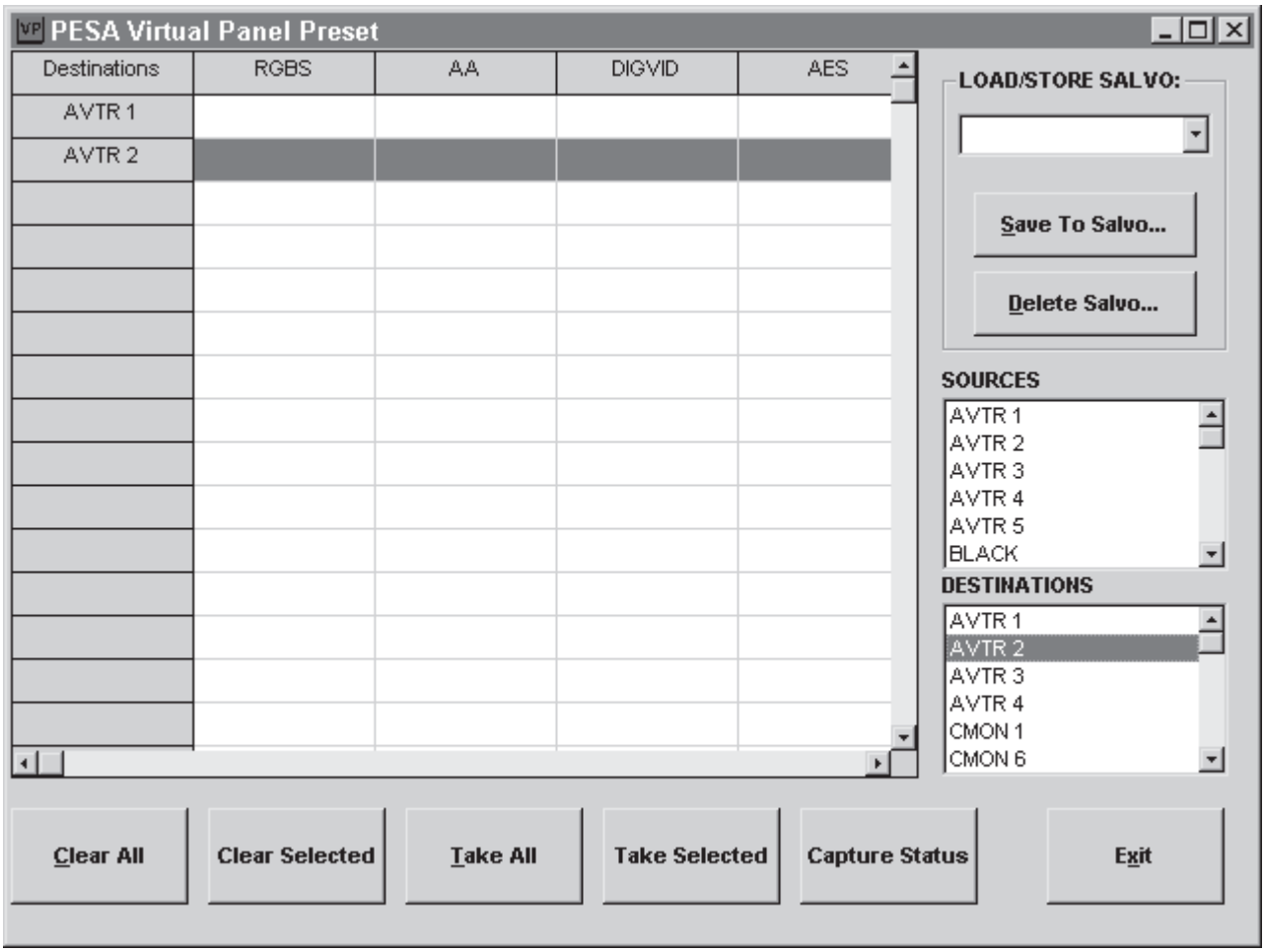

Figure 6-30 Destination Select

Clear All Button

Selecting Clear All will clear all preset information (switches) from the PESA Virtual Panel's preset.

Clear Selected Button

Selecting Clear Selected will clear all selected (highlighted) information from the PESA Virtual Panel's preset.

Take All Button

Selecting Take All will cause all switch action information contained in the PESA Virtual Panel's preset to be taken to the PESA Routing Switcher System.

6.10 PESA Virtual Panel Preset Continued:

Take Selected Button

Selecting Take Selected will cause the selected (highlighted) switch action information contained in the PESA Virtual Panel's preset to be taken to the PESA Routing Switcher System.

Capture Status Button

Selecting Capture Status loads the current routing switcher status into the preset (Figure 6-31).

