Web Server Interface
NetPerformer® System Reference

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Web Server Interface

This chapter includes the following:

- "Overview" on page 1-2 (next section)
- "Accessing the NetPerformer Web Interface" on page 1-3.

1.1 Overview

The Web Server is a NetPerformer internal program that is part of the base unit software and that uses the HTTP protocol to serve content to any Web browser accessing the unit via standard Web addressing (http://ipaddress/).

This Web Server provides a user-friendly interface for configuring and monitoring NetPerformer devices. As such, this interface replaces the legacy ACTview3000 Graphical User Interface (GUI) application, since NetPerformer can now be managed using any standard Web browser, such as:

- Internet Explorer©
- Firefox©
- Chrome©.

Also, the Web interface can be linked to any standard NMS platform that supports device links to a Web browser. As such, Memotec has integrated NetPerformer into IP Switch WhatsUp Gold (WUP) NMS software. This was done with product customization by adding SNMP MIBs, icons and device types to WUP. This solution enables an operator to build their own network supervision, fault and performance monitoring application for NetPerformer equipment.

For more information on this new NMS solution, refer to the following document, available on the NetPerformer Companion CD:
Using WhatsUp Gold with Memotec NetPerformer_v1.pdf.

1.2 Accessing the NetPerformer Web Interface

Follow these steps to access a NetPerformer unit, either locally or remotely, via its Web interface:

1. Start a Web browser (for example, Internet Explorer©).
2. In the Web browser address bar, enter the IP address of the NetPerformer unit that you want to access.
3. Once the HTTP connection is established, NetPerformer displays the following login page:

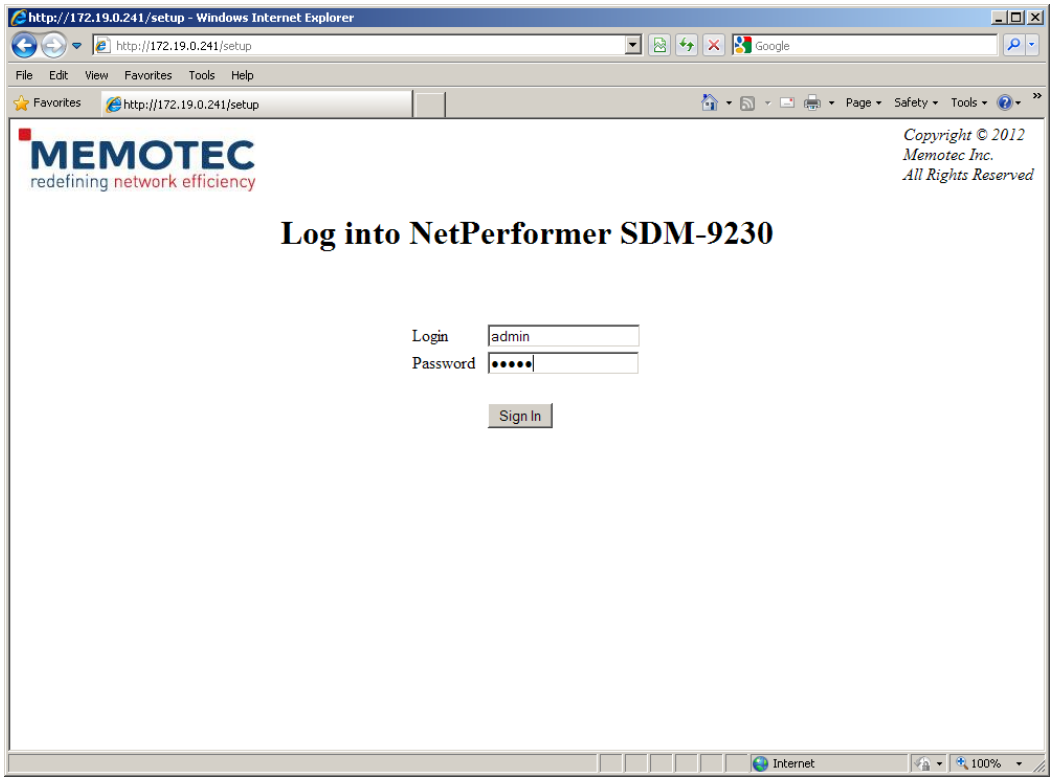

Figure 1-1: Login Page

- Enter the required Login / Password and click on Sign In. By default the NetPerformer Login and Password are as follows:
  - Login: admin
  - Password: setup

2

Using the Web Interface

This chapter includes the following:

- "Main Menu (Start Level)" on page 2-2
- "Navigation Guidelines" on page 2-3.

2.1 Main Menu (Start Level)

Once you log in to a NetPerformer unit through its Web Interface, the Web Interface Main Menu displays:

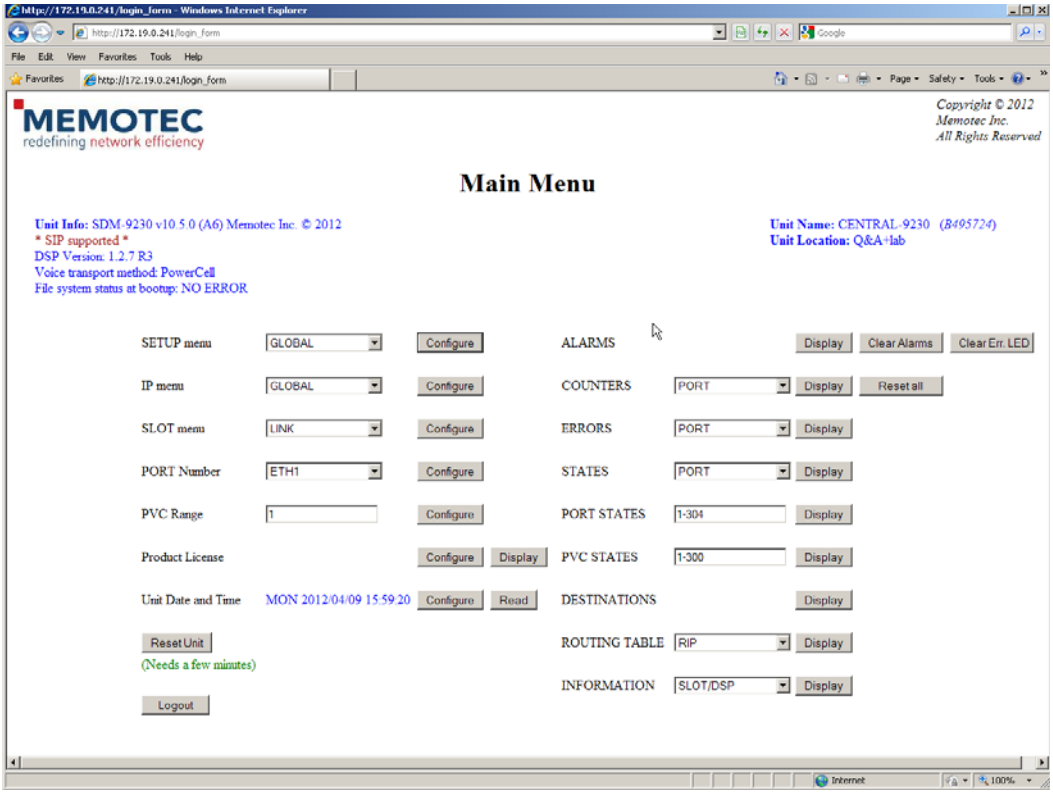

Figure 2-1: Main Menu Page

In blue at the top left and right of the page, the Main Menu page provides the unit information, including unit name and the location of the unit to which you are connected.

Below this information, are a series of drop-down menus and action buttons. Configuration (Configure) menus are on the left of the page, while the monitoring menus (Display) are on the right.

The following chapters provide detailed information for each menu, as well as NetPerformer Web Interface navigation guidelines.

2.2 Navigation Guidelines

The NetPerformer Web Interface uses standard Windows fields to enter specific values and to access a specific menu option. Two types of fields are available.

- Edit fields for entering a value
- Drop-down lists for selecting an option.

2.2.1 Edit Fields

An edit field consists of an area where you can enter valid values. If you are not sure about which values can be entered in a field, move your curser over the field and the available values will pop up as illustrated in Figure 2-2. If a range of values is possible, this will also be indicated. This mode of value entry is used by both Configure and Display fields.

Following is an example of an edit field, in this case used for the PVC setup:

Figure 2-2: Edit field for PVC Number Selection

2.2.2 Drop-down Lists

A drop-down list consists of a field with a drop-down menu. The list of available values is displayed by clicking on the down arrow icon at the right of the window, as illustrated in Figure 2-3, in this case used for the Port Number selection:

Figure 2-3: Drop-down list for Port Number selection

2.2.3 Configure Buttons

The Configure buttons are located to the right of the specific field. Once you have entered or selected the right value(s) for that item, click on the Configure button to access the configuration menu.

NOTE: The Configure buttons only access the configuration menus for the specified field value.

Following is an example of a configuration button used, in this case, to access the Port setup configuration page:

Figure 2-4: Configuration button for accessing the Port Configuration page

2.2.4 Display Buttons

The Display buttons are located to the right of the monitoring fields. When you have selected the right value(s) for a specific menu item, click on the Display button to get access to information for this item.

NOTE: Display buttons are available only for the monitoring menu items.

Following is an example of a Display button used, in this case, to display the Port States page:

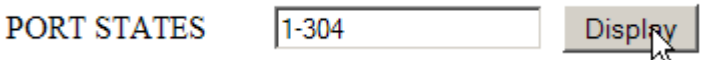

Figure 2-5: Display button for accessing the Port States page

3

Configuration Menu Items

This chapter includes a discussion of:

- "Global Configuration" on page 3-2 (see next section)
- "IP Configuration" on page 3-5.
- "Slot Configuration" on page 3-7.
- "Port Configuration" on page 3-11.
- "PVC Configuration" on page 3-13
- "Product License Configuration" on page 3-15
- "Date and Time Configuration" on page 3-17.

3.1 Global Configuration

The Setup menu drop-down list is the first configuration menu available on the NetPerformer Main Menu Web page. The Setup menu drop-down list provides access to the different configuration profiles available on the NetPerformer unit as a whole (see Figure 3-1) and provides you the same selections as via the unit console interface Setup Command (SE).

NOTE: MAP profiles are not available through the Web interface, and can only be configured via the unit console interface.

For more information on the unit console interface Setup Command, see the *03-Getting Started.pdf* System Reference Manual available on the NetPerformer Companion CD.

For more information about each configuration profile available on NetPerformer, as well as their applications, see the various System Reference Manuals also available on the NetPerformer Companion CD.

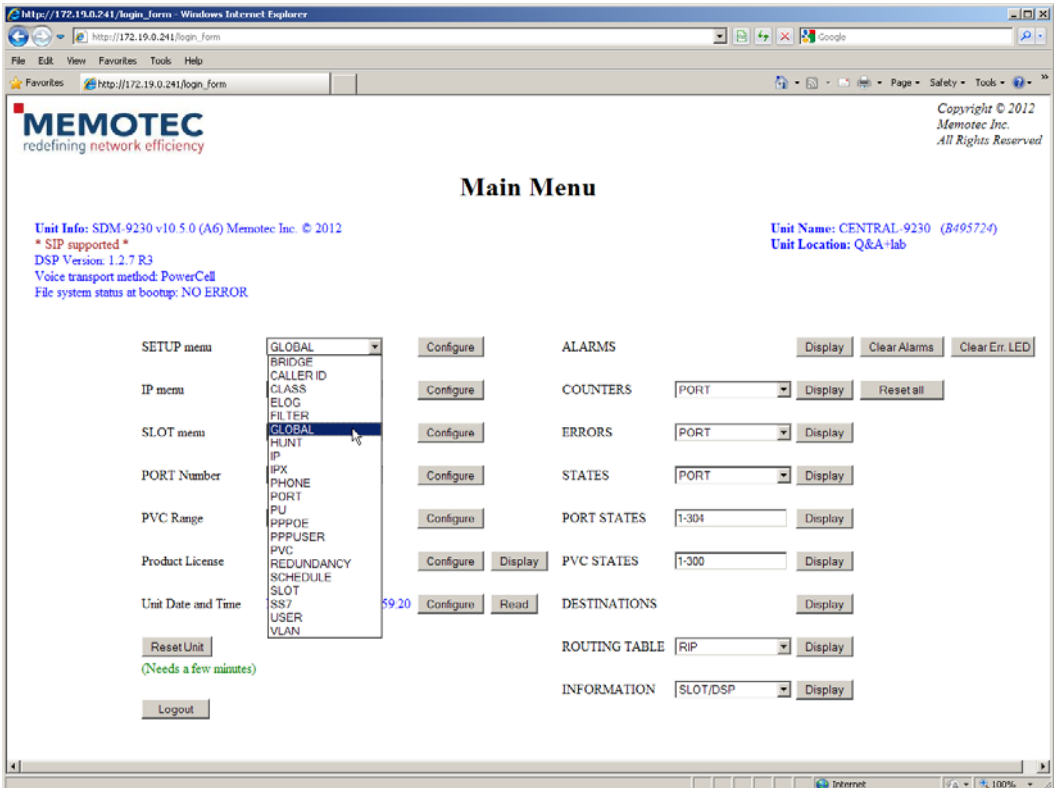

Figure 3-1: Drop-down list for the Setup Menu

Once a specific profile has been selected for the Setup menu (for example the Global profile selection as shown in Figure 3-1), click on the Configure button to access the

Configuration Page for the selected item.

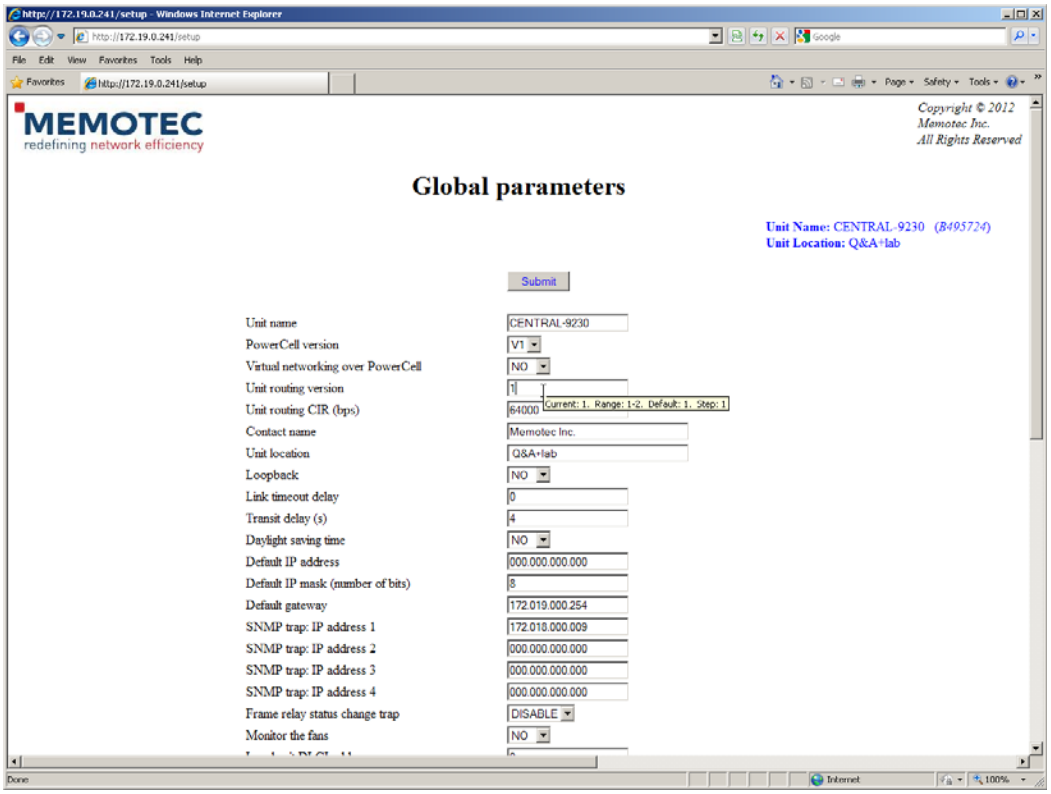

Figure 3-2: Global Parameters Configuration Page (Top)

Once you access the Configuration page for the selected menu item (for example the Global Parameters as illustrated in Figure 3-2), you will see, on a single page, all the parameters available for the configuration of that profile. Scroll up and down to see all available parameters. The value that appears in each parameter field is the one currently in use (active). You can select and change multiple values before you submit your configuration changes.

To submit configuration changes click on either Submit button available on the Configuration page. You will find a Submit button on the top of the page (Figure 3-2), as well as at the bottom of the page (Figure 3-3).

For information on NetPerformer Global Parameters, see Chapter 5 of the *04-Quick Configuration.pdf* System Reference Manual available on the NetPerformer Companion CD.

