# Web Server Interface NetPerformer<sup>®</sup> System Reference



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Published Date: October 2013

Document # 1814

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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<sup>©</sup>
- Firefox<sup>©</sup>
- Chrome<sup>©</sup>.

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  $\operatorname{Explorer}^{\mathbb{O}}$ ).
- 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:

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🖕 Favorites 🛛 🏀 http://172.19.0.241/setup			🟠 • 🗟 • 🖃 🦷	👷 🕶 Page 🔹 Safety 👻 Tools 👻 🕡 👻
MEMOTEC redefining network efficiency				Copyright © 2012 Memotec Inc. All Rights Reserved
	Log into No	etPerformer	SDM-9230	
	Log Pas	in admin sword •••••		
		Sign In		
			Internel 😜 Internel	t 🦗 🕶 🔍 100% 👻 🦯

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:

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👷 Favorites 🛛 🄏 http://172.19	9.0.241/login_form				<u>a</u>	• 🗟 • 📑 🖶 • Page •	Safety = Tools = 🔞 = 🏾
MEMOT redefining network e	efficiency						Copyright © 2012 Memotec Inc. All Rights Reserved
			Main M	enu			
Unit Info: SDM-9230 * SIP supported * DSP Version: 1.2.7 R3 Voice transport methor File system status at bo	0 v10.5.0 (A6) Memot 3 d: PowerCell sotup: NO ERROR.	ec Inc. © 2012			Uni Uni	it Name: CENTRAL-9230 it Location: Q&A+lab	(8495724)
SI	ETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarm:	Clear Err. LED
IF	P menu	GLOBAL	Configure	COUNTERS	PORT	Display Reset all	
si	LOT menu	LINK	Configure	ERRORS	PORT	Display	
P	ORT Number	ETH1	Configure	STATES	PORT	Display	
p	VC Range	1	Configure	PORT STATES	1-304	Display	
Pi	roduct License		Configure Display	PVC STATES	1-300	Display	
U	init Date and Time	MON 2012/04/09 15:59	20 Configure Read	DESTINATIONS		Display	
	Reset Unit			ROUTING TABLE	RIP	Display	
۵ ا	Needs a few minutes)			INFORMATION	SLOT/DSP	Display	
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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:

PVC Range	1 I	
		Range: 1-300

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:

PORT Number

ETH1	z.
ETH1	N.
ETH2	
CSL	
1	

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:

PORT STATES 1-304 Display

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



# **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 *O3-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.

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MEMOTEC redefining network efficiency					Copyright © 2012 Memotec Inc. All Rights Reserved
		Main M	enu		
Unit Info: SDM-9230 v10.5.0 (A6) Mem * SIP supported * DSP Version 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR	otec Inc. © 2012			Unit Name: Cl Unit Location:	ENTRAL-9230 ( <i>B495724</i> ) Q&A+lab
SETUP menu	GLOBAL BRIDGE	Configure	ALARMS	Display	Clear Alarms Clear Err. LED
IP menu	CALLER ID CLASS ELOG	Configure	COUNTERS	PORT Display	Reset all
SLOT mem	GLOBAL HUNT	Configure	ERRORS	PORT Display	1
PORT Number	IPX PHONE PORT	Configure	STATES	PORT Display	
PVC Range	PU PPPOE PPPUSER	Configure	PORT STATES	1-304 Display	
Product License	REDUNDANCY SCHEDULE	Configure Display	PVC STATES	1-300 Display	
Unit Date and Time	USER	59:20 Configure Read	DESTINATIONS	Display	1
Reset Unit	1000		ROUTING TABLE	RIP Display	
(Needs a few minutes)	)		INFORMATION	SLOT/DSP   Display	1
Logout					
4					
				Inter	net 🖗 + 🔍 100% + 🖉

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.

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	Glob	al parameters		
			Unit Name: CENTRAL-93 Unit Location: Q&A+lab	230 ( <i>B495724</i> )
		Submit		
	Unit name	CENTRAL-9230		
	PowerCell version	V1 ·		
	Virtual networking over PowerCell	NO ·		
	Unit routing version	1 T		
	Unit routing CIR (bps)	64000 Current: 1. Range: 1-2. Default: 1. Step: 1		
	Contact name	Memotec Inc.		
	Unit location	Q&A+lab		
	Loopback	NO 💌		
	Link timeout delay	0		
	Transit delay (s)	4		
	Daylight saving time	NO 💌		
	Default IP address	000.000.000.000		
	Default IP mask (number of bits)	8		
	Default gateway	172.019.000.254		
	SNMP trap: IP address 1	172.018.000.009		
	SNMP trap: IP address 2	000.000.000.000		
	SNMP trap: IP address 3	000.000.000.000		
	SNMP trap: IP address 4	000.000.000		
	Frame relay status change trap	DISABLE -		
	Monitor the fans	NO 💌		
	T I STREET II			

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 *O4-Quick Configuration.pdf* System Reference Manual available on the NetPerformer Companion CD.

