Router Commands for the Command Line Interface

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1 About this document

1.1 Scope

This document:

- explains when it is advisable to use the command line interface with a Virtual Access router
- outlines the command line interface commands for the router, and
- shows examples of troubleshooting with the command line interface.

This document is complete at the time of writing version 0.9. Additional information can be found in the release statement for subsequent releases. It is not a comprehensive guide to router commands for command line interface.

1.2 Readership

Users of this document must be familiar with the router and the command line interface.

1.3 Terminology

CLI	command line interface

1.4 Symbols and typographic conventions

`Courier type`	Used in text and examples to show entered commands
`Courier type`	Used in text and examples to indicate a response to a command
Bold type	Used in text to indicate commands and keywords
variable	Used in text and examples to indicate a variable value or string
[]	Indicates an optional element
{word | word}	Alternative parameter values are grouped in brace ({}) and separated by a vertical bar (|)
text {n…m}	Indicates that the variable is ASCII text where *n* is the minimum number of characters and *m* is the maximum number of characters
{n…m}	Indicates that the variable is a numeric value where *n* is the minimum value allowed and *m* is the maximum value allowed

2 Introduction

2.1 GW2040 Series

The Virtual Access GW2040 Series is a versatile cost-effective rugged, compact 3G wireless router suitable for a variety of business-critical applications.

The GW2040 wireless interface supports 3G/HSDPA, 3G/UMTS and 2G/GPRS operating modes.

2.2 GW6000 Series

The Virtual Access GW6000 Series is a flexible family of routers that can be deployed in a wide range of scenarios from rugged M2M applications to retail.

The extended temperature option makes it ideal for outdoor applications such as CCTV, telemetry, SCADA, digital signage and intelligent traffic systems.

The GW6000 Series router offers:

- 4 10/100Mbps Ethernet ports

- Secondary (PSTN) interface

- Annex A and Annex M

- Automated router provisioning

2.3 GW7000 Series

The GW7000 Series delivers a fully integrated backup solution that gives end-users confidence that their corporate applications will remain online. This is particularly important to service providers in facilitating the adoption of DSL for business-critical services.

Using the GW7000, you can move critical services operating in demanding environments, such as the roadside, to broadband or wireless IP without the cost and disruption of an equipment upgrade.

The GW7000 offers:

- One or two ADSL2+ ports

- 5 10/100Mbps Ethernet ports

- 3G wireless interface option

- E1 6.703 or T1 interface option

- X.21 serial interface option

- Effective resilience for VoIP and mission critical data applications

- Rapid deployment with service monitoring for managed network applications

2.4 Tools for managing a Virtual Access router

2.4.1 The web interface

Every Virtual Access router features an embedded web that enables remote device management. The web interface includes:

- Fast.Start pages that allows manual configuration;
- Status pages that provide graphical monitoring tools;
- Advanced configuration pages that allow detailed and expert configuration and management of a Virtual Access router.

You can manage, configure, and diagnose the router through the web interface.

Summaries of diagnostics are available through the web interface. Detailed diagnostic dumps are available only through the command line interface. Examples of detailed diagnostics include traces in machine-readable format.

2.4.2 The command line interface

You can use commands with the router:

- through the command line interface, and
- with a script running on the router.

Do not use the command line interface to configure and manage a Virtual Access router. Use the web interface.

Use the command line interface only for detailed diagnostics in conjunctions with a third-level support engineer.

3 Logging on

1. Open the command line interface of your choice.

2. At the prompt, type **super** and press Return.

3. At the next prompt, type the password and press Return.

The super> prompt appears. You can configure and monitor the router.

3.1 Changing the user password

```
set security password super <new password>
```

Type the commands below at the super> prompt. Press Return after each command.

```
super>set security password super <new password>
super>commit
super>save
```

Figure 1 shows an example of the command to change the user password.

Figure 1: An example of the command to change the password

4 Configuring a Virtual Access router

4.1 Types of commands

There are three types of command line interface command for the router:

- interactive commands;
- configuration commands; and
- reconfiguration commands.

Each type of command requires a different action to make the command active.

4.1.1 Interactive commands

Use interactive commands to get the operational status of the router. Interactive commands take effect immediately.

An example of an interactive command is `show ipat`, which shows the current contents of the IP address translation table. Many `set` commands are also interactive.

4.1.2 Configuration commands

Configuration commands define how the router behaves. Configuration commands make changes to the configuration. They are loaded automatically from the active configuration file when the router restarts.

For the change to take effect, you must commit the change and reboot the router.

An example of a configuration command is
`Set IP Interface Address Eth-00,10.1.1.149`, which sets the Ethernet interface address.

4.1.3 Reconfiguration commands

Reconfiguration commands make changes to the configuration.

For reconfiguration changes to take effect, you must issue a command to reconfigure the router.

An example of a reconfiguration command is `set IP route default next hop IP = 0.0.0.0`, which sets the IP address of an adjacent router to send traffic to when a route to a destination is not known by the local device.

After you press Return, you must issue a reconfiguration command.

Reconfiguration command	Command to reconfigure the router
`set IP route`	`set ip route reconfigure`
`set IKE policy`	`vpnreset`
`set SPD policy`	`vpnreset`
`set ISDN`	`set isdn reconfigure`
`set IP addr translation user limit`	No command.
`set Dial Neighbour Incoming Call Barring Enabled`	
`set Ethernet Interface`	`set phy reset`
`set MP Interface AODI`	
`set X25`	
`set AAL5`	`disconnect ppp-x` (where ppp-x is mapped to the AAL5 interface)
`tail <filename>`	`super> tail events`

Table 1: Reconfiguration commands

```
super> tail events
1364955 11:16:41 Oct-26-2006  49.40  INFO       Script: 1, 0, 0, 0
1364956 11:17:41 Oct-26-2006  49.40  INFO       Script: 1, 0, 0, 0
1364957 11:18:41 Oct-26-2006  49.40  INFO       Script: 1, 0, 0, 0
1364958 11:19:41 Oct-26-2006  49.40  INFO       Script: 1, 0, 0, 0
1364959 11:20:41 Oct-26-2006  49.40  INFO       Script: 1, 0, 0, 0
1364960 11:21:41 Oct-26-2006  49.40  INFO       Script: 1, 0, 0, 0
1364961 11:22:41 Oct-26-2006  49.40  INFO       Script: 1, 0, 0, 0
1364962 11:23:41 Oct-26-2006  49.40  INFO       Script: 1, 0, 0, 0
1364963 11:24:41 Oct-26-2006  49.40  INFO       Script: 1, 0, 0, 0
1364964 11:25:31 Oct-26-2006  26.03  INFO       Telnet login super 10.1.1.50
super>
```

Figure 2: An example of the tail command

4.2 General commands

4.2.1 Working in the command line interface

The commands in this section help you navigate within the command line interface.

clear

Clears the screen and returns the cursor to the top of the screen.

4.2.2　Basic commands to configure the router

Command	Description
Show <parameter>	Show current value of the configuration parameter
Delete <parameter>	Delete the current value of the configuration parameter
Set <parameter> = <value>	Issue a configuration change
Commit	Cause the most recent changes to take effect
Save	make the committed changes permanent
Reload	Cause the system to reboot
Logout	Exit the console session
Sub <string>	List all parameter names that contain <string>
Help <string>	List all commands beginning with <string>
set TAIL	

4.2.3　Abbreviations for elements of command statements

To improve efficiency and reduce typing errors, abbreviations are available for some elements of command statements.

Element	Abbreviation
Address	Addr
Committed Config	CFG
Download Status	DLS
Enabled	En
Entry	Et
Eth-0	E0
Eth-1	E1
Eth-2	E2
Eth-3	E3
Gateway	Gt
Interface	If
Local	Lcl
No	N
PPP-1	P1
PPP-2	P2
PPP-3	P3
PPP-4	P4
PPP-5	P5
PPP-6	P6
PPP-7	P7
PPP-8	P8
Protocol	Ptl
Set	St
Timeout	Tout
Translation	Tr
Yes	Y

Table 2: Abbreviations for elements of command statements

4.3 The syntax of command line interface commands

4.3.1 SET commands

The syntax of SET commands for the router is in this format:

```
<Command> <Parameter> = <List Command>, <Selector>
```

Command with a selector	`SET ezfilter name = 1, testfilter`
Command without a selector	`SET DHCP server enabled = yes`

Table 3: The syntax of SET commands

The examples above are configuration commands. Do not use the command line interface to configure and manage a router.

A command that includes an interface name always has two parameters. The first parameter is an interface name. The second parameter selects a value.

Some commands do not have a value selector.

4.3.2 SHOW and DELETE commands

The syntax for SHOW and DELETE commands is slightly different to the syntax for SET commands. Do not include a selector in the synta

```
<Command> <Parameter> <List Command>
```

Command with a selector for a SET command	`SHOW ezfilter name 1` `DELETE ezfilter name 1`
Command without a selector for a SET command	`SET DHCP server enabled` `DELETE DHCP server enabled`

Table 4: The syntax of SHOW and DELETE commands

The examples above are configuration commands. Do not use command line interface to configure and manage a router.

4.4 Managing the configuration file system

Use the commands in this section to:

- change the configuration, or
- to get information about the configuration.

The commands in this section can have parameters. The commands in this section do not have selectors.

For information about the files in the directory, read 'Appendix A: Files in the directory'.

5 Managing the configuration file system

Use the commands in this section to:

- change the configuration, or
- to get information about the configuration.

The commands in this section can have parameters. The commands in this section do not have selectors.

5.1 Modify, activate and view configuration changes

`commit`

Cause the most recent changes to be permanently added to the configuration. In some cases, you must follow `commit` with `save` and `reboot` to activate the command.

`delete configurationParameter [listIdentifier]`

Delete the current setting of any configuration parameter that can be modified with the `set` command.

`show configurationParameter [listIdentifier]`

Show the active setting of any configuration parameter that can be modified with the `set` command.

`dir`

Display information about the files that are stored in flash memory.

```
super> dir

Segment            Size     Used RW      Time/Date
direct            20448    20448 R       00:00:00 Jun-02-2000
kernel           262144   262144 R       13:36:57 Jul-07-2005
persdata            256      256 RW      13:36:33 Jul-07-2005
image1          1724657  1724657 RW      14:30:59 Jun-26-2006
web              633679   633679 RW      14:31:43 Jun-26-2006
CSTAT                32       32 RW      18:21:15 Jan-28-2006
config1            3115     3115 RW      20:07:46 Jun-24-2006
config2            3194     3194 RW      20:43:45 Jun-25-2006
fpgadata          41483    41483 RW      00:00:20 Jun-02-2000
factconf           3721     3721 RW      20:08:30 Jun-24-2006
image2          2175623  2175623 RW      00:07:22 Jan-01-2004
00be53.src          765      765 RW      00:03:32 Jan-10-2004
00be53.pvt          493      493 RW      00:03:35 Jan-10-2004
activator.rct       696      696 RW      00:03:38 Jan-10-2004
test.bat            267      267 RW      02:33:16 Jan-01-2004
featurekey          140      140 RW      06:45:35 Jan-01-2004
Total Kb used:  4756
Total Kb free:  3392
```

Figure 3: An example of the directory listing

For information about the files in the directory, read Appendix A: Files in the directory.

show ident

Display the operating and web software version information.

```
super> show ident

IMAGE1  10:08:27 Jun-28-2006   48726   System Software (XOT) 8.8.28 B2
IMAGE2  18:26:13 May-24-2005   16300   System (Europe) 8.9.03 RC 4
WEB     09:29:42 Jun-23-2006   50913   Gateway Web 8.8.28 XOT Beta 1
KERNEL  13:36:57 Jul-07-2005   0       PowerPC Core Bootloader v1.01
```

Figure 4: An example of the operating and web software version information

show system info

Display the hardware model, revision number, software version, and MAC address of the router.

```
super> show system info

Model Name             GW4310A---50
Hardware Revision      VA5103
Serial Number          00E0C800BE53
Mac Address            00E0C800BE53
Capabilities           00014a90
Label Type             1
Serial Licensed        1
VPN Licensed           1
OEM                    0
Processor type         66 MHz PPC
Support license        August 2006
```

Figure 5: An example of system information

5.1.1   Manage configuration files

set next config <configFile>

Make the configuration file held in flash the file to be used the next time the system boots. There are 4 options.

factconf	Use the configuration stored in the factory configuration file the next time the system boots.
config1	Use the configuration stored in config1 the next time the system boots.
config2	Use the configuration stored in config2 the next time the system boots.
altconfig	If config1 is running, use the configuration stored in config2 the next time the system boots.
	If config2 is running, use the configuration stored in config1 the next time the system boots.

Table 5: The possible strings for the set next config command

```
super> set next config altconfig
Command successful.
```

Figure 6: An example of the set next config command

show current config

Display the name of the configuration file that is currently running.

```
super> show current config
config1
```

Figure 7: An example of the show current config command

show next config

Display the name of the configuration file that will load the next time the device reloads.

```
super> show next config
config2
```

Figure 8: An example of the show next config command

show commit config

View any previously entered configuration changes that are stored in the commit buffer.

delete committed config

Delete the committed configuration file.

5.1.2   Manage software image files

show system software version

Display the operating software version number.

```
super> show system software version
System Software (XOT) 8.8.28 B2
```

Figure 9: An example of the show system software version command

Display the operating software country code.

```
System (Europe) 8.10.05 RC 6
```

Figure 10: An example of the show system variant command `show current image`

Display the name of the operating software image file that is currently running.

```
super> show current image
image1
```

Figure 11: An example of the show current image command

set next image <filename>

Make the image held in flash in segment *filename* the one that will be used the next time the system boots.

```
super> set next image image2
Command Successful Image set
```

Figure 12 An example of the set next image command

Image 1	Image stored in image segment 1
Image 2	Image stored in image segment 2
Alt image	Image stored in image segment that is not currently running. (Show current Image)

Table 6: Descriptions of image command

`show next image`

Display the name of the operating software file that will be loaded the next time the device reloads.

```
super> show next image
image2
```

Figure 13 An example of the show next image command

`download <image/web>`

Download the image or web that you specify.

5.2 Configuration commands and parameters

These commands and parameters are included for completeness only. Use the parameters in the table with the commands SET, SHOW, and DELETE. For information about the correct syntax for each command, read section 4.3, 'The syntax of command line interface commands'.

Do not use the command line to configure and manage a router. Use the web interface.

Use the command line only for detailed diagnostics in conjunctions with a third-level support engineer.

5.2.1 Autoload commands

Parameter	List Command	Selector	Default
Autoload Backoff Timer		<numeric 1..1440>	[15] (mins)
Autoload Boot Using Config		<config>	[Altconfig]
Autoload Boot Using Image		<image>	[Altimage]
Autoload Dynamic Address Enabled		<yes-no>	[no]
Autoload Enabled		<yes-no>	[no]
Autoload Number Of Retries		<numeric 0..25>	[5]
Autoload Protocol		<autoloadProtocol>	[tftp]
Autoload Reboot Required		<yes-no>	[yes]
Autoload Retry Timer		<numeric 10..3600>	[30] (secs)
Autoload Start Timer		<numeric 10..300>	[10] (secs)
Management Address Update Frequency		<numeric 0..640000>	[0] (mins)
Management Address Update On Connect Enabled		<yes-no>	[no]
Management Address Update On Connect Interface		<pppInterfaces>	[Ppp-1]
Autoload Entry Configured	<index 1..6>	<yes-no>	[no]
Autoload Entry Executable	<index 1..6>	<yes-no>	[no]
Autoload Entry Remote Filename	<index 1..6>	<text 1..32>	[]
Autoload Entry Segment Name	<index 1..6>	<autoloadexec>	[Config1]

5.2.2 Call history commands

Parameter	List Command	Selector	Default
Call History Automatic Delivery Enabled		<yes-no>	[no]
Call History Log Full Action		<logFullAction>	[0]
Call History Table Size		<numeric 0..500>	[300]
Call History Tftp Server Ip Address		<ipaddress>	[0.0.0.0] (A non-null address overrides the default TFTP Server)
Call History Threshold		<numeric 0..100>	[90] (%)

5.2.3   Certificate commands

5.2.4   Content filtering commands

Parameter	List Command	Selector	Default
Content Filter Default Action		<BlockOrAllow>	[Allow]
Content Filter Default Blocking Gif		<text 0..100>	[http://fast.star t/blocked.gif]
Content Filter Default Blocking Url		<text 0..100>	[http://fast.star t/blocked.htm]
Content Filter Delegation IP Address		<ipaddress>	[0.0.0.0]
Content Filter Delegation IP Mask		<ipaddress>	[0.0.0.0]
Content Filter Enabled		<yes-no>	[no]
Content Filter Feature Key		<text 0..64>	[]
Content Filter Http Timeout		<numeric 10..180>	[180] (secs)
Content Filter Ifp Port		<numeric 100..99999>	[4005]
Content Filter Ifp Server Address		<ipaddress>	[0.0.0.0]
Content Filter Ifp Timeout		<numeric 0..20>	[8] (secs)
Content Filter Test Gifs		<yes-no>	[no]
Content Filter Username		<text 0..64>	[$$]
Content Filter Bypass Configured =			
Content Filter Bypass Action =			
Content Filter Bypass Source IP Start =			
Content Filter Bypass Source IP End =			
Content Filter VPN Bypass Enabled =			
Content Filter Fastpath Enabled =			

5.2.5   DNS proxy commands

Parameter	List Command	Selector	Default
Dns Proxy Server Catch Domain Name		<text 0..32>	[Fast.Start]
Dns Proxy Server Destination Ip Address		<ipaddress>	[0.0.0.0]
Dns Proxy Server Enabled		<yes-no>	[yes]
Dns Proxy Server Ignore Netbios		<yes-no>	[yes]
Dns Proxy Server Ip Address		<ipaddress>	[0.0.0.0]
Dns Proxy Server Timeout		<numeric 0..120>	[10] (secs)