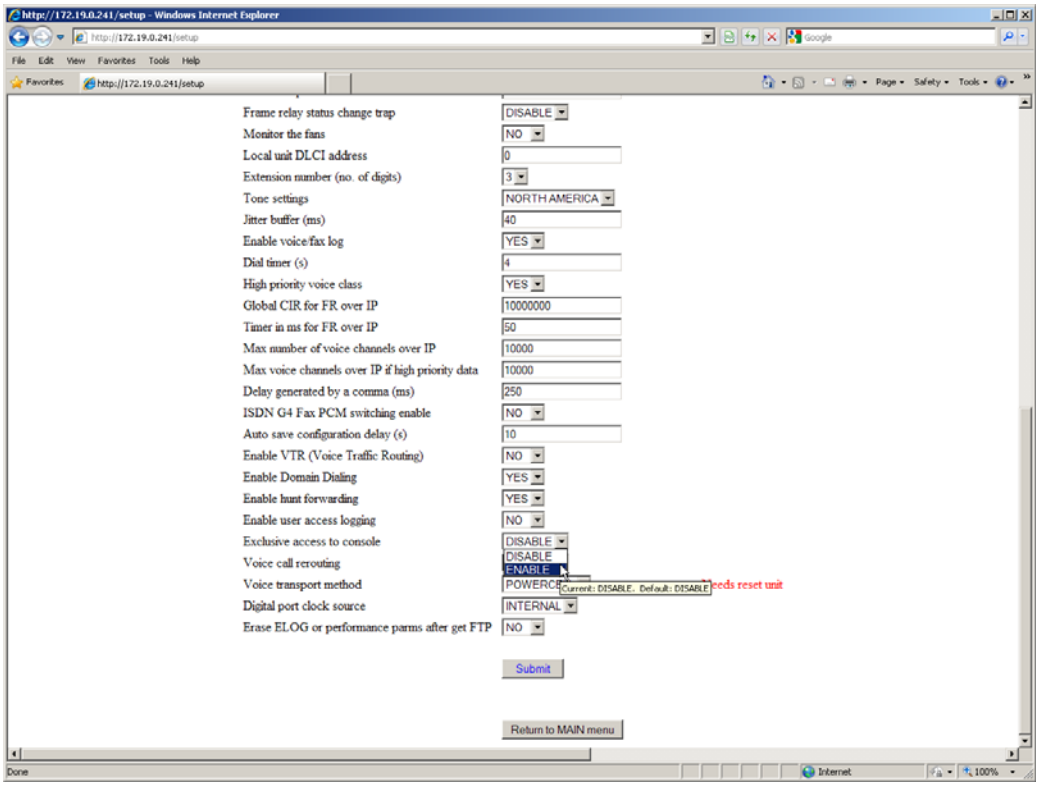

Figure 3-3: Global Parameters Configuration Page (Bottom)

Also at the bottom of the configuration page, the Return to MAIN button returns you to the MAIN page. This button can be clicked on at any time during the navigation through the Configuration page.

NOTE: If parameter values that are changed, but not submitted, before returning to the main menu are not saved in the configuration. This action may be useful when wanting to abandon configuration charges.

3.2 IP Configuration

IP menu configuration provides access to all the different configuration profiles available on the NetPerformer unit for IP configuration. The IP menu drop-down list (see Figure 3-4) provides you with the same selections as the ones you would get via the unit console interface Setup IP Command (SE/IP).

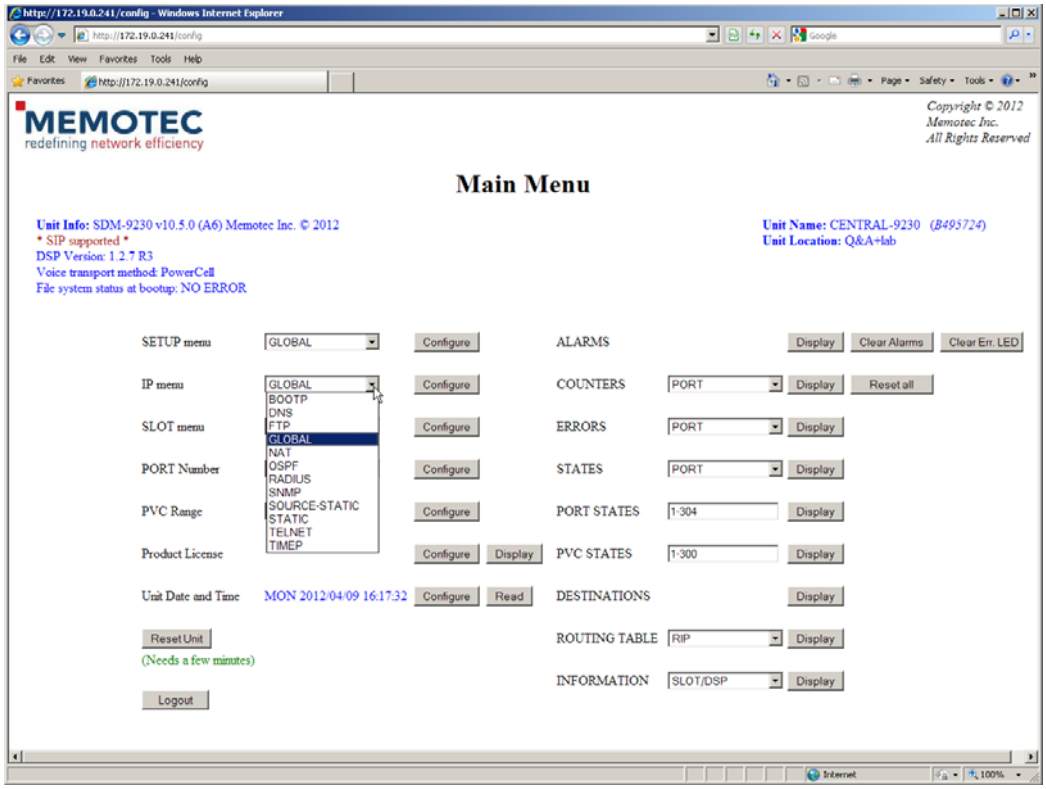

Figure 3-4: Drop-down List for the IP menu

Once you have accessed the Configuration Page for the selected IP menu item (for example the IP Global parameters as illustrated in Figure 3-5) you will see, on a single page, all the parameters available for that profile.

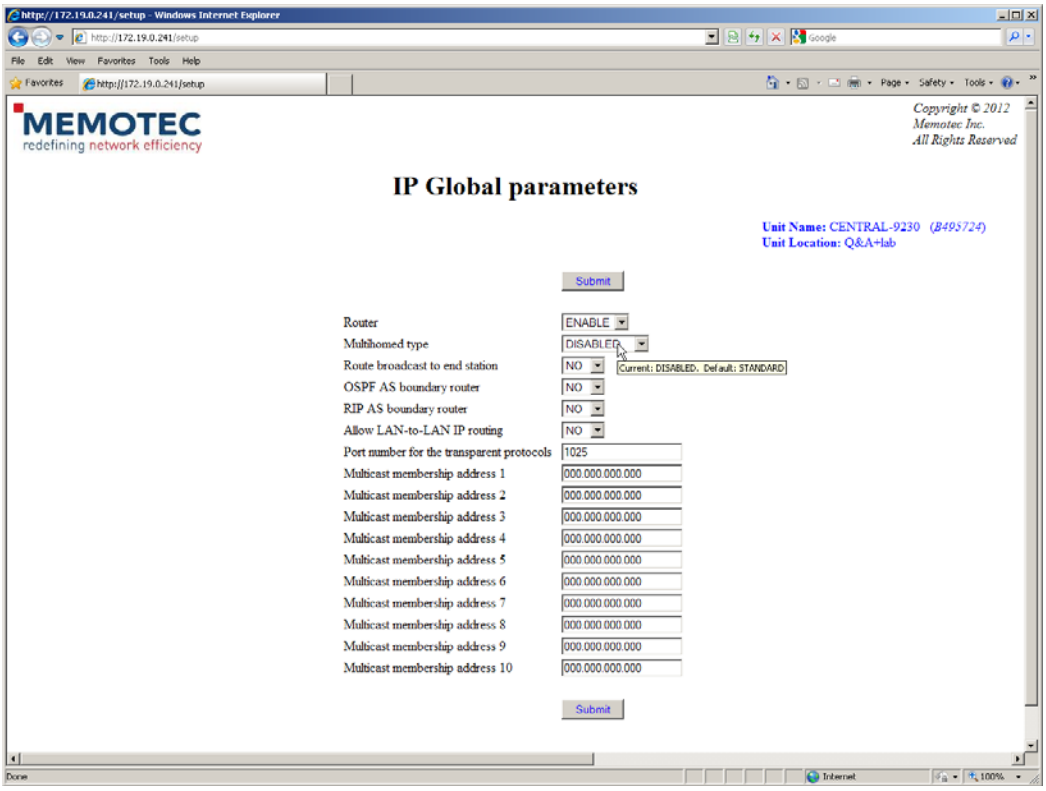

Figure 3-5: IP Global parameters Configuration page

For more information on NetPerformer IP Parameters, see the *13-LAN Connection and IP Networks.pdf* System Reference Manual available on the NetPerformer Companion CD.

3.3 Slot Configuration

The Slot menu on the Main Menu Web page gives you access to the NetPerformer SDM-9220 (2 slots) and SDM-9230 (3 slots) Link and Channel configuration profiles. The drop-down list (see Figure 3-6) provides the same selections as via the unit console interface Setup Slot Command (SE/SLOT).

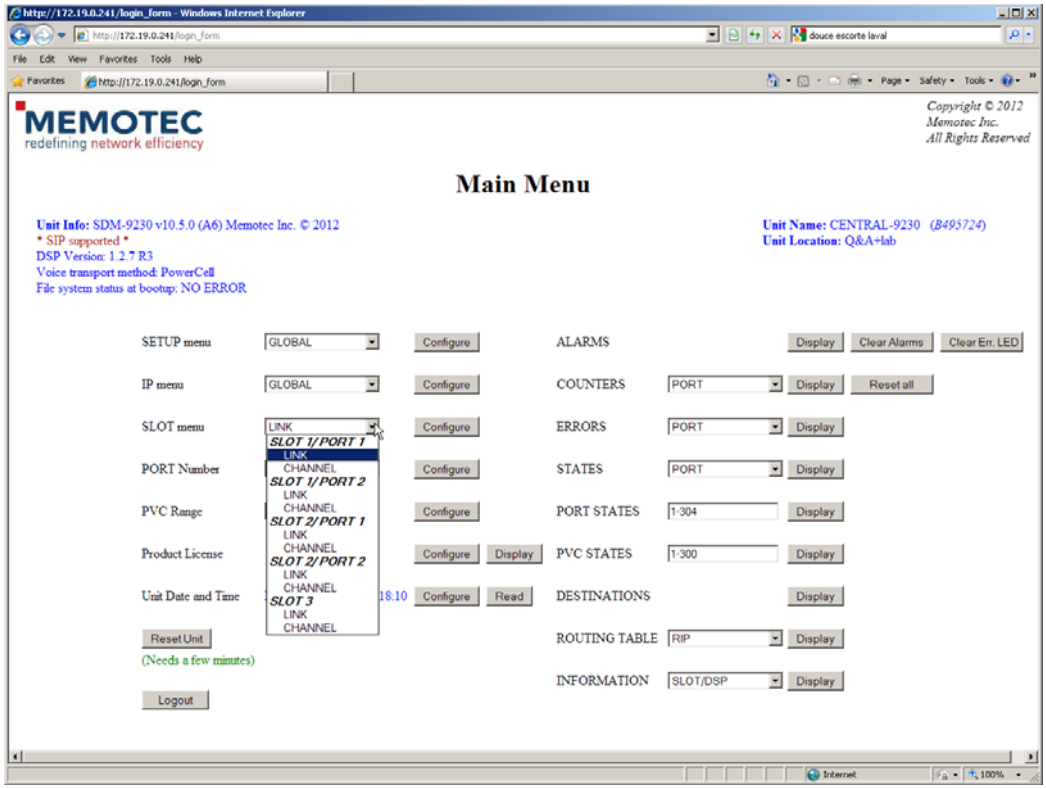

Figure 3-6: Drop-down list for the Slot Menu

For any of the configurable slots you should first select the Link parameters in order to configure and activate the interface cards available in the slots as illustrated bellow in Figure 3-7, which shows a dual T1/E1 card installed in slot 1.

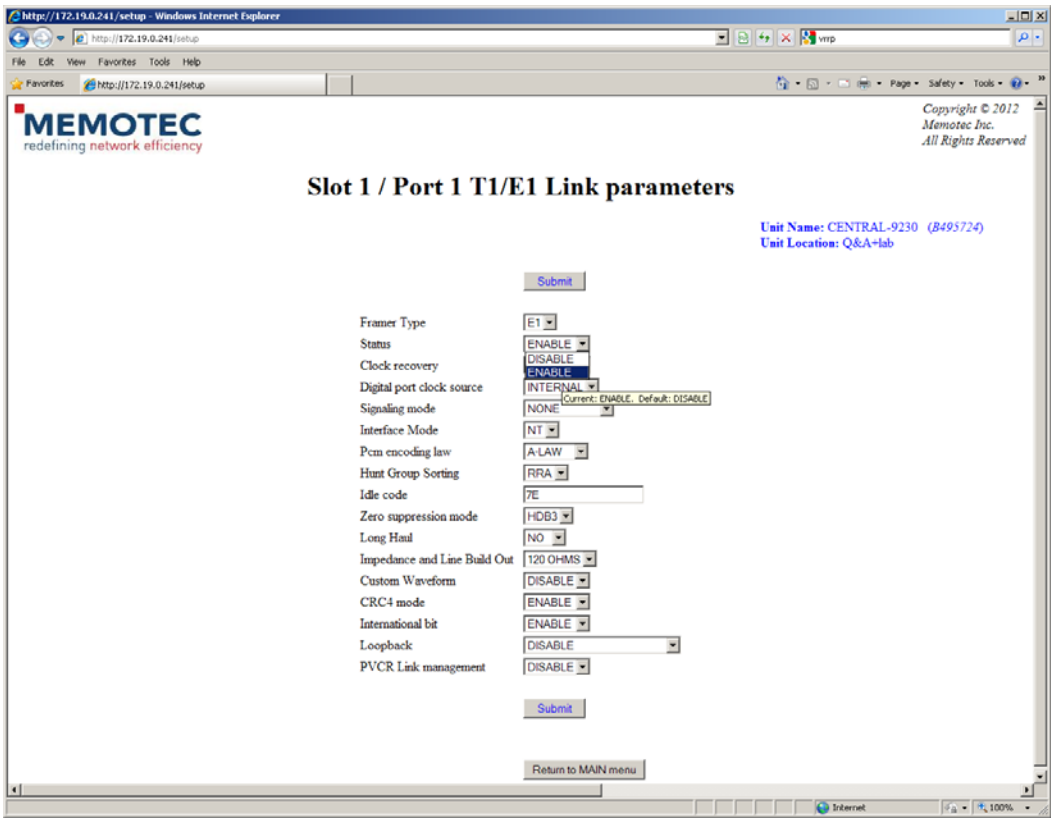

Figure 3-7: Slot Link Parameters Configuration page

Once the link parameters are submitted, return to the Main Menu to select the card channel(s) to be configured.

NOTE: The card channels can be configured one by one or as a group by selecting a range of channels.

The card channel(s) selection is done via an edit field as illustrated in Figure 3-8 bellow:

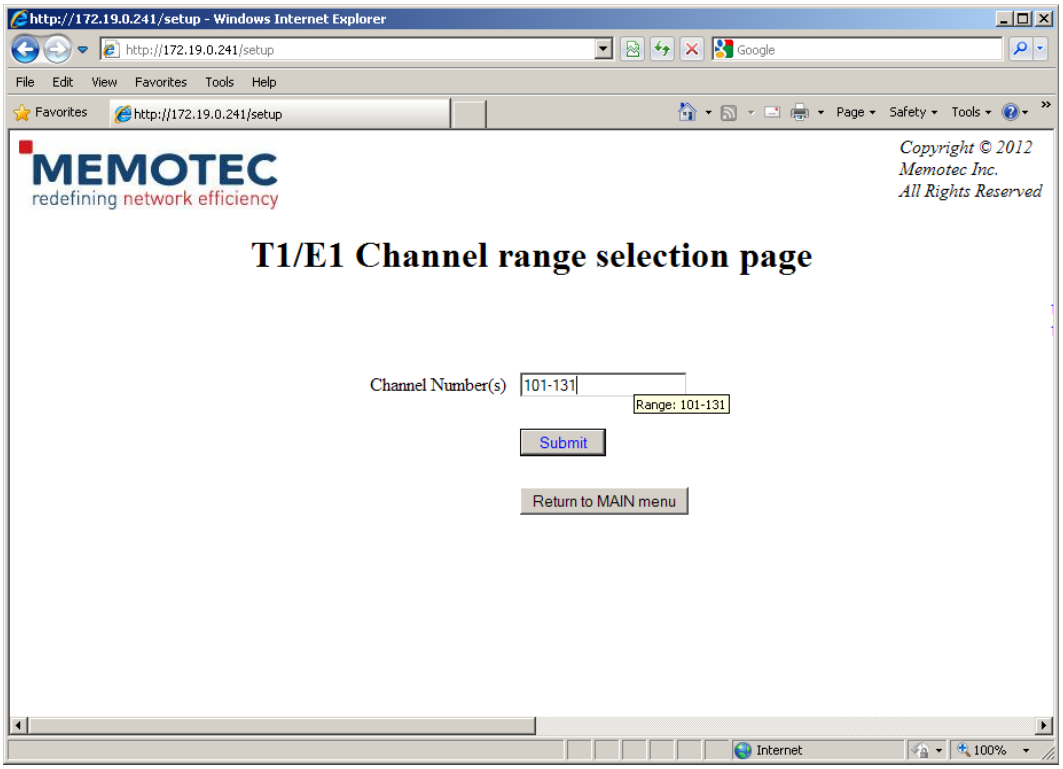

Figure 3-8: Channel Number edit field

Once you have specified the channel(s) to configure on the interface card, click on the Submit button to proceed. You will then get access to the Configuration page for the card

selected channel(s) as illustrated in Figure 3-9.