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	Frame relay state	is change trap	DISABLE -				
	Monitor the fans		NO 💌				
	Local unit DLCI	address	0				
	Extension number	r (no. of digits)	3 💌				
	Tone settings		NORTH AMERICA				
	Jitter buffer (ms)		40				
	Enable voice/fax	log	YES ·				
	Dial timer (s)		4				
	High priority void	e class	YES ·				
	Global CIR for F	R over IP	10000000				
	Timer in ms for F	R over IP	50				
	Max number of v	oice channels over IP	10000				
	Max voice chann	els over IP if high priority data	10000				
	Delay generated	by a comma (ms)	250				
	ISDN G4 Fax P	CM switching enable	NO 💌				
	Auto save config	aration delay (s)	10				
	Enable VTR (Vo	ice Traffic Routing)	NO 💌				
	Enable Domain I	Dialing	YES -				
	Enable hunt forw	arding	YES -				
	Enable user acce	ss logging	NO 💌				
	Exclusive access	to console	DISABLE 💌				
	Voice call rerout	ng					
	Voice transport r	nethod	POWERCE Current: DISABLE. Del	out: DISABLE eeds reset unit			
	Digital port clock	source	INTERNAL 💌				
	Erase ELOG or	performance parms after get FTP	NO 💌				
			Submit				
			Return to MAIN menu				

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).

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MEMOTEC redefining network efficiency						Copyright © 2012 Memotec Inc. All Rights Reserved
		Main M	enu			
Unit Info: SDM-9230 v10.5.0 (A6) N * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERRC	Iemotec Inc. © 2012 DR			Ui Ui	nit Name: CENTRAL-923 nit Location: Q&A+lab	0 ( <i>B495724</i> )
SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarm	Clear Err. LED
IP menu	GLOBAL BOOTP	Configure	COUNTERS	PORT	Display Reset all	
SLOT menu	DNS FTP GLOBAL	Configure	ERRORS	PORT	Display	
PORT Number	OSPF RADIUS	Configure	STATES	PORT	Display	
PVC Range	SOURCE-STATIC STATIC	Configure	PORT STATES	1-304	Display	
Product License	TIMEP	Configure Display	PVC STATES	1-300	Display	
Unit Date and Tim	MON 2012/04/09 16:17:32	Configure Read	DESTINATIONS		Display	
Reset Unit	ttec)		ROUTING TABLE	RIP	Display	
(avecus a rew man	acs)		INFORMATION	SLOT/DSP	- Display	
Logout						
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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.

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MEMOTEC redefining network efficiency			Copyright © 2012 – Memotec Inc. All Rights Reserved
	IP Global para	ameters	
		Unit Name: CENTRAL Unit Location: Q&A+k	-9230 ( <i>B495724</i> ) b
		Submit	
	Router	ENABLE -	
	Multihomed type	DISABLER	
	Route broadcast to end station	NO Current: DISABLED. Default: STANDARD	
	OSPF AS boundary router	NO •	
	RIP AS boundary router	NO -	
	Allow LAN-to-LAN IP routing	NO -	
	Port number for the transparent protocols	1025	
	Multicast membership address 1	000.000.000.000	
	Multicast membership address 2	000.000.000.000	
	Multicast membership address 3	000.000.000.000	
	Multicast membership address 4	000.000.000.000	
	Multicast membership address 5	000.000.000.000	
	Multicast membership address 6	000.000.000.000	
	Multicast membership address 7	000.000.000.000	
	Multicast membership address 8	000.000.000.000	
	Multicast membership address 9	000.000.000.000	
	Multicast membership address 10	000.000.000.000	
		Submit	
-1			
			• • • • • • • • • • • • • • • • • • •

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 dropdown list (see Figure 3-6) provides the same selections as via the unit console interface Setup Slot Command (SE/SLOT).

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MEMOTEC redefining network efficiency						Copyright © 2012 Memotec Inc. All Rights Reserved
		Main M	enu			
Unit Info: SDM-9230 v10.5.0 (A * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCel File system status at bootup: NO E	(6) Memotec Inc. © 2012 ∎ RROR			Unit Unit	Name: CENTRAL-9230 Location: Q&A+lab	(B495724)
SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarms	Clear Err. LED
IP menu	GLOBAL	Configure	COUNTERS	PORT	Display Reset all	
SLOT menu	LINK SLOT 1/PORT 1	Configure	ERRORS	PORT	Display	
PORT Numb	er CHANNEL SLOT 1/PORT 2	Configure	STATES	PORT	Display	
PVC Range	CHANNEL SLOT 2/ PORT 1	Configure	PORT STATES	1-304	Display	
Product Licer	ase CHANNEL SLOT 2/PORT 2	Configure Display	PVC STATES	1-300	Display	
Unit Date and	Time CHANNEL SLOT 3 LINK	18:10 Configure Read	DESTINATIONS		Display	
Reset Unit	(CHANNEL	]	ROUTING TABLE	RIP	Display	
Logout			INFORMATION	SLOT/DSP	Display	
<b>.</b>						>
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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

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MEMOTEC					Copyright © 2011 Memotec Inc. All Rights Reserve
	N N	Voice port 101-131 p	parameters		
				Unit Name: CENTRAL-9230 Unit Location: Q&A+lab	(B495724)
		Submit	Next→		
	Protocol Timeslot	ACELP-CN	← Won't be applied to all range		
	DSP packets per frame 8K packetization selection DSP packets per frame	n (Y/N) Y V N V N V			
	6K packetization selection Comfort noise level	n (Y/N) N ¥ N ¥ N ¥ N ¥ N ¥	-		
	Signaling type Hoot & Holler application				
	Local inbound voice level Local outbound voice level	el (db) NO PES Current: YES. Default: NO Current: YES. Default: NO			
	Priority Level Echo canceller				
	Echo suppressor	ENABLE			
	Link down busy	NO			
	TONE type: TONE regeneration:	DTMF			
	TONE ON (ms) TONE OFF (ms)	100			
	Pulse make/break ratio Fax relay	34 FAX			

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-92XO 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).