5.2.6   Event commands

Parameter	List Command	Selector	Default
Event Activator Logging		<yes-no>	[no]
Event Forwarding Default Action		<log>	[1]
Event Forwarding Default Severity		<EFDSeverity>	[6]
Event Forwarding Discriminator Enabled		<yes-no>	[no]
Event Forwarding Enabled		<yes-no>	[yes]
Event Forwarding Usage Call Monitor Enabled		<yes-no>	[no]
Event Forwarding Usage Calls Per Usage Period		<numeric 0..500>	[50]
Event Forwarding Usage Calls Per Usage Period Enabled		<yes-no>	[no]
Event Forwarding Usage Mail Event Enabled		<yes-no>	[no]
Event Forwarding Usage Maximum Call Length		<numeric 0..3420>	[360] (mins)
Event Forwarding Usage Monitor Window Length		<numeric 0..30>	[1] (days)
Event Forwarding Usage Number Call Minutes		<numeric 0..65535>	[480] (mins)
Event Forwarding Usage Period Per Number Of Calls		<numeric 0..1440>	[60] (mins)
Event Forwarding Usage Surpress Mails Duration For Calls		<numeric 0..168>	[1] (hours)
Event Ip Diffserv Logging		<yes-no>	[no]
Event Log Size		<numeric 10..750>	[50]
Event Forwarding Discriminator Entry Class	<index 1..30>	<EFDClass>	[8]
Event Forwarding Discriminator Entry Criteria	<index 1..30>	<EFDCriteria>	[0]
Event Forwarding Discriminator Entry Severity	<index 1..30>	<EFDSeverity>	[0]
Event Forwarding Discriminator Entry Target	<index 1..30>	<eventTarget>	[1]
Event Power Detection Enabled =			
Event Forwarding Discriminator Table Size =			

5.2.7   System inventory commands

Parameter	List Command	Selector	Default
Inventory Customer Identifier		<text 0..64>	[]
Inventory Management Centre1		<text 0..64>	[none]
Inventory Management Centre2		<text 0..64>	[none]
Inventory Provider Identifier		<text 0..64>	[none]
Inventory User Defined First String		<text 0..64>	[none]
Inventory User Defined Second String		<invUserTwo>	[none]

5.2.8   Security commands

5.2.8.1   Firewall commands

Parameter	List Command	Selector	Default
Filter Firewall Anti Spoof Enabled		<yes-no>	[no]
Filter Firewall Block All In Enabled		<yes-no>	[no]
Filter Firewall Block All Out Enabled		<yes-no>	[no]
Filter Firewall Broadcast Sources Enabled		<yes-no>	[no]
Filter Firewall Broadcasts Enabled		<yes-no>	[no]
Filter Firewall Enabled		<yes-no>	[no]
Filter Firewall Ftp In Address		<ipaddress>	[0.0.0.0]
Filter Firewall Ftp In Enabled		<yes-no>	[no]
Filter Firewall Ftp Out Enabled		<yes-no>	[no]
Filter Firewall Http In Address		<ipaddress>	[0.0.0.0]
Filter Firewall Http In Enabled		<yes-no>	[no]
Filter Firewall Http Out Enabled		<yes-no>	[no]
Filter Firewall Https In Address		<ipaddress>	[0.0.0.0]
Filter Firewall Https In Enabled		<yes-no>	[no]
Filter Firewall Https Out Enabled		<yes-no>	[no]
Filter Firewall Imap In Address		<ipaddress>	[0.0.0.0]
Filter Firewall Imap In Enabled		<yes-no>	[no]
Filter Firewall Imap Out Enabled		<yes-no>	[no]
Filter Firewall Large Pings Enabled		<yes-no>	[no]
Filter Firewall Netbios Enabled		<yes-no>	[no]
Filter Firewall Pop3 In Address		<ipaddress>	[0.0.0.0]
Filter Firewall Pop3 In Enabled		<yes-no>	[no]

`Filter Firewall Pop3 Out Enabled`		`<yes-no>`	`[no]`
`Filter Firewall Protect Interfaces Enabled`		`<yes-no>`	`[no]`
`Filter Firewall Regular Pings Enabled`		`<yes-no>`	`[no]`
`Filter Firewall Smtp In Address`		`<ipaddress>`	`[0.0.0.0]`
`Filter Firewall Smtp In Enabled`		`<yes-no>`	`[no]`
`Filter Firewall Smtp Out Enabled`		`<yes-no>`	`[no]`
`Filter Firewall Telnet In Address`		`<ipaddress>`	`[0.0.0.0]`
`Filter Firewall Telnet In Enabled`		`<yes-no>`	`[no]`
`Filter Firewall Telnet Out Enabled`		`<yes-no>`	`[no]`
`Filter Firewall Wins Enabled`		`<yes-no>`	`[no]`

5.2.8.1.1 Firewall log commands

Parameter	List Command	Selector	Default
Firewall Log Attack Enabled		<yes-no>	[no]
Firewall Log Attack Severity		<EFDSeverity>	[1]
Firewall Log Indication Enabled		<yes-no>	[no]
Firewall Log Indication Severity		<EFDSeverity>	[7]
Firewall Log Suspicious Enabled		<yes-no>	[no]
Firewall Log Suspicious Severity		<EFDSeverity>	[4]
Firewall Log To Eventlog Enabled		<yes-no>	[no]
Firewall Log To Syslog Enabled		<yes-no>	[no]
Firewall Log Filters Enabled =			
Firewall Log Enabled =			
Firewall Log Number Of Entries =			
Firewall Log Maximum Repeat Count =			
Firewall Log Filters Enabled =			
Firewall Log Firewall Enabled =			
Firewall Log VPN Enabled =			
Firewall Log IP Enabled =			
Firewall Log TCP Flows Enabled =			
Firewall Log UDP Flows Enabled =			
Firewall Log ICMP Flows Enabled =			
Firewall Log Other Flows Enabled =			
Firewall Log Incoming Flows Enabled =			
Firewall Log Outgoing Flows Enabled =			
Firewall Log Flow Errors Enabled =			
Firewall Log Automatic Delivery Enabled =			
Firewall Log Delivery Format =			
Firewall Log TFTP Server IP Address =			
Firewall Log Threshold =			

5.2.8.2 User profile commands

Parameter	List Command	Selector	Default
User Profile Enabled	<index 1..32>	<yes-no>	[no]
User Profile Local Ip Address	<index 1..32>	<ipaddress>	[0.0.0.0]
User Profile Remote Address Mask	<index 1..32>	<ipaddress>	[0.0.0.0]
User Profile Remote Ip Address	<index 1..32>	<ipaddress>	[0.0.0.0]
User Profile User Encrypted Password	<index 1..32>	<password 0..126>	[]
User Profile User Name	<index 1..32>	<text 0..63>	[]

5.2.9   Frame relay commands

Parameter	List Command	Selector	Default
Frame Relay System Enabled		<yes-no>	[yes]
Frame Relay System Inverse Arp Timer		<numeric 0..65535>	[30]

5.2.10   IGMP commands

Parameter	List Command	Selector	Default
Igmp System Enabled		<yes-no>	[no]
Igmp System Last Member Query Interval		<numeric 1..60>	[1] (secs)
Igmp System Query Interval		<numeric 1..86400>	[125] (secs)
Igmp System Query Response Interval		<numeric 1..600>	[10] (secs)
Igmp System Robustness		<numeric 1..10>	[2]
Igmp System Unsolicited Report Interval		<numeric 1..86400>	[10] (secs)
Igmp System Version1 Router Present Interval		<numeric 1..86400>	[400] (secs)

5.2.11   Local client commands

5.2.11.1 Bootp commands

Parameter	List Command	Selector	Default
Bootp System Maximum Number Of Retransmissions		<numeric 0..30>	[10]
Bootp System Retransmission Timeout		<numeric 1..120>	[20]

5.2.11.2 DHCP client commands

Parameter	List Command	Selector	Default
Dhcp Client Enabled		<yes-no>	[no]
Dhcp Client Host Name		<text 0..49>	[va-router]
Dhcp Client Interface		<DhcpClientinterface>	[eth-1]

5.2.11.3 HTTP client commands

Parameter	List Command	Selector	Default

Http Client Activator Download Path		<text 0..63>	[/Activator/Sessionless/Httpserver.asp]
Http Client Connection Retries		<numeric 1..20>	[3]
Http Client Download Path		<text 0..63>	[]
Http Client Enabled		<yes-no>	[no]
Http Client Events Path		<text 0..63>	[/Activator/Sessionless/Sendevent.asp]
Http Client File Server Ip Address		<ipaddress>	[0.0.0.0]
Http Client File Server Port		<numeric 0..1024>	[80]
Http Client File Server Secure Port		<numeric 0..1024>	[443]
Http Client Inactivity Timeout		<numeric 1..3600>	[300] (seconds)
Http Client Present Certificate Enabled		<yes-no>	[yes]
Http Client Secure Download		<yes-no>	[no]
Http Client Server Certificate Field		<text 0..30>	[CN]
Http Client Server Certificate Field Value		<text 0..30>	[Activator]
Http Client Validate Server Certificate Enabled		<yes-no>	[no]
Http Client Validate Server Certificate Field Enabled		<yes-no>	[no]

5.2.11.4 Cerficate commands

Parameter	List Command	Selector	Default
Certificate Country Name		<text 0..2>	[]
Certificate Email Address		<text 0..100>	[]
Certificate Locality Name		<text 0..50>	[]
Certificate Organization Name		<text 0..50>	[]
Certificate Organizational Unit Name		<text 0..50>	[]
Certificate State Name		<text 0..50>	[]

5.2.12 Mail notification commands

5.2.13 Mail recipient commands

5.2.13.1 Network time protocol (NTP) commands

Parameter	List Command	Selector	Default
Ntp Client Ip		<ipaddress>	[0.0.0.0]
Ntp Enabled		<yes-no>	[no]
Ntp Server Ip		<ipaddress>	[0.0.0.0]
Ntp Server Port		<numeric 0..9999>	[123]
Ntp Time Location Code		<ntptimezone>	[Lon]
Ntp Update At Boot Enabled		<yes-no>	[no]
Ntp Update Interval		<numeric 0..24>	[7] (days)
NTP GMT Negative Offset In Minutes =			
NTP GMT Positive Offset In Minutes =			

5.2.13.2 Syslog commands

Parameter	List Command	Selector	Default
Syslog System Client Ip Address		<ipaddress>	[0.0.0.0]
Syslog System Enabled		<yes-no>	[no]
Syslog System Process Name String		<text 0..32>	[$$]
Syslog System RFC3164 Format		<yes-no>	[no]
Syslog System Server Ip Address		<ipaddress>	[0.0.0.0]
Syslog System Server Port		<numeric 0..65535>	[514]
Syslog System Severity		<syslogSeverity>	[6]
System Blackbox Auditing Enabled		<yes-no>	[no]

5.2.13.3 TFTP commands

Tftp Client Ip Address		<ipaddress>	[0.0.0.0]
Tftp Client Maximum Number Of Retries		<numeric 0..10>	[5]
Tftp Client Timeout		<numeric 0..300>	[5] (secs)
Tftp Enabled		<yes-no>	[yes]
Tftp Server Ip Address		<ipaddress>	[192.168.100.100]
TFTP Options Enabled =			
TFTP Options Block Size =			

5.2.14 Local server commands

5.2.14.1 FTP proxy server commands

FTP Commands			
Ftp Enabled		<yes-no>	[yes]
Ftp Inactivity Timeout		<numeric 0..7200>	[1800] (Secs)
Ftp Number of sessions			

5.2.14.2 DNS proxy server commands

Dns Proxy Server Destination Ip Address		<ipaddress>	[0.0.0.0]
Dns Proxy Server Enabled		<yes-no>	[yes]
Dns Proxy Server Ignore Netbios		<yes-no>	[yes]
Dns Proxy Server Ip Address		<ipaddress>	[0.0.0.0]
Dns Proxy Server Timeout		<numeric 0..120>	[10] (secs)
Dns Proxy Server Catch Domain Name		<text 0..32>	[Fast.Start]

5.2.14.3 DNS cache commands

Dns Cache Static Ip Address	<index 1..30>	<ipaddress>	[0.0.0.0]
Dns Cache Static Name	<index 1..30>	<text 0..64>	[]

5.2.14.4 Telnet server commands

Parameter	List Command	Selector	Default
Telnet Server Enabled		<yes-no>	[yes]
Telnet Server Ip Address		<ipaddress>	[0.0.0.0]
Telnet Server Timeout Enabled		<yes-no>	[yes]

5.2.14.5 Web server commands

Parameter	List Command	Selector	Default
Http Server Active Router Enabled		<yes-no>	[yes]
Http Server Document Drive		<text 1..64>	[]
Http Server Enabled		<yes-no>	[yes]
Http Server Ip Address		<ipaddress>	[0.0.0.0]
Http Server Secure Only		<yes-no>	[no]
Http Server Session Timeout		<numeric 1..1440>	[20] (mins)
Http Server Timeout Enabled		<yes-no>	[yes]
Http Server Upgrade Url		<text 0..250>	[]
Http Server Virgin Router Enabled		<yes-no>	[no]

5.2.14.6 Web symbols commands

Parameter	List Command	Selector	Default
System Symbol Configured	<index 1..64>	<yes-no>	[no]
System Symbol Name	<index 1..64>	<text 0..64>	[]
System Symbol Value	<index 1..64>	<text 0..64>	[]

5.2.14.7 DHCP server commands

Parameter	List Command	Selector	Default
Dhcp Server Allocation Configured	<index 1..4>	<yes-no>	[yes]
Dhcp Server Allocation End	<index 1..4>	<ipaddress>	[0.0.0.150] (Null to specify a single Ip Address)
Dhcp Server Allocation Mask	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Allocation Port	<index 1..4>	<EthernetPort>	[eth-0]
Dhcp Server Allocation Start	<index 1..4>	<ipaddress>	[0.0.0.100]
Dhcp Server Bootpra Agent IP Address		<ipaddress>	[0.0.0.0]
Dhcp Server Bootpra Enabled		<yes-no>	[no] (Enabling DHCP relay disables DHCP server)
Dhcp Server Domain Name		<text 0..30>	[pro]
Dhcp Server Enabled		<yes-no>	[no]
Dhcp Server Exclusion Configured	<index 1..4>	<yes-no>	[no]
Dhcp Server Exclusion End	<index 1..4>	<ipaddress>	[0.0.0.0] (Null to specify a single Ip Address)
Dhcp Server Exclusion Port	<index 1..4>	<EthernetPort>	[eth-0]
Dhcp Server Exclusion Start	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Host Name		<text 0..30>	[linxpeed]
Dhcp Server Maximum Lease Duration		<numeric 1..4320>	[72] (hours)

5.2.14.8 DHCP client commands

Parameter	List Command	Selector	Default
Dhcp Client Enabled		<yes-no>	[no]

Dhcp Client Host Name		<text 0..49>	[va-router]
Dhcp Client Interface		<DhcpClientinterface>	[eth-1]
Dhcp Server Bootpra Agent IP Address		<ipaddress>	[0.0.0.0]
Dhcp Server Bootpra Enabled		<yes-no>	[no] (Enabling DHCP relay disables DHCP server)
Dhcp Server Domain Name		<text 0..30>	[pro]
Dhcp Server Enabled		<yes-no>	[no]
Dhcp Server Host Name		<text 0..30>	[linxpeed]
Dhcp Server Maximum Lease Duration		<numeric 1..4320>	[72] (hours)
Dhcp Server Minimum Lease Duration		<numeric 1..10080>	[120] (mins)

5.2.14.8.1   DHCP server option commands

Parameter	List Command	Selector	Default
Dhcp Server Wins Address 1		<ipaddress>	[0.0.0.0]
Dhcp Server Wins Address Configured 1		<yes-no>	[no]
Dhcp Server Dns Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Dns Address Configured	<index 1..4>	<yes-no>	[yes]
Dhcp Server Lpr Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Lpr Address Configured	<index 1..4>	<yes-no>	[no]
Dhcp Server Nntp Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Nntp Address Configured	<index 1..4>	<yes-no>	[no]
Dhcp Server Pop3 Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Pop3 Address Configured	<index 1..4>	<yes-no>	[no]
Dhcp Server Router Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Router Address Configured	<index 1..4>	<yes-no>	[yes]
Dhcp Server Smtp Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Smtp Address Configured	<index 1..4>	<yes-no>	[no]
Dhcp Server Tftp Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Tftp Address Configured	<index 1..4>	<yes-no>	[no]
Dhcp Server Wins Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Wins Address 1		<ipaddress>	[0.0.0.0]
Dhcp Server Wins Address Configured	<index 1..4>	<yes-no>	[no]
Dhcp Server Wins Address Configured 1		<yes-no>	[no]
Dhcp Server Www Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Dhcp Server Www Address Configured	<index 1..4>	<yes-no>	[no]
DHCP Server DRS Address =			
DHCP Server DRS Address Configured =			
DHCP Server TFTP Server =			
DHCP Server TFTP Server Configured =			
DHCP Server TFTP Filename =			
DHCP Server TFTP Filename Configured =			

5.2.14.8.1.1 Pop 3 proxy server commands

Parameter	List Command	Selector	Default
Pop3 Connect When Line Is Up		<yes-no>	[yes]
Pop3 Enabled		<yes-no>	[no]
Pop3 Friday Isa Workday		<yes-no>	[yes]
Pop3 Minimum Mail Test Interval		<numeric 0..60>	[2] (mins)
Pop3 Monday Isa Workday		<yes-no>	[yes]
Pop3 Saturday Isa Workday		<yes-no>	[no]
Pop3 Sunday Isa Workday		<yes-no>	[no]
Pop3 Thursday Isa Workday		<yes-no>	[yes]
Pop3 Tuesday Isa Workday		<yes-no>	[yes]
Pop3 User ReDelay		<numeric 0..720>	[360] (mins)
Pop3 Wednesday Isa Workday		<yes-no>	[yes]
Pop3 Window Duration		<numeric 1..60>	[10] (mins)
Pop3 Window End Time		<text 0..10>	[18:30]
Pop3 Window Opening Frequency		<numeric 5..720>	[60] (mins)
Pop3 Window Start Time		<text 0..10>	[08:00]
Pop3 Windows Only On Workdays		<yes-no>	[no]
Pop3 Priority Username	<index 1..20>	<text 0..64>	[]
Pop3 Priority Username Enabled	<index 1..20>	<yes-no>	[no]

