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CLI REFERENCE GUIDE R8.4

Technicolor TG582n



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Document Information

Status: v1.0

Reference: DMS-CTC-20101206-0049

Short Title: CLI Reference Guide TG582n (SWv8.44E)

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atm Commands

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atm cac list	List all CAC parameters.	see page 24
atm cac overbooking	Configure ATM overbooking parameters.	see page 25
atm debug aal5stats	Display AAL5 port specific atm statistics.	see page 26
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atm debug portstats	Display port specific atm statistics.	see page 28
atm debug traceconfig	Display/Modify AAL5 debug trace configuration.	see page 29
atm debug vcstats	Display VC specific atm statistics.	see page 30
atm flush	Flush all ATM interfaces.	see page 31
atm ifattach	Attach an ATM interface.	see page 32
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atm oam ping	Send ATM loopback cells.	see page 42
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atm oam vclb list	List all VC loopback connections	see page 45
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atm phonebook flush	Flush all phonebook entries.	see page 48
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atm qosbook add	Add a new qosbook entry.	see page 50

ATM COMMANDS

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atm qosbook ctdadd	Add a new connection traffic descriptor.	see page 52
atm qosbook ctddelete	Delete a connection traffic descriptor.	see page 53
atm qosbook ctdlist	Display all connection traffic descriptors.	see page 54
atm qosbook delete	Delete a qosbook entry.	see page 55
atm qosbook flush	Flush all qosbook entries.	see page 56
atm qosbook list	Display the qosbook.	see page 57
atm qos list	Display the Qos list.	see page 58
atm qos queue config	Configure TX Queue entry.	see page 59
atm gos gueue list	Display the Qos list.	see page 60

atm cac config

Configure ATM connection admission control.

atm cac config	<pre>port = <{dsl0 dsl1 atm2 atm3 a number> state = <{disabled enabled}></pre>	aal5 atm5} or
where:		
port	The port for which CAC is configured.	REQUIRED
state	Enable/disable CAC for an ATM port.	REQUIRED

atm cac list

List all CAC parameters.

atm cac overbooking

Configure ATM overbooking parameters.

atm cac overbooking	[rt = <number{0-1000}>] [nrt = <number{0-1000}>]</number{0-1000}></number{0-1000}>	
where:		
rt	The realtime overbooking percentage.	OPTIONAL
nrt	The non-realtime overbooking percentage.	OPTIONAL

atm debug aal5stats

Display AAL5 port specific atm statistics.

atm debug aal5stats where:	<pre>port = <{dsl0 dsl1 atm2 atm3 aal5 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa</pre>	tm5} or
port	The port number for which statistics will be retrieved.	REQUIRED
vpi	The VPI number for which statistics will be retrieved.	REQUIRED
vci	The VCI number for which statistics will be retrieved.	OPTIONAL
clear	Clear the statistics after request.	OPTIONAL

atm debug gstats

Display ATM global statistics.

atm debug gstats	<pre>[clear = <{disabled enabled}>]</pre>	
where:		
clear	Clear the statistics after request.	OPTIONAL

atm debug portstats

Display port specific atm statistics.

atm debug portstats	<pre>port = <{dsl0 dsl1 atm2 atm3 aa number> [clear = <{disabled enabled}>]</pre>	15 atm5} or
where:		
port	The port for which statistics will be retrieved.	REQUIRED
clear	Clear the statistics after the request.	OPTIONAL

atm debug traceconfig

Display/Modify AAL5 debug trace configuration.

atm debug traceconfig	<pre>[len = <mber{1-4}>] [intf = <{atm_Internet}>] [state = <{disabled enabled}>]</mber{1-4}></pre>	
where:		
len	Maximum number of AAL5 payload bytes that will be shown (0-2000, global setting).	OPTIONAL
intf	The name of the ATM interface to configure.	OPTIONAL
state	Enable/disable AAL5 debug tracing.	OPTIONAL

atm debug vcstats

Display VC specific atm statistics.