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redefining netwo	DTEC rk efficiency						Memotec Inc. All Rights Reserved
			Main M	lenu			
Unit Info: SDM- * SIP supported * DSP Version: 1.2. Voice transport m	9230 v10.5.0 (A6) Memo 7 R3 ethod: PowerCell	stec Inc. © 2012			Unit Na Unit Lo	me: CENTRAL-9230 cation: Q&A+lab	(B495724)
File system status	at bootup: NO ERROR						
	SETUP menu	GLOBAL	Configure	ALARMS	D	splay Clear Alarms	Clear Err. LED
	IP menu	GLOBAL	Configure	COUNTERS	PORT D	splay Reset all	
	SLOT menu	LINK	Configure	ERRORS	PORT D	splay	
	PORT Number	ETH1	Configure	STATES	PORT D	splay	
	PVC Range	CSL 1	Configure	PORT STATES	1-304 D	splay	
	Product License		Configure Display	PVC STATES	1-300 D	splay	
	Unit Date and Time	MON 2012/04/09 16:18	10 Configure Read	DESTINATIONS	D	splay	
	Reset Unit (Needs a few minutes)			ROUTING TABLE	RIP D	splay	
	Logout			INFORMATION	SLOT/DSP D	splay	
<u>دا</u>							

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).

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			Main M	enu			
Unit Info: SDN * SIP supported DSP Version: 1. Voice transport File system statu	I-9230 v10.5.0 (A6) Memo 2.7 R3 method: PowerCell s at bootup: NO ERROR	stec Inc. © 2012			Un Un	iit Name: CENTRAL-9230 iit Location: Q&A+lab	(B495724)
	SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarms	Clear Err. LED
	IP menu	GLOBAL	Configure	COUNTERS	PORT	Display Reset all	
	SLOT menu	LINK	Configure	ERRORS	PORT	Display	
	PORT Number	ETH1	Configure	STATES	PORT	Display	
	PVC Range	1 evange: 1-300	Configure	PORT STATES	1-304	Display	
	Product License		Configure Display	PVC STATES	1-300	Display	
	Unit Date and Time	MON 2012/04/09 16:18:10	Configure Read	DESTINATIONS		Display	
	Reset Unit			ROUTING TABLE	RIP	Display	
	Logout			INFORMATION	SLOT/DSP	Display	
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Figure 3-12: PVC Range edit field

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

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	<b>PVC 1 parameters</b>		
		Unit Name: CENTRAL-923 Unit Location: Q&A+lab	0 ( <i>B495724</i> )
	Submit	Next-	
Mode	PVCR .		
Port	0 -		
DLCI address	100		
Committed Information rate	4096000		
Remote unit name	REMOTE-9230		
Link quality active	NO .		
Туре	DEDICATED .		
Timeout (ms)	1000		
Send keepalive packets	YES ·		
Hello delay (ms)	1000		
Link down delay (ms)	8000		
Number of retransmission retries	100		
Payload compression	YES •		
IP address	010.019.000.241		_
Subnet mask (number of bits)	24		
NAT enable	NO -		
BRG connection	NO ·		
Filter	ALL		
Maximum number of voice channels	10000		
Maximum Voice Channels If High Priority Data	10000		
Frame over IP, source	011.019.000.241		
Frame over IP, destination	011.019.000.242 Current: 011.019.000.241.		*
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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
- 20-ATM Option.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).

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Main Menu	
Unit Info: SDM-9230 v10 5.0 (A6) Memotec Inc. © 2012 * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR	Unit Name: CENTRAL-9230 (B495724) Unit Location: Q&A+lab
SETUP menu GLOBAL Configure ALARMS	Display Clear Alarms Clear Err. LED
IP menu GLOBAL Configure COUNTER	S PORT Display Reset all
SLOT menu LINK Configure ERRORS	PORT <u>Display</u>
PORT Number ETH1 Configure STATES	PORT Display
PVC Range 1 Configure PORT STA	TES 1-304 Display
Product License Configure Display PVC STAT	ES 1-300 Display
Unit Date and Time WED 2012/04/25 13:27:36 Configure Read DESTINAT	TIONS Display
Reset Unit ROUTING	TABLE RIP Display
Logout INFORMA	TION SLOT/DSP Display
4	

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 *O2-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).

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		Main M	lenu			
Unit Info: SDM-9230 v10.5.0 (A6) Memo * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR	tec Inc. © 2012				Unit Name: CENTRAL-9230 Unit Location: Q&A+lab	(B495724)
SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarms	Clear Err. LED
IP menu	GLOBAL	Configure	COUNTERS	PORT	Display Reset all	
SLOT menu	LINK	Configure	ERRORS	PORT	Display	
PORT Number	ETH1 💌	Configure	STATES	PORT	Display	
PVC Range	1	Configure	PORT STATES	1-304	Display	
Product License		Configure Display	PVC STATES	1-300	Display	
Unit Date and Time	WED 2012/04/25 13:27:36	Configure Read	DESTINATIONS		Display	
Reset Unit			ROUTING TABLE	RIP	Display	
Logout			INFORMATION	SLOT/DSP	Display	
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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 *O4-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.