5.2.15 Configuring internet protocol

5.2.15.1 IP system commands

Parameter	List Command	Selector	Default
Ip System Default Ttl		<numeric 0..255>	[0]
Ip System Management Address		<ipaddress>	[0.0.0.0]
Ip System Management Address Enabled		<yes-no>	[no]
Ip System Reassembly Timeout		<numeric 5..180>	[5] (secs)
Ip System Rip Enabled		<yes-no>	[no]
Ip System Rip Response Interval		<numeric 15..65535>	[30] (secs)
Ip System Rip Route Aging Timeout		<numeric 1..1080>	[3] (mins)
Ip System Rip Spoof Enabled		<yes-no>	[no]
Ip System Rip Ttl		<numeric 1..64>	[64]
Ip System Tcp Adjust Mss Enabled		<yes-no>	[yes]

5.2.15.2 IP default route

Parameter	List Command	Selector	Default
Ip Route Default Configured		<yes-no>	[no]
Ip Route Default Metric		<numeric 1..15>	[1]
Ip Route Default Next Hop Interface		<routingIf>	[Eth-0]
Ip Route Default Next Hop Ip		<ipaddress>	[0.0.0.0]
Ip Route Default Numbered		<routeTypeSelect>	[no]

5.2.15.3 IP static route

Ip Route Static Configured	<index 1..40>	<yes-no>	[no]
Ip Route Static Mask	<index 1..40>	<ipaddress>	[0.0.0.0]
Ip Route Static Metric	<index 1..40>	<numeric 0..15>	[0]
Ip Route Static Next Hop Interface	<index 1..40>	<routingIf>	[Eth-0]
Ip Route Static Next Hop Ip	<index 1..40>	<ipaddress>	[0.0.0.0]
Ip Route Static Numbered	<index 1..40>	<routeTypeSelect>	[yes]
Ip Route Static Target	<index 1..40>	<ipaddress>	[0.0.0.0]

5.2.15.4 ICMP

Parameter	List Command	Selector	Default
Ip Interface Icmp Mask Reply Enabled,		<yes-no>	[yes]

eth-0			
Ip Interface Icmp Mask Request Enabled, eth-0		<yes-no>	[yes]
Ip Interface Icmp Redirect Enabled, eth-0		<yes-no>	[yes]

5.2.15.5 Routing information protocol

Parameter	List Command	Selector	Default
Ip Interface Rip Announce Default Route Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Announce Host Route Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Announce Static Route Enabled, eth-0		<yes-no>	[no]
Ip Interface Rip Default Route Metric Override, eth-0		<numeric 1..15>	[1]
Ip Interface Rip Learn Default Route Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Learn Host Route Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Periodic Updates Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Poison Reverse Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Route Holddown Enabled, eth-0		<yes-no>	[no]
Ip Interface Rip Send Request Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Send Response Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Split Horizon Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Summarize Route Enabled, eth-0		<yes-no>	[yes]
Ip Interface Rip Triggered Updates Enabled, eth-0		<yes-no>	[no]
Ip Interface Ripv2 Authentication Type, eth-0		<ripv2Authenticate>	[1]
Ip Interface Ripv2 Learn Sender Ip		<yes-no>	[yes]

Address When Next Hop Is Invalid, eth-0			
Ip Interface Ripv2 Plain Text Password, eth-0		<password 3..128>	[]
Ip Interface Ripv2 Receive Type, eth-0		<ripv2ReceiveType>	[3]
Ip Interface Ripv2 Send Type, eth-0		<ripv2SendType>	[3]

5.2.15.6 Address resolution protocol (ARP)

Parameter	List Command	Selector	Default
Ip Interface Arp Aging Timeout, eth-0		<numeric 0..3600>	[0] (mins)
Ip Interface Arp Enabled, eth-0		<yes-no>	[yes]
Ip Interface Arp Number Of Retransmissions, eth-0		<numeric 0..100>	[2]
Ip Interface Arp Reply Timeout, eth-0		<numeric 0..180>	[10] (secs)

5.2.15.7 Reverse address resolution protocol (RARP)

Parameter	List Command	Selector	Default
Ip Interface Rarp Client Enabled, eth-0		<yes-no>	[no]
Ip Interface Rarp Reply Timeout, eth-0		<numeric 0..180>	[3] (secs)
Ip Interface Rarp Server Enabled, eth-0		<yes-no>	[no]

5.2.15.8 IP address translation (IPAT)

Ip Address Translation Number Of Dynamic Entries		<numeric 0..1000>	[150]

5.2.15.8.1   Incoming IP address translation

Parameter	List Command	Selector	Default
Ip Address Translation Entry Configured	<index 1..64>	<yes-no>	[no]
Ip Address Translation Entry Gateway Port	<index 1..64>	<numeric 0..65535>	[0]
Ip Address Translation Entry Interface	<index 1..64>	<routingIf>	[Eth-0]
Ip Address Translation Entry Ip Address	<index 1..64>	<ipaddress>	[0.0.0.0]
Ip Address Translation Entry Local Port	<index 1..64>	<numeric 0..65535>	[0]
Ip Address Translation Entry Protocol	<index 1..64>	<IPATprotocol>	[tcp]
IP Address Translation Entry Gateway Ip Address =			
IP Address Translation Entry Gateway Ip Address End =			
IP Address Translation Entry Gateway Port =			
IP Address Translation Entry Gateway Port End =			

5.2.15.8.2   Outgoing IP address translation

Parameter	List Command	Selector	Default
Ip Address Translation Interface Enabled, eth-0		<yes-no>	[no]
Ip Address Translation Interface Best Guess Mapping Enabled, eth-0		<yes-no>	[no]
Ip Address Translation Interface Tcp Timeout, eth-0		<numeric 1..180>	[30] (mins)
Ip Address Translation Interface Udp Timeout, eth-0		<numeric 1..60>	[1] (mins)

5.2.15.8.3   Default incoming IP address translation

Parameter	List Command	Selector	Default
Ip Address Translation Interface Default Ip Address Enabled, eth-0		<yes-no>	[yes]
Ip Address Translation Interface Default Ip Address Value, eth-0		<ipaddress>	[0.0.0.0]

5.2.15.8.4   Bypass IP address translation

Parameter	List Command	Selector	Default
Ip Address Translation Bypass Address	<index 1..30>	<ipaddress>	[0.0.0.0]
Ip Address Translation Bypass Address Mask	<index 1..30>	<ipaddress>	[0.0.0.0]
Ip Address Translation Bypass Address Type	<index 1..30>	<ipat_add_type>	[destination]
Ip Address Translation Bypass Configured	<index 1..30>	<yes-no>	[no]
Ip Address Translation Bypass Port	<index 1..30>	<routingIf>	[Eth-0]
Ip Address Translation Bypass Translate	<index 1..30>	<yes-no>	[no]
Ip Address Translation Interface Source Address, eth-0		<ipaddress>	[0.0.0.0]

5.2.16   ISDN commands

Parameter	List Command	Selector	Default
Isdn Country Code		<IsdnCountryCode>	[1000]
Isdn Operator Code		<IsdnOperatorCode>	[11]
Isdn Semi Permanent Enabled		<yes-no>	[no]
Isdn Semi Permanent Speed		<isdnSemiPermanentSpeed>	[64000]
Isdn Signalling Tei Value1		<numeric 0..127>	[127]
Isdn Signalling Tei Value2		<numeric 0..127>	[1]
Isdn Spid Guessing Directory Number Value1		<text 0..31>	[]
Isdn Spid Guessing Directory Number Value2		<text 0..31>	[]
ISDN Transceiver Mode		<ISDNmode>	[1]
Isdn X25 Tei		<numeric 0..127>	[1]
Toll Mizer System Incoming Enabled		<yes-no>	[no]

5.2.17   Netbios commands

Parameter	List Command	Selector	Default
Netbios Interface		<netbiosInterfaces>	[eth-0]
Netbios Proxy Enabled		<yes-no>	[no]

5.2.18 PPP system commands

Parameter	List Command	Selector	Default
Ppp System Maximum Configuration Request Backoff Interval		<numeric 10..3600>	[10] (secs)
Ppp System Maximum Configuration Request Send Interval		<numeric 3..60>	[3] (secs)
Ppp System Maximum Echo Request Send Interval		<numeric 5..180>	[30] (secs)
Ppp System Maximum Number Of Configuration Request		<numeric 5..16>	[10]
Ppp System Maximum Number Of Termination Request		<numeric 1..16>	[10]
Ppp System Maximum Number Of Unacknowledged Echo Request		<numeric 2..16>	[5]
Ppp System Maximum Termination Request Send Interval		<numeric 3..60>	[3] (secs)
Vjc System Align Header Enabled		<yes-no>	[yes]
Vjc System Enabled		<yes-no>	[no]
Link Protocol Detection Enabled		<yes-no>	[no]

5.2.19 Protocol relay commands

Parameter	List Command	Selector	Default
Prot Relay Connection Control Timeout		<numeric 2000..60000>	[2000] (ms)
Prot Relay Dce Mode Enabled		<yes-no>	[yes]
Prot Relay Enabled		<yes-no>	[no]
Prot Relay Keep Alive Enabled		<yes-no>	[yes]
Prot Relay Keep Alive Polling Delay		<numeric 0..5000>	[5000] (ms)
Prot Relay Keep Alive Polling Period		<numeric 1..60>	[20] (secs)
Prot Relay Lapb Modulo		<x25PacketSeqNumbering >	[8]
Prot Relay Lapb N1		<numeric 1..4101>	[4101] (octets)
Prot Relay Lapb N2		<numeric 1..255>	[3]
Prot Relay Lapb T1		<numeric 1..60>	[1] (secs)
Prot Relay Lapb T4		<numeric 1..60>	[60] (secs)
Prot Relay Lapb Window Size		<numeric 1..127>	[7] (frames)

Prot Relay Lapd N200		<numeric 1..255>	[3]
Prot Relay Lapd N201		<numeric 1..260>	[260] (octets)
Prot Relay Lapd T200		<numeric 1..60>	[1] (secs)
Prot Relay Lapd T203		<numeric 1..60>	[10] (secs)
Prot Relay Lapd Window Size		<numeric 1..127>	[7] (frames)
Prot Relay Protocol Type		<ProtRelayTypeJapan>	[x25]
Prot Relay Registration Enabled		<yes-no>	[no]
Prot Relay Remote IP Address 1		<ipaddress>	[0.0.0.0]
Prot Relay Remote IP Address 2		<ipaddress>	[0.0.0.0]
Prot Relay Segment Nua		<text 0..32>	[]
Prot Relay Server Mode Enabled		<yes-no>	[no]
Prot Relay TCP Base Port		<numeric 1..9999>	[1198]
Prot Relay Tcp Retry Timeout		<numeric 5000..60000>	[5000] (ms)
Prot Relay Tcp Transmit Block		<numeric 1..10000>	[1400] (bytes)
Prot Relay Tcp Transmit Timeout		<numeric 1..10000>	[10] (s)
Prot Relay Transparent Forwarding Block Size		<numeric 1..10000>	[50] (bytes)
Prot Relay Transparent Forwarding Timeout		<numeric 1..10000>	[50] (ms)
Prot Relay Port Active Link Setup Enabled	<index 1..9>	<yes-no>	[yes]
Prot Relay Port Dynamic Tei Enabled	<index 1..9>	<yes-no>	[no]
Prot Relay Port Enabled	<index 1..9>	<yes-no>	[no]
Prot Relay Port LAPD TEI	<index 1..9>	<numeric 0..63>	[1]
Prot Relay Port Physical Channel	<index 1..9>	<ISDNChannel>	[0]
Prot Relay Port Remote IP Address	<index 1..9>	<numeric 1..2>	[1]

5.2.20 SMTP commands

Parameter	List Command	Selector	Default
Smtp System Email Delivery Retry Delay		<numeric 0..3600>	[30]
Smtp System Enabled		<yes-no>	[no]
Smtp System Maximum Number Of Email Delivery Retries		<numeric 0..256>	[3]
Smtp System Sender Email Address		<text 0..64>	[]
Smtp System Server Ip Address		<text 0..64>	[]
Smtp System Server Port		<numeric 0..65535>	[25]

5.2.21 Spanning tree commands

Parameter	List Command	Selector	Default
Spanning Tree Algorithm Enabled		<yes-no>	[no]
Spanning Tree Enabled		<yes-no>	[no]
Spanning Tree Number Of Filtering Database Entries		<numeric 0..1024>	[256]
Spanning Tree Number Of Hash Table Entries		<numeric 0..1024>	[256]

5.2.22 Syslog commands

5.2.23 Telnet server commands

Parameter	List Command	Selector	Default
Telnet Server Enabled		<yes-no>	[yes]
Telnet Server Ip Address		<ipaddress>	[0.0.0.0]
Telnet Server Timeout Enabled		<yes-no>	[yes]

5.2.24 X25 commands

Parameter	List Command	Selector	Default
X25 Default Incoming Packet Data Size		<x25PacketSize>	[7] (bytes)
X25 Default Outgoing Packet Data Size		<x25PacketSize>	[7] (bytes)
X25 Default Packet Sequence Numbering		<x25PacketSeqNumbering >	[8]
X25 Highest Incoming Channel		<numeric 0..4096>	[0]
X25 Highest Outgoing Channel		<numeric 0..4096>	[0]

X25 Highest Two Ways Channel		<numeric 0..4096>	[1]
X25 Incoming Default Window		<numeric 1..127>	[2]
X25 Lowest Incoming Channel		<numeric 0..4096>	[0]
X25 Lowest Outgoing Channel		<numeric 0..4096>	[0]
X25 Lowest Two Ways Channel		<numeric 0..4096>	[1]
X25 Minimum Lcn Value		<x25MinLcnValue>	[1]
X25 Outgoing Default Window		<numeric 1..127>	[2]
X25 Restart Mode		<x25RestartMode>	[68]
X25 Incoming Calls Barred =			
X25 Outgoing Calls Barred =			
X25 Enabled =			
X25 Interface Enabled =			
X25 T20 =			
X25 T21 =			
X25 T22 =			
X25 T23 =			
X25 T24 =			
X25 T25 =			
X25 T26 =			
X25 T27 =			
X25 T28 =			

5.2.25 Dial neighbour parameters

Parameter	List Command	Selector	Default
Dial Neighbour Alternate Configured	<index 1..20>	<yes-no>	[no]
Dial Neighbour Alternate Interface	<index 1..20>	<alternateInterfaces>	[Ppp-1]
Dial Neighbour Alternate Number Plan	<index 1..20>	<dialNeiAltNumPlan>	[0]
Dial Neighbour Alternate Number Type	<index 1..20>	<dialNeiAltNumType>	[0]
Dial Neighbour Alternate Originate Address	<index 1..20>	<text 0..31>	[]
Dial Neighbour Alternate Originate Subaddress	<index 1..20>	<text 0..31>	[]
Dial Neighbour Incoming Call Barring Enabled =			
Dial Neighbour Outgoing Call Barring Enabled =			

Dial Neighbour Speed =			
Dial Neighbour Answer Address =			
Dial Neighbour Answer Subaddress =			
Dial Neighbour Call Type =			

5.2.26 Diffserv commands

Parameter	List Command	Selector	Default
Diffserv Queue Depth	<index 1..32>	<numeric 0..80000>	[32000]
Diffserv Queue Enabled	<index 1..32>	<yes-no>	[no]
Diffserv Queue Interface	<index 1..32>	<Diffserv_interface>	[Null]
Diffserv Queue Mark Packets Tos Inprofile	<index 1..32>	<numeric 0..255>	[0]
Diffserv Queue Mark Packets Tos Outprofile	<index 1..32>	<numeric 0..255>	[0]
Diffserv Queue Marking Enabled	<index 1..32>	<yes-no>	[no]
Diffserv Queue Name	<index 1..32>	<text 0..32>	[null]
Diffserv Queue Token Bucket Maximum Average Rate	<index 1..32>	<numeric 0..1600000000>	[80000] (bits/sec)
Diffserv Queue Token Bucket Maximum Burst	<index 1..32>	<numeric 0..100000>	[3200] (bytes)
Diffserv Queue Token Bucket Minimum Average Rate	<index 1..32>	<numeric 0..1600000000>	[80000] (bits/sec)
Diffserv Queue Token Bucket Minimum Burst	<index 1..32>	<numeric 0..100000>	[3200]
Diffserv Queue Transmit Priority	<index 1..32>	<numeric 1..32>	[1]
Diffserv Queue Drop Style =			

5.2.27 Ethernet switch commands

Parameter	List Command	Selector	Default
Ethernet Media Sense Enabled		<yes-no>	[yes]
Ethernet Interface Fullduplex Enabled	<index 1..4>	<yes-no>	[no]
Ethernet Interface Isolate Enabled	<index 1..4>	<yes-no>	[no]
Ethernet Interface Loopback Enabled	<index 1..4>	<yes-no>	[no]
Ethernet Interface Negotiation Enabled	<index 1..4>	<yes-no>	[yes]
Ethernet Interface Powerdown Enabled	<index 1..4>	<yes-no>	[no]
Ethernet Interface Segment	<index 1..4>	<EthernetPort>	[eth-0]
Ethernet Interface Speed100 Enabled	<index 1..4>	<yes-no>	[no]