atm debug vcstats	<pre>port = <{dsl0 dsl1 atm2 atm3 aal5 atm5} or number> vpi = <number{0-31}> [vci = <number{0-511}>] [clear = <{disabled enabled}>]</number{0-511}></number{0-31}></pre>	
where:		
port	The port number for which statistics will be retrieved.	REQUIRED
vpi	The VPI number for which statistics will be retrieved.	REQUIRED
vci	The VCI number for which statistics will be retrieved.	OPTIONAL
clear	Clear the statistics after request.	OPTIONAL

atm flush

Flush all ATM interfaces.

atm ifattach

Attach an ATM interface.

atm ifattach	intf = <{}>	
where:		
intf	The name of the ATM interface.	REQUIRED

atm ifconfig

Modify an ATM interface.

IIIIAA:		
atm ifconfig where:	<pre>intf = <{atm_Internet}> [dest = <{}>] [qos = <{default}>] [clp = <{0 1 classification}>] [clpthresh = <number{0-15}>] [encaps = <{llc vcmux}>] [fcs = <{disabled enabled auto}>] [ulp = <{mac ip ppp}>] [retry = <number{0-65535}>]</number{0-65535}></number{0-15}></pre>	
intf	The name of the ATM interface to configure.	REQUIRED
	The hame of the ATM interface to configure.	REGUIRED
dest	The WAN destination for this ATM interface. Typically, a phonebook entry.	OPTIONAL
qos	The name of a qosbook entry defining the QoS parameters for the WAN link.	OPTIONAL
clp	The mode used to determine the CLP bit value.	OPTIONAL
clpthresh	Priority class threshold where CLP becomes 0 (for all classes >= threshold).	OPTIONAL
encaps	The WAN protocol encapsulation to be used on this interface.	OPTIONAL
fcs	Whether or not to include the Ethernet FCS in the packet header (only used for IIc encapsulation for mac).	OPTIONAL
ulp	The upper layer protocol.	OPTIONAL
retry	The number of times the WAN connection setup should retry before giving up.	OPTIONAL

atm ifdetach

Detach an ATM interface.

atm ifdetach	intf = <{}>	
where:		
intf	The name of the ATM interface.	REQUIRED

atm iflist

Display the ATM interfaces.

atm iflist	<pre>[intf = <{atm_Internet}>]</pre>	
where:		
intf	The name of an ATM interface.	OPTIONAL

atm oam cc list

Display CC configuration.

OPTIONAL

atm oam cc modify

Modify CC on the connection.

SYNTAX:

span

```
port = \{ds10 | ds11 | atm2 | atm3 | aa15 | atm5\} or
 atm oam cc modify
                                         number>
                                          vpi = < number \{0-31\} >
                                          [vci = <number\{0-511\}>]
                                          [transmit = <{disabled|enabled}>]
                                          [receive = <{disabled|enabled}>]
                                          [auto = <{disabled|enabled}>]
                                          [span = <{segment|end2end}>]
where:
                                     The ATM port number.
                                                                                        REQUIRED
 port
                                     The Virtual Path Identifier.
                                                                                        REQUIRED
 vpi
                                     The Virtual Channel Identifier.
 vci
                                                                                        OPTIONAL
 transmit
                                     Enable/disable transmission of CC cells.
                                                                                        OPTIONAL
                                     Enable/disable loss of continuity.
                                                                                        OPTIONAL
 receive
                                     Enable/disable remote CC activation/deactivation.
                                                                                        OPTIONAL
 auto
```

End2end or segment continuity check.

atm oam cc send

Send CC activate/deactivate to connection.

atm oam cc send	<pre>port = <{dsl0 dsl1 atm2 atm3 aal5 a number> vpi = <number{0-31}> [vci = <number{0-511}>] [span = <{segment end2end}>] [action = <{activate deactivate}>] [direction = <{source sink both}>]</number{0-511}></number{0-31}></pre>	tm5} or
port	The ATM port number.	REQUIRED
vpi	The Virtual Path Identifier.	REQUIRED
vci	The Virtual Channel Identifier.	OPTIONAL
span	Send CC action end2end or segment.	OPTIONAL
action	The CC action.	OPTIONAL
direction	Source, sink or both (default: both).	OPTIONAL

atm oam config

Modify the ATM OAM settings.