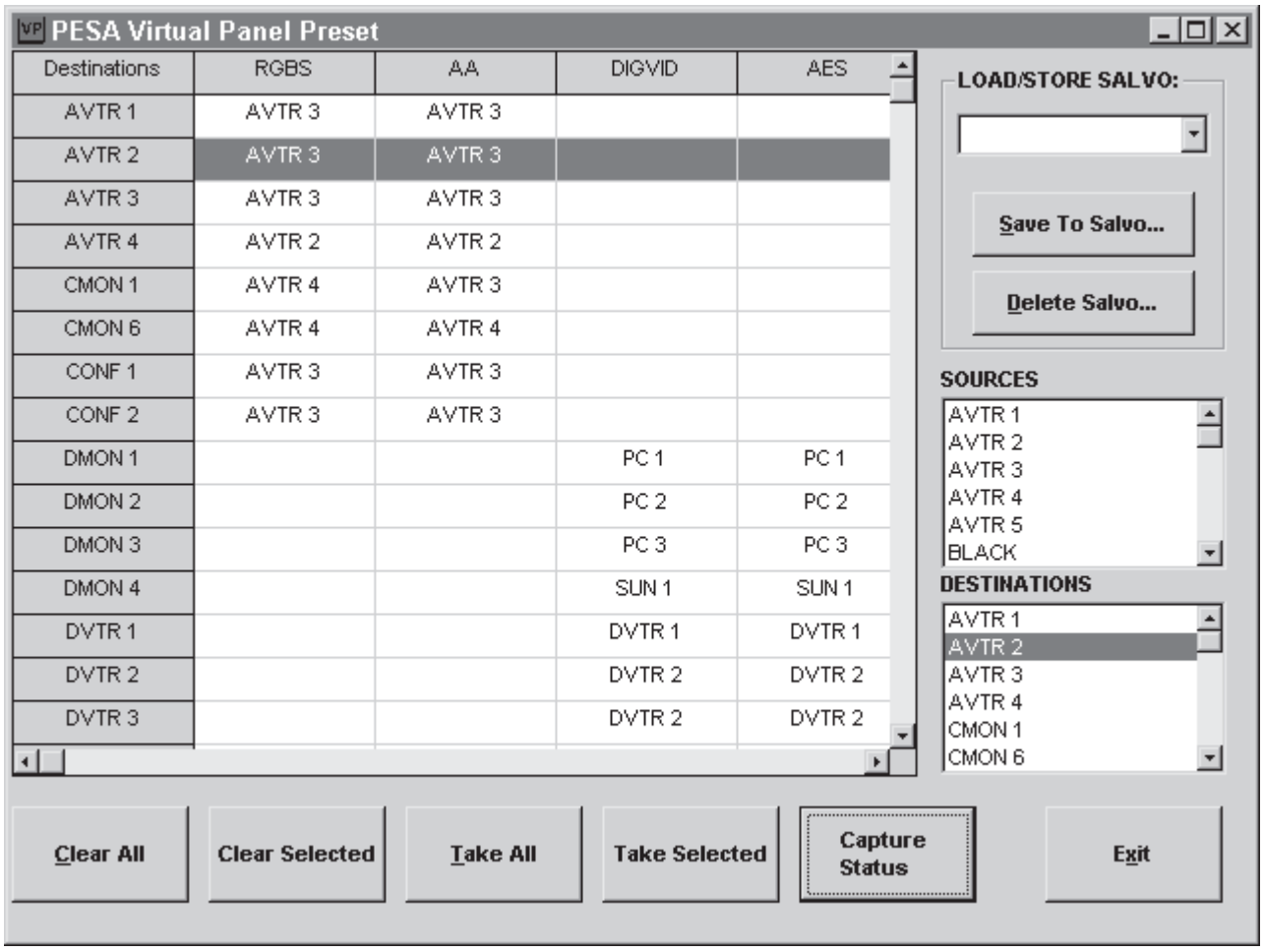

Figure 6-31 PESA Virtual Panel Preset Screen

Exit Button

Selecting the Exit Button will return you to the PESA Virtual Panel Screen.

6.11 Preset Creation Drag and Drop Method

To create presets using the drag and drop method, refer to the following instructions.

To load a destination into preset, select a destination from the Destination List and drag it over to the desired destination column position.

To load a follow switch, select a source from the Source List and drag it over to a column adjacent to the destination you want to switch.

To load a breakaway switch, first select the desired levels next to the destination to be switched. Then select a source from the Source List and drag it over to the selected area.

Repeat the above steps until all desired switches are configured in the Preset Display.

6.12 Preset Creation Double-Click Method

To create presets using the double-click method, refer to the following instructions.

To load a destination, double-click on a destination in the Destinations List.

To load a follow switch, first select the destinations to be switched in the preset display. Then double-click on the source you would like to switch.

To load a breakaway switch, select the desired levels adjacent to the destinations to be switched. Then double-click on the source you would like to switch.

Repeat the above steps until all desired switches are configured in the Preset Display.