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		Main M	enu		
Unit Info: SDM.9230 v10.5.0 (A6) Mem * SIP supported * DSP Version, 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR	otec Inc. © 2012			Unit Name: Ci Unit Location:	NTRAL-9230 (8495724) Q&A+lab
SETUP menu	GLOBAL T	Configure	ALARMS	Display	Clear Alarms Clear Err. LED
IP menu	CALLER ID CLASS ELOG	Configure	COUNTERS	PORT Display	Reset all
SLOT menu		Configure	ERRORS	PORT Display	
PORT Number	IPX PHONE PORT	Configure	STATES	PORT Display	
PVC Range	PU PPPOE PPPUSER	Configure	PORT STATES	1-304 Display	
Product License	PVC REDUNDANCY SCHEDULE	Configure Display	PVC STATES	1-300 Display	
Unit Date and Time	SLOT SS7 USER	59:20 Configure Read	DESTINATIONS	Display	
Reset Unit			ROUTING TABLE	RIP Display	
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Figure 4-1: Alarms options (right side)

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	Alarm Displa	y
		Unit Name: CENTRAL-9230 (B495724) Unit Location: Q&A+lab
		Refresh
Time> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi> Almmi>	THU 2012:04           TELNET TIMEOUT (010.011.015.102)         WED 2012:04           PVC I UP (REMOTE-9230)         WED 2012:04           LINK 150 IN SYNC         WED 2012:04           LINK 150 IN SYNC         WED 2012:04           CLK SRC SWITCHED TO INTERNAL WED 2012:04         SOFT START (RST)           VED 2012:04         TELNET TIMEOUT (010.011.015.102)           LINK 150 IN SYNC         MON 2012:00           LINK 100 IN SYNC         MON 2012:00           LINK 100 IN SYNC         MON 2012:00           LINK 100 OUT OF SYNC         MON 2012:00           LINK 250 OUT OF SYNC         MON 2012:00           LINK 100 OUT OF SYNC         MON 2012:00           LINK 100 OUT OF SYNC         MON 2012:00           LINK 200 OUT OF SYNC         MON 2012:00           LINK 100 OUT OF SYNC         MON 2012:00	26 142653 25 145105 25 135914 25 135904 25 135904 25 135904 25 135904 25 135902 25 135826 25 132452 (16 121013 (16 121013 (16 121013 (16 1151348 (16 1151348
Aarma Alarma Alarma	LINK 150 OUT OF SYNC - MON 20120- TELNET TIMEOUT (010.011.015.102) WED 2012:04 ALARMS CLEARED - MON 2012:04	10 11:1942 109 15:58:50 Retrest Return to MAIN menu
*		

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.

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Unit Info: SDM-9230 * SIP supported * DSP Version: 1.2.7 R3 Voice transport method File system status at boo	v10.5.0 (A6) Memot E PowerCell otup: NO ERROR	tec Inc. © 2012					Unit Name: CE Unit Location:	NTRAL-9230 Q&A+lab	(B495724)	
SE	STUP menu	GLOBAL 💌	Configure		ALARMS		Display	Clear Alarms	Clear Err. LED	
IP	menu	GLOBAL	Configure		COUNTERS	PORT BOOTP	Display	Resetall	]	
SL	.OT menu	LINK	Configure		ERRORS	CHANNEL CONFIG	Display			
PC	ORT Number	ETH1 •	Configure		STATES	GROUP IP NAT	Display			
PV	VC Range	1	Configure		PORT STATES	PORT PVC Q922	Display			
Pro	oduct License		Configure	Display	PVC STATES	Q933 QOS REDUNDANCY	Display			
Un	nit Date and Time	MON 2012/04/09 16:1	8:10 Configure	Read	DESTINATIONS	SLOT SNMP TIMEP	Display			
F	Reset Unit				ROUTING TABLE	RIP	Display			
	Logout				INFORMATION	PRODUCT	Display			
Contains commands for working with	the selected items.								- 100% -	10

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.

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MEMOTEC redefining network efficiency				Copyright © 2012 Memotec Inc. All Rights Reserved
	Port Cour	ters Display		
			Unit Name: CENTRAL-923 Unit Location: Q&A+lab	0 ( <i>B495724</i> )
		Refresh		
	Last counter reset : WED 2012/04/25 1	3:59:02		
	MEAN			
	Payload compression rate	1.00 (M)		
	Payload decompression rate	1.00 (M)		
	PORT ETH 1> Transmitter rate	1 kbps (M)		
	PORT ETH 1> Receiver rate	1 kbps (M)		
	PORT ETH 2> Transmitter rate	0 kbps (M)		
	PORT ETH 2> Receiver rate	0 kbps (M)		
	PORT CSL> Transmitter rate	0 % (M)		
	PORT CSL> Receiver rate	0 % (M)		
	PEAK			
	Payload compression rate	1.00 (P)		
	Payload decompression rate	1.00 (P)		
	PORT ETH 1> Transmitter rate	24 kbps (P)		
	PORT ETH 1> Receiver rate	3 kbps (P)		
	PORT ETH 2> Transmitter rate	0 kbps (P)		
	PORT ETH 2> Receiver rate	0 kbps (P)		
	PORT CSL> President rate	0 % (P)		
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		Refresh		
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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).

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		Main M	enu			
Unit Info: SDM-9230 v10.5.0 (A6) Meme * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR	otec Inc. © 2012			Un Un	it Name: CENTRAL-923 it Location: Q&A+lab	0 (B495724)
SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarn	Clear Err. LED
IP menu	GLOBAL	Configure	COUNTERS	PORT	Display Reset all	-
SLOT menu	LINK	Configure	ERRORS	PORT _	Display	
PORT Number	ETH1 •	Configure	STATES	CHANNEL DICT GROUP	Display	
PVC Range	1	Configure	PORT STATES	PORT PVC VS	Display	
Product License		Configure Display	PVC STATES	REDUNDANCY SLOT	Display	
Unit Date and Time	MON 2012/04/09 16:18:10	Configure Read	DESTINATIONS	Thing:	Display	
Reset Unit (Needs a few minutes)			ROUTING TABLE	RIP	Display	
Logout			INFORMATION	PRODUCT	Display	
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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.