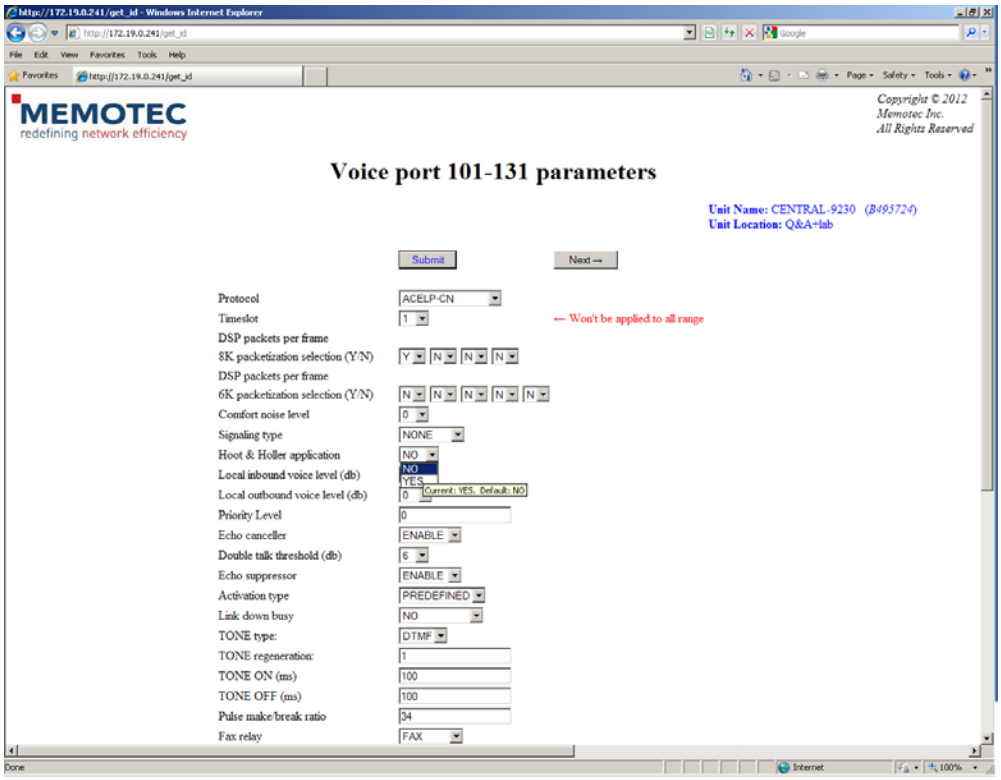

Figure 3-9: Slot Channel (Voice Port) Parameters Configuration page

For more information on NetPerformer interface cards, see the *SDM-92X0 HIG.pdf* Hardware Installation Guide for the SDM-9220/9230 available on the NetPerformer Companion CD.

For more information on the operation of interface cards, see the following System Reference manuals available on the NetPerformer Companion CD:

- *08-Digital Data.pdf*
- *10-Analog Voice.pdf*
- *11-Digital Voice.pdf.*

3.4 Port Configuration

The Port Number of the Main Menu Web page gives you access to the NetPerformer base unit ports. The drop-down list (Figure 3-10) provides you with the same selections as the ones you would get via the unit console interface Setup Port Command (SE/PORT).

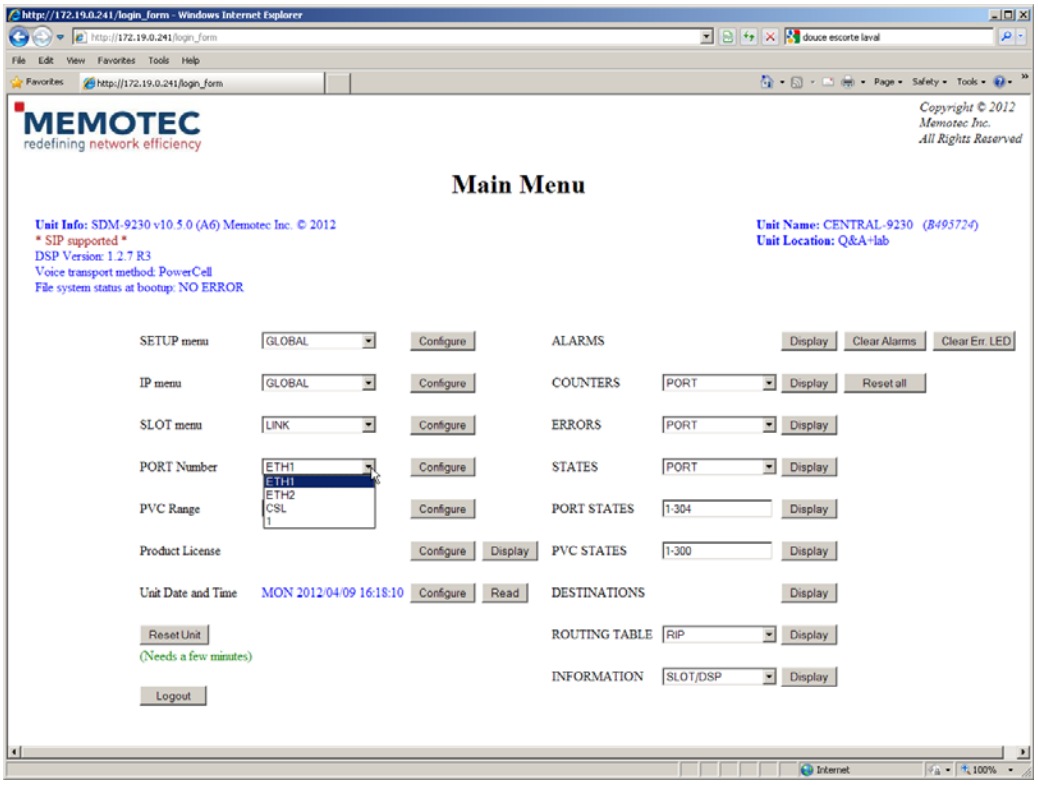

Figure 3-10: Drop-down List for the Port Menu

Select the port to be configured and click on the Configure button to access that port Configuration Page as illustrated in Figure 3-11.

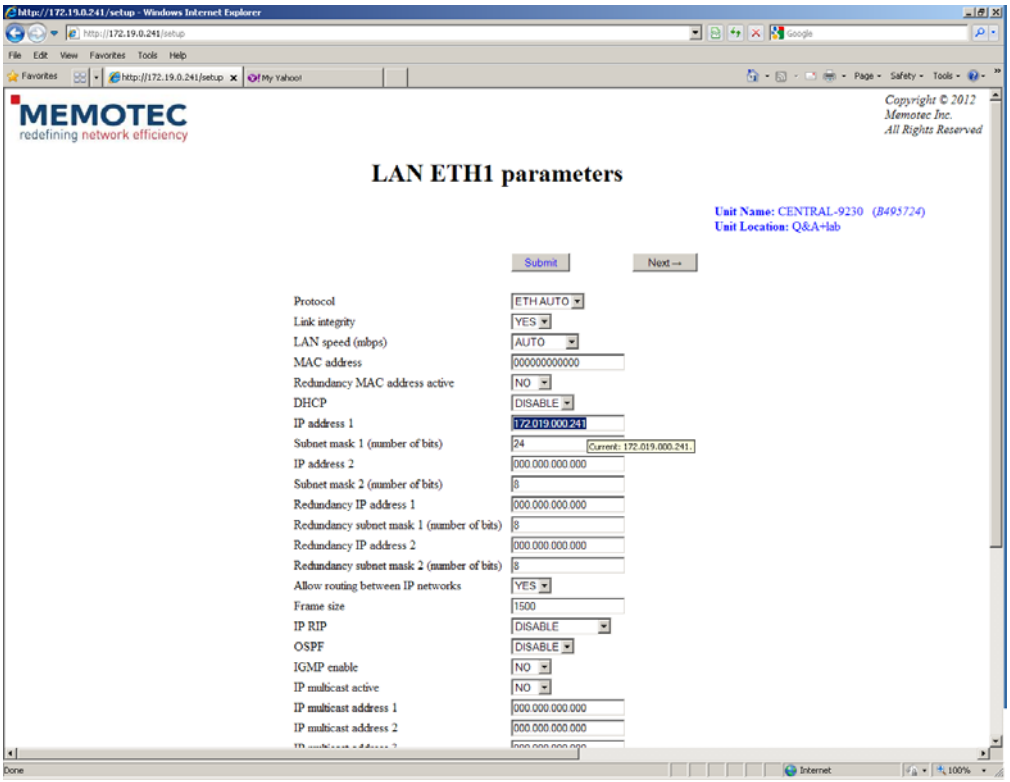

Figure 3-11: ETH1 Port Parameters Configuration page

For more information on NetPerformer base unit ports, see the Hardware Installation Guides for the SDM-9220/9230, SDM-8400, SDM-9606 and SDM-9620 available on the NetPerformer Companion CD.

For more information on the operation of those ports, see the following System Reference manuals available on the NetPerformer Companion CD:

- *04-Quick Configuration.pdf*
- *05-WAN_Leased Lines.pdf*
- *07-WAN_Point-to-Point Protocol.pdf*
- *13-LAN Connection and IP Networks.pdf.*

3.5 PVC Configuration

The PVC Range Configure button on the Main Menu Web page gives you access to the NetPerformer PVC (Permanent Virtual Circuit) configuration for the specified PVC range. The range available (see Figure 3-12) is the same as via the unit console interface Setup PVC Command (SE/PVC).

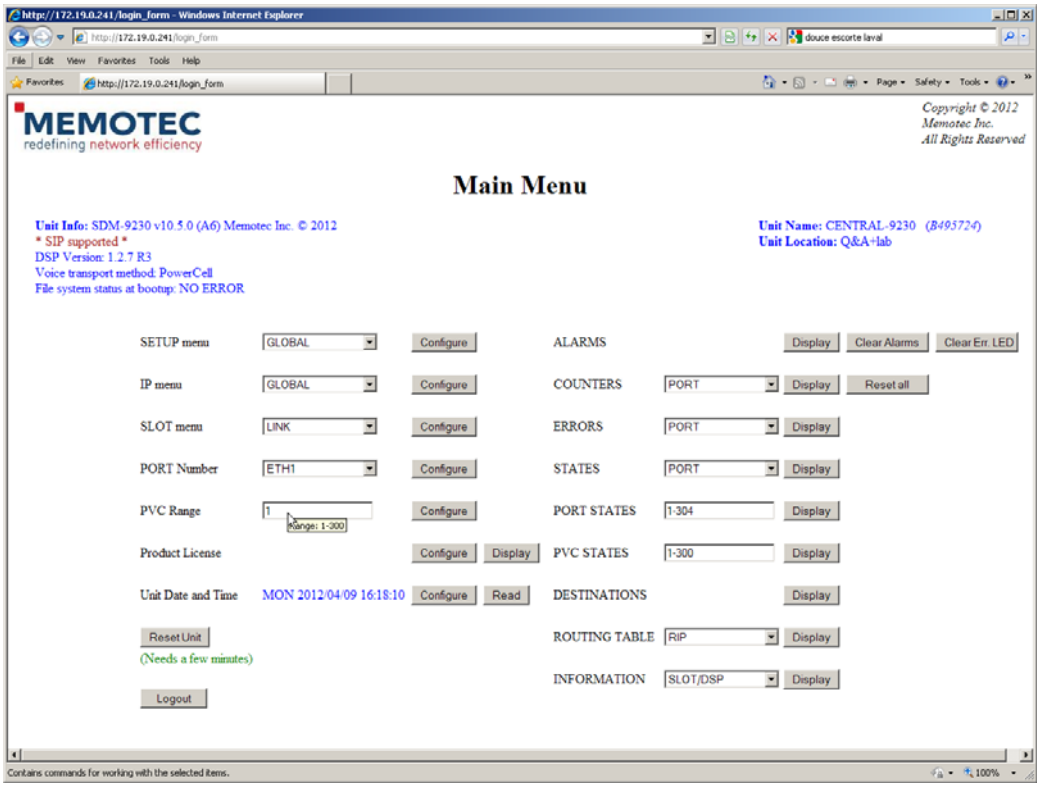

Figure 3-12: PVC Range edit field

Enter the PVC or PVC Range to be configured and click on the Configure button to access

the PVC configuration page as illustrated in Figure 3-13.

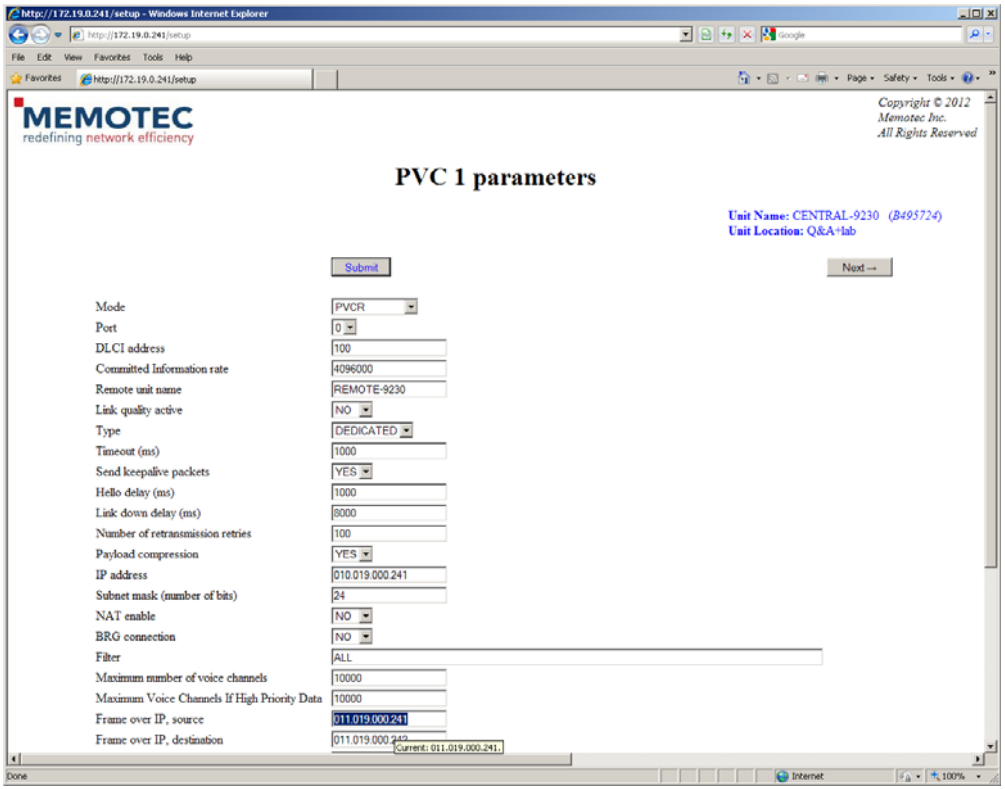

Figure 3-13: PVC 1 Parameters Configuration page

For more information on the operation of the PVC, see the following System Reference manuals available on the NetPerformer Companion CD:

- *06-WAN_Frame Relay.pdf*
- *13-LAN Connection and IP Networks.pdf*

3.6 Product License Configuration

The Product License option on the Main Menu Web page Configure or Display the Product Licensee. The Configure button accesses the Product License Configuration page (Figure 3-13) and provides the same configuration options as via the unit console interface Product License Status Command (PLS).