Ethernet VLAN Enabled =			
Ethernet Polling Enabled =			
Ethernet Polling Maximum Receive Time =			
Ethernet Number Of Receive Buffers =			
Ethernet Number Of Transmit Buffers =			
Ethernet Number Of Transmit Buffers =			
Ethernet Interface Accept Promiscuous Enabled =			

5.2.28 IP filter commands

Parameter	List Command	Selector	Default
Ezfilter Action	<index 1..96>	<ezFilterAction>	[Pass]
Ezfilter Configured	<index 1..96>	<yes-no>	[no]
Ezfilter Diffservmask	<index 1..96>	<text 7..15>	[0.0.0.0]
Ezfilter Diffservvalue	<index 1..96>	<numeric 0..255>	[0]
Ezfilter Direction	<index 1..96>	<ezDirection>	[In]
Ezfilter Flagmask	<index 1..96>	<ezFlag>	[None]
Ezfilter Flagvalue	<index 1..96>	<ezFlag>	[none]
Ezfilter Fromaddress	<index 1..96>	<text 3..15>	[any]
Ezfilter Fromday	<index 1..96>	<ezDaysOfWeek>	[Any]
Ezfilter Frommask	<index 1..96>	<text 3..15>	[0.0.0.0]
Ezfilter Fromport Range	<index 1..96>	<text 0..15>	[any]
Ezfilter Fromtime	<index 1..96>	<text 3..5>	[00:00]
Ezfilter Interface	<index 1..96>	<ezInterface>	[any]
Ezfilter Name	<index 1..96>	<text 1..16>	[none]
Ezfilter Protocol	<index 1..96>	<ezProtocol>	[any]
Ezfilter Timeop	<index 1..96>	<ezTimeOp>	[None]
Ezfilter Toaddress	<index 1..96>	<text 3..15>	[any]
Ezfilter Today	<index 1..96>	<ezDaysOfWeek>	[Any]
Ezfilter Tomask	<index 1..96>	<text 3..15>	[0.0.0.0]
Ezfilter Toport Range	<index 1..96>	<text 0..15>	[any]
Ezfilter Totime	<index 1..96>	<text 3..5>	[00:00]
Filter Ip	<index 1..100>	<text 0..255>	[]

5.2.29 Bandwidth management trigger commands

Parameter	List Command	Selector	Default
Eztrigger Action	<index 1..16>	<ezTriggerAction>	[1b_channel]
Eztrigger Configured	<index 1..16>	<yes-no>	[no]
Eztrigger Diffservmask	<index 1..16>	<text 7..15>	[0.0.0.0]
Eztrigger Diffservvalue	<index 1..16>	<numeric 0..127>	[0]
Eztrigger Direction	<index 1..16>	<ezDirection>	[In]
Eztrigger Flagmask	<index 1..16>	<ezFlag>	[none]
Eztrigger Flagvalue	<index 1..16>	<ezFlag>	[none]
Eztrigger Fromaddress	<index 1..16>	<text 3..15>	[any]
Eztrigger Fromday	<index 1..16>	<ezDaysOfWeek>	[Any]
Eztrigger Frommask	<index 1..16>	<text 3..15>	[0.0.0.0]
Eztrigger Fromport Range	<index 1..16>	<text 1..20>	[any]
Eztrigger Fromtime	<index 1..16>	<text 5..5>	[00:00]
Eztrigger Interface	<index 1..16>	<ezInterface>	[any]
Eztrigger Name	<index 1..16>	<text 1..16>	[none]
Eztrigger Protocol	<index 1..16>	<ezProtocol>	[Any]
Eztrigger Timeop	<index 1..16>	<ezTimeOp>	[None]
Eztrigger Toaddress	<index 1..16>	<text 3..15>	[any]
Eztrigger Today	<index 1..16>	<ezDaysOfWeek>	[Any]
Eztrigger Tomask	<index 1..16>	<text 3..15>	[0.0.0.0]
Eztrigger Toport Range	<index 1..16>	<text 1..20>	[any]
Eztrigger Totime	<index 1..16>	<text 5..5>	[00:00]
Filter Bwm Trigger	<index 1..40>	<text 0..128>	[]

5.2.30 Usage monitor commands

Parameter	List Command	Selector	Default
Ezusage Monitor Diffservmask	<index 1..15>	<text 7..15>	[0.0.0.0]
Ezusage Monitor Configured	<index 1..15>	<yes-no>	[no]
Ezusage Monitor Diffservvalue	<index 1..15>	<numeric 0..127>	[0]
Ezusage Monitor Fromaddress	<index 1..15>	<text 3..15>	[any]
Ezusage Monitor Fromday	<index 1..15>	<ezDaysOfWeek>	[Any]
Ezusage Monitor Frommask	<index 1..15>	<text 3..15>	[0.0.0.0]
Ezusage Monitor Fromport Range	<index 1..15>	<text 1..20>	[any]
Ezusage Monitor Fromtime	<index 1..15>	<text 3..5>	[00:00]
Ezusage Monitor Interface	<index 1..15>	<ezInterface>	[any]
Ezusage Monitor Name	<index 1..15>	<text 1..20>	[default]

Ezusage Monitor Protocol	<index 1..15>	<ezProtocol>	[Any]
Ezusage Monitor Timeop	<index 1..15>	<ezTimeOp>	[None]
Ezusage Monitor Toaddress	<index 1..15>	<text 3..15>	[any]
Ezusage Monitor Today	<index 1..15>	<ezDaysOfWeek>	[Any]
Ezusage Monitor Tomask	<index 1..15>	<text 3..15>	[0.0.0.0]
Ezusage Monitor Toport Range	<index 1..15>	<text 1..20>	[any]
Ezusage Monitor Totime	<index 1..15>	<text 3..5>	[00:00]
Filter Usage Monitor	<index 1..40>	<text 0..30>	[]

5.2.31 Virtual route commands

Parameter	List Command	Selector	Default
Ezvirtualrt Configured	<index 1..16>	<yes-no>	[no]
Ezvirtualrt Diffservmask	<index 1..16>	<numeric 0..255>	[0]
Ezvirtualrt Diffservvalue	<index 1..16>	<numeric 0..255>	[0]
Ezvirtualrt Direction	<index 1..16>	<ezDirection>	[Out]
Ezvirtualrt Flagmask	<index 1..16>	<ezFlag>	[none]
Ezvirtualrt Flagvalue	<index 1..16>	<ezFlag>	[none]
Ezvirtualrt Fromaddress	<index 1..16>	<text 3..15>	[any]
Ezvirtualrt Fromday	<index 1..16>	<ezDaysOfWeek>	[Any]
Ezvirtualrt Frommask	<index 1..16>	<text 7..15>	[0.0.0.0]
Ezvirtualrt Fromport Range	<index 1..16>	<text 1..20>	[any]
Ezvirtualrt Fromtime	<index 1..16>	<text 5..5>	[00:00]
Ezvirtualrt Interface	<index 1..16>	<ezInterface>	[any]
Ezvirtualrt Name	<index 1..16>	<text 1..16>	[none]
Ezvirtualrt Newdiffservvalue	<index 1..16>	<text 1..4>	[none]
Ezvirtualrt Protocol	<index 1..16>	<ezProtocol>	[Any]
Ezvirtualrt Redirect Interface	<index 1..16>	<ezInterface>	[any]
Ezvirtualrt Redirect Queue	<index 1..16>	<text 1..32>	[0]
Ezvirtualrt Timeop	<index 1..16>	<ezTimeOp>	[None]
Ezvirtualrt Toaddress	<index 1..16>	<text 3..15>	[any]
Ezvirtualrt Today	<index 1..16>	<ezDaysOfWeek>	[Any]
Ezvirtualrt Tomask	<index 1..16>	<text 3..15>	[0.0.0.0]
Ezvirtualrt Toport Range	<index 1..16>	<text 1..20>	[any]
Ezvirtualrt Totime	<index 1..16>	<text 5..5>	[00:00]
Filter Virtual Route	<index 1..40>	<text 0..30>	[]

5.2.32 VPN commands

5.2.32.1 IKE

Parameter	List Command	Selector	Default
Ike Enabled		<yes-no>	[no]
Ike Fastpath Enabled		<yes-no>	[yes]
Ike Feature Key		<text 0..24>	[]
Ike Hardware Enabled		<yes-no>	[yes]
Ike Initial Contact		<yes-no>	[yes]
Ike Policy Authentication Algorithm	<index 1..100>	<ike_auth_type>	[md5]
Ike Policy Authorisation Mode	<index 1..100>	<ike_authmode_type>	[Preshared]
Ike Policy Enabled	<index 1..100>	<yes-no>	[no]
Ike Policy Encrypted Preshared Key	<index 1..100>	<password 1..128>	[]
Ike Policy Encryption Algorithm	<index 1..100>	<ike_encrypt_type>	[Des]
Ike Policy Exchange Type	<index 1..100>	<ike_exchange_type>	[main]
Ike Policy Group	<index 1..100>	<ike_group_type>	[768]
Ike Policy Life Kb	<index 1..100>	<numeric 0..1024>	[0]
Ike Policy Life Time	<index 1..100>	<numeric 300..300000>	[86400]
Ike Policy Local Address	<index 1..100>	<ipaddress>	[0.0.0.0]
Ike Policy Local Identifier Data	<index 1..100>	<text 0..40>	[0.0.0.0]
Ike Policy Local Identifier Type	<index 1..100>	<ike_id_type>	[ipv4]
Ike Policy Name	<index 1..100>	<text 1..64>	[none]
Ike Policy Nonce Size	<index 1..100>	<numeric 8..256>	[20]
Ike Policy Peer Address	<index 1..100>	<ipaddress>	[0.0.0.0]
Ike Policy Pfs	<index 1..100>	<yes-no>	[no]
Ike Policy Remote Identifier Data	<index 1..100>	<text 0..40>	[0.0.0.0]
Ike Policy Remote Identifier Type	<index 1..100>	<ike_id_type>	[ipv4]
Ike Policy Response Type	<index 1..100>	<ike_response_type>	[both]

5.2.32.2 SPD

Parameter	List Command	Selector	Default
Spd Policy Authentication Algorithm	<index 1..200>	<spd_auths_table>	[md5]
Spd Policy Authentication In Esp	<index 1..200>	<yes-no>	[yes]
Spd Policy Authentication Key	<index 1..200>	<password 0..128>	[]
Spd Policy Destination End Address	<index 1..200>	<ipaddress>	[0.0.0.0]
Spd Policy Destination Mask	<index 1..200>	<ipaddress>	[255.255.255.0]

Spd Policy Destination Port	<index 1..200>	<numeric 0..6553>	[0]
Spd Policy Destination Start Address	<index 1..200>	<ipaddress>	[0.0.0.0]
Spd Policy Direction	<index 1..200>	<spd_direction_table>	[Out]
Spd Policy Enabled	<index 1..200>	<yes-no>	[no]
Spd Policy Encapsulation Mode	<index 1..200>	<spd_encap_table>	[tunnel]
Spd Policy Encryption Algorithm	<index 1..200>	<spd_encrypts_table>	[des]
Spd Policy Encryption Key	<index 1..200>	<password 0..128>	[]
Spd Policy Group Identifier	<index 1..200>	<numeric 0..255>	[0]
Spd Policy Initial Vector	<index 1..200>	<password 0..128>	[]
Spd Policy Keying	<index 1..200>	<spd_keying_table>	[auto]
Spd Policy Life Kb	<index 1..200>	<numeric 0..1024>	[0]
Spd Policy Life Time	<index 1..200>	<numeric 0..300000>	[3600]
Spd Policy Name	<index 1..200>	<text 0..64>	[none]
Spd Policy Priority	<index 1..200>	<numeric 1..200>	[100]
Spd Policy Process	<index 1..200>	<spd_process_table>	[Discard]
Spd Policy Protocol	<index 1..200>	<spd_protocol_table>	[All]
Spd Policy Security Gateway	<index 1..200>	<ipaddress>	[0.0.0.0]
Spd Policy Security Protocol	<index 1..200>	<spd_secproto_table>	[esp]
Spd Policy Selector Value Destination Address	<index 1..200>	<spd_selectorval_table>	[spd]
Spd Policy Selector Value Destination Port	<index 1..200>	<spd_selectorval_table>	[spd]
Spd Policy Selector Value Protocol	<index 1..200>	<spd_selectorval_table>	[spd]
Spd Policy Selector Value Source Address	<index 1..200>	<spd_selectorval_table>	[spd]
Spd Policy Selector Value Source Port	<index 1..200>	<spd_selectorval_table>	[spd]
Spd Policy Source End Address	<index 1..200>	<ipaddress>	[0.0.0.0]
Spd Policy Source Mask	<index 1..200>	<ipaddress>	[255.255.255.0]
Spd Policy Source Port	<index 1..200>	<numeric 0..6553>	[0]
Spd Policy Source Start Address	<index 1..200>	<ipaddress>	[0.0.0.0]
Spd Policy Spi	<index 1..200>	<numeric 0..100000>	[0]
Spd Policy Test Address One	<index 1..200>	<ipaddress>	[0.0.0.0]
Spd Policy Test Address Two	<index 1..200>	<ipaddress>	[0.0.0.0]
SPD Internet Bypass Enabled =			
SPD Policy Flags =			

5.2.33 MOT commands

Parameter	List Command	Selector	Default
MOT Camera Address	<index 1..32>	<numeric 0..31>	[0]
MOT Camera Enabled	<index 1..32>	<yes-no>	[no]
MOT Disconnect Alarm Enabled		<yes-no>	[yes]
Mot Enabled		<yes-no>	[no]
MOT IP Port		<numeric 1..65535>	[4599]
MOT Maximum Clients		<numeric 1..10>	[2]
MOT Maximum Connections		<numeric 1..4>	[2]
MOT NOA Primary IP Address		<ipaddress>	[0.0.0.0]
MOT NOA Primary IP Port		<numeric 1..65535>	[0]
MOT NOA Secondary IP Address		<ipaddress>	[0.0.0.0]
MOT NOA Secondary IP Port		<numeric 1..65535>	[0]
MOT Packet Delay		<numeric 100..9999>	[600]
MOT Packet Size		<numeric 100..9999>	[1000]
MOT Privilege Password		<text 1..16>	[priv]
MOT Privilege Username		<text 1..16>	[priv]
MOT Standard Password		<text 1..16>	[asidua]
MOT Standard Username		<text 1..16>	[asidua]

5.2.34 Sgw commands

Sgw Enabled		<yes-no>	[no]
Sgw Temperature Lower		<numeric 0..127>	[45] (°C)
Sgw Temperature Upper		<numeric 0..127>	[50] (°C)

5.2.35 Performance monitor commands

Parameter	List Command	Selector	Default
Perfmon Averaging Algorithm	<index 1..32>	<PerfAlgorithm>	[2]
Perfmon Display Name	<index 1..32>	<text 1..25>	[none]
Perfmon Entry Configured	<index 1..32>	<yes-no>	[no]
Perfmon Group Name	<index 1..32>	<text 0..25>	[]
Perfmon Number Of Epochs	<index 1..32>	<numeric 1..365>	[24]
Perfmon Rate Conversion	<index 1..32>	<statRate>	[2]

`Perfmon Sample Interval`	`<index 1..32>`	`<numeric 5..65535>`	`[720] (secs)`
`Perfmon Sampled Object`	`<index 1..32>`	`<text 0..240>`	`[1.3.6.1.2.1.4.3. 0]`
`Perfmon Synch Mode`	`<index 1..32>`	`<sampleMode>`	`[4]`
`Perfmon Synch Time`	`<index 1..32>`	`<numeric 0..1440>`	`[0] (mins since midnight)`
`Perfmon Time Constant`	`<index 1..32>`	`<numeric 40..11000>`	`[7200] (secs)`
`Perfmon System Automatic Upload Enabled`		`<yes-no>`	`[no]`
`Perfmon System Automatic Upload Frequency`		`<frequencyDWM>`	`[Daily]`
`Perfmon System Automatic Upload Time`		`<text 0..10>`	`[00:00]`

5.2.36 Scheduler Tasks

Parameter	List Command	Selector	Default
`Scheduler Task Date`	`<index 1..20>`	`<text 0..11>`	[01-01-1970] ((dd-mm-yyyy))
`Scheduler Task Enabled`	`<index 1..20>`	`<yes-no>`	[no]
`Scheduler Task Frequency`	`<index 1..20>`	`<scheduler_frequency>`	[Once]
`Scheduler Task Name`	`<index 1..20>`	`<text 0..32>`	[]
`Scheduler Task Script`	`<index 1..20>`	`<text 0..180>`	[]
`Scheduler Task Time`	`<index 1..20>`	`<text 0..5>`	[00:00] ((hh:mm))
`Scheduler Task Window`	`<index 1..20>`	`<numeric 0..86400>`	[0] (secs)

5.2.37 Script commands

Parameter	List Command	Selector	Default
`Script Line`	`<index 1..200>`	`<text 1..172>`	`[]`
`Script Modem Command`	`<index 1..30>`	`<scriptCommand>`	`[0]`
`Script Modem Comparison Type`	`<index 1..30>`	`<scriptComparisonType>`	`[0]`
`Script Modem Jump Condition`	`<index 1..30>`	`<scriptJumpCondition>`	`[0]`
`Script Modem Line Number`	`<index 1..30>`	`<scriptLines>`	`[0]`
`Script Modem Register`	`<index 1..30>`	`<scriptRegister>`	`[0]`
`Script Modem String`	`<index 1..30>`	`<text 0..32>`	`[]`
`Script Modem Timeout`	`<index 1..30>`	`<numeric 0..65535>`	`[0]`