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MEMOTEC redefining network efficiency				Copyright © 2012 Memotec Inc. All Rights Reserved
	PORT Errors	Display		
			Unit Name: CENTRAL-9230 Unit Location: Q&A+lab	(B495724)
		Refresh		
	PORT ETH 1> Number of excessive collisions	0		
	PORT ETH 1> Number of late TX collision errors	0		
	PORT ETH 1> Number of underruns	0		
	PORT ETH 1> Number of late RX collision errors	0		
	PORT ETH 1> Number of overruns	0		
	PORT ETH 1> Number of busy conditions	0		
	PORT ETH 1> Number of FCS errors	0		
	PORT ETH 1> Number of alignment errors	0		
	PORT ETH 1> Number of carrier sense errors	0		
	PORT ETH 1> Number of bad frames	0		
	PORT ETH 1> Number of retries	0		
	PORT ETH 1> Number of restarts	2		
	PORT ETH 2> Number of excessive collisions	0		
	PORT ETH 2> Number of late TX collision errors	0		
	PORT ETH 2> Number of underruns	0		
	PORT ETH 2> Number of late RX collision errors	0		
	PORT ETH 2> Number of overruns	0		
	PORT ETH 2> Number of busy conditions	0		
	PORT ETH 2> Number of FCS errors	0		
	PORT ETH 2> Number of alignment errors	0		
	PORT ETH 2> Number of carrier sense errors	3		
	PORT ETH 2> Number of bad frames	0		
	PORT ETH 2> Number of retries	0		
	PORT ETH 2> Number of restarts	2		
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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).

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		Main M	enu			
Unit Info: SDM-9230 v10.5.0 (A6) Mer * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR	notec Inc. © 2012			Unit Unit	t Name: CENTRAL-923 I Location: Q&A+lab	0 ( <i>B495724</i> )
SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarm	Clear Err. LED
IP menu	GLOBAL	Configure	COUNTERS	PORT	Display Reset all	
SLOT menu	LINK	Configure	ERRORS	PORT	Display	
PORT Number	ETH1	Configure	STATES	DHCPSRV	Display	
PVC Range	1	Configure	PORT STATES	GLOBAL PORT REDUNDANCY	Display	
Product License		Configure Display	PVC STATES	1-300	Display	
Unit Date and Time	MON 2012/04/09 16:18:10	Configure Read	DESTINATIONS		Display	
Reset Unit (Needs a few minute	s)		ROUTING TABLE	RIP	Display	
Logout			INFORMATION	PRODUCT	Display	
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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.

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	Port Stat	es Display					
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		I	Refresh				
	PORT ETH 1> Protocol PORT ETH 1> Interface PORT ETH 1> Speed PORT ETH 1> Speed PORT ETH 1> Coperating mode PORT ETH 1> State PORT ETH 1> State PORT ETH 1> Network address PORT ETH 1> Number of deferred transmissions PORT ETH 1> Number of collision frames PORT ETH 1> Number of collision frames PORT ETH 1> Number of collision frames PORT ETH 1> Speed PORT ETH 2> Interface PORT ETH 2> Speed PORT ETH 2> Speed PORT ETH 2> Speed PORT ETH 2> Coperating mode PORT ETH 2> State PORT ETH 2> Retwork address PORT ETH 2> Retwork address PORT ETH 2> Retwork address PORT ETH 2> Rotwork address PORT ETH 2> Number of deferred transmissions PORT ETH 2> Number of deferred transmissions PORT ETH 2> Number of deferred transmissions PORT ETH 2> Number of deferred transmissions	ETHERNET 10BASET 100M FULL L- OPEN 00200AB0C756 00005E000000 (mactive) 00200AB0C756 0 0 ETHERNET 100M FULL L- OPEN 00005E000000 (mactive) 00200AB0C755 0 00005E000000 (mactive) 00200AB0C755 0 0 0 CSL					-
	PORT CSL> Interface	DTE-UNDEFINED					
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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.

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MEMOTEC redefining network efficiency					Copyright © 2012 Memotec Inc. All Rights Reserved
		Main M	Ienu		
Unit Info: SDM-9230 v10.5.0 (A6) Mem * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR	aotec Inc. © 2012			Unit Name: CENTRAL-923 Unit Location: Q&A-lab	0 (B495724)
SETUP menu	GLOBAL	Configure	ALARMS	Display Clear Alarm	Clear Err. LED
IP menu	GLOBAL	Configure	COUNTERS	PORT Display Reset all	
SLOT menu	LINK	Configure	ERRORS	PORT Display	
PORT Number	ETH1 ·	Configure	STATES	PORT Display	
PVC Range	1	Configure	PORT STATES	1-304 Display	
Product License		Configure Display	PVC STATES	1-300 Display	
Unit Date and Time	THU 2012/04/26 15:55:02	Configure Read	DESTINATIONS	Display	
Reset Unit	)		ROUTING TABLE	RIP Display	
Logout	*		INFORMATION	SLOT/DSP Display	
<u>دا</u>					
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Figure 4-9: Port States edit field

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

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MEMOTEC redefining network efficiency								Copyright © 2012 Memotec Inc. All Rights Reserved
		Р	ort 1-304 Sta	tes Display	y			
						Unit N Unit L	ame: CENTRAL-9230 ocation: Q&A+lab	(B495724)
			Refres	<b>N</b>				
	PORT#	PROTOCOL	INTER	ACE SPEE (bps)	D MODEN SIGNAL	A STATE I .S	DELAY	
	101	ACELP-CN	E1-NT	NOE	SP	IDLE		
	151	ACELP-CN	E1-TE	NO E	SP	IDLE		
	301	ACELP-CN	ANALO	G FXS NO D	SP	IDLE		
	Modem sign	als: d(S)r d(T)r (D)cd (	(R)ts (C)ts r(I) (-)off					
			Refes	. 1				
			Return	to MAIN menu				
21								
Data -							C lebernat	

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.