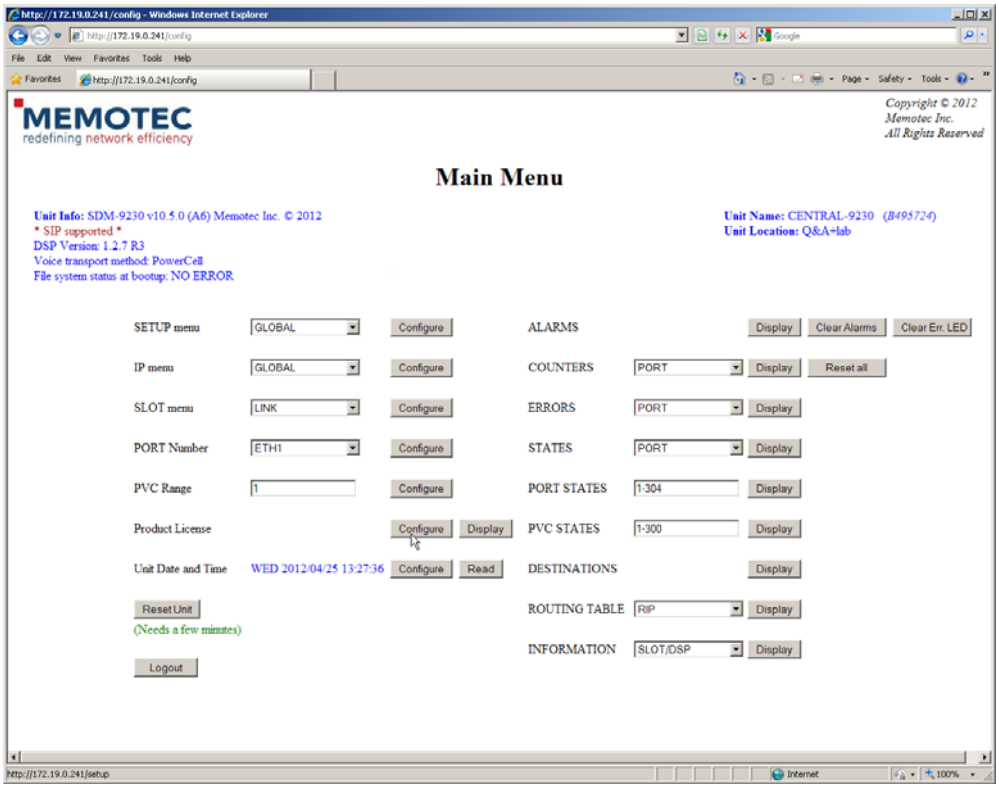

Figure 3-14: Product License Menu Selection

To see which licenses are currently activated in the unit, click the Product License Display button (Figure 3-14).

Click on the Configure button of the Product License field in order to add or delete

licenses through the Product License Management page as illustrated in Figure 3-15.

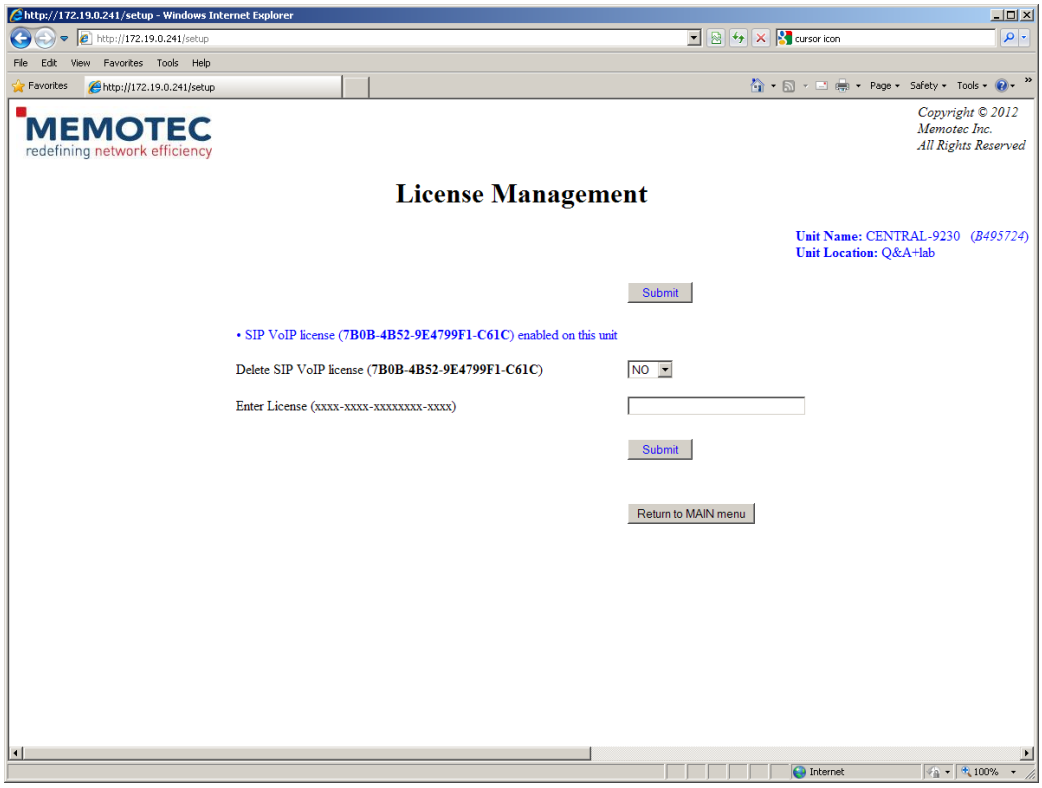

Figure 3-15: Product License Management page

For more information on the NetPerformer Product License management and status option, see the *02-Software Installation and Licensing.pdf* System Reference manual available on the NetPerformer Companion CD.

3.7 Date and Time Configuration

The Unit Date and Time Configure button (Figure 3-16) on the Main Menu Web page gives you access to the Date and Time Configuration Menu. The Date and Time Configure button provides the same configuration options as the unit console interface Set Time Command (ST).

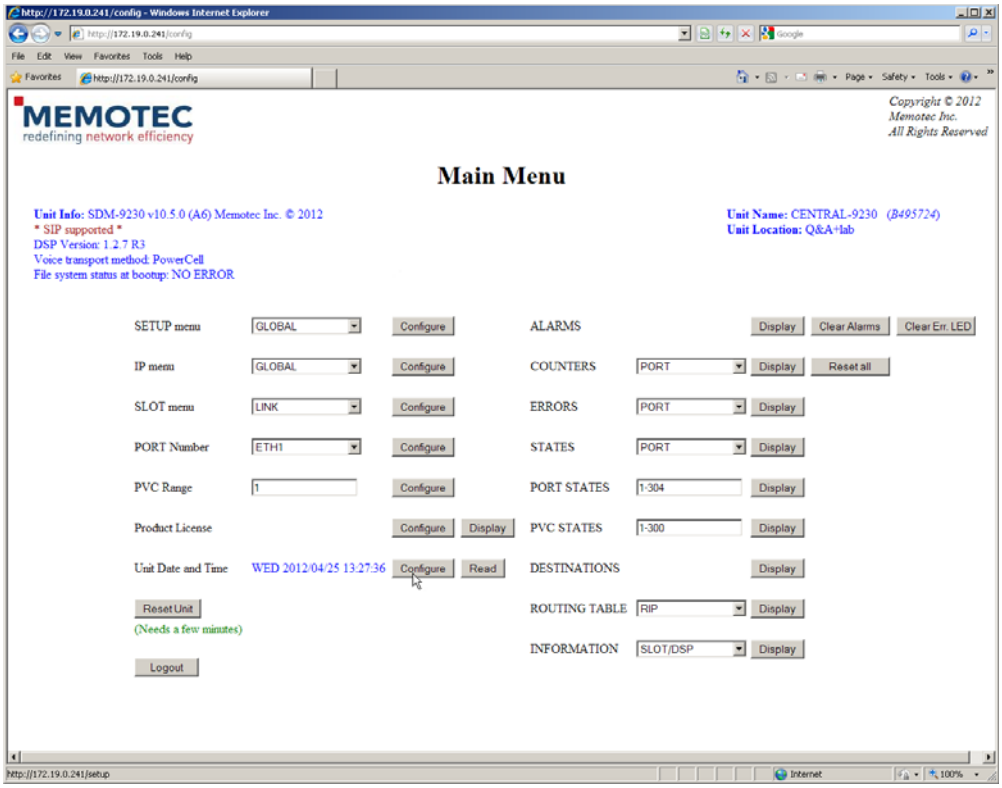

Figure 3-16: Unit Date and Time Configure button

Click on the Configure button of the Unit Date and Time menu selection to access the Time Configuration page as illustrated in Figure 3-17. To refresh the current data and time displayed on the Main Menu page, click on the Read button of the Unit Date and Time field.

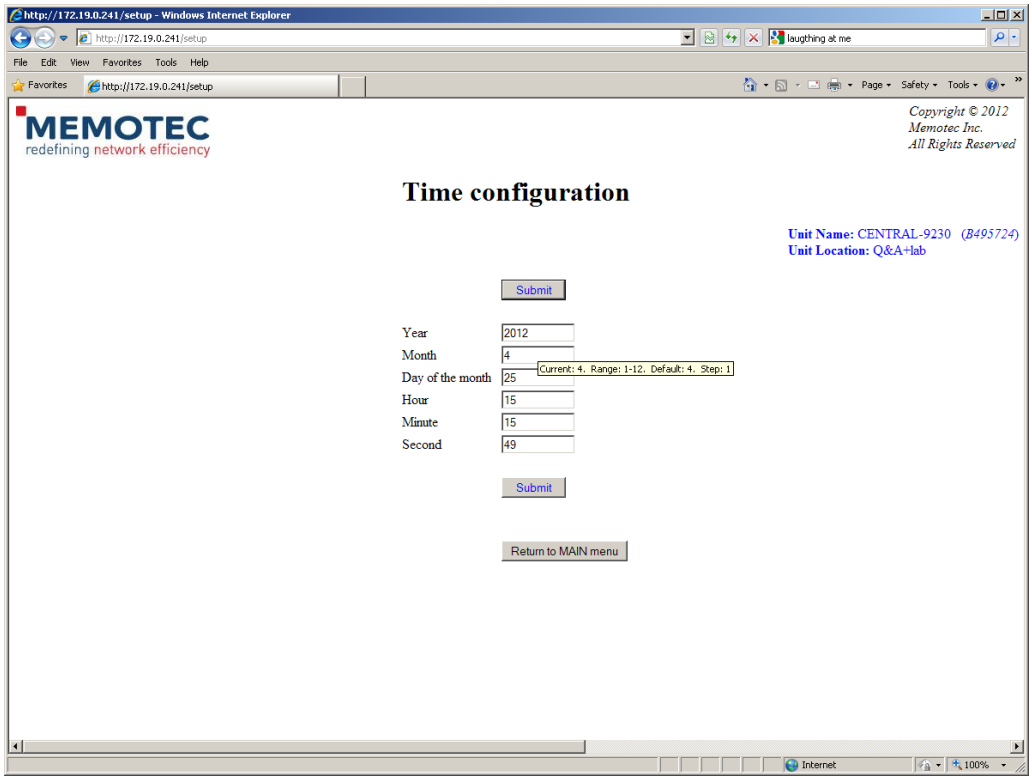

Figure 3-17: Time configuration page

For more information on date and time configuration, see the *04-Quick Configuration.pdf* System Reference manual available on the NetPerformer Companion CD

4

Display/Monitoring Menus

This chapter includes the following:

- "Alarms Display" on page 4-2 (see next section)
- "Counters Display" on page 4-4.
- "Errors Display" on page 4-6
- "Global States Display" on page 4-8.
- "Port States Display" on page 4-10
- "PVC States Display" on page 4-12.
- "Destinations Table Display" on page 4-14
- "Routing Table Display" on page 4-16.
- "Unit Information Display" on page 4-18

4.1 Alarms Display

Alarms Display is at the top of the display items area on the right side of the Main Menu Web page. The Alarms buttons (Figure 4.1) allow you to Display and Clear Alarms, and to Clear Error LEDs. The Display button provides the same information (Figure 4-2) as provided by the unit console interface Display Alarms (DA) command.

Following the Display button are the Clear Alarms and Clear Err LED buttons, for clearing the alarms and for clearing the errors LED. Those two options provide the same results as the unit console interface Clear Alarms (CA) and Clear ERR LED (CE) commands.

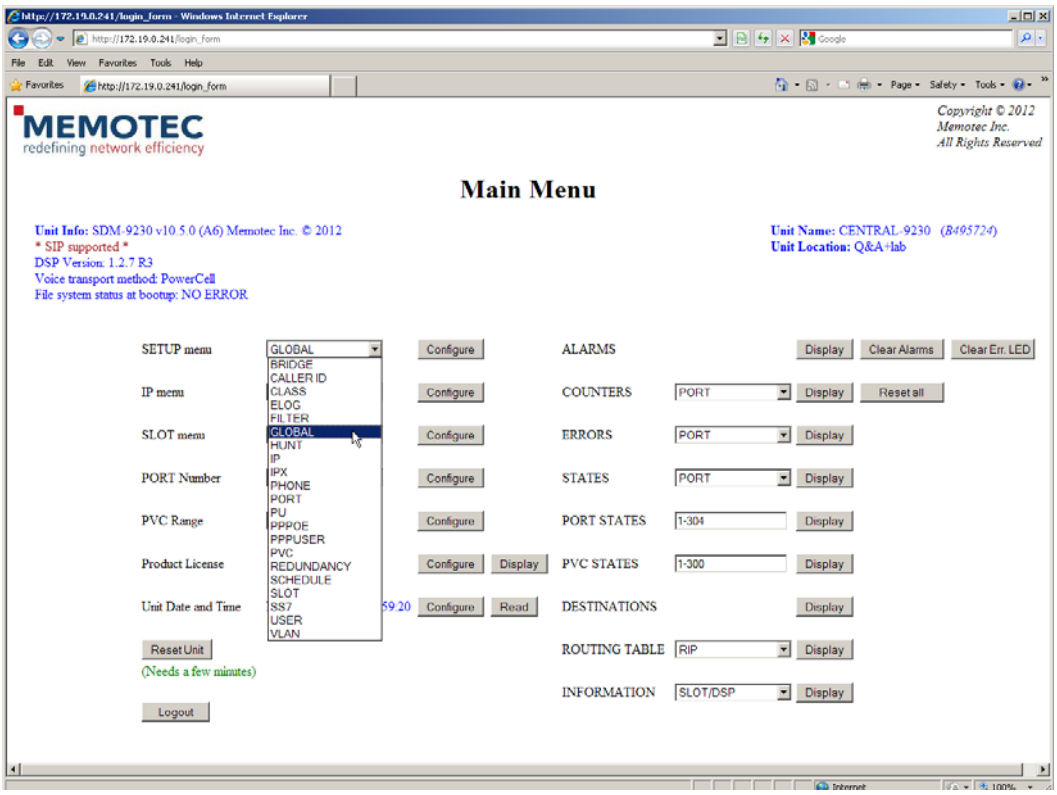

Figure 4-1: Alarms options (right side)

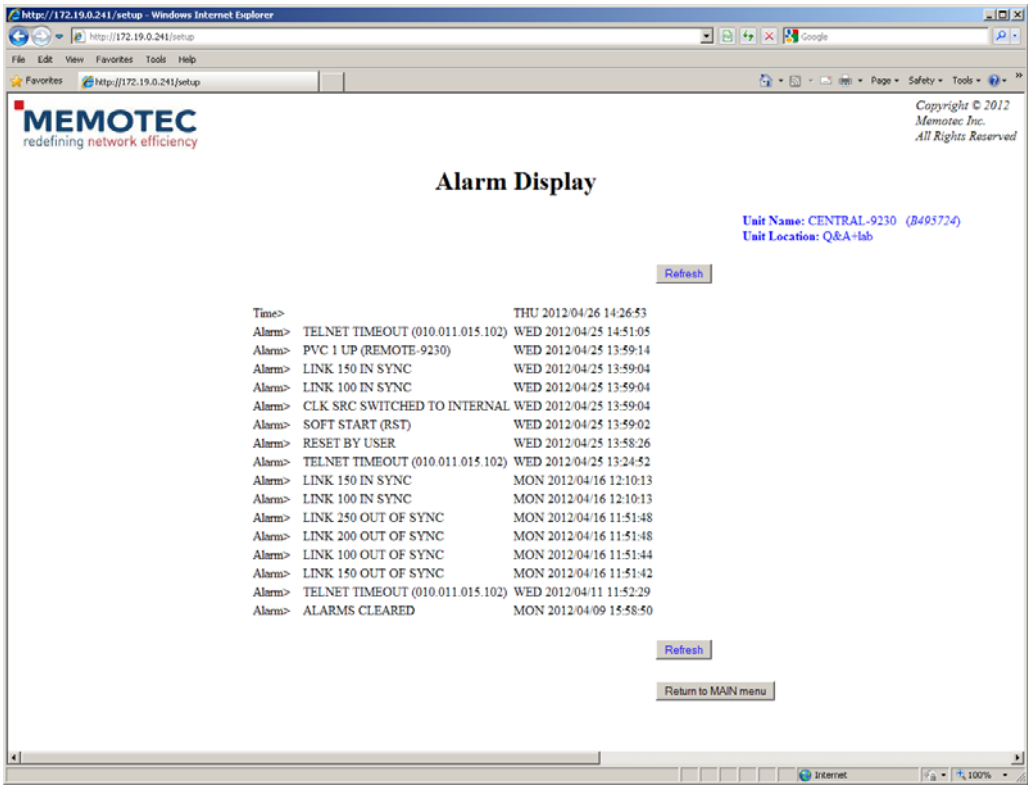

Figure 4-2: Alarm Display page

Use the Refresh button to update the Alarm Display list with the latest information.

For more information on the Alarm options of the NetPerformer, see the *22-Diagnostics and Troubleshooting.pdf* System Reference manual available on the NetPerformer Companion CD.