Script Modem Value1	<index 1..30>	<numeric 0..65535>	[0]
Script Serial Command	<index 1..30>	<scriptCommand>	[0]
Script Serial Comparison Type	<index 1..30>	<scriptComparisonType>	[0]
Script Serial Jump Condition	<index 1..30>	<scriptJumpCondition>	[0]
Script Serial Line Number	<index 1..30>	<scriptLines>	[0]
Script Serial Register	<index 1..30>	<scriptRegister>	[0]
Script Serial String	<index 1..30>	<text 0..32>	[]
Script Serial Timeout	<index 1..30>	<numeric 0..65535>	[0]
Script Serial Value1	<index 1..30>	<numeric 0..65535>	[0]

5.2.38 Security Commands

Parameter	List Command	Selector	Default
Security Encrypted Password	<index 1..4>	<password 0..128>	[]
Security Username	<index 1..4>	<user>	[User]
Security Wan Connection Enabled		<yes-no>	[yes]

5.2.39 SNMP manager commands

Parameter	List Command	Selector	Default
Snmp Manager Agent Ip Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Snmp Manager Configured	<index 1..4>	<yes-no>	[no]
Snmp Manager Ip Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Snmp Manager Name	<index 1..4>	<text 1..16>	[]
Snmp Manager Read Community Name	<index 1..4>	<text 0..64>	[public]
Snmp Manager Trap Community Name	<index 1..4>	<text 0..64>	[public]
Snmp Manager Trap Ip Address	<index 1..4>	<ipaddress>	[0.0.0.0]
Snmp Manager Write Community Name	<index 1..4>	<text 0..64>	[netman]
Snmp System Contact		<text 0..255>	[]
Snmp System Enabled		<yes-no>	[yes]
Snmp System Location		<text 0..255>	[]
Snmp System Name		<text 0..255>	[]
Smtp Cc Recipient Email Address Value	<index 1..4>	<text 0..64>	[]
Smtp Recipient Email Address Value	<index 1..4>	<text 0..64>	[]

5.3 Interface commands

5.3.1 Ethernet Interface commands

Parameter	List Command	Selector	Default
Bootp Interface Enable Server Host Name, eth-0		<yes-no>	[yes]
Bootp Interface Enabled, eth-0		<yes-no>	[no]
Bootp Interface Server Host Name, eth-0		<text 0..63>	[]
Bootpra Server Configured	<index 1..10>	<yes-no>	[no]
Bootpra Server Host Name	<index 1..10>	<text 0..63>	[]
Bootpra Server Ip Address	<index 1..10>	<ipaddress>	[0.0.0.0]
Dhcp Server Bootpra Interface Ip Address, eth-0		<ipaddress>	[0.0.0.0]
Ethernet Interface Accept Promiscuous Enabled, eth-0		<yes-no>	[no]
Inventory Interface Identifier Of Line, eth-0		<text 0..64>	[none]
Inventory Interface Identifier Of Nt, eth-0		<text 0..64>	[none]
Inventory Interface User Defined First String, eth-0		<text 0..64>	[none]
Inventory Interface User Defined Second String, eth-0		<text 0..64>	[none]
Ip Interface Address, eth-0		<ipaddress>	[192.168.100.1]
Ip Interface Address Mask, eth-0		<ipaddress>	[255.255.255.0]
Ip Interface Enabled, eth-0		<yes-no>	[yes]
Ip Interface Flow Monitoring Drop Unknown Packets Enabled, eth-0		<yes-no>	[no]
Ip Interface Flow Monitoring Enabled, eth-0		<yes-no>	[no]
Ip Interface Is Wan Interface, eth-0		<yes-no>	[no]
Ip Interface Maximum Reassembly Size, eth-0		<numeric 64..65535>	[65535] (bytes)
Ip Interface Metric, eth-0		<numeric 1..15>	[1]
Ip Interface Mtu, eth-0		<numeric 64..1500>	[1500] (bytes)
Ip Interface Secondary Address, eth-0		<ipaddress>	[0.0.0.0]

Ip Interface Secondary Address Mask, eth-0		<ipaddress>	[255.255.255.0]
Ip Interface Secondary Enabled, eth-0		<yes-no>	[no]
Ip Interface Tcp Largest Mss Value, eth-0		<numeric 0..65535>	[0]
Ip Interface Vpn Source Network, eth-0		<ipaddress>	[0.0.0.0]
Spanning Tree Interface Maximum Frame Size, eth-0		<numeric 0..1600>	[1560]
Spanning Tree Interface State, eth-0		<bridging_state>	[no]
Spanning Tree Interface Wan Enabled, eth-0		<yes-no>	[no]
BOOTP TTL =			
Access Control Enabled =			
IP Address Translation Interface TCP Window Adjustment Enabled =			

5.3.2   POTS interface commands

Parameter	List Command	Selector	Default
Inventory Interface Identifier Of Line, POTS1		<text 0..64>	[none]
Inventory Interface Identifier Of Nt, POTS1		<text 0..64>	[none]
Inventory Interface User Defined First String, POTS1		<text 0..64>	[none]
Inventory Interface User Defined Second String, POTS1		<text 0..64>	[none]

5.3.3   PPP interface commands

Parameter	List Command	Selector	Default
Bootp Interface Accept Server Assigned Ip Address, ppp-1		<yes-no>	[no]
Bootp Interface Enable Server Host Name, ppp-1		<yes-no>	[yes]
Bootp Interface Enabled, ppp-1		<yes-no>	[no]
Bootp Interface Server Host Name, ppp-1		<text 0..63>	[]

Ccp Interface Enabled, ppp-1		<yes-no>	[yes]
Dhcp Server Bootpra Interface Ip Address, ppp-1		<ipaddress>	[0.0.0.0]
Dial Neighbour Answer Subaddress, ppp-1		<text 0..31>	[]
Dial Neighbour Awaiting Connection Timer, ppp-1		<numeric 0..300>	[30] (secs)
Dial Neighbour Call Autoconnect, ppp-1		<yes-no>	[no]
Dial Neighbour Call Failure Delay, ppp-1		<numeric 0..3600>	[30] (secs)
Dial Neighbour Call Retries, ppp-1		<numeric 0..100>	[5]
Dial Neighbour Call Retry Delay, ppp-1		<numeric 0..300>	[0] (secs)
Dial Neighbour Call Type, ppp-1		<dialNeiIsdnCallType>	[0]
Dial Neighbour Callback Timeout, ppp-1		<numeric 8..60>	[8] (secs)
Dial Neighbour Carrier Delay, ppp-1		<numeric 0..100>	[5] (secs)
Dial Neighbour Closed User Group, ppp-1		<text 0..32>	[]
Dial Neighbour Inactivity Timer, ppp-1		<numeric 0..7200>	[300] (secs)
Dial Neighbour Incoming Calling Number1, ppp-1		<text 0..31>	[]
Dial Neighbour Maximum Duration, ppp-1		<numeric 0..86400>	[0] (secs)
Dial Neighbour Minimum Duration, ppp-1		<numeric 0..7200>	[450] (secs)
Dial Neighbour Number Plan, ppp-1		<dialNeiAltNumPlan>	[0]
Dial Neighbour Number Type, ppp-1		<dialNeiAltNumType>	[0]
Dial Neighbour Originate Address, ppp-1		<text 0..31>	[]
Dial Neighbour Originate Subaddress, ppp-1		<text 0..31>	[]
Dial Neighbour Permission, ppp-1		<permissions>	[1]
Dial Neighbour Prioritisation Level, ppp-1		<numeric 0..255>	[0]
Dial Neighbour Received Called Address, ppp-1		<text 0..31>	[]
Dial Neighbour Received Called Subaddress, ppp-1		<text 0..31>	[]
Inventory Interface Identifier Of Line, ppp-1		<text 0..64>	[none]
Inventory Interface Identifier Of Nt, ppp-1		<text 0..64>	[none]
Inventory Interface User Defined First String, ppp-1		<text 0..64>	[none]
Inventory Interface User Defined Second		<text 0..64>	[none]

String, ppp-1			
Ip Address Translation Interface Best Guess Mapping Enabled, ppp-1		<yes-no>	[no]
Ip Address Translation Interface Default Ip Address Enabled, ppp-1		<yes-no>	[yes]
Ip Address Translation Interface Default Ip Address Value, ppp-1		<ipaddress>	[0.0.0.0]
Ip Address Translation Interface Enabled, ppp-1		<yes-no>	[no]
Ip Address Translation Interface Source Address, ppp-1		<ipaddress>	[0.0.0.0]
Ip Address Translation Interface Tcp Timeout, ppp-1		<numeric 1..180>	[30] (mins)
Ip Address Translation Interface Udp Timeout, ppp-1		<numeric 1..60>	[1] (mins)

Parameter	List Command	Selector	Default
Ip Interface Address, ppp-1		<ipaddress>	[0.0.0.0] (numbered interfaces only)
Ip Interface Address Mask, ppp-1		<ipaddress>	[255.255.255.0]
Ip Interface Bootp Enabled, ppp-1		<yes-no>	[no]
Ip Interface Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Flow Monitoring Drop Unknown Packets Enabled, ppp-1		<yes-no>	[no]
Ip Interface Flow Monitoring Enabled, ppp-1		<yes-no>	[no]
Ip Interface Icmp Mask Reply Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Icmp Mask Request Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Icmp Redirect Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Is Wan Interface, ppp-1		<yes-no>	[yes]
Ip Interface Maximum Reassembly Size, ppp-1		<numeric 64..65535>	[65535] (bytes)
Ip Interface Metric, ppp-1		<numeric 1..15>	[1]
Ip Interface Mtu, ppp-1		<numeric 64..1500>	[1500] (bytes)
Ip Interface Point To Point Link Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Remote Access Enabled, ppp-1		<yes-no>	[no]
Ip Interface Remote Address, ppp-1		<ipaddress>	[0.0.0.0] (numbered interfaces only)
Ip Interface Remote Mask, ppp-1		<ipaddress>	[255.255.255.0]
Ip Interface Rip Announce Default Route Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Rip Announce Host Route Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Rip Announce Static Route Enabled, ppp-1		<yes-no>	[no]
Ip Interface Rip Default Route Metric Override, ppp-1		<numeric 1..15>	[1]
Ip Interface Rip Learn Default Route Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Rip Learn Host Route Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Rip Periodic Updates Enabled, ppp-1		<yes-no>	[yes]

Ip Interface Rip Poison Reverse Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Rip Route Holddown Enabled, ppp-1		<yes-no>	[no]
Ip Interface Rip Send Request Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Rip Send Response Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Rip Split Horizon Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Rip Summarize Route Enabled, ppp-1		<yes-no>	[yes]
Ip Interface Rip Triggered Updates Enabled, ppp-1		<yes-no>	[no]
Ip Interface Ripv2 Authentication Type, ppp-1		<ripv2Authenticate>	[1]
Ip Interface Ripv2 Learn Sender Ip Address When Next Hop Is Invalid, ppp-1		<yes-no>	[yes]
Ip Interface Ripv2 Plain Text Password, ppp-1		<password 3..128>	[]
Ip Interface Ripv2 Receive Type, ppp-1		<ripv2ReceiveType>	[3]
Ip Interface Ripv2 Send Type, ppp-1		<ripv2SendType>	[3]
Ip Interface Tcp Largest Mss Value, ppp-1		<numeric 0..65535>	[0]
Ip Interface Unnumbered Link Enabled, ppp-1		<ipLinkType>	[no]
Ip Interface Vpn Source Network, ppp-1		<ipaddress>	[0.0.0.0]
Mp Interface Aodi Enabled, ppp-1		<yes-no>	[no]
Mp Interface Aodi Local X25 Address, ppp-1		<text 0..31>	[3529052012]
Mp Interface Aodi Remote X25 Address, ppp-1		<text 0..31>	[3529052013]
Mp Interface Aodi X25 Auto Disconnect, ppp-1		<yes-no>	[yes]
MP Interface AODI X25 Auto Disconnect Delay, ppp-1		<numeric 0..65000>	[3000] (msecs)
Mp Interface Aodi X25 Hwm, ppp-1		<numeric 0..100>	[70] (% of 1200 bytes/sec)
Mp Interface Aodi X25 Hwm Window, ppp-1		<numeric 5..120>	[20] (secs)
Mp Interface Aodi X25 Lwm, ppp-1		<numeric 0..100>	[20] (% of 8000 bytes/sec)
Mp Interface Aodi X25 Lwm Window, ppp-1		<numeric 5..86400>	[240] (secs)
Mp Interface Bacp Client Basenumber, ppp-1		<text 0..31>	[]
Mp Interface Bacp Client Callback Enabled, ppp-1		<yes-no>	[no]
Mp Interface Bacp Client Enabled, ppp-1		<yes-no>	[no]
Mp Interface Bacp Client Maximum Ldqr, ppp-1		<numeric 0..255>	[2]
Mp Interface Bacp Client Maximum Retries, ppp-1		<numeric 0..255>	[5]
Mp Interface Bacp Client Nophone Allowed, ppp-		<yes-no>	[no]

1			
Mp Interface Bacp Client Numberb1, ppp-1		<text 0..31>	[] (Only applicable when Call Back Enabled)
Mp Interface Bacp Client Numberb2, ppp-1		<text 0..31>	[] (Only applicable when Call Back Enabled)
Mp Interface Bacp Server Basenumber, ppp-1		<text 0..31>	[]
Mp Interface Bacp Server Enabled, ppp-1		<yes-no>	[no]
Mp Interface Bacp Server Numberb1, ppp-1		<text 0..31>	[]
Mp Interface Bacp Server Numberb2, ppp-1		<text 0..31>	[]
Mp Interface Enabled, ppp-1		<yes-no>	[no]
Mp Interface Endpoint Discriminator Usage Enabled, ppp-1		<yes-no>	[yes]
Mp Interface Hwm, ppp-1		<numeric 0..100>	[90] (% of 8000 bytes/sec)
Mp Interface Hwm Window, ppp-1		<numeric 5..120>	[20] (secs)
Mp Interface Local Mrru, ppp-1		<numeric 454..1560>	[1524]
Mp Interface Lwm, ppp-1		<numeric 0..100>	[55] (% of 16000 bytes/sec)
Mp Interface Lwm Window, ppp-1		<numeric 5..86400>	[240] (secs)
Mp Interface Originate Directory Number2, ppp-1		<text 0..31>	[]
Mp Interface Remote Mrru, ppp-1		<numeric 454..1560>	[1500]
Mp Interface Switch Retry, ppp-1		<numeric 15..300>	[25] (secs)
Ppp Interface Asynchronous Link Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Automatic Detection Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Dns Ip Address, ppp-1		<ipaddress>	[0.0.0.0]
Ppp Interface Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Identifier String, ppp-1		<text 0..32>	[]
Ppp Interface Ip Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Local Option Ccp Stacker Lzs Compression Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Local Option Ccp Stacker Lzs Compression Negotiable Enabled, ppp-1		<yes-no>	[yes]

Ppp Interface Local Option Ccp Stacker Lzs Compression Negotiation Required Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Local Option Ccp Stacker Lzs Compression Value, ppp-1		<PppStackerCompFlag>	[000104]
Ppp Interface Local Option Chap Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Chap Negotiable Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Chap Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Ipcp Address Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Ipcp Address Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Local Option Ipcp Address Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Ipcp Address Value, ppp-1		<ipaddress>	[0.0.0.0]
Ppp Interface Local Option Ipcp Ip Compression Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Ipcp Ip Compression Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Local Option Ipcp Ip Compression Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Ipcp Ip Compression Value, ppp-1		<PppIpcpCompFlag>	[002d0f01]
Ppp Interface Local Option Ipcp Primary Dns Address Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Ipcp Primary Dns Address Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Local Option Ipcp Primary Dns Address Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Ipcp Primary Dns Address Value, ppp-1		<ipaddress>	[0.0.0.0]
Ppp Interface Local Option Ipcp Secondary Dns Address Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Local Option Ipcp Secondary Dns Address Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Local Option Ipcp Secondary Dns		<yes-no>	[no]

Address Negotiation Required Enabled, ppp-1			
Ppp Interface Local Option Ipcp Secondary Dns Address Value, ppp-1		\<ipaddress>	[0.0.0.0]
Ppp Interface Local Option Lcp Accm Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Lcp Accm Negotiable Enabled, ppp-1		\<yes-no>	[yes]
Ppp Interface Local Option Lcp Accm Negotiation Required Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Lcp Accm Value, ppp-1		\<text 8..8>	[00000000]
Ppp Interface Local Option Lcp Magic Number Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Lcp Magic Number Negotiable Enabled, ppp-1		\<yes-no>	[yes]
Ppp Interface Local Option Lcp Magic Number Negotiation Required Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Lcp Magic Number Value, ppp-1		\<text 8..8>	[00000000]
Ppp Interface Local Option Lcp Mru Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Lcp Mru Negotiable Enabled, ppp-1		\<yes-no>	[yes]
Ppp Interface Local Option Lcp Mru Negotiation Required Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Lcp Mru Value, ppp-1		\<numeric 0..1580>	[1518]
Ppp Interface Local Option Lcp Protocol Field Compression Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Lcp Protocol Field Compression Negotiable Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Lcp Protocol Field Compression Negotiation Required Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Pap Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Pap Negotiable Enabled, ppp-1		\<yes-no>	[no]
Ppp Interface Local Option Pap Negotiation Required Enabled, ppp-1		\<yes-no>	[no]

Ppp Interface Maximum Number Of Authentication Retries, ppp-1		<numeric 0..64>	[3]
Ppp Interface Maximum Receive Unit, ppp-1		<numeric 512..1524>	[1524] (bytes)
Ppp Interface Maximum Remote Receive Unit, ppp-1		<numeric 512..1524>	[1524] (bytes)
Ppp Interface Periodic Authentication Timer, ppp-1		<numeric 0..3600>	[60] (secs)
Ppp Interface Poe Access Name, ppp-1		<text 1..20>	[]
Ppp Interface Poe Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Poe Service Name, ppp-1		<text 0..20>	[]
Ppp Interface Poe Type, ppp-1		<PPPoEType>	[Host]
Ppp Interface Remote Option Ccp Stacker Lzs Compression Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Remote Option Ccp Stacker Lzs Compression Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Remote Option Ccp Stacker Lzs Compression Negotiation Required Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Remote Option Ccp Stacker Lzs Compression Value, ppp-1		<PppStackerCompFlag>	[000104]
Ppp Interface Remote Option Chap Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Chap Negotiable Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Chap Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Ipcp Address Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Ipcp Address Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Remote Option Ipcp Address Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Ipcp Address Value, ppp-1		<ipaddress>	[0.0.0.0]
Ppp Interface Remote Option Ipcp Ip Compression Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Ipcp Ip Compression Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Remote Option Ipcp Ip		<yes-no>	[no]