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Pavorites Chttp://172.19.0.241/config				🛐 * 🖸 - 🗂 👾 * Page +	Safety + Tools + 🚷 + "
MEMOTEC redefining network efficiency					Copyright © 2012 Memotec Inc. All Rights Reserved
		Main N	Ienu		
Unit Info: SDM-9230 v10.5.0 (A6) N * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERR(	Memotec Inc. © 2012 OR			Unit Name: CENTRAL-9230 Unit Location: Q&A+lab	(8495724)
SETUP menu	GLOBAL 💌	Configure	ALARMS	Display Clear Alarms	Clear Err. LED
IP menu	GLOBAL	Configure	COUNTERS	PORT Display Reset all	
SLOT menu	LINK	Configure	ERRORS	PORT Display	
PORT Number	ETH1	Configure	STATES	PORT Display	
PVC Range	1	Configure	PORT STATES	1-304 Display	
Product License		Configure Display	PVC STATES	1-300 Display	
Unit Date and Tin	ae FRI 2012/04/27 10:45:28	Configure Read	DESTINATIONS	Display	
Reset Unit (Needs a few min	utes)		ROUTING TABLE	RIP Display	
Logout			INFORMATION	SLOT/DSP Display	
Done				internet	Fa - 100% -

#### 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).

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MEMOT redefining network ef	EC								Copyright © 2012 Memotec Inc. All Rights Reserved
		PV	C/SVC 1-30	0 States	s Disp	olay			
							Unit Na Unit Loc	me: CENTRAL-9230 cation: Q&A+lab	(B495724)
		Refresh							
	PVC	MODE	INFO. SIGNALS	SPEED (bps)	PORT	DLCI	DESTINATION NAME	STATE & DELAYS (ms)	
	I Information simple:	NETwork/USEP	ODarr (A) ativa (C)	4096 k	PVCoIP	100	REMOTE-9230	DATA 1/ms	
		Return to MAIN menu							
٠(									<u>)</u>
Done								Internet	🐼 - 🔍 100% - 🖉

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.

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MEMOTEC redefining network efficiency						Copyright © 2012 Memotec Inc. All Rights Reserved
		Main M	[enu			
Unit Info: SDM-9230 v10.5.0 (A6) Memo * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR	tec Inc. © 2012			Un Un	it Name: CENTRAL-9230 it Location: Q&A+lab	(B495724)
SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarm	s Clear Err. LED
IP menu	GLOBAL	Configure	COUNTERS	PORT	Display Reset all	
SLOT menu	LINK	Configure	ERRORS	PORT	Display	
PORT Number	ETH1 -	Configure	STATES	PORT	Display	
PVC Range	1	Configure	PORT STATES	1-304	Display	
Product License		Configure Display	PVC STATES	1-300	Display	
Unit Date and Time	WED 2012/04/25 13:27:36	Configure Read	DESTINATIONS		Display	
Reset Unit			ROUTING TABLE	RIP	Display	
Logout			INFORMATION	SLOT/DSP	Display	
*   http://172.19.0.241/setup					Internet	. ★ 100% •

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).

Image: Second and Secon	
Per Edit Veen Pavortes Took Help	P -
Copyright ©         Memotec Inc.         All Right Re         Main Menu         Unit Info: SDM-9230 v10.5.0 (A6) Memotec Inc. © 2012         * SIP supported *         DSP Version: 1.2.7 R3         Voice transport method. PowerCell         File system status at bootup: NO ERROR         SETUP mema         GLOBAL         Configure       ALARMS         Deplay       Clear Alarms         Cloar Ear	😧 - 👋
Unit Info: SDM-9230 v10.5.0 (A6) Memotec Inc. © 2012     Unit Name: CENTRAL-9230 (8495724)       "SIP supported "     Unit Location: Q&A+lab       DSP Version: 1.2.7 R3     Unit Location: Q&A+lab       Voice transport method: PowerCell     Estruments       File system status at bootup: NO ERROR     SETUP mena	2012 served
Unit Info: SDM-9230 v10.5.0 (A6) Memotec Inc. © 2012 * SP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR SETUP mema GLOBAL  Configure ALARMS Display Clear Alarms Clear Ent	
SETUP menu GLOBAL Configure ALARMS Display Clear Alarms Clear Err	
	LED
IP mcmu GLOBAL Configure COUNTERS PORT Display Reset all	
SLOT menu LINK Configure ERRORS PORT Display	
PORT Number ETH1 Configure STATES PORT Display	
PVC Range 1 Configure PORT STATES 1-304 Display	
Product License Configure Display PVC STATES 1-300 Display	
Unit Date and Time FRI 2012/04/27 11:24:42 Configure Read DESTINATIONS Display	
ResetUnt ROUTING TABLE RIP Display	
Logout INFORMATION MULTHOMED Display SOURCE-STATIC PART (CAP) CAP PY	
AP SAP SAP	

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.