4.2 Counters Display

The Counters drop-down menu provides access to a selection of Counters for Display for the current unit. The drop-down List (Figure 4-3) provides the same selections as the unit console interface Display Counters Command (DC).

The Reset all button resets all counters, providing the same results as the unit console interface Reset Counters (RC) command.

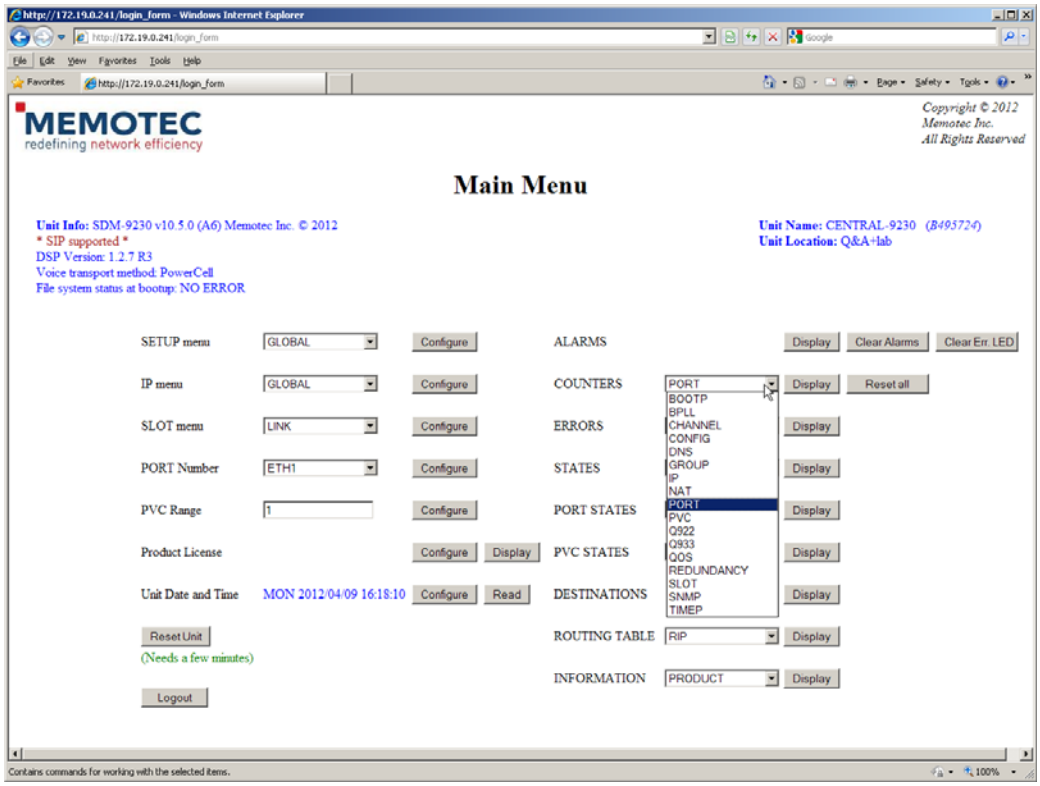

Figure 4-3: Counters Menu

Select the type of counter that you want to see and click on the Display button to access that counter display page, as illustrated in Figure 4-4, which uses the Port Counters display as an example.

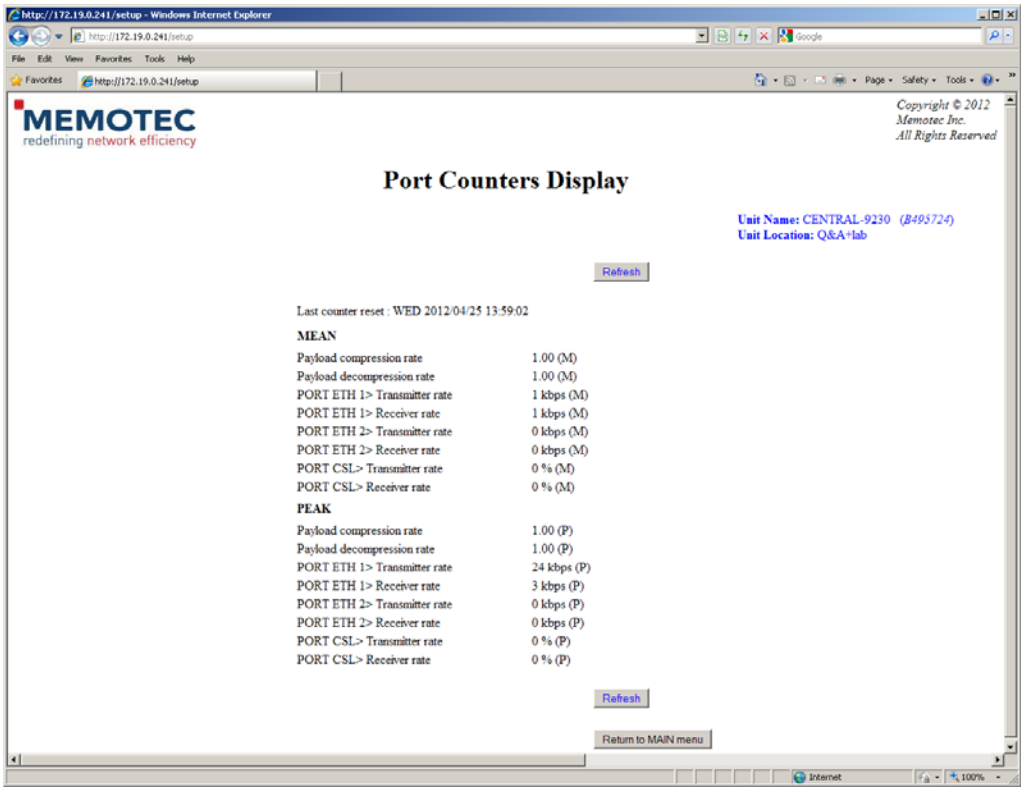

Figure 4-4: Port Counters Display page

For more information on NetPerformer Display Counters, see the *22-Diagnostics and Troubleshooting.pdf* System Reference manual available on the NetPerformer Companion CD.

4.3 Errors Display

The Errors Display menu on the Main Menu Web page (Figure 4-5) lets you Display various types of Errors. The drop-down list provides the same selections as the unit console interface Display Errors Command (DC).

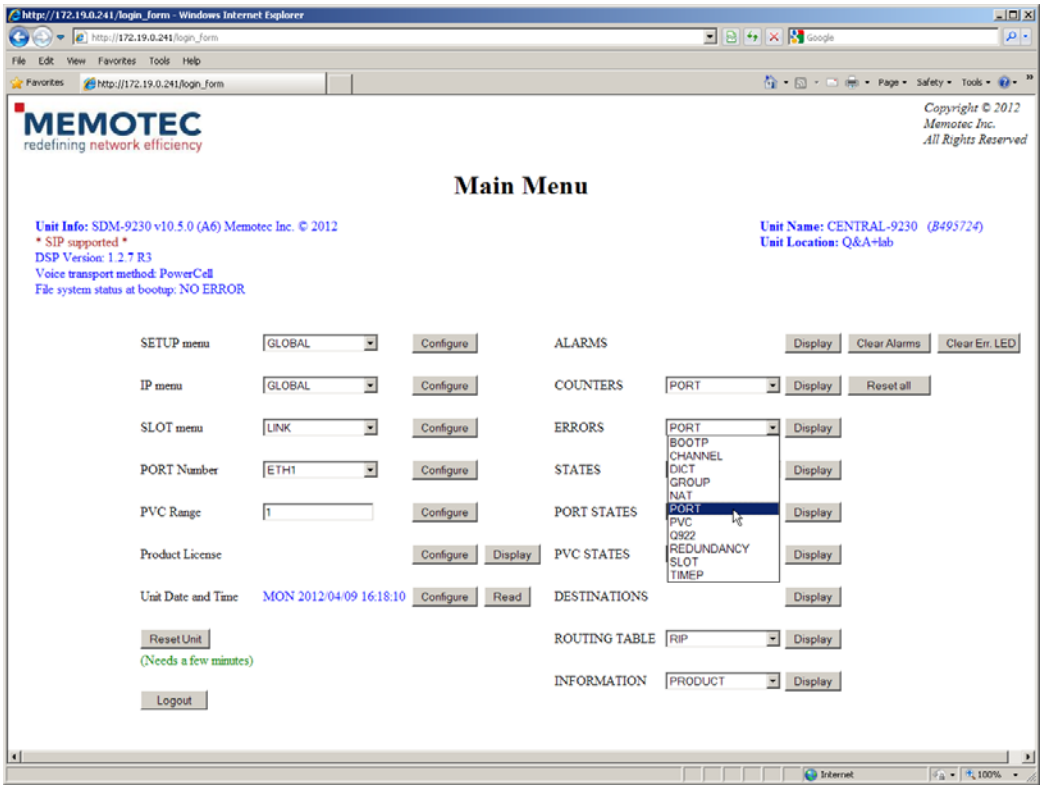

Figure 4-5: Errors Display Menu

Select the type of Error that you want to see, and click on the Display button to access that Error Display page as illustrated in Figure 4-6, which uses the Port Errors display as an example.

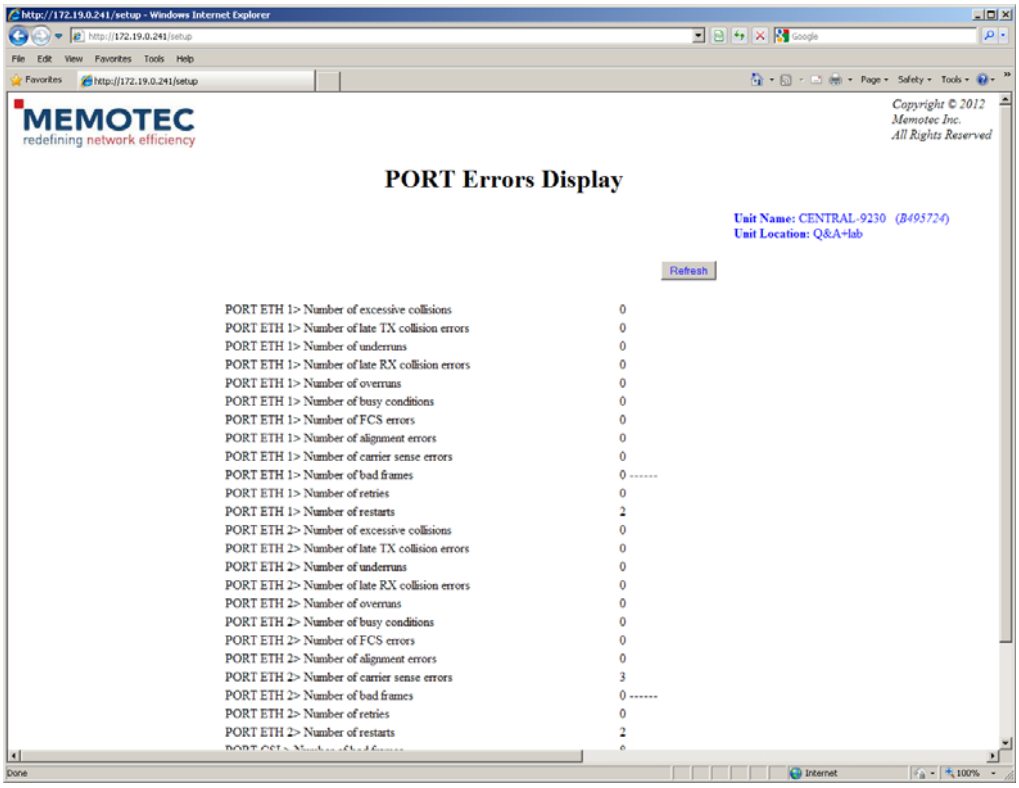

Figure 4-6: Port Errors Display page

For more information on NetPerformer Display Error options, see the *22-Diagnostics and Troubleshooting.pdf* System Reference manual available on the NetPerformer Companion CD.

4.4 Global States Display

The States menu provides access to various Display States. The drop-down list (Figure 4-7) provides the same selections as the unit console interface Display States Command (DS).

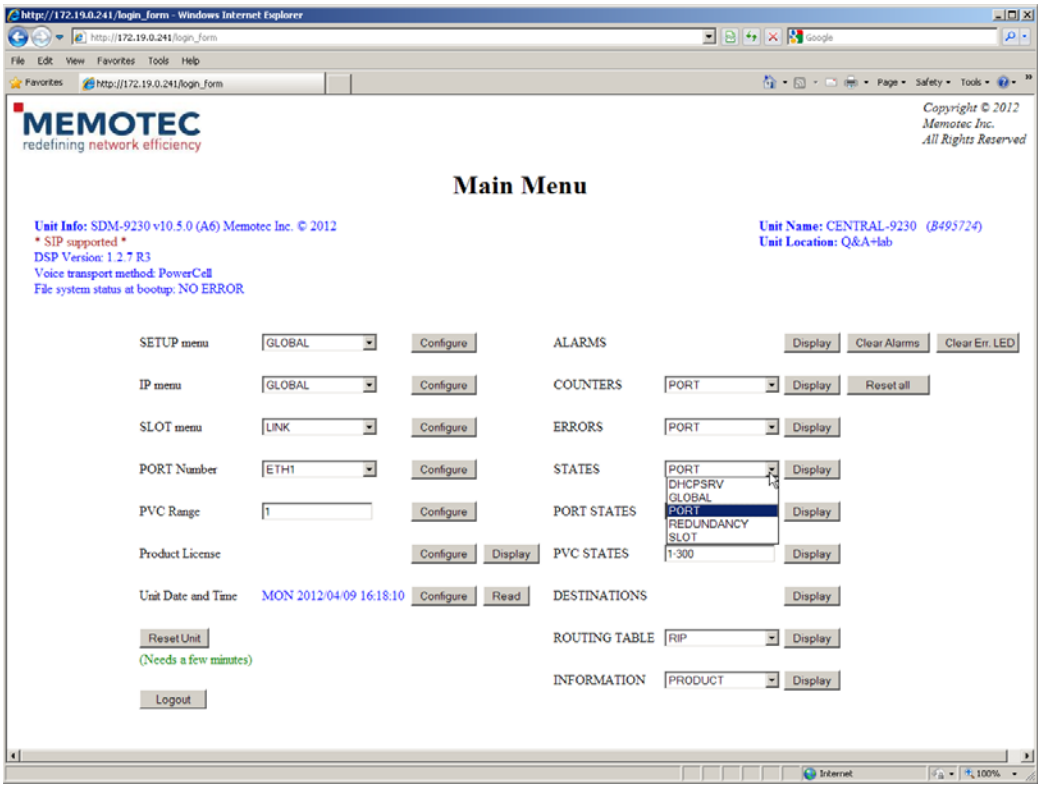

Figure 4-7: States menu

Select the type of State that you want to see and click on the Display button to access the display page as illustrated in Figure 4-8, which uses the Port States Display as an example.

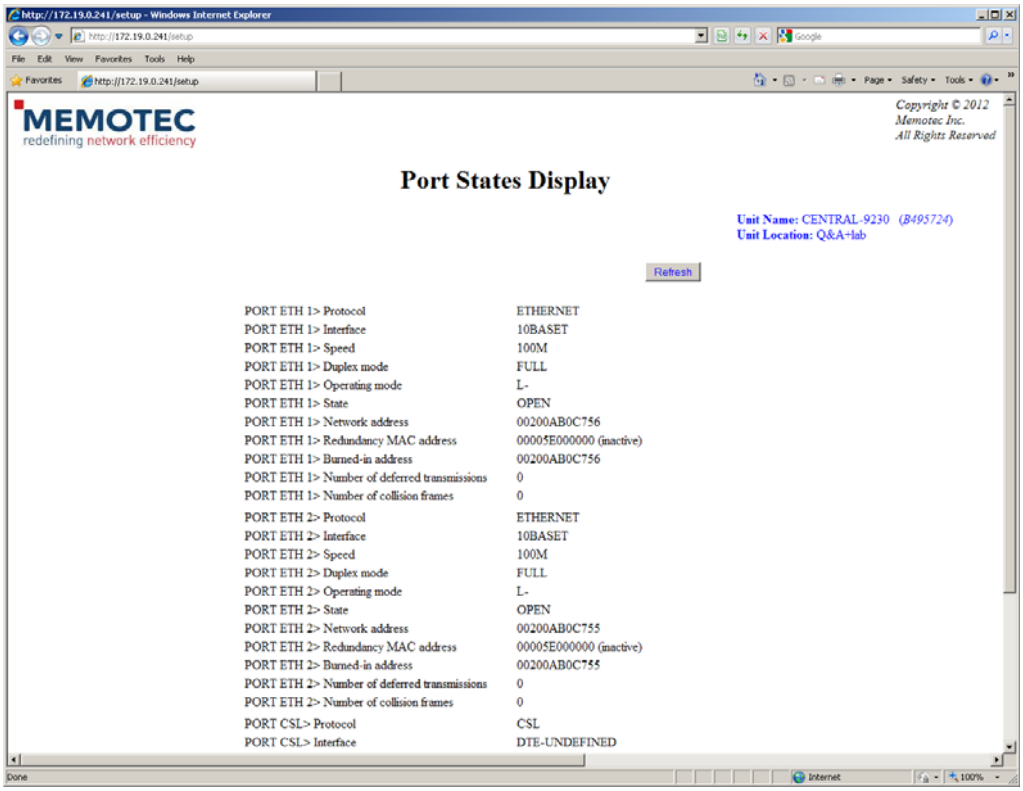

Figure 4-8: Port States Display page

For more information on NetPerformer Display States options, see the *22-Diagnostics and Troubleshooting.pdf* System Reference manual available on the NetPerformer Companion CD.