loopbackid	The loopback id (hexadecimal string) for processing of segment loopback cells.	OPTIONAL
clp	The CLP bit value of the OAM cells.	OPTIONAL
where:		
atm oam config	<pre>[clp = <number{0-1}>] [loopbackid = <string>]</string></number{0-1}></pre>	

atm oam list

Display the ATM OAM settings.

atm oam modify

Modify the ATM OAM data blocking mode.

atm oam modify	<pre>port = <{dsl0 dsl1 atm2 atm3 aal number> blocking = <{disabled enabled}></pre>		
where:			
port	The port for which OAM blocking is configured.	REQUIRED	
blocking	Enable/disable OAM blocking.	REQUIRED	

atm oam ping

Send ATM loopback cells.

atm oam ping	<pre>dest = <{atm_pvc_8_35}> [count = <number{1-1000000}>] [interval = <number{100-1000000}>]</number{100-1000000}></number{1-1000000}></pre>	
where:		
dest	The destination address for the request.	REQUIRED
count	The number of pings to send.	OPTIONAL
interval	The interval in milliseconds between packets.	OPTIONAL

atm oam vclb add

Create a loopback connection for VC

atm oam vclb add	<pre>port = <{ds10 ds11 atm2 atm3 aa15 a number> vpi = <number{0-31}> [vci = <number{0-511}>]</number{0-511}></number{0-31}></pre>	tm5} or
where:		
port	The ATM port number.	REQUIRED
vpi	The Virtual Path Identifier.	REQUIRED
vci	The Virtual Channel Identifier.	OPTIONAL

atm oam vclb del

Delete a loopback connection for VC

atm oam vclb del	<pre>port = <{dsl0 dsl1 atm2 atm3 aal5 a number> vpi = <number{0-31}> [vci = <number{0-511}>]</number{0-511}></number{0-31}></pre>	tm5} or
port	The ATM port number.	REQUIRED
vpi	The Virtual Path Identifier.	REQUIRED
vci	The Virtual Channel Identifier.	OPTIONAL

atm oam vclb list

List all VC loopback connections

atm phonebook add

Add a new phonebook entry.

atm phonebook add	<pre>name = <string> addr = <atmchannel :="" [port.]vpi.vci="" is="" port="dsl0 dsl1 " pvc="" syntax=""></atmchannel></string></pre>	
where:		
name	The phonebook name for this destination.	REQUIRED
addr	The address for this destination.	REQUIRED

atm phonebook delete

Delete a phonebook entry.

atm phonebook delete	name = $<\{\}>$	
where:		
name	The name of the phonebook to delete.	REQUIRED

atm phonebook flush

Flush all phonebook entries.

atm phonebook list

Display the phonebook.

atm qosbook add

Add a new qosbook entry.

atm qosbook add	<pre>name = <string> [txctd = <{default}>] [rxctd = <{default}>]</string></pre>	
where:		
name	The name for the new QoS entry.	REQUIRED
txctd	The name of the CTD for transmit (upstream) direction.	OPTIONAL
rxctd	The name of the CTD for receive (downstream) direction.	OPTIONAL

atm qosbook config

Modify the qosbook configuration.

atm qosbook config	[format = <{bytes cells}>]	
where:		
format	The input, output format of the qosbook.	OPTIONAL

atm qosbook ctdadd

Add a new connection traffic descriptor.

SYNTAX:

where:

name	The name for the new CTD entry.	REQUIRED
conformance	The ATM service conformance definition.	REQUIRED
peakrate	The peak rate (in kilobits per second). Use '0' to indicate linerate for UBR.	OPTIONAL
sustrate	The sustainable rate (in kilobits per second). (VBR only)	OPTIONAL
maxburst	The maximum burst size (in bytes). (VBR or GFR)	OPTIONAL
minrate	The minimum rate (in kilobits per second). (UBR.m or GFR)	OPTIONAL
maxframe	The maximum frame size (in bytes). (GFR only)	OPTIONAL
celldelay	Cell delay variation in tenths of microseconds.	OPTIONAL
realtime	Enable/disable realtime traffic (VBR only).	OPTIONAL
framediscard	Enable/disable frame discard.	OPTIONAL

atm qosbook ctddelete

Delete a connection traffic descriptor.