Compression Negotiation Required Enabled, ppp-1			
Ppp Interface Remote Option Ipcp Ip Compression Value, ppp-1		<PppIpcpCompFlag>	[002D0F01]
Ppp Interface Remote Option Ipcp Primary Dns Address Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Ipcp Primary Dns Address Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Remote Option Ipcp Primary Dns Address Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Ipcp Primary Dns Address Value, ppp-1		<ipaddress>	[0.0.0.0]
Ppp Interface Remote Option Ipcp Secondary Dns Address Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Ipcp Secondary Dns Address Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Remote Option Ipcp Secondary Dns Address Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Ipcp Secondary Dns Address Value, ppp-1		<ipaddress>	[0.0.0.0]
Ppp Interface Remote Option Lcp Accm Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Lcp Accm Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Remote Option Lcp Accm Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Lcp Accm Value, ppp-1		<text 8..8>	[00000000]
Ppp Interface Remote Option Lcp Magic Number Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Lcp Magic Number Negotiable Enabled, ppp-1		<yes-no>	[yes]
Ppp Interface Remote Option Lcp Magic Number Negotiation Required Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Lcp Magic Number Value, ppp-1		<text 8..8>	[00000000]
Ppp Interface Remote Option Lcp Mru Enabled, ppp-1		<yes-no>	[no]
Ppp Interface Remote Option Lcp Mru Negotiable		<yes-no>	[yes]

Enabled, ppp-1			
Ppp Interface Remote Option Lcp Mru Negotiation Required Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Remote Option Lcp Mru Value, ppp-1		`<numeric 0..1580>`	`[1518]`
Ppp Interface Remote Option Lcp Protocol Field Compression Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Remote Option Lcp Protocol Field Compression Negotiable Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Remote Option Lcp Protocol Field Compression Negotiation Required Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Remote Option Pap Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Remote Option Pap Negotiable Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Remote Option Pap Negotiation Required Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Remote User Encrypted Password, ppp-1		`<password 0..126>`	`[]`
Ppp Interface Remote User Name, ppp-1		`<text 0..63>`	`[]`
Ppp Interface Secondary Dns Ip Address, ppp-1		`<ipaddress>`	`[0.0.0.0]`
Ppp Interface Send Identifier String Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Send Time Remaining Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Stp Enabled, ppp-1		`<yes-no>`	`[no]`
Ppp Interface Time To Send Lqr, ppp-1		`<numeric 0..3600>`	`[0]` (secs)
Ppp Interface User Encrypted Password, ppp-1		`<password 0..126>`	`[]`
Ppp Interface User Name, ppp-1		`<text 0..63>`	`[]`
Ppp Interface Wan Interface, ppp-1		`<wanInterface>`	`[idsl-0]`
Toll Mizer Interface Outgoing Enabled, ppp-1		`<yes-no>`	`[no]`
Vjc Interface Enabled, ppp-1		`<yes-no>`	`[yes]`
Vjc Interface Maximum Number Of Receive Connection States, ppp-1		`<numeric 0..255>`	`[15]`
Vjc Interface Maximum Number Of Transmit Connection States, ppp-1		`<numeric 0..255>`	`[15]`
Vjc Interface Receive Connection Identifier Compression Enabled, ppp-1		`<yes-no>`	`[no]`

Vjc Interface Transmit Connection Identifier Compression Enabled, ppp-1		<yes-no>	[no]

5.3.4   AAL5 inteface commands

Parameter	List Command	Selector	Default
Aal5 Diip Continuity Checking Enabled		<yes-no>	[no]
Aal5 Diip Maximum Retries		<numeric 0..999999>	[3]
Aal5 Diip Retry Delay		<numeric 0..999999>	[120]
Aal5 Diip Timeout		<numeric 0..999999>	[3]
Aal5 Remote Loopback Enabled		<yes-no>	[no]
Aal5 Remote Loopback Vci		<numeric 0..65535>	[21]
Aal5 Remote Loopback Vpi		<numeric 0..255>	[0]
Aal5 System Enabled		<yes-no>	[yes]
Aal5 Interface Diip Enabled, aal5-1		<yes-no>	[no]
Aal5 Interface Downstream Maximum Latency, aal5-1		<text 0..20>	[1000] (ms)
Aal5 Interface Downstream Peak Cell Rate, aal5-1		<text 0..20>	[0]
Aal5 Interface Enabled, aal5-1		<yes-no>	[no]
Aal5 Interface Encapsulation, aal5-1		<aal5-Encap>	[bridged1483]
Aal5 Interface Oam Continuity Checking Enabled, aal5-1		<yes-no>	[yes]
Aal5 Interface Oam Loopback Enabled, aal5-1		<yes-no>	[yes]
Aal5 Interface Oam Loopback Request Interval, aal5-1		<numeric 0..10000>	[3] (seconds)
Aal5 Interface Oam Loopback Request Timeout, aal5-1		<numeric 0..10000>	[10] (seconds)
Aal5 Interface Oam Maximum Unacknowledged Loopback Requests, aal5-1		<numeric 0..65535>	[10]
Aal5 Interface Peak Cell Rate, aal5-1		<numeric 0..20000>	[5000] (cells/s)
Aal5 Interface Reassembly Timeout, aal5-1		<numeric 0..65535>	[10] (seconds)
Aal5 Interface Type, aal5-1		<aal5InterfaceType>	[1]
Aal5 Interface Vci, aal5-1		<numeric 0..65535>	[35]
Aal5 Interface Vpi, aal5-1		<numeric 0..255>	[0]

5.3.5   Frame relay interface commands

Parameter	List Command	Selector	Default
Frame Relay Interface Automatic Detection Enabled, FRLINK-1		`<yes-no>`	`[no]`
Frame Relay Interface Enabled, FRLINK-1		`<yes-no>`	`[no]`
Frame Relay Interface Encapsulation Type, FRLINK-1		`<frEncapsulationType>`	`[Rfc1490]`
Frame Relay Interface Error Threshold, FRLINK-1		`<numeric 0..255>`	`[3]`
Frame Relay Interface Full Enquiry Interval, FRLINK-1		`<numeric 0..255>`	`[6]`
Frame Relay Interface Group Of Four Mode Congestion Management Enabled, FRLINK-1		`<yes-no>`	`[no]`
Frame Relay Interface Ip Snap Enabled, FRLINK-1		`<yes-no>`	`[no]`
Frame Relay Interface Lmi Enabled, FRLINK-1		`<yes-no>`	`[yes]`
Frame Relay Interface Lmi Mode, FRLINK-1		`<lmiMode>`	`[Annex_d_bidirect ional]`
Frame Relay Interface Maximum Frame Size, FRLINK-1		`<numeric 5..65535>`	`[1620]`
Frame Relay Interface Minimum Frame Size, FRLINK-1		`<numeric 5..65535>`	`[5]`
Frame Relay Interface Monitor Events, FRLINK-1		`<numeric 0..255>`	`[4]`
Frame Relay Interface Polling Interval, FRLINK-1		`<numeric 0..255>`	`[10]`
Frame Relay Interface Polling Verification Timer Interval, FRLINK-1		`<numeric 0..255>`	`[15]`
Frame Relay Interface Wan Interface, FRLINK-1		`<FrRlyWanInterface>`	`[idsl-0]`
Link Protocol Detection Enabled		`<yes-no>`	`[no]`
Inventory Interface Identifier Of Line, FRLINK-1		`<text 0..64>`	`[none]`
Inventory Interface Identifier Of Nt, FRLINK-1		`<text 0..64>`	`[none]`
Inventory Interface User Defined First		`<text 0..64>`	`[none]`

String, FRLINK-1			
Inventory Interface User Defined Second String, FRLINK-1		<text 0..64>	[none]
Bootp Interface Accept Server Assigned Ip Address, FR1-DLCI-1		<yes-no>	[no]
Bootp Interface Enable Server Host Name, FR1-DLCI-1		<yes-no>	[yes]
Bootp Interface Enabled, FR1-DLCI-1		<yes-no>	[no]
Bootp Interface Server Host Name, FR1-DLCI-1		<text 0..63>	[]
Dhcp Server Bootpra Interface Ip Address, FR1-DLCI-1		<ipaddress>	[0.0.0.0]
Frame Relay Pvc Endpoint Dlci, FR1-DLCI-1		<numeric 16..991>	[0]
Frame Relay Pvc Endpoint Dlci Detection Enabled, FR1-DLCI-1		<yes-no>	[no]
Frame Relay Pvc Endpoint Inverse Arp For Ip Enabled, FR1-DLCI-1		<yes-no>	[no]
Inventory Interface Identifier Of Line, FR1-DLCI-1		<text 0..64>	[none]
Inventory Interface Identifier Of Nt, FR1-DLCI-1		<text 0..64>	[none]
Inventory Interface User Defined First String, FR1-DLCI-1		<text 0..64>	[none]
Inventory Interface User Defined Second String, FR1-DLCI-1		<text 0..64>	[none]
Ip Address Translation Interface Best Guess Mapping Enabled, FR1-DLCI-1		<yes-no>	[no]
Ip Address Translation Interface Default Ip Address Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Address Translation Interface Default Ip Address Value, FR1-DLCI-1		<ipaddress>	[0.0.0.0]
Ip Address Translation Interface Enabled, FR1-DLCI-1		<yes-no>	[no]
Ip Address Translation Interface Source Address, FR1-DLCI-1		<ipaddress>	[0.0.0.0]
Ip Address Translation Interface Tcp Timeout, FR1-DLCI-1		<numeric 1..180>	[30] (mins)
Ip Address Translation Interface Udp Timeout, FR1-DLCI-1		<numeric 1..60>	[1] (mins)

Ip Interface Address, FR1-DLCI-1		<ipaddress>	[0.0.0.0] (numbered interfaces only)
Ip Interface Address Mask, FR1-DLCI-1		<ipaddress>	[255.255.255.0]
Ip Interface Bootp Enabled, FR1-DLCI-1		<yes-no>	[no]
Ip Interface Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Flow Monitoring Drop Unknown Packets Enabled, FR1-DLCI-1		<yes-no>	[no]
Ip Interface Flow Monitoring Enabled, FR1-DLCI-1		<yes-no>	[no]
Ip Interface Icmp Mask Reply Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Icmp Mask Request Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Icmp Redirect Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Is Wan Interface, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Maximum Reassembly Size, FR1-DLCI-1		<numeric 64..65535>	[65535] (bytes)
Ip Interface Metric, FR1-DLCI-1		<numeric 1..15>	[1]
Ip Interface Mtu, FR1-DLCI-1		<numeric 64..1500>	[1500] (bytes)
Ip Interface Point To Point Link Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Remote Access Enabled, FR1-DLCI-1		<yes-no>	[no]
Ip Interface Remote Address, FR1-DLCI-1		<ipaddress>	[0.0.0.0] (numbered interfaces only)
Ip Interface Remote Mask, FR1-DLCI-1		<ipaddress>	[255.255.255.0]
Ip Interface Rip Announce Default Route Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Rip Announce Host Route Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Rip Announce Static Route Enabled, FR1-DLCI-1		<yes-no>	[no]
Ip Interface Rip Default Route Metric Override, FR1-DLCI-1		<numeric 1..15>	[1]
Ip Interface Rip Learn Default Route Enabled, FR1-DLCI-1		<yes-no>	[yes]

Ip Interface Rip Learn Host Route Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Rip Periodic Updates Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Rip Poison Reverse Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Rip Route Holddown Enabled, FR1-DLCI-1		<yes-no>	[no]
Ip Interface Rip Send Request Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Rip Send Response Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Rip Split Horizon Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Rip Summarize Route Enabled, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Rip Triggered Updates Enabled, FR1-DLCI-1		<yes-no>	[no]
Ip Interface Ripv2 Authentication Type, FR1-DLCI-1		<ripv2Authenticate>	[1]
Ip Interface Ripv2 Learn Sender Ip Address When Next Hop Is Invalid, FR1-DLCI-1		<yes-no>	[yes]
Ip Interface Ripv2 Plain Text Password, FR1-DLCI-1		<password 3..128>	[]
Ip Interface Ripv2 Receive Type, FR1-DLCI-1		<ripv2ReceiveType>	[3]
Ip Interface Ripv2 Send Type, FR1-DLCI-1		<ripv2SendType>	[3]
Ip Interface Tcp Largest Mss Value, FR1-DLCI-1		<numeric 0..65535>	[0]
Ip Interface Unnumbered Link Enabled, FR1-DLCI-1		<ipLinkType>	[no]
Ip Interface Vpn Source Network, FR1-DLCI-1		<ipaddress>	[0.0.0.0]

5.3.6   Bridge interface commands

Parameter	List Command	Selector	Default
`Inventory Interface Identifier Of Line,` `bridge-1`		`<text 0..64>`	`[none]`
`Inventory Interface Identifier Of Nt,` `bridge-1`		`<text 0..64>`	`[none]`
`Inventory Interface User Defined First` `String, bridge-1`		`<text 0..64>`	`[none]`
`Inventory Interface User Defined Second` `String, bridge-1`		`<text 0..64>`	`[none]`
`Ip Address Translation Interface Best` `Guess Mapping Enabled, bridge-1`		`<yes-no>`	`[no]`
`Ip Address Translation Interface Default` `Ip Address Enabled, bridge-1`		`<yes-no>`	`[yes]`
`Ip Address Translation Interface Default` `Ip Address Value, bridge-1`		`<ipaddress>`	`[0.0.0.0]`
`Ip Address Translation Interface Enabled,` `bridge-1`		`<yes-no>`	`[no]`
`Ip Address Translation Interface Source` `Address, bridge-1`		`<ipaddress>`	`[0.0.0.0]`
`Ip Address Translation Interface Tcp` `Timeout, bridge-1`		`<numeric 1..180>`	`[30] (mins)`
`Ip Address Translation Interface Udp` `Timeout, bridge-1`		`<numeric 1..60>`	`[1] (mins)`

`Ip Interface Address, bridge-1`		`<ipaddress>`	`[0.0.0.0]`
			`(numbered`
			`interfaces only)`

`Ip Interface Address Mask, bridge-1`		`<ipaddress>`	`[255.255.255.0]`
`Ip Interface Arp Aging Timeout, bridge-1`		`<numeric 0..3600>`	`[0] (mins)`
`Ip Interface Arp Enabled, bridge-1`		`<yes-no>`	`[no]`
`Ip Interface Arp Number Of` `Retransmissions, bridge-1`		`<numeric 0..100>`	`[1]`
`Ip Interface Arp Reply Timeout, bridge-1`		`<numeric 0..180>`	`[60] (secs)`
`Ip Interface Bootp Enabled, bridge-1`		`<yes-no>`	`[no]`
`Ip Interface Enabled, bridge-1`		`<yes-no>`	`[yes]`
`Ip Interface Flow Monitoring Drop Unknown` `Packets Enabled, bridge-1`		`<yes-no>`	`[no]`
`Ip Interface Flow Monitoring Enabled,` `bridge-1`		`<yes-no>`	`[no]`

Ip Interface Icmp Mask Reply Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Icmp Mask Request Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Icmp Redirect Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Is Wan Interface, bridge-1		<yes-no>	[yes]
Ip Interface Maximum Reassembly Size, bridge-1		<numeric 64..65535>	[65535] (bytes)
Ip Interface Metric, bridge-1		<numeric 1..15>	[1]
Ip Interface Mtu, bridge-1		<numeric 64..1500>	[1500] (bytes)
Ip Interface Point To Point Link Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Remote Access Enabled, bridge-1		<yes-no>	[no]
Ip Interface Remote Address, bridge-1		<ipaddress>	[0.0.0.0] (numbered interfaces only)
Ip Interface Remote Mask, bridge-1		<ipaddress>	[255.255.255.0]
Ip Interface Rip Announce Default Route Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Rip Announce Host Route Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Rip Announce Static Route Enabled, bridge-1		<yes-no>	[no]
Ip Interface Rip Default Route Metric Override, bridge-1		<numeric 1..15>	[1]
Ip Interface Rip Learn Default Route Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Rip Learn Host Route Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Rip Periodic Updates Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Rip Poison Reverse Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Rip Route Holddown Enabled, bridge-1		<yes-no>	[no]
Ip Interface Rip Send Request Enabled, bridge-1		<yes-no>	[yes]

Ip Interface Rip Send Response Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Rip Split Horizon Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Rip Summarize Route Enabled, bridge-1		<yes-no>	[yes]
Ip Interface Rip Triggered Updates Enabled, bridge-1		<yes-no>	[no]
Ip Interface Ripv2 Authentication Type, bridge-1		<ripv2Authenticate>	[1]
Ip Interface Ripv2 Learn Sender Ip Address When Next Hop Is Invalid, bridge-1		<yes-no>	[yes]
Ip Interface Ripv2 Plain Text Password, bridge-1		<password 3..128>	[]
Ip Interface Ripv2 Receive Type, bridge-1		<ripv2ReceiveType>	[3]
Ip Interface Ripv2 Send Type, bridge-1		<ripv2SendType>	[3]
Ip Interface Tcp Largest Mss Value, bridge-1		<numeric 0..65535>	[0]
Ip Interface Unnumbered Link Enabled, bridge-1		<ipLinkType>	[no]
Ip Interface Vpn Source Network, bridge-1		<ipaddress>	[0.0.0.0]
Level2 Interface Enabled, bridge-1		<yes-no>	[no]
Level2 Interface Wan Interface, bridge-1		<aal5Interface>	[Aal5-1]
Spanning Tree Interface Maximum Frame Size, bridge-1		<numeric 0..1600>	[1560]
Spanning Tree Interface State, bridge-1		<bridging_state>	[no]
Spanning Tree Interface Wan Enabled, bridge-1		<yes-no>	[no]
Inventory Interface Identifier Of Line, serial-0		<text 0..64>	[none]
Inventory Interface Identifier Of Nt, serial-0		<text 0..64>	[none]
Inventory Interface User Defined First String, serial-0		<text 0..64>	[none]
Inventory Interface User Defined Second String, serial-0		<text 0..64>	[none]
Serial Interface Asynchronous Flow Control Enabled, serial-0		<yes-no>	[no]