4.5 Port States Display

The Port States Display menu (Figure 4-9) of the NetPerformer Main Menu web page provides access to the Port States Display.

The Port States Display page provides the same information as the unit console interface Display Port States (DPO) command.

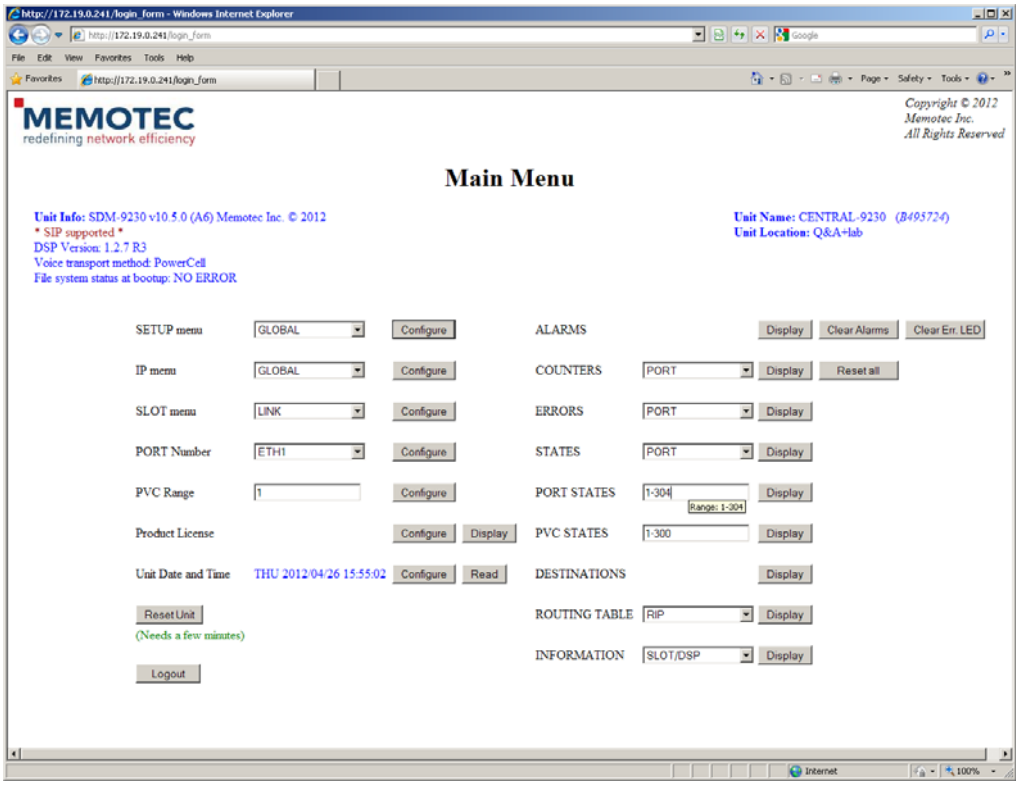

Figure 4-9: Port States edit field

Specify a Port or range of Ports to see the associated state or states (Figure 4-10).

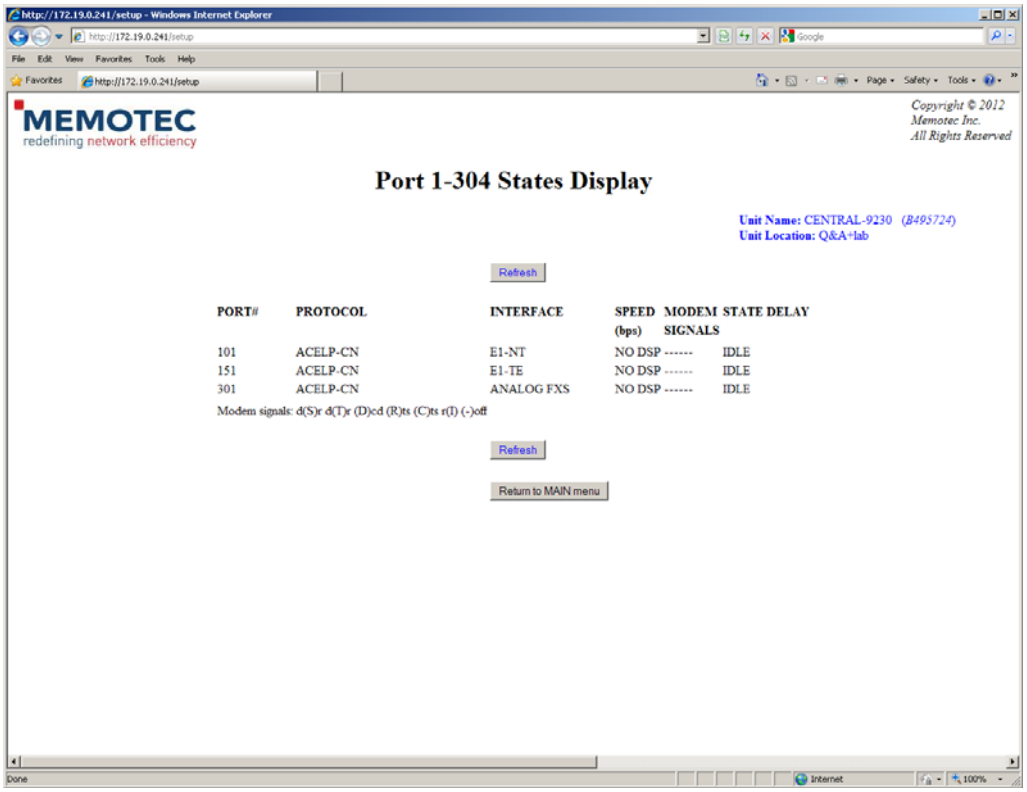

Figure 4-10: Port States Display page

For more information on NetPerformer Port States Display options, see the *22-Diagnostics and Troubleshooting.pdf* System Reference manual available on the NetPerformer Companion CD.

4.6 PVC States Display

The PVC States Display menu (Figure 4-11) on the NetPerformer Main Menu Web page provides access to the PVC States Display.

The PVC States Display page (Figure 4-12) provides the same information as the unit console interface Display PVC States (DPVC) command.

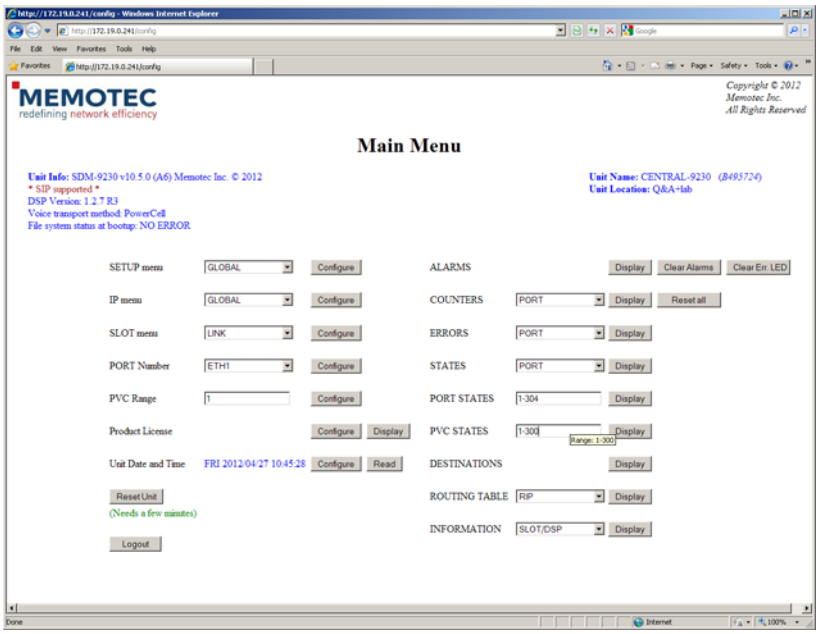

Figure 4-11: PVC States Display edit field

Specify a PVC Index or Index range and select the Display button to see the associated state or states (Figure 4-12).

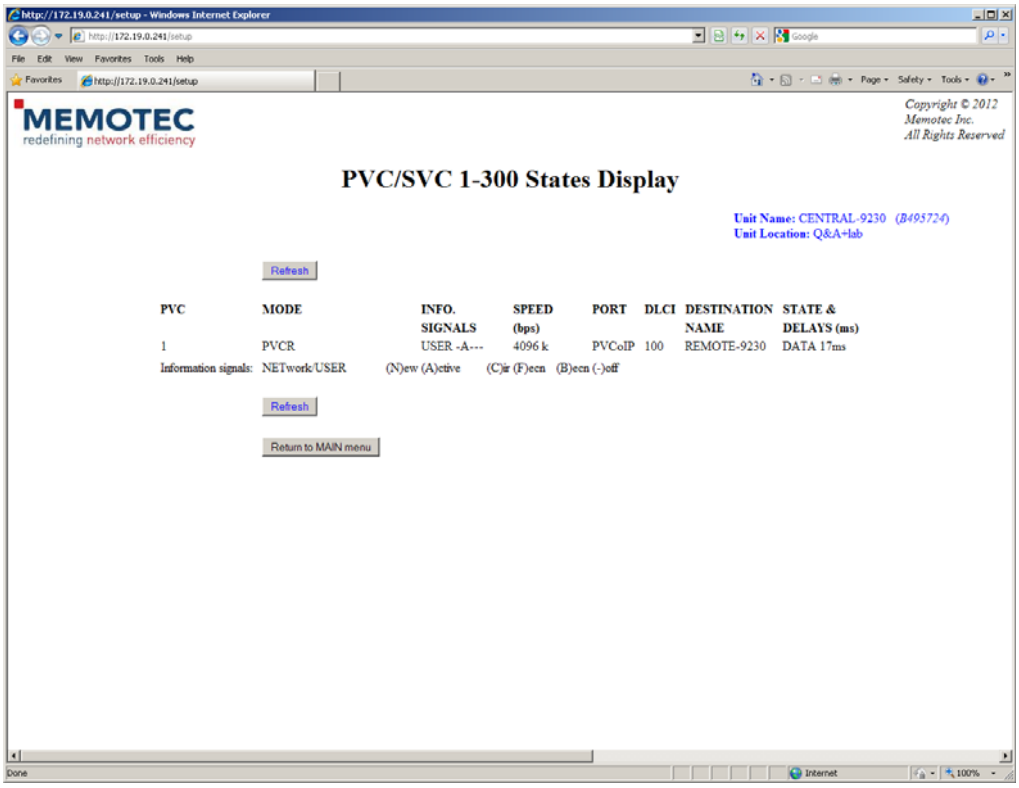

Figure 4-12: PVC States Display page

For more information on NetPerformer PVC States Display options, see the *22-Diagnostics and Troubleshooting.pdf* System Reference manual available on the NetPerformer Companion CD.

4.7 Destinations Table Display

The NetPerformer Main Menu Web page Destinations Display button (Figure 4-13) provides access to the unit Destinations Display table. The Destinations Display page (Figure 4-14) provides the same information as provided by the unit console interface Display Destination (DD) command.

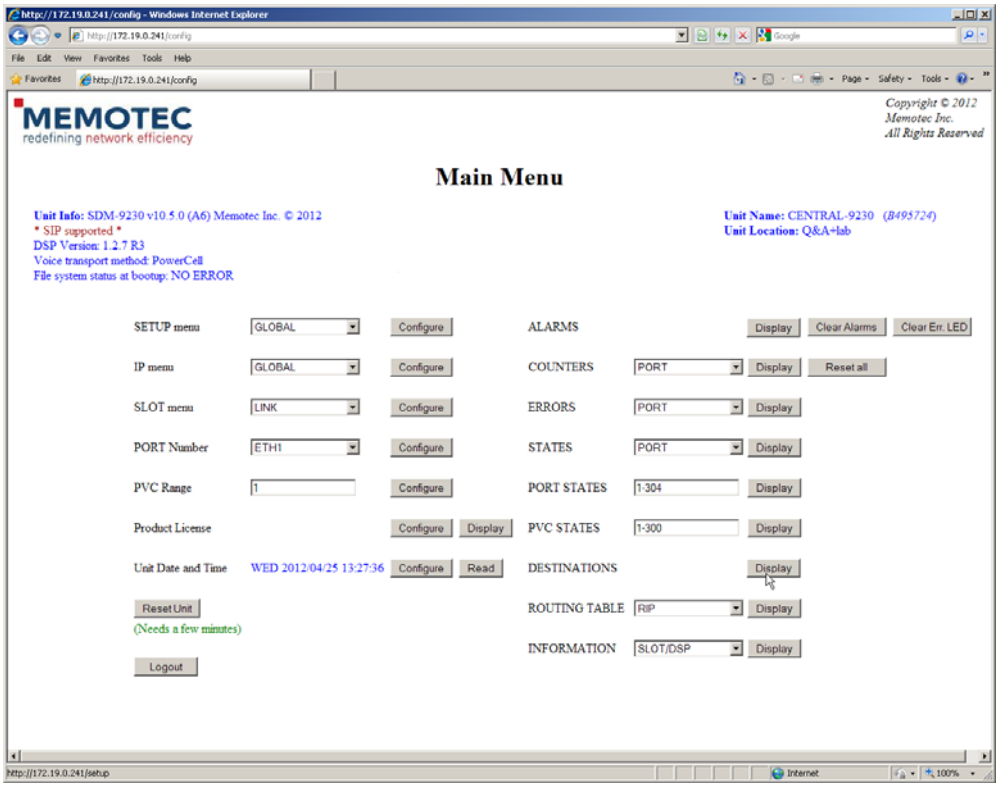

Figure 4-13: Destinations Display button

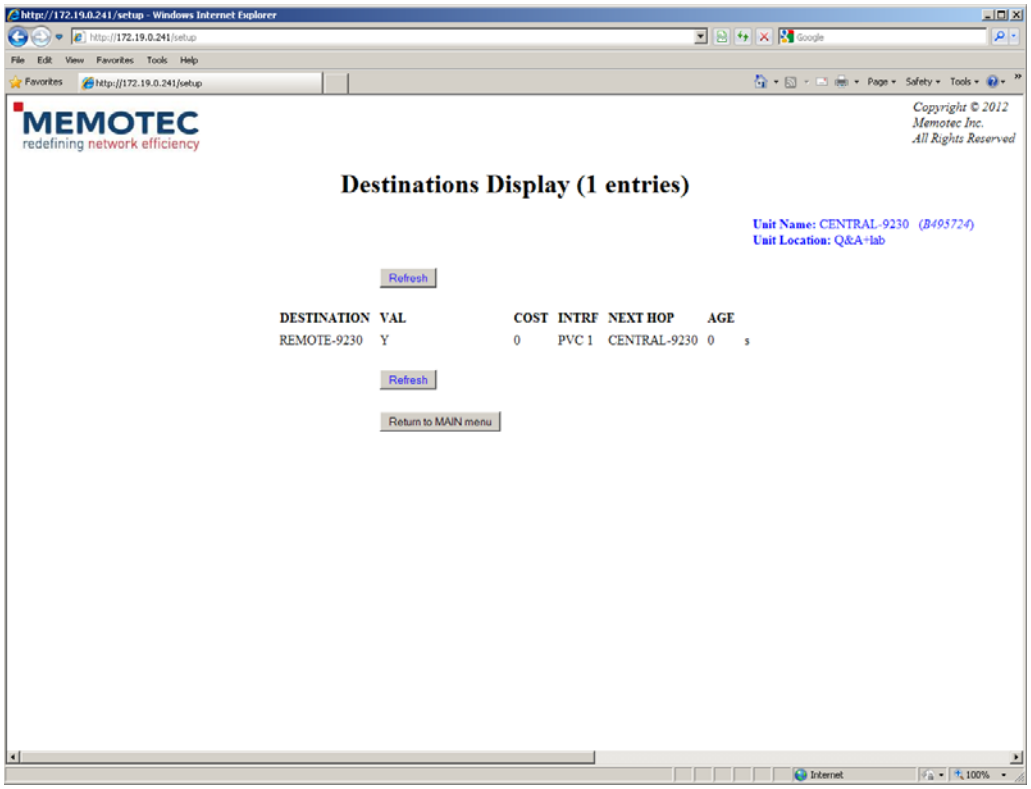

Figure 4-14: Destinations Display Table page

For more information on NetPerformer Destinations Display options, see the *22-Diagnostics and Troubleshooting.pdf* System Reference manual available on the NetPerformer Companion CD.

4.8 Routing Table Display

The NetPerformer Main Menu Web page Routing Table drop-down list provides access to various Routing Table selections. The drop-down list (Figure 4-15) provides you with the same selections as the unit console interface Display Routing Command (DR).