atm qosbook ctddelete	<pre>name = <{default}> [force = <{disabled enabled}>]</pre>	
where:		
name	The name of the CTD entry to delete.	REQUIRED
force	Force delete even when the entry is still in use.	OPTIONAL

atm qosbook ctdlist

Display all connection traffic descriptors.

atm qosbook delete

Delete a qosbook entry.

atm qosbook delete	<pre>name = <{default}> [force = <{disabled enabled}>]</pre>	
where:		
name	The name of the qosbook entry to delete.	REQUIRED
force	Force delete even when the entry is still in use.	OPTIONAL

atm qosbook flush

Flush all qosbook entries.

atm qosbook flush	filename = <user configuration="" f<="" th=""><th>ilename></th></user>	ilename>
where:		
filename	Filename for backupfile of current configuration	REQUIRED

atm qosbook list

Display the qosbook.

atm qos list

Display the Qos list.

atm qos list	<pre>[intf = <{strict cwrr pwrr wfq}>]</pre>	
where:		
intf	The name of the ATM interface to configure.	OPTIONAL

atm qos queue config

Configure TX Queue entry.

atm qos queue config	<pre>qname = <{queue_a0}> weight = <number{0-64}> maxpackets = <number{0-2500}> loprio = <number{0-15}> hiprio = <number{0-15}></number{0-15}></number{0-15}></number{0-2500}></number{0-64}></pre>	
where:		
qname	The name of the Transmit Queue.	REQUIRED
weight	Weight value of the chosen weight algorithm.	REQUIRED
maxpackets	The maximum number of packets in the queues.	REQUIRED
loprio	The lowest internal priority boundary for entering this queue.	REQUIRED
hiprio	The highest internal priority boundary for entering this queue.	REQUIRED

atm qos queue list

Display the Qos list.

atm qos queue list	[intf = <>]	
where:		
intf	The name of the ATM interface to configure.	OPTIONAL

config Commands

config delete	Delete a user configuration file.	see page 62
config dump	Show the saved configuration file	see page 63
config flush	Flush the loaded configuration.	see page 64
config list	Show the current configuration set	see page 65
config load	Load saved or default configuration.	see page 66

config delete

Delete a user configuration file.

config delete	[filename = <user configurat:<="" th=""><th>ion filename>]</th></user>	ion filename>]
where:		
filename	configuration file to erase	OPTIONAL

config dump

Show the saved configuration file

config dump	<pre>[configchangemode = <{immediate de [probes = <{disabled enabled}>] [udptrackmode = <{strict loose}>] [safepredicts = <{disabled enabled</pre>	abled enabled}>] <{strict loose}>]	
configchangemode	Select how config changes are handled.	OPTIONAL	
probes	Enable/disable alive probes on idle connections.	OPTIONAL	
udptrackmode	UDP connection tracking mode.	OPTIONAL	
safepredicts	Enable/disable safe CONN/NAT application helper predictions (predicted connection must have same IP addresses as its parent).	OPTIONAL	

config flush

Flush the loaded configuration.

config flush	[flush_ip = <{enabled disab	pled}>]
where:		
flush_ip	Flush IP settings or not.	OPTIONAL

config list

Show the current configuration set

config list	[templates = <{disabled enabled}>]	
where:		
templates	list template files	OPTIONAL

config load

Load saved or default configuration.