Level2 System Enabled		<yes-no>	[no]

5.3.7   Serial interface commands

Parameter	List Command	Selector	Default
Serial Interface Asynchronous Maximum Idle Period, serial-0		<numeric 0..2000>	[10] (ms)
Serial Interface Asynchronous Speed, serial-0		<asyncSpeed>	[9600]
Serial Interface Data, serial-0		<databits>	[8]
Serial Interface Gsm12 Apn, serial-0		<text 0..64>	[isp.vodaphone.ie]
Serial Interface Gsm12 Carrier Board Enabled, serial-0		<yes-no>	[no]
Serial Interface Gsm12 Connection Type, serial-0		<GSM_ConnectionType>	[gprs]
Serial Interface Gsm12 Enabled, serial-0		<yes-no>	[no]
Serial Interface Gsm12 Pin, serial-0		<text 0..4>	[0000]
Serial Interface Gsm12 Pin2, serial-0		<text 0..4>	[0000]
Serial Interface Gsm12 Puk, serial-0		<text 0..4>	[0000]
Serial Interface Gsm12 Puk2, serial-0		<text 0..4>	[0000]
Serial Interface Gsm12 Signal Quality Poll Time, serial-0		<numeric 0..65535>	[0] (secs)
Serial Interface Parity, serial-0		<paritybits>	[None]
Serial Interface Stop, serial-0		<stopbits>	[1]
Serial Interface Synchronous Clock Mode, serial-0		<ClockMode>	[Sink]
Serial Interface Synchronous Clock Phase, serial-0		<ClockPhase>	[Auto]
Serial Interface Synchronous Enabled, serial-0		<yes-no>	[yes]
Serial Interface Synchronous Mode, serial-0		<syncMode>	[X21]
Serial Interface Synchronous Speed, serial-0		<numeric 0..256000>	[64000]
Serial Interface Asynchronous Flow Control Enabled, serial-1		<yes-no>	[no]

Serial Interface Asynchronous Maximum Idle Period, serial-1		<numeric 0..2000>	[10] (ms)
Serial Interface Asynchronous Speed, serial-1		<asyncSpeed>	[9600]
Serial Interface Data, serial-1		<databits>	[8]
Serial Interface Parity, serial-1		<paritybits>	[None]
Serial Interface Stop, serial-1		<stopbits>	[1]
Serial Interface Synchronous Clock Mode, serial-1		<ClockMode>	[Sink]
Serial Interface Synchronous Clock Phase, serial-1		<ClockPhase>	[Auto]
Serial Interface Synchronous Enabled, serial-1		<yes-no>	[yes]
Serial Interface Synchronous Mode, serial-1		<syncMode>	[X21]
Serial Interface Synchronous Speed, serial-1		<numeric 0..256000>	[64000]

5.3.8   GRE interface commands

Parameter	List Command	Selector	Default
Gre Interface Enabled, gre-1		<yes-no>	[no]
Gre Interface Local IP Address, gre-1		<ipaddress>	[0.0.0.0]
GRE Interface Name, gre-1		<text 0..64>	[]
Gre Interface Remote IP Address, gre-1		<ipaddress>	[0.0.0.0]
Gre Interface Timeout, gre-1		<numeric 0..86400>	[600] (secs)
Inventory Interface Identifier Of Line, gre-1		<text 0..64>	[none]
Inventory Interface Identifier Of Nt, gre-1		<text 0..64>	[none]
Inventory Interface User Defined First String, gre-1		<text 0..64>	[none]
Inventory Interface User Defined Second String, gre-1		<text 0..64>	[none]
Ip Address Translation Interface Best Guess Mapping Enabled, gre-1		<yes-no>	[no]
Ip Address Translation Interface Default		<yes-no>	[yes]

Ip Address Enabled, gre-1			
Ip Address Translation Interface Default Ip Address Value, gre-1		<ipaddress>	[0.0.0.0]
Ip Address Translation Interface Enabled, gre-1		<yes-no>	[no]
Ip Address Translation Interface Source Address, gre-1		<ipaddress>	[0.0.0.0]
Ip Address Translation Interface Tcp Timeout, gre-1		<numeric 1..180>	[30] (mins)
Ip Address Translation Interface Udp Timeout, gre-1		<numeric 1..60>	[1] (mins)
Ip Interface Address Mask, gre-1		<ipaddress>	[255.255.255.0]
Ip Interface Address, gre-1		<ipaddress>	[0.0.0.0] (numbered interfaces only)
Ip Interface Bootp Enabled, gre-1		<yes-no>	[no]
Ip Interface Enabled, gre-1		<yes-no>	[yes]
Ip Interface Flow Monitoring Drop Unknown Packets Enabled, gre-1		<yes-no>	[no]
Ip Interface Flow Monitoring Enabled, gre-1		<yes-no>	[no]
Ip Interface Icmp Mask Reply Enabled, gre-1		<yes-no>	[yes]
Ip Interface Icmp Mask Request Enabled, gre-1		<yes-no>	[yes]
Ip Interface Icmp Redirect Enabled, gre-1		<yes-no>	[yes]
Ip Interface Is Wan Interface, gre-1		<yes-no>	[yes]
Ip Interface Maximum Reassembly Size, gre-1		<numeric 64..65535>	[65535] (bytes)
Ip Interface Metric, gre-1		<numeric 1..15>	[1]
Ip Interface Mtu, gre-1		<numeric 64..1500>	[1500] (bytes)
Ip Interface Point To Point Link Enabled, gre-1		<yes-no>	[yes]
Ip Interface Remote Access Enabled, gre-1		<yes-no>	[no]
Ip Interface Remote Address, gre-1		<ipaddress>	[0.0.0.0] (numbered interfaces only)
Ip Interface Remote Mask, gre-1		<ipaddress>	[255.255.255.0]

Ip Interface Rip Announce Default Route Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Announce Host Route Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Announce Static Route Enabled, gre-1		<yes-no>	[no]
Ip Interface Rip Default Route Metric Override, gre-1		<numeric 1..15>	[1]
Ip Interface Rip Learn Default Route Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Learn Host Route Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Periodic Updates Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Poison Reverse Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Route Holddown Enabled, gre-1		<yes-no>	[no]
Ip Interface Rip Send Request Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Send Response Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Split Horizon Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Summarize Route Enabled, gre-1		<yes-no>	[yes]
Ip Interface Rip Triggered Updates Enabled, gre-1		<yes-no>	[no]
Ip Interface Ripv2 Authentication Type, gre-1		<ripv2Authenticate>	[1]
Ip Interface Ripv2 Learn Sender Ip Address When Next Hop Is Invalid, gre-1		<yes-no>	[yes]
Ip Interface Ripv2 Plain Text Password, gre-1		<password 3..128>	[]
Ip Interface Ripv2 Receive Type, gre-1		<ripv2ReceiveType>	[3]
Ip Interface Ripv2 Send Type, gre-1		<ripv2SendType>	[3]
Ip Interface Tcp Largest Mss Value, gre-1		<numeric 0..65535>	[0]
Ip Interface Unnumbered Link Enabled, gre-1		<ipLinkType>	[no]

Ip Interface Vpn Source Network, gre-1		<ipaddress>	[0.0.0.0]

5.3.9 Modem interface commands

Parameter	List Command	Selector	Default
Modem Interface Enabled, modem-0		<yes-no>	[yes]

5.3.10 ADSL interface commands

Parameter	List Command	Selector	Default
Adsl Interface Ber Enabled, adsl-0		<yes-no>	[no]
Adsl Interface Connection Mode, adsl-0		<adslconnectionmode>	[Auto]
Adsl Interface Dying Gasp Enabled, adsl-0		<yes-no>	[no]
Adsl Interface Enabled, adsl-0		<yes-no>	[yes]
Adsl Interface Maximum Error Count, adsl-0		<numeric 0..999999>	[5]
Adsl Interface ReOn Error, adsl-0		<yes-no>	[yes]
Adsl Interface Trellis Enabled, adsl-0		<yes-no>	[yes]

5.3.11 T1E1 interface commands

Parameter	List Command	Selector	Default
T1e1 Interface Enabled, t1e1-0		<yes-no>	[no]
T1e1 Interface Frame Format, t1e1-0		<E1T1_FrameExtra>	[mff]
T1e1 Interface Line Code, t1e1-0		<E1T1_CODE>	[HDB3]
T1e1 Interface Long Haul Mode Enabled, t1e1-0		<yes-no>	[no]
T1e1 Interface PCM Mode, t1e1-0		<E1T1_PCMMode>	[e1mode]
T1e1 Interface Speed, t1e1-0		<E1T1_Speed>	[1984] (Kbps)
T1e1 Interface Timeslot Mask, t1e1-0		<text 0..8>	[7FFFFFFF] (hex)
T1e1 Interface Transmit Pulse Mask, t1e1-0		<text 0..6>	[000000] (hex)

5.3.12 G.DHDSL interface commands

Parameter	List Command	Selector	Default
Sdsl Interface Speed, sdsl-0		<sdslSpeed>	[160k]
Sdsl Interface Type, sdsl-0		<sdslType>	[htur]

5.3.13   VDSL interface commands

Parameter	List Command	Selector	Default
Vdsl Interface Enabled, vdsl-0		<yes-no>	[yes]

6 Monitoring the router

The commands in this section help you get started with monitoring the router through the command line interface.

6.1 Show active calls command

show active connections

Display current active connections with negotiated parameters negotiated parameters.

`super> show active connections`

```
My ADSL connection,ppp-1,Fixed ADSL,G.DMT / Interleaved,Data Up,5120 Kbps /
512 Kbps,,,,,Oct 15 2006
13:10:02,262:23:05,1233512,113769637,2296943,285189305,10.1.10.193:0,www.go
ogle.com:0 ICMP,62.77.191.193,
```

```
,,,,,,,,,,,,,,,,,
,,,,,,,,,,,,,,,,,
,,,,,,,,,,,,,,,,,
,,,,,,,,,,,,,,,,,
,,,,,,,,,,,,,,,,,
,,,,,,,,,,,,,,,,,
,,,,,,,,,,,,,,,,,
```

Figure 14: An example of the show active connections command

show active feature key

Display the status of the currently installed feature key showing what facilities have been enabled and when the support window closes.

show active filters

Display the details of the ip filters defined on the box.

Show active filter

Display the details of a particular ip filter defined on the box by the filter id.

show active triggers

Display the details of all bandwidth trigger defined on the box.

show active trigger

Display the details of a particular bandwidth trigger based on trigger id.

show active triggers

Display the details of all bandwidth trigger defined on the box.

show active usage monitors

Display the details of all useage monitors defined on the box. Useage monitor are monitors defined to measure the amount of data of a particular type that passes through the box

show active usage monitor

Display the details of a particular useage monitor based on its id.

`show active virtual routes`

Display the details of all virtual routes defined on the box.

`show active virtual route`

Display the details of a particular virtual route based on its id.

`show active voice call`

Display the VoIP call streams currently active.

`show active voice calls`

Display the VOIP call streams currently active.

6.2 Show adsl command

`show adsl carrier load`

?

`show adsl web carrier load`

?

`show adsl graph`

Display the ADSL spectrum for the currently connected ADSL line. Used to identify causes of interference that may be affecting reach/bandwidth.

`show adsl info`

Display ADSL ststistics for the line such as the signal to rise ratio and upstream and downstream bandwidths to which it has trained.

`show adsl log`

Display ADSL connection log for the ADSLline show time connected and disconnected.

6.3 Show all commands

`show alternate image`

Display the name of alternative image (Image 1, Image2)

`show alternate config`

Display the name of alternative config (Confg1, Config2)

`show altimage`

Display the name of alternative image (Image 1, Image2)

`show altconfig`

Display the name of alternative config (Confg1, Config2)

show arp

Show arp tail of devices that have contacted the device to its Ethernets

show autoload maximum number of entries

Display the maximum number of files to be downloaded during an activation

show autoload state

Display the current activation state (Downloading, idle)

show bootp client info

Display the Bootp status. For example, whether a bootp request has been serviced and what information was offered.

show both committed configs

Show both config1and Config2 contents.

show buffers

Show status of buffer useage. This command is used to diagnose if the router is moving into a congested state when data is backing up in the router and backing up buffers.

show build option

Displays low-level build information on whether certain options have been compiled out.

show call active

?

show call history

Display ISDN call history. For example, when calls were established, how long the call lasted and when the call was finished. Also indicates whether the call was incoming or outging.

show capabilities

Show device capabilities. ISDN, SERAL, VPN, ADSL, ACCELERATION or VPN, VpN licensed.

show caps

Show device capabilities. ISDN, SERAL, VPN, ADSL, ACCELERATION or VPN, VpN licensed.

show changed

Display configuration changes.

show changes

Display configuration changes.

show command

Display command list

show commands

Display command list

show commit config

Display command list

show committed config

Display committed config

show config script

 Show script defined within config file.

show conlog

Show low-level console log that is used for detailed diagnostics. Very CPU intensive.

show console speed

Display the speed set for the internal console connector.

show cpu speed

Display the speed of the processor in the box.

show cpu usage

Display the percentage of CPU capacity is in use.

show crashlog

Show detailed rash log that can bdecoded by VA for detailed diagnostics of crash location. This command may not always give good insight to issue for some crashes.

show current config

Displays the current config

show current image

Displays the current image

show date

Displays the current date

show dhcp client info

Displays details of the DHCP client.

```
super> show dhcp client info
Client address   0.0.0.0
Subnet mask      0.0.0.0
Gateway address  0.0.0.0
Server address   0.0.0.0
DNS address      0.0.0.0
Interface        eth-1
MAC address      00-E0-C8-80-B0-9E
Host name        va-router
Lease obtained   none
Lease duration   none
Lease remaining  none
Current status   Disabled
```

Figure 15: An example of the show dhcp client info command

show dhcp list

List of addresses ranges provided by DHCP.

show dhcp nvram

Display the information stored in nn-valatile memory to be retrieved following a reload.

show dial control state

Give an indication of the current point that the dial control is at in its state tale for diagnosing all setup issues.

show diffserv queue statistic

Display counts for the Diffserv queues defined on the box and the amount of data that has been passed through each queue.

show diffserv queues

Diplays the criteria for each of the difserv queues defined on the box.

show diffserv stats

Display counts for the Diffserv queues defined on the box and the amount of data that as been passed through each queue.

```
super> show diffserv stats

Queue    Interface       Cur Pkt Cur-KB  Min-KB  Max-KB  Dropped Drop-KB
RED-KB
-----    ---------       ------- ------  ------  ------  ------- ------- ---
---
 1.      aal5-1          0       0       4618    0       0       0       0
 2.      aal5-1          0       0       108     0       0       0       0
 3.      eth-0           0       0       97      0       0       0       0
 4.      eth-0           0       0       0       5776    0       0       0


super>
```

Figure 16: An example of the show diffserv stats command

show dns domain list

Displays a list of the domain names resolved and stored in DNS cache.

show dns callout list

?

show dns static list

Display a list of the domain name to ip address resolutins pre-defined into the box.

show ds queues

```
?Show details of the diffserv queues.
super> show ds queues
Queue    Interface       Pri     Min bps MinSize Max bps MaxSize Depth
MarkTOS
-----    ---------       ---     ------- ------- ------- ------- -----   ---
 1.      aal5-1          1       0       0       0       0       32000
-
 2.      aal5-1          2       0       0       0       0       32000
-
```

```
 3.      eth-0            1       0       0       0        0       32000
-
 4.      eth-0            2       0       0       2000000 50000   32000
-
```

Figure 17: An example of the show ds queues command

show ds stats

as diffserv queues

show download bytes transferred

Display the number of bytes already downloaded in the current download operation

show download file

Dislay the current or last file downloaded.

show download result

Display the status of the last download.

show download segment

Dislpay the segment to which the last file was downloaded to.

show download status file length

Display the last file downloaded.

show download status

Displays the current download status (download 5 of 10, idle.)

show each

Usage: SHOW EACH [-q] <object>, <object>, <object>, …

show event classes

Display the list of events classes that can be displayed by the box.

show event forwarding discriminator table

Displays the status of the event forwarding table showing where events of particular types will be sent.

show event identifier

Shows detail of a single event defined by its identifier.

```
super> show event identifier 9601

9601 01:12:42 Jan-07-2004  49.40  INFO     Script: 1 0 0 0
```

Figure 18: An example of the show event identifier command

show event maximum sequence number

```
super> show event maximum sequence number
9604
super> tail events
9595 01:09:13 Jan-07-2004  73.03  NOTICE    IKE: Quick Mode completed for
policy
 1
```

```
9596 01:09:16 Jan-07-2004  26.02   WARNING   Telnet login failed super
62.77.191.

193

9597 01:09:30 Jan-07-2004  26.03   INFO      Telnet login super
62.77.191.193

9598 01:09:42 Jan-07-2004  49.40   INFO      Script: 1 0 0 0

9599 01:10:42 Jan-07-2004  49.40   INFO      Script: 1 0 0 0

9600 01:11:42 Jan-07-2004  49.40   INFO      Script: 1 0 0 0

9601 01:12:42 Jan-07-2004  49.40   INFO      Script: 1 0 0 0

9602 01:13:42 Jan-07-2004  49.40   INFO      Script: 1 0 0 0

9603 01:14:42 Jan-07-2004  49.40   INFO      Script: 1 0 0 0

9604 01:15:42 Jan-07-2004  49.40   INFO      Script: 1 0 0 0

super>
```

Figure 19: An example of the show event maximum sequence number

`show event minimum sequence number`

```
super> show event minimum sequence number
9354
super> head events
9354 21:15:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

9355 21:16:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

9356 21:17:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

9357 21:18:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

9358 21:19:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

9359 21:20:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

9360 21:21:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

9361 21:22:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

9362 21:23:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

9363 21:24:42 Jan-06-2004  49.40   INFO        Script: 1 0 0 0

super>
```

`show event string given class number ...`

```
super> show event string given class number
EMERGENCY


super> show event string given class number 1
ALERT


super> show event string given class number 2
CRITICAL
```

```
super>
```

Figure 20:

```
show event table ...
super> show event table
Usage: Show Event Table [ALL | <class> | <class>.<subclass>]


super> show event table 116
ACCESS          116.01  DEBUG     Access Control: Authorised user
ACCESS          116.02  INFO      Access Control: Unauthorised user
ACCESS          116.03  INFO      Access Control: Reauth period auto-fixed
ACCESS          116.*   DEBUG     Access Control:


super>


show events
```

Figure 21:

show fbuffer

Display the information stored in the flash buffer

show feature enabled ...