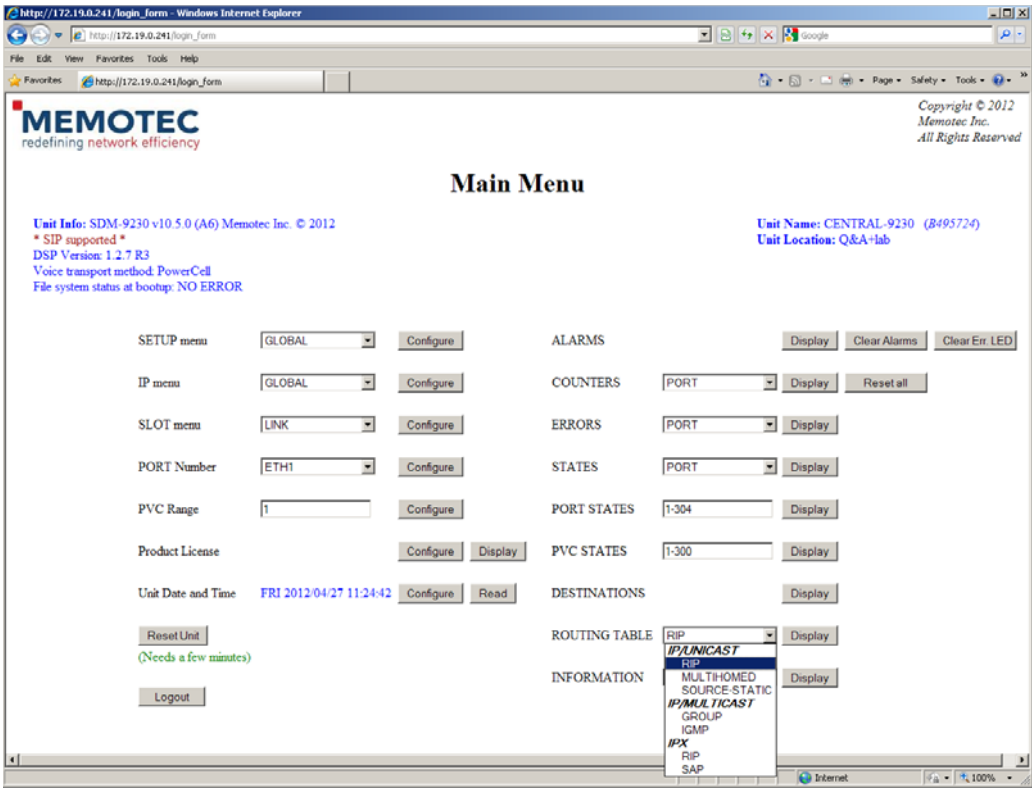

Figure 4-15: Routing Table drop-down list

Select the type of Routing Table Display that you want to see and click on the Display button to access that routing display page as illustrated in Figure 4-16, which uses the IP RIP routing table as an example.

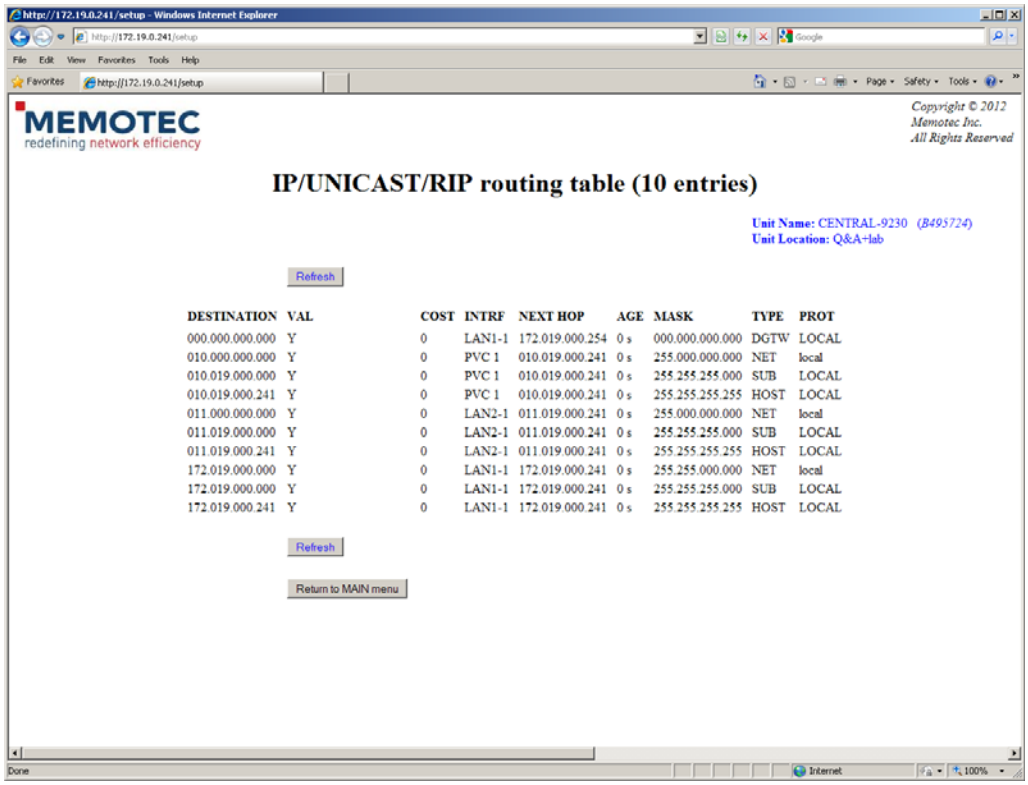

Figure 4-16: IP RIP routing table page

For more information on NetPerformer Display Routing options, see the *22-Diagnostics and Troubleshooting.pdf* System Reference manual available on the NetPerformer Companion CD.

4.9 Unit Information Display

The Information Display menu on the NetPerformer Main Menu Web page provides access to various information about the unit. The drop-down list (Figure 4-17) provides choices equivalent to the following console interface Display Commands:

- The Slot/DSP Display Information option provides the same information as the console Display Slot Information (DSI) command.
- The Product Display Information option provides the same information as the console Display Product Information (DPI/ALL) command.
- The Hardware Display Information option provides the same information as the console Display Hardware Information (DHI) command.

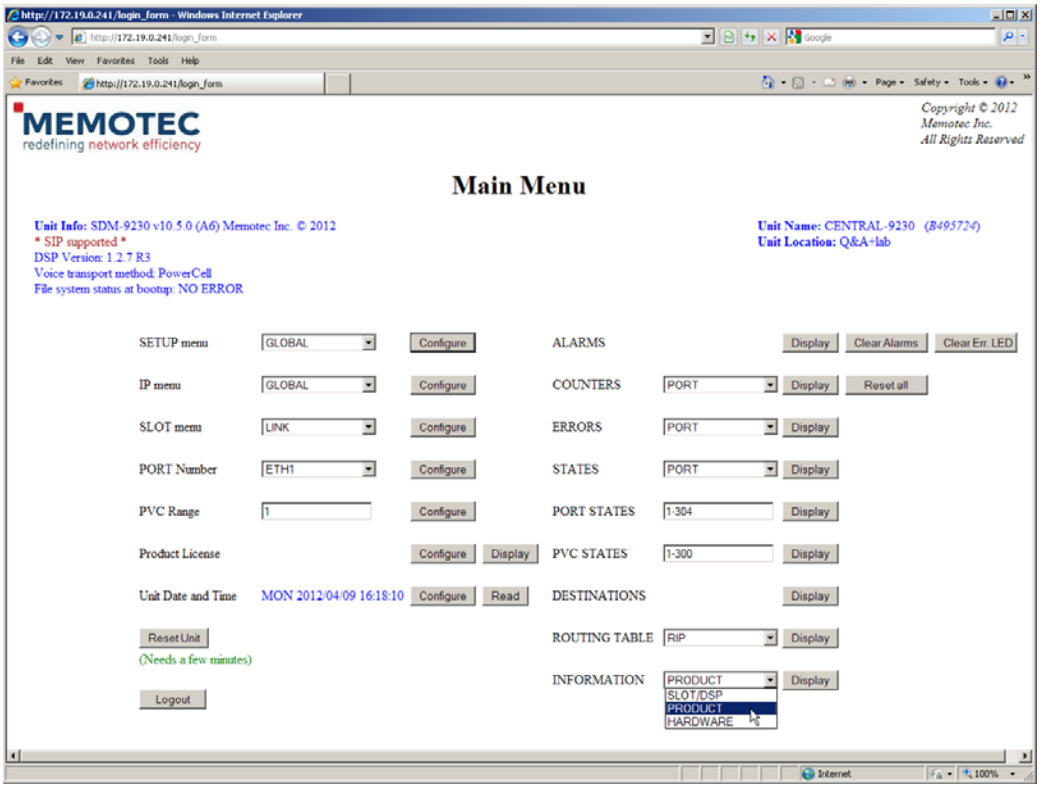

Figure 4-17: Unit Information Display menu

Select the type of Unit Information Display that you want to see and click on the Display button to access that information display page as illustrated in Figure 4-18, which uses the Product Information display as an example.

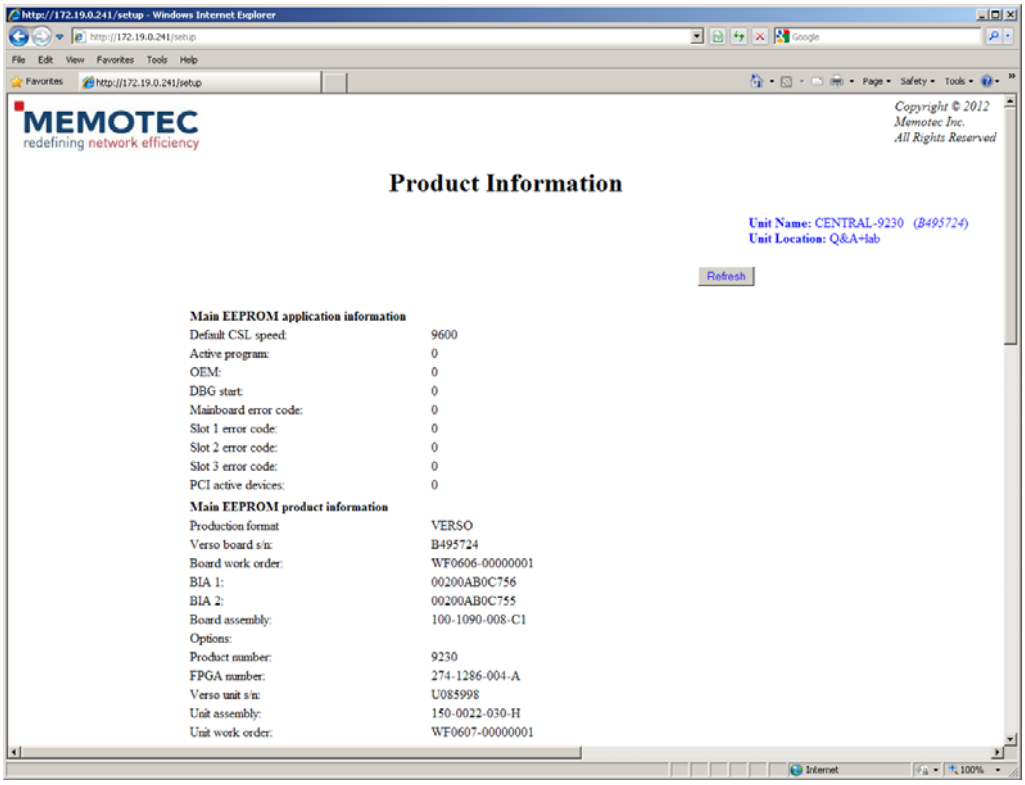

Figure 4-18: Product Information Display page

For more information on NetPerformer unit Information Display options, see the *22-Diagnostics and Troubleshooting.pdf* System Reference manual available on the NetPerformer Companion CD.

5

Other Items

This chapter includes the following:

- "Reset Unit" on page 5-6 (see next section)
- "Logout" on page 5-8.

5.1 File System

The File System menu option provides you with the ability to view as well as manage the unit file system containing the unit firmware as well as the configuration files. As illustrated in Figure 5-1, two options are available to manage the file system from the Web interface. Those are the File System Configure and the File System Display options.

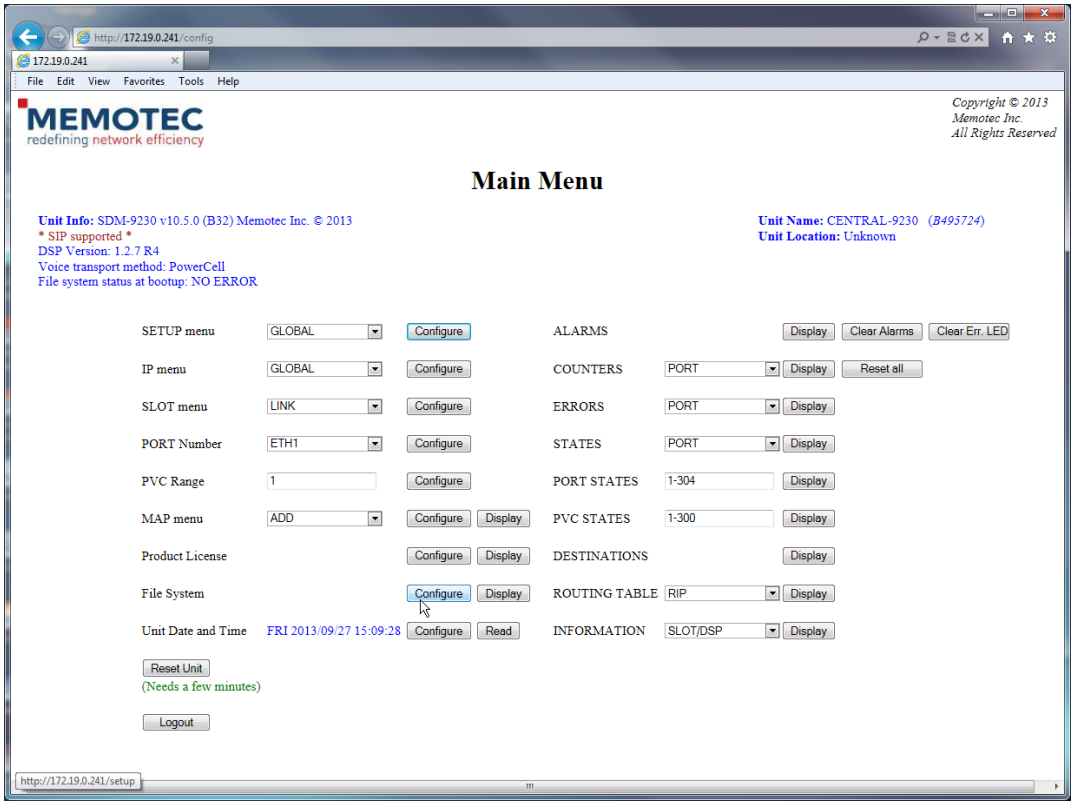

Figure 5-1: File System menu option

5.1.1 File System Management

The File System Configure menu option provides you with the ability to manage the unit file system by deleting, copying or renaming NetPerformer unit files as illustrated in Figure 5-2 as well as uploading new firmware, configuration or map files as illustrated on

Figure 5-1.