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¢ Paortes @http://172.19.0.241/setup	ools • 📦 • * ht © 2012 c Inc. ts Reserved
	ht © 2012 c Inc. ts Reserved
redefining network efficiency All Right	
<b>IP/UNICAST/RIP</b> routing table (10 entries)	
Unit Name: CENTRAL-9230 ( <i>B4957</i> Unit Location: Q&A+lab	24)
Refresh	
DESTINATION VAL COST INTRF NEXT HOP AGE MASK TYPE PROT	
000 000 000 000 Y 0 LAN1-1 172 019 000 254 0 s 000 000 000 000 DGTW LOCAL	
010.000.000.000 Y 0 PVC1 010.019.000.241 0 s 255.000.000.000 NET local	
010.019.000.000 Y 0 PVC1 010.019.000.241 0 s 255.255.255.000 SUB LOCAL	
010.019.000.241 Y 0 PVC1 010.019.000.241 0 s 255.255.255.46ST LOCAL	
011.000.000.000 Y 0 LAN2-1 011.019.000.241 0 s 255.000.000.000 NET local	
011.019.000.000 Y 0 LAN2-1 011.019.000.241 0 s 255.255.255.000 SUB LOCAL	
011.019.000.241 Y 0 LAN2-1 011.019.000.241 0 s 255.255.255.46ST LOCAL	
172.019.000.000 Y 0 LAN1-1 172.019.000.241 0 s 255.255.000.000 NET local	
172.019.000.000 Y 0 LAN1-1 172.019.000.241 0 s 255.255.255.000 SUB LOCAL	
172.019.000.241 Y 0 LAN1-1 172.019.000.241 0 s 255.255.255.255 HOST LOCAL	
Refresh	
Return to MAIN menu	
4	2

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.

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MEMOTEC redefining network efficiency						Copyright © 2012 Memotec Inc. All Rights Reserved
		Main M	enu			
Unit Info: SDM-9230 v10 5.0 (A6) Memotec Inc. * SIP supported * DSP Version: 1.2.7 R3 Voice transport method: PowerCell File system status at bootup: NO ERROR	© 2012			Unit Unit	Name: CENTRAL-9230 Location: Q&A+lab	(B495724)
SETUP menu GLOE	BAL	Configure	ALARMS		Display Clear Alarms	Clear Err. LED
IP menu GLOB	BAL	Configure	COUNTERS	PORT	Display Reset all	
SLOT menu LINK	×	Configure	ERRORS	PORT	Display	
PORT Number ETH1	1 💌	Configure	STATES	PORT -	Display	
PVC Range		Configure	PORT STATES	1-304	Display	
Product License	I	Configure Display	PVC STATES	1-300	Display	
Unit Date and Time MON	2012/04/09 16:18:10	Configure Read	DESTINATIONS		Display	
Reset Unit			ROUTING TABLE	RIP	Display	
Logout			INFORMATION	PRODUCT SLOT/DSP PRODUCT HARDWARE	Display	
x[					internet	

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.

ittp://172.19.0.241/setup - Windo	ws Internet Explorer			_1
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Edit View Favorites Tools	Help			
Favorites 🖉 http://172.19.0.241/s	setup		🏠 • 🔂 - 🖻 👼 • Page • Safety • 🗆	Tools • 🔞
	C		Copyrigh Memotec All Rights	t © 2012 Inc. Reserved
		Product Information	1	
			Unit Name: CENTRAL-9230 (B495) Unit Location: Q&A+lab	724)
			Refresh	
	Main EEPROM application info	rmation		
	Default CSL speed:	9600		
	Active program:	0		
	OEM:	0		
	DBG start	0		
	Mainboard error code:	0		
	Slot 1 error code:	0		
	Slot 2 error code:	0		
	Slot 3 error code:	0		
	PCI active devices:	0		
	Main EEPROM product inform	ation		
	Production format	VERSO		
	Verso board s/n:	B495724		
	Board work order:	WF0606-00000001		
	BIA 1:	00200AB0C756		
	BIA 2:	00200AB0C755		
	Board assembly:	100-1090-008-C1		
	Options:			
	Product number:	9230		
	FPGA number:	274-1286-004-A		
	Verso unit s/n:	U085998		
	Unit assembly:	150-0022-030-H		
	Unit work order	WE0607-00000001		

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.



# **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.

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⊘ 172.19.0.241 ×						
Plie Edit View Pavorites Tools Help						Copyright © 2013 Memotec Inc. All Rights Reserved
		Main 1	Menu			
Unit Info: SDM-9230 v10.5.0 (B32) Mer * SIP supported * DSP Version: 1.2.7 R4 Voice transport method: PowerCell File system status at bootup: NO ERROR	notec Inc. © 2013				Unit Name: CENTRAL-923 Unit Location: Unknown	0 ( <i>B495724</i> )
SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarms	Clear Err. LED
IP menu	GLOBAL	Configure	COUNTERS	PORT	Display     Reset all	
SLOT menu	LINK	Configure	ERRORS	PORT	Display	
PORT Number	ETH1	Configure	STATES	PORT	Display	
PVC Range	1	Configure	PORT STATES	1-304	Display	
MAP menu	ADD 💌	Configure Display	PVC STATES	1-300	Display	
Product License		Configure Display	DESTINATIONS		Display	
File System		Configure Display	ROUTING TABLE	RIP	Display	
Unit Date and Time	FRI 2013/09/27 15:09:28	Configure Read	INFORMATION	SLOT/DSP	Display	
Reset Unit (Needs a few minutes)	)					
Logout						
http://172.19.0.241/setup						