Display the status of a particular feature such as enabled, disabled.

show feature version

```
Displays the version number of running code.
super> show feature version
8.9
super>
```

show features

```
super> show features
Active  Feature name    Description
------  ------------    -----------
Yes     Firewall        Firewall logging & IP tables
Yes     Clearway        Voice-over-IP support
No      Frxmp           Frame relay over TCP/IP
No      Secure          Secure access only
```

Figure 22:

show file info

Display the details of the flash file system.

show filter ez hits

Show the details of each easy filter and the number of hits on this filter.

show filter firewall hits

Show the details of each firewall filter and the number of hits on this filter.

show filter ip hits

Show the details of each ip filter and the number of hits on this flter.

show heap

Show heap useage on the box indicating what elements of the system are using memory. This command can be used to identify memory leaks in sections of the box.

show history

Show the line history for the box.

show http download bytes transferred

Show download bytes transferred, except all over HTTP rather than TFTP

show http download file

Show download file, except all over HTTP rather than TFTP

show http download result

Show download results, except all over HTTP rather than TFTP.

show http download segment

Show download segment, except all over HTTP rather than TFTP.

show http download status file length

Show download status file length, except all over HTTP rather than TFTP.

show http download status

Show download status, except all over HTTP rather than TFTP.

show http upload ...

Show http upload, except all over HTTP rather than TFTP.

show ident

Display versions of image and web loaded on the box.

show index for interface ...

show interface ...

Shows statistic for particular interface

show interfaces


```
Shows detail of interfaces on the box. Shows enabled and active state for
each interface. super> show interfaces

ifIndex ifDescr        ifAdminStatus ifOperStatus ifInOctets ifOutOctets
```

01	eth-0	up	up	3680291946	122540189
81	eth-1	up	up	50600578	85361056
82	eth-2	up	down	0	0
83	eth-3	up	down	0	0
03	ISDN-S	up	up	0	0
04	ISDN-D-Channel	up	down	0	0
05	ISDN-B1	up	down	0	0
06	ISDN-B2	up	down	0	0
09	ppp-1	up	up	310755702	105813016
10	ppp-2	down	down	0	0
11	ppp-3	down	down	0	0
12	ppp-4	down	down	0	0
13	ppp-5	down	down	0	0
14	ppp-6	down	down	0	0
15	ppp-7	down	down	0	0
16	ppp-8	down	down	0	0
17	frlink-1	down	down	0	0
18	frlink-2	down	down	0	0
19	fr1-dlci-1	up	down	0	0
20	fr1-dlci-2	up	down	0	0
21	fr1-dlci-3	up	down	0	0
22	fr1-dlci-4	up	down	0	0
45	fr1-dlci-5	up	down	0	0
46	fr1-dlci-6	up	down	0	0
47	fr1-dlci-7	up	down	0	0
48	fr1-dlci-8	up	down	0	0
23	fr2-dlci-1	up	down	0	0
24	fr2-dlci-2	up	down	0	0
25	fr2-dlci-3	up	down	0	0
26	fr2-dlci-4	up	down	0	0
65	fr2-dlci-5	up	down	0	0
66	fr2-dlci-6	up	down	0	0
67	fr2-dlci-7	up	down	0	0
68	fr2-dlci-8	up	down	0	0
27	bridge-1	down	down	0	0
92	bridge-2	down	down	0	0
93	bridge-3	down	down	0	0
94	bridge-4	down	down	0	0
95	bridge-5	down	down	0	0
96	bridge-6	down	down	0	0

97	bridge-7	down	down	0	0
98	bridge-8	down	down	0	0
02	console	up	up	494	8641495
29	modem-0	down	down	0	0
111	gre-1	down	down	0	0
112	gre-2	down	down	0	0
113	gre-3	down	down	0	0
114	gre-4	down	down	0	0
115	gre-5	down	down	0	0
116	gre-6	down	down	0	0
117	gre-7	down	down	0	0
118	gre-8	down	down	0	0
400	adsl-0	up	up	0	0
601	aal5-1	up	up	331921748	129677055
602	aal5-2	up	down	0	0
603	aal5-3	up	down	0	0
604	aal5-4	up	down	0	0
605	aal5-5	up	down	0	0
606	aal5-6	up	down	0	0
607	aal5-7	up	down	0	0
608	aal5-8	up	down	0	0

Figure 23:

`show ip address translation list maximum number of entries`

Shows the maximum number of entries on the ip address translation list

`show ip addresses ...`

Shows the ip addresses on the box on as per interface basis.

`show ip route static list maximum number of entries`

Shows maximum numer of entries on the ip route static list

`show ip route`

Display the routing table for the box to diagnose what route will be taken by packets entering the box.

```
show ip vpn addresses

super> show ip vpn addresses

Port        Subnet         Mask           Vpn Subnet

----        -------        ----           ------

eth-0       10.1.0.0       255.255.0.0    0.0.0.0

eth-1       62.77.191.192  255.255.255.224 0.0.0.0

eth-2       192.168.103.0  255.255.255.0  0.0.0.0

eth-3       192.168.104.0  255.255.255.0  0.0.0.0
```

```
ppp-1        0.0.0.0          255.255.255.0    0.0.0.0


show ip vpn networks
```

Figure 24:

show ipat bypass

Display the details of addresses that will be passed through the box without undergoing address translation.

show ipat incoming

Display the details of what address transition rules will bapplied to incoming pckets.

show ipat ...

Display the details of IP streams that have been dynamically formed by outgoing packets leaving the box.

sh crashlog

Shows router crashes.

sh conlog all

Shows all the console logging.

sh events

Shows the last 200 events.

sh tasks

Shows active tasks.

show ident

Shows the operating and web software version information.

sh changes

Shows all configuration changes.

tail changes

Shows the last configuration changes.

sh Ethernet vmap

Shows the logical interface that corresponds to the physical interface.

```
super> sh ethernet vmap
Ethernet LAN segments:

Logical If -> Physical Ports
----------------------------
Eth-0 -          A
Eth-1 -          B
Eth-2 -          C
Eth-3 -          D


Physical Ports -> Logical If
----------------------------
Port A -         eth-0
Port B -         eth-1
Port C -         eth-2
Port D -         eth-3


Port    Neg     S100    Fulldpx Loopbk  Pwrdown Isolate
----    ---     ----    ------- ------  ------- -------
A       1       0       0       0       0       0
B       1       0       0       0       0       0
C       1       0       0       0       0       0
D       1       0       0       0       0       0
```

Figure 25 An example of the mapping of logical interfaces to physical interfaces

sh sys info

Show the system information for the router.

```
super> show system info

Model Name            GW4310A---50
Hardware Revision     VA5103
Serial Number         00E0C800BE53
Mac Address           00E0C800BE53
Capabilities          00014a90
Label Type            1
Serial Licensed       1
VPN Licensed          1
OEM                   0
Processor type        66 MHz PPC
Support license       August 2006
```

Figure 26: An example of the system information for the router

show ip addresses

Show the IP addresses of each port on the router.

show ip interface address *<interface>*

Show the IP address of the interface.

show stats *<interface>*

Show the transmit and receive statistics, the status of the link, the network speed, and the duplex mode for the interface.

```
super> show stats eth-1
TRANSMIT STATS
tx frames                2337
tx bytes                 778512
tx frames rejected       0
tx collisions            0
tx late collisions       0
tx carrier errors        0

RECEIVE STATS
rx frames                35109
rx bytes                 2351595
rx overruns              0
rx crc errors            0
rx overlong frames       0
rx unaligned errors      0

LINK PRESENT             Yes
NETWORK SPEED            100 Mbps
DUPLEX MODE              Half duplex
```

Figure 27: An example of statistics for an interface

show isdn stats {0|1|2|D|B1|B2}

Show the statistics for an isdn channel.

```
super> show isdn stats d
Tx frames      64439
Tx bytes       402865
Tx buffers     64439
Tx underruns   0
Tx not readys  0
Tx other errors 0
Rx frames      71671
Rx bytes       467971
Rx buffers     71671
Rx overruns    0
Rx line errors 0
Rx other errors 0
```

Figure 28: An example of ISDn statistics

uptime

Show how long the router has been up, the CPU usage, and the amount of free memory.

```
super> uptime
3:16pm          up 2 days, 21:59              cpu 2%    2825k free
```

Figure 29: An example of the uptime command

++<*eventname*>

Add the event to the monitor.

++<*eventclass*>

Add the event class to the monitor.

```
super> ++ aal5
Added event class to monitor list
```

Figure 30: An example of the add event class command

++ipdump

Dump IP events to the command line interface. Dumping IP events to the monitor creates a very large volume of monitor entries.

```
super> ++ipdump
Warning: enabling IPDUMP with no filter will produce a LOT of output!
Added event class to monitor list
```

Figure 31: An example of the ++ipdump command

–

Stop the monitor. If events are being posted to the monitor quickly, you might have to press - <Return> a few times before the command is recognised.

kill task all

Stop all the active tasks on the router.

arp

Show the ARP table.

```
super> arp

IP Address        Physical address      Type        Age      Port
10.1.10.89        00-01-02-2a-30-af     Dynamic     10       eth-1
```

Figure 32: An example of the ARP table command

netstat

Show the correspondence between the local socket and the remote socket.

```
super> netstat
Prot    Local address         Remote address        State    Name
----    -------------         --------------        -----    ----
tcp     10.1.251.251:23       10.1.10.89:3441       Active
tcp     10.1.251.251:23       10.1.10.89:3438       Active
udp     *:1025                *:*                   Active
udp     *:53                  *:*                   Active
udp     *:161                 *:*                   Active
udp     *:1027                10.1.10.31:2200       Active
```

Figure 33: An example of the correspondence between local and remote sockets

7 Getting help

The router includes built-in help for commands. You can access the help from the command line interface.

Command	Explanation
`SUB <string>`	List all configuration commands for the parameter
`show <string>`	Show the parameters of a current configuration command.
`show commands`	Show a list of all top-level interactive commands.
`show commands A`	Show a list of all interactive commands that begin with the letter A.
`find <string> all cmds`	Show all commands that match the string.

Table 7: Help commands

8 Managing files

`create config<n>`

Create a new configuration file. N=1 or 2.

`dir`

Shows the files that are in the directory.

`dump <file name> [hex length]`

Shows the contents of the file.

Hex length	Specifies the number of lines of the file that will appear. For example, **40** shows 4 lines of the file. **70** shows 7 lines of the file.

`flashdel <file name>`

Delete the file from flash memory.

`fcopy <source file> <new file>`

Copy a file to a new file on the router.

```
super> fcopy test.bat
Usage: fcopy <srcfile> <dstfile>

super> fcopy test.bat new.bat
Copying test.bat to new.bat ... okay.
```

Figure 34: An example of the fcopy command

`frename <old file name> <new file name>`

Rename a file.

```
super> frename new.bat next.bat
new.bat renamed to next.bat.
```

Figure 35: An example of the frename command

`set next image <image>`

Set the next boot image. Image = 1 or 2.

8.1.1 Transfering files

`find tftp cfg`

Show the configuration and IP address of the TFTP server.

```
super> find tftp cfg
set TFTP Enabled = yes
set TFTP Server IP Address = 10.1.10.31
```

Figure 36: An example of the find tftp cfg command

`dl dlwam.web web`

Download the web file from TFTP to the router.

dls

See the download status for a web file transfer.

You can create a file on the CLI, or use the script editing in the Operations section of the web.

To create a file on the CLI use `'create <filename>'`. Type the text of the file, or paste from your usual editor, and end the file with a single '.' on an new line. The file will then be stored, check it with `'show <filename>'`

```
super> create temp.bat
 Creating new file temp.bat.
 Enter '.' on its own to exit and save file, or '.x' to exit without
saving.
 > show sad table all
 > .
 Saving temp.bat ...  okay.
 super> show temp.bat
 show sad table all
```

dls

9 Script commands

Script files are simple text files in the router that use the router scripting language. Scripts can perform a variety of operations such as:

- dynamically enabling or disabling filters,
- monitoring for changes,
- delivering statistics, and
- running repetitive tests.

`run <string>`

Run a script. To use the shortcut for the run command, just type the name of the script.

`dir scripts`

Show the directory of the scripts that are built into the current image.

`show tasks`

Show a list of scripts that are running.

`show task <task_ID>`

Show the script associated with the task ID and indicates the line that the script is executing.

`show task vars <task_ID>`

Print the variables that are associated with the script.

`kill task <n>`

Stop a script. <n> is the number of the task from the task list.

10 VPN commands

The commands in this section help you diagnose issues with the VPN.

`++ip:500`

Monitor port 500, which is the starting port for the VPN.

`vpn flushall`

Close the VPN tunnel.

`show <value>`

Value	Explanation
IKE memory	IKE memory statistics
IKE SAS	Active IKE tunnels
IKE table	Configured IKE policies
SAD memory	IPsec memory statistics
SAD table	Database security associations
SPD memory	SPD memory statistics
SPD table	Configured SPD policies

Show the database security associations.

`++ike`

Monitor the IKE phase.

`++spd`

Monitor the negotiation of security policies.

`vpn reset`

Reset the VPN.

11 Configuring IP

`set ip interface address = <interface> <ip address>`

Set the IP address for an interface.

`show ip route`

Show the IP routes of every interface on the router.

The following command line downloads an image, then automatically reloads when it is complete (useful for putting into a batch file, perhaps):

!we 8.1 waits for event 8.1, which is Download Complete, then issues the reload. Of course, you could do other actions instead, such as download a new web.

On 8.8.17 and beyond, you can invoke a scripted command more simply, like this:

'nslookup' is used to do DNS queries, ie. look up a name for an ip address, or an IP for a name.

You can look up via the host command. Because commands run in the same context as the main routing engine, it is not possible for commands to wait until a network response arrives. Instead, host will check the local cache for a domain name, and return it immediately if present. If not, it will start a background lookup. Re-issue host 1-2 seconds later, and the domain name should be in the cache if available.

For example:

If you are doing this from a script, "`host -s`" is more convenient - this returns just the IP address on its own, if available, or 0.0.0.0 if it hasn't yet resolved.

The router's command line supports a group of commands known as the Text commands (they almost all start with the 'text' keyword). These can be used to generate output buffers of a 1 MB limit per buffer, which can then be saved or loaded from flash, or uploaded using TFTP.

As of release 8.7.39 / 8.8.19, it is also possible to record the output of arbitary commands into text buffers, making it easy to have a script generate an output log file with assorted information in it; that log can then be easily uploaded periodically.

The TEXT on its own to get a simple help message, which looks like this:

where <buffer> is the name of the text buffer, and <text> is the string to be placed in the buffer. For convenience, you can abbreviate the last two forms to:

This last form is useful for writing lots of command output from a script -- it is similar to the DOS/Unix convention of redirecting output to a named file, except that the redirection occurs at the start of the filename, rather than the end. (This is because for compatibility reasons, '>' characters cannot be interpreted within a command line.)

Note that buffer names are alphanumeric, but any leading digits are silently ignored - this is something the web server relies on when importing certificates (for complicated reasons relating to Javascript not allowing fieldnames with the same ID - appending a number to the start of the name makes the name different to Javascript, but allows the router to treat it as the same buffer.)

This will produce the output:

To upload this, type:

12 Diagnosing and fixing the router

12.1 Problem: you can't access the web interface

Cause	Port 80 traffic is proxied or blocked.
Solution	1. Telnet onto the router through port 23. 2. Reconfigure port 80. 1. Check the port. At the command line, type **Show Http Client File Server Port** and press Return. 2. At the command line, type **Set Http Client File Server Port = 80** and press Return. 3. At the command line, type **save** and press Return. 4. At the command line, type **commit** and press Return. 5. At the command line, type **reload** and press Return. 6. Use the router web.

Appendix A: Files in the directory

Table 8 describes files that are in the router directory. A directory may contain files that are not listed in Table 8.

File name	Description
direct	Directory information. You cannot view the directory information.
kernel	Boot Loader
image1	image1
persdata	Persdata that stores the router character.
CSTAT	The next image and web to load.
web	Web files
FACTCONF	Factory configuration
00AE0F.src	A self cert
00AE0F.pvt	A pvt key
activator.rct	A root cert
config2	Config2
config1	Config1
autoexec.bat	A script that runs at bootup.
bootoptions	A file that contains special options for the bootloader.
watchlink.bat	A script for monitoring a link.
telnetmail.bat	A script to send a mail.
test.bat	A test script.
fpgdata	The microcode that is loaded into the FPGA chip at boot time.
featurekey	The feature key that is associated with the router.

Table 8: Descriptions of files in the directory