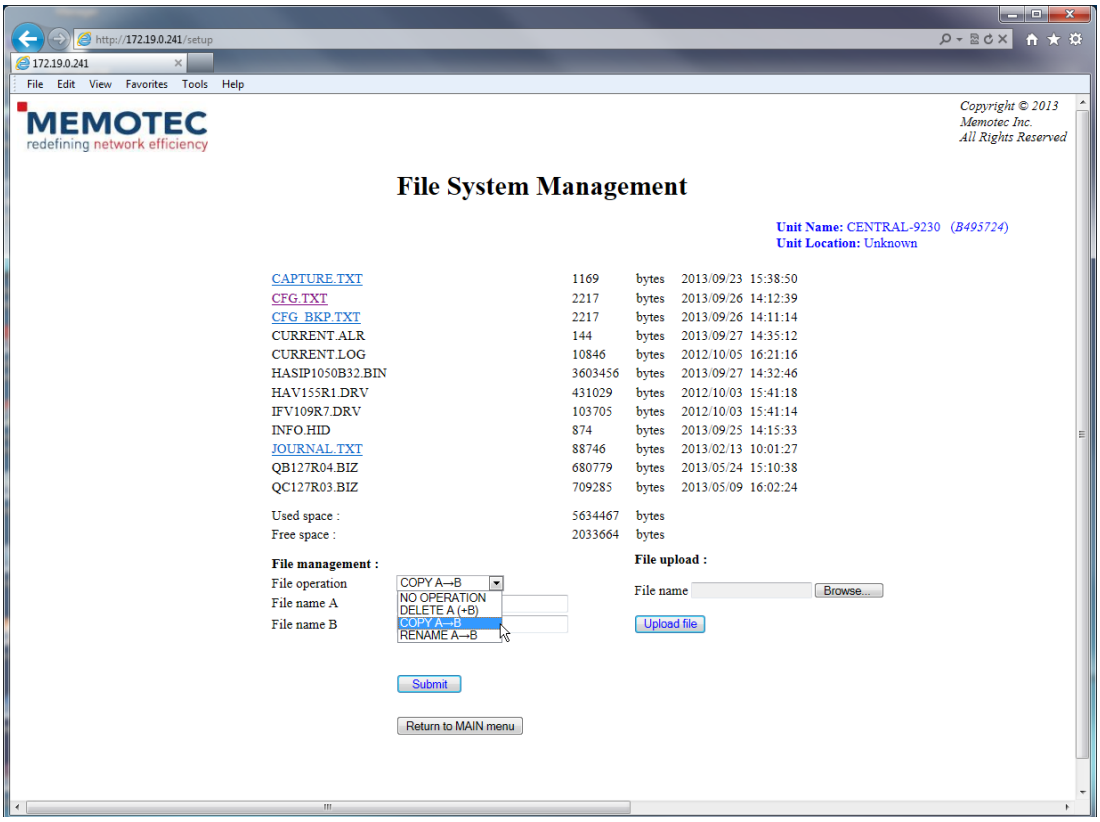

Figure 5-2: File System Operation options

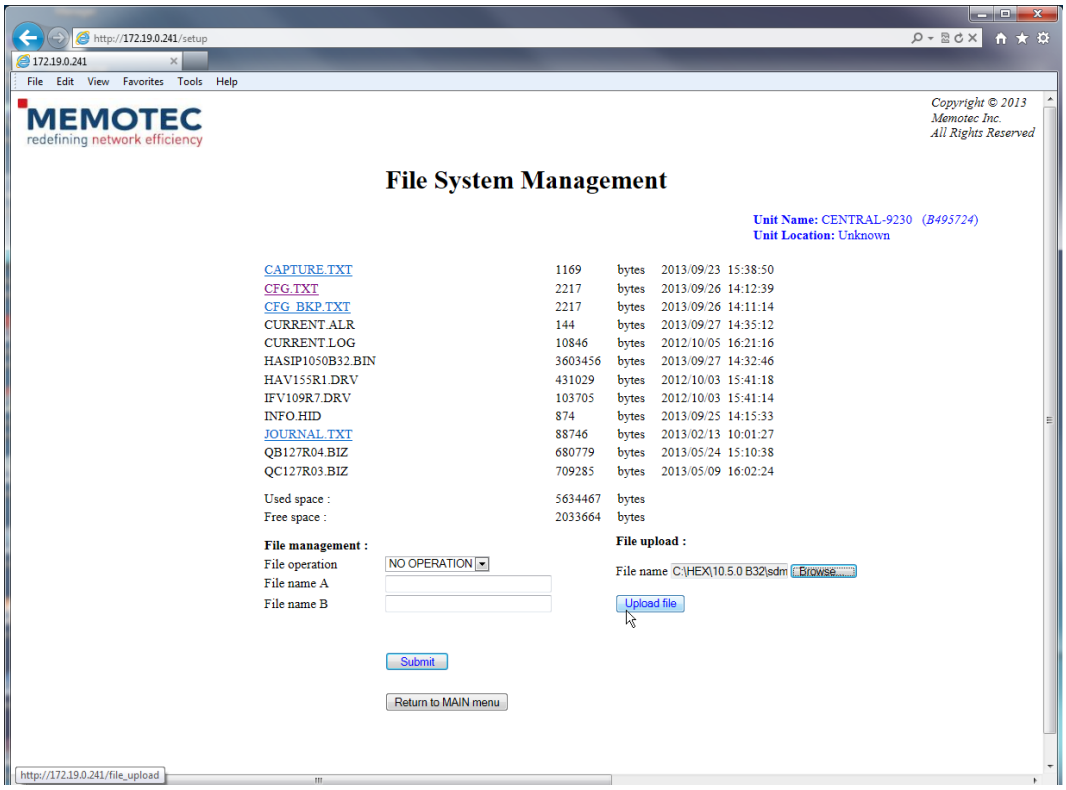

Figure 5-3: File System Upload options

5.1.2 File System Display

The File System Display menu option provides you with the ability to view the list of the files available on the file system as illustrated in Figure 5-4, as well as with the ability to open a text file (.txt) from the file system as illustrated in Figure 5-4 Note that once the text file is opened, it can be saved on your computer using the web browser **File->Save as** menu option.

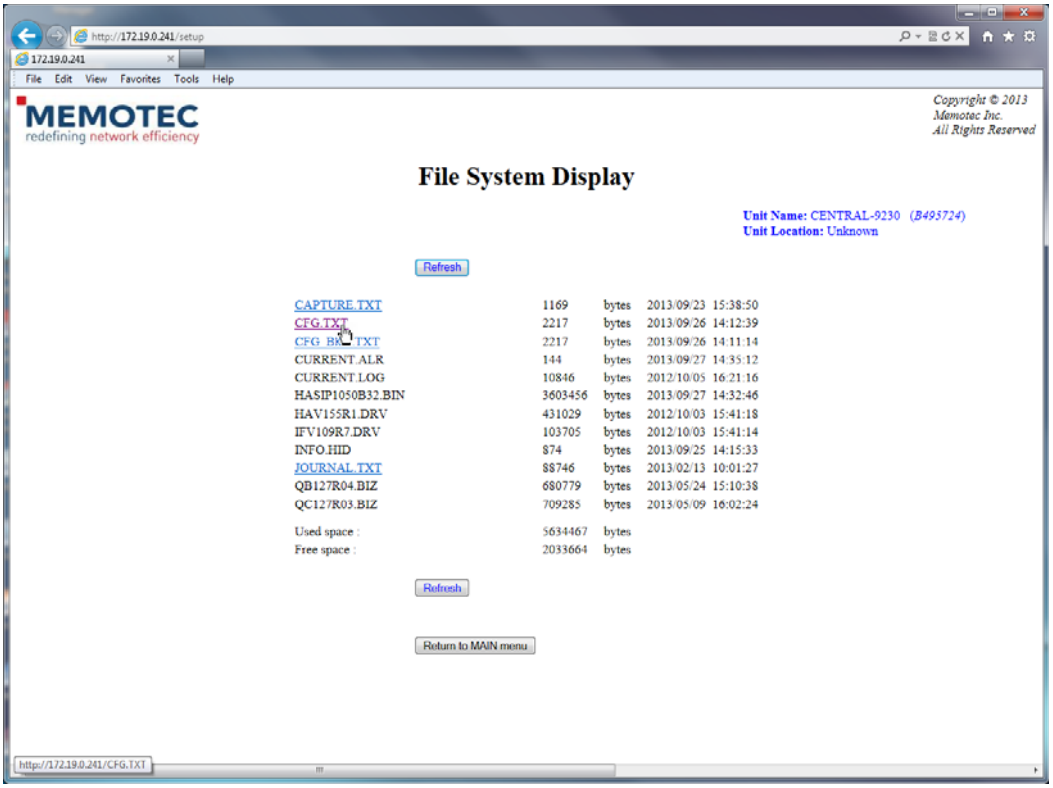

Figure 5-4: File System Display options

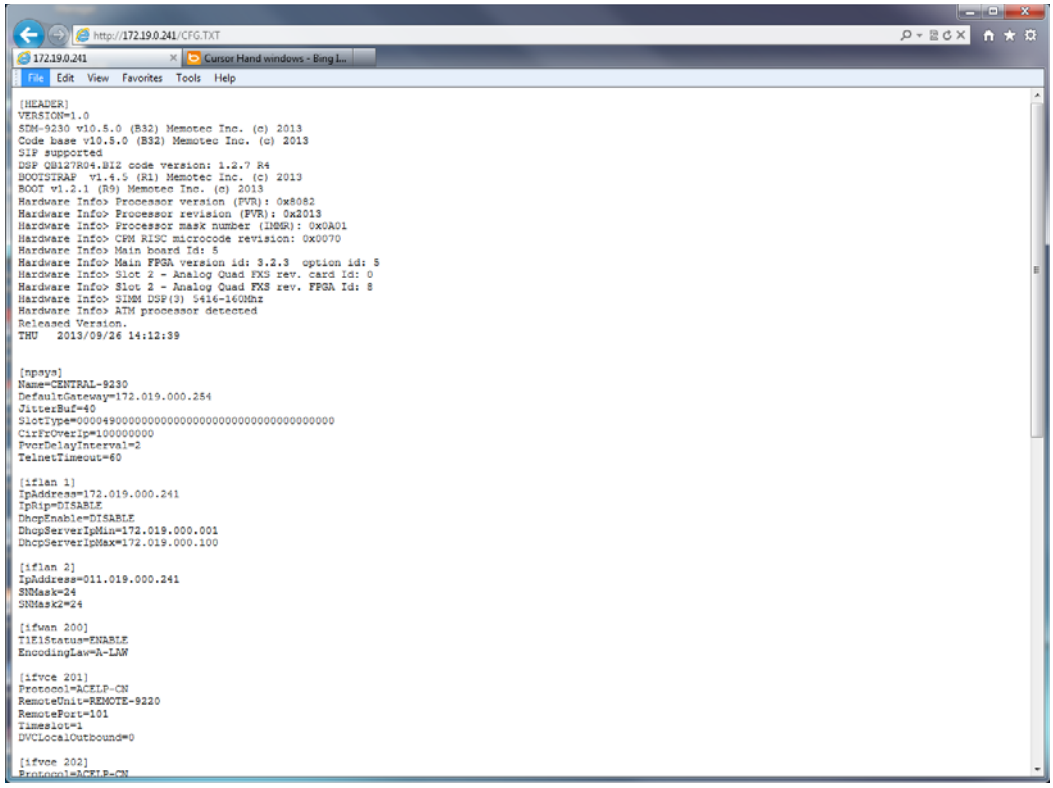

Figure 5-5: File System Open File option

For more information on the operation of the file system refer to the following System Reference manual available on the NetPerformer Companion CD:

- 22-Diagnostics and Troubleshooting.pdf

5.2 Reset Unit

The Reset Unit button, located at the lower left of the Main Menu Web page, resets the unit (Figure 5-6). The Reset Unit button provides the same function as the unit console interface Reset Unit (RU) command.

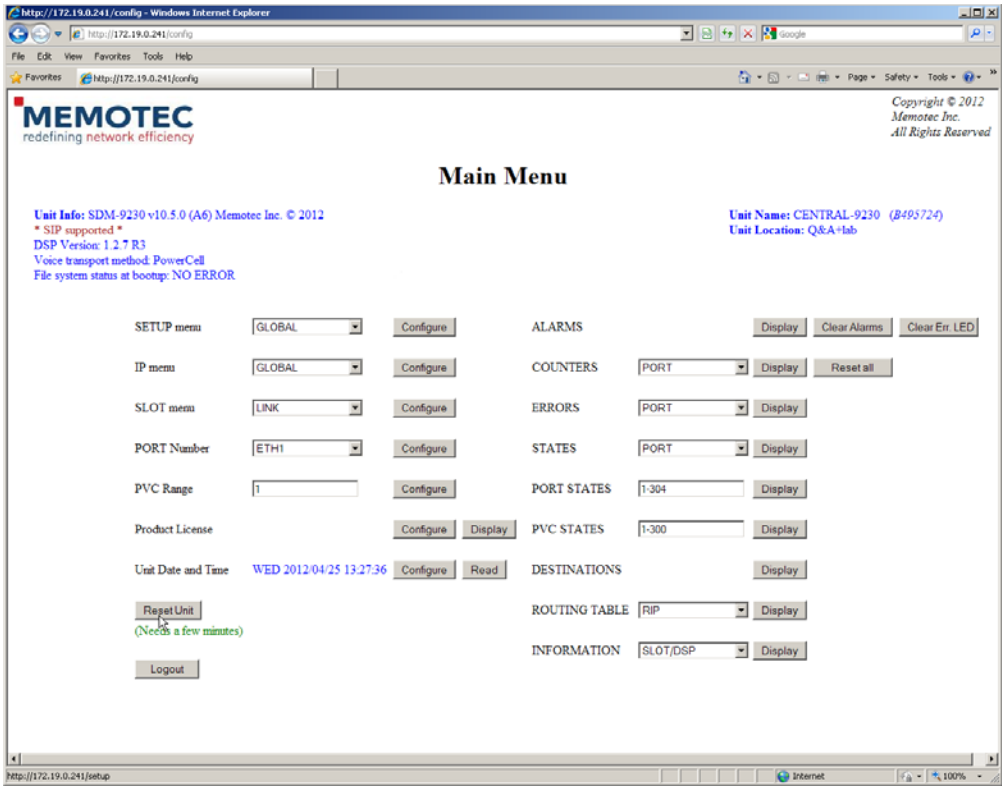

Figure 5-6: Reset Unit button

5.3 Logout

The Logout button, (Figure 5-7), located at the lower left of the Main Menu Web page, disconnects you from the unit Web server interface. The Logout button provides the same function as the unit console interface Quit Unit (QU) command.

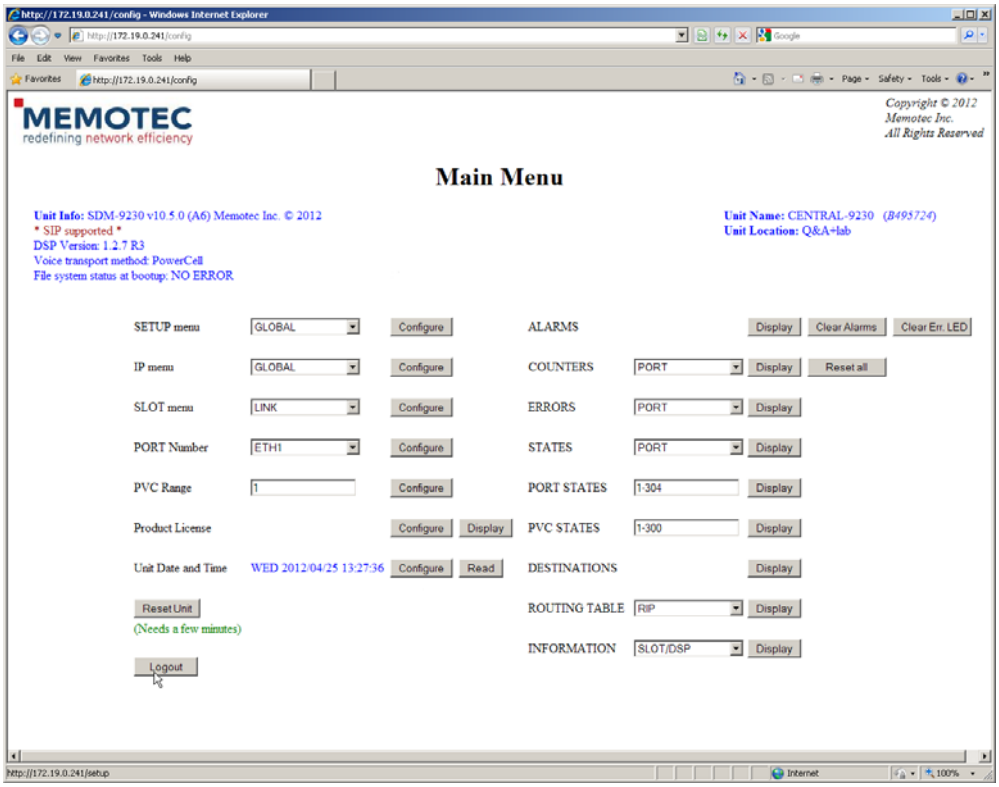

Figure 5-7: Logout button

6

SE/IP/HTTP Configuration Parameters

This chapter includes the following:

- "HTTP Mode" on page 6-2 (see next section)
- "Restricting HTTP Access" on page 6-2
- "HTTP Connection Timeout" on page 6-2.

NOTE: These parameters apply to the NetPerformer Web Server Interface; however, they are accessible only through the unit console command line interface (CLI).

6.1 HTTP Mode

Console	SNMP	Text-based Config
IP / HTTP / Mode	npsysHttpMode	[npsys] HttpMode

Enables or disables the NetPerformer unit Web Interface Server access from any IP address. When disabled, no access to the unit is possible and when enabled the Web Server Interface access is possible. In that case follow-up parameters are available to control which IP addresses can have web access to the unit via HTTP.

6.2 Restricting HTTP Access

Access to the NetPerformer Web Server Interface via an HTTP connection can be restricted to up to 5 IP addresses, or disabled altogether using the HTTP mode parameter as explained in the previous section (6.1).

Console	SNMP	Text-based Config
IP / HTTP / IP address 1 to 5	npsys IpHttp0 to IpHttp4	[npsys] IpHttp0 to IpHttp4

If HTTP access is enabled, and you leave all 5 authorized IP addresses at their default value, 000.000.000.000, the NetPerformer unit can be accessed from any IP device that supports web browsing.

6.3 HTTP Connection Timeout

Access to the Web Server Interface also includes an inactivity connection timeout parameter. This parameter is use to disconnect an established HTTP connection if the inactivity timeout has been reached. This parameter is configurable as follow:

Console	SNMP	Text-based Config
IP / HTTP / Connection timeout (min)	npsys HttpTimeout	[npsys] HttpTimeout

Values: 1 to 360 minutes

Default: 5

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