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

#### <u>Figure 5-1</u>.

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⊘ 172.19.0.241 ×					
File Edit View Favorites Tools Help					
MEMOTEC redefining network efficiency					Copyright © 2013 ^ Memotec Inc. All Rights Reserved
	File System Ma	anage	men	nt	
				Unit Name: CENTRAL-9230 Unit Location: Unknown	( <i>B495724</i> )
CAPTURE.	тхт	1169	bytes	2013/09/23 15:38:50	
CFG.TXT		2217	bytes	2013/09/26 14:12:39	
CFG BKP.	TXT	2217	bytes	2013/09/26 14:11:14	
CURRENT.	ALR	144	bytes	2013/09/27 14:35:12	
CURRENT.	LOG	10846	bytes	2012/10/05 16:21:16	
HASIP1050	B32.BIN	3603456	bytes	2013/09/27 14:32:46	
HAV155R1	.DRV	431029	bytes	2012/10/03 15:41:18	
IFV109R7.I	DRV	103705	bytes	2012/10/03 15:41:14	
INFO.HID		874	bytes	2013/09/25 14:15:33	E
JOURNAL.	TXT	88746	bytes	2013/02/13 10:01:27	
QB12/R04.	BIZ	680779	bytes	2013/05/24 15:10:38	
QC127R03.	BIZ	709285	bytes	2013/05/09 16:02:24	
Used space		5634467	bytes		
Free space :		2033664	bytes		
File manag	ement ·		File up	pload :	
File operatio	on COPY A→B				
File name A	NO OPERATION		File na	Browse	
File name B	COPY A→B RENAME A→B		Uploa	ad file	
	Submit				
	Return to MAIN menu				
			_		-
·					•

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.

172.19.0.241 ×						
MEMOTEC redefining network efficiency						Copyright © 2 Memotec Inc. All Rights Res
	Fi	ile System	Disp	olay		
					Unit Name: CENTRAL Unit Location: Unknow	L-9230 ( <i>B495724</i> ) wn
	Re	fresh				
	CAPTURE TXT CFG_TXT CFG_BAC_TXT CURRENT ALR CURRENT LOG HASIP1050832 BIN HAV15581 DRV IFV109R7 DRV IFV109R7 DRV IFV109R7 DRV IFV109R7 DRV IFV109R7 DRV IFV109R7 DRV IV00000000000000000000000000000000000		1169 2217 2217 144 10846 3603456 431029 103705 874 88746 680779 709285 5634467 2033664	bytes bytes bytes bytes bytes bytes bytes bytes bytes bytes bytes bytes bytes	2013/09/23 15:38:50 2013/09/26 14:12:39 2013/09/26 14:11:14 2013/09/27 14:35:12 2012/10/05 16:21:16 2012/10/03 16:41:18 2012/10/03 15:41:18 2012/10/03 15:41:18 2012/10/03 15:41:14 2013/09/25 14:15:33 2013/02/13 10:01:27 2013/05/24 15:10:38 2013/05/09 16:02:24	
	Re	fresh-		0,000		

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.

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MEMOTEC redefining network efficiency						Copyright © 2012 Memotec Inc. All Rights Reserved
		Main M	lenu			
Unit Info: SDM-9230 v10.5.0 (A6) Memo * SIP supported * DSP Version: 1.2.7 R3 Voice transport method. PowerCell File system status at bootup: NO ERROR	stee Inc. © 2012			U U	nit Name: CENTRAL-9230 nit Location: Q&A+lab	) (B495724)
SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarm	s Clear Err. LED
IP menu	GLOBAL	Configure	COUNTERS	PORT	Display Reset all	
SLOT menu	LINK	Configure	ERRORS	PORT	Display	
PORT Number	ETH1	Configure	STATES	PORT	Display	
PVC Range	1	Configure	PORT STATES	1-304	Display	
Product License		Configure Display	PVC STATES	1-300	Display	
Unit Date and Time	WED 2012/04/25 13:27:36	Configure Read	DESTINATIONS		Display	
Reset Unit			ROUTING TABLE	RIP	Display	
Logout			INFORMATION	SLOT/DSP	Display	
http://172.19.0.241/setup					S Internet	Fig. = 1, 100% = 2

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.

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File Edit View Favorites	s Taals Help						
🚖 Favorites 🛛 🄏 http://17	12.19.0.241/config					💁 • 🔂 - 📑 🛞 • Page •	Safety - Tools - 🔞 - 🍟
	TEC k efficiency						Copyright © 2012 Memotec Inc. All Rights Reserved
			Main M	lenu			
Unit Info: SDM-9. * SIP supported * DSP Version: 1.2.7 Voice transport met File system status at	230 v10.5.0 (A6) Memo R3 thod: PowerCell t bootup: NO ERROR	tec Inc. © 2012			Un Un	iit Name: CENTRAL-9230 iit Location: Q&A+lab	(B495724)
	SETUP menu	GLOBAL	Configure	ALARMS		Display Clear Alarm	s Clear Err. LED
	IP menu	GLOBAL	Configure	COUNTERS	PORT	Display Reset all	
	SLOT menu	LINK	Configure	ERRORS	PORT	Display	
	PORT Number	ETH1	Configure	STATES	PORT	Display	
	PVC Range	1	Configure	PORT STATES	1-304	Display	
	Product License		Configure Display	PVC STATES	1-300	Display	
	Unit Date and Time	WED 2012/04/25 13:27:3	6 Configure Read	DESTINATIONS		Display	
	Reset Unit (Needs a few minutes)			ROUTING TABLE	RIP	Display	
	Logout			INFORMATION	SLOT/DSP	Display	
+ http://172.19.0.241/setup						internet	×

Figure 5-7: Logout button



# **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 lpHttp0 to lpHttp4	[npsys] lpHttp0 to lpHttp4

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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