config load where:	<pre>[load_ip = <{enabled disabled}>] [defaults = <{disabled enabled}>] [flush = <{enabled disabled}>] [echo = <{disabled enabled}>] [filename = <string>]</string></pre>	
load_ip	Load IP settings or not.	OPTIONAL
defaults	Load default instead of saved configuration.	OPTIONAL
flush	Flush current configuration before loading new one.	OPTIONAL
echo	Echo each command string when loaded.	OPTIONAL
filename	Configuration filename.	OPTIONAL

connection Commands

connection appconfig	Modify a CONN/NAT application helper configuration	see page 69
connection appinfo	Display CONN/NAT application specific info	see page 70
connection applist	Display the available CONN/NAT application helpers.	see page 71
connection bind	Create a CONN/NAT application helper/port binding.	see page 72
connection bindblacklist add	Add bind blacklist entry.	see page 73
connection bindblacklist delete	Delete bind blacklist entry.	see page 74
connection bindblacklist list	List all bind blacklist entries.	see page 75
connection bindlist	Display the CONN/NAT application helper/port bindings.	see page 76
connection clean	Clean connection database by forcing timeouts.	see page 77
connection clear	Kill all connections.	see page 78
connection debug	Connection debug commands.	see page 79
connection describe	Describe the streams of a connection.	see page 80
connection flow add	Add flow	see page 81
connection flow delete	Delete flow	see page 82
connection flow flush	Flush flow configuration	see page 83
connection flow list	List all flows	see page 84
connection flow qoslabeladd	Assign qos label to flow	see page 85
connection flow qoslabeldel	Remove qos label from flow	see page 86
connection flush	Flush the connection configuration.	see page 87
connection info	Display all modules with some info.	see page 88
connection list	Display the currently known connections.	see page 89
connection refresh	Invalidate all cached decisions.	see page 91
connection release	Release connections.	see page 92
connection reserve	Reserve connections.	see page 93
connection stats	Display connection and stream statistics.	see page 94
connection timerclear	Clear connection timeout to default.	see page 95

CONNECTION COMMANDS

connection timerconfig Modify connection timeout handling. see page 96

connection unbind Delete a CONN/NAT application helper/port see page 97 binding.

connection appconfig

Modify a CONN/NAT application helper configuration

SYNTAX:

connection appconfig	<pre>application = <{IP6TO4 PPTP ESP IKE SIP JABBER CU/SeeMe RAUDIO(PNA) RTSP SNMP_TRAP FTP}> [trace = <{disabled enabled}>] [timeout = <number{0-32000}>] [childqos = <{None DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>] [floating = <{disabled enabled}>] [proxy = <{disabled enabled}>] [tracelevel = <number{1-4}>] [snooping = <{disabled enabled}>]</number{1-4}></number{0-32000}></pre>
	<pre>[snooping = <{disabled enabled}>] [translate-predict = <{disabled enabled}>]</pre>

where:

application	The name of a CONN/NAT application helper as listed by ':connection applist'.	REQUIRED
trace	Enable/disable CONN/NAT application helper traces.	OPTIONAL
timeout	The maximum timeout in seconds to keep predicted child connections around.	OPTIONAL
childqos	Used QOS label for the predicted child connections.	OPTIONAL
floating	Enable/disabled floating port for IKE helper.	OPTIONAL
proxy	Enable/disable FTP proxy support.	OPTIONAL
tracelevel	SIP only: SIP trace level: 1=feature errors; 2=feature traces; 3=all errors; 4=all traces.	OPTIONAL
snooping	SIP only: Enable/disable snooping	OPTIONAL
translate-predict	SIP only: Enable/disable prediction	OPTIONAL

connection appinfo

Display CONN/NAT application specific info

connection appinfo	<pre>application = <{IP6T04 PPTP ESP IKE JABBER CU/SeeMe RAUDIO(PNA) RTSP SNN FTP}></pre>	
where:		
application	The name of a CONN/NAT application helper as listed by ':connection applist'.	REQUIRED

connection applist

Display the available CONN/NAT application helpers.

connection bind

Create a CONN/NAT application helper/port binding.

connection bind		,	
where: application	The name of a CONN/NAT application helper as listed by ':connection applist'.	REQUIRED	
port	The port number or range this application handler should work on.	OPTIONAL	

connection bindblacklist add

Add bind blacklist entry.

connection bindblacklist add	<pre>ip = <ip-address> [proto = <{ah egp esp ggp gre pup rdp rsvp tcp udp vines xr or number>] [port = <port-range>]</port-range></ip-address></pre>	
where:	e source or destination IP address.	REQUIRED
proto The	e IP protocol (name or number).	OPTIONAL
port The	e port number or range.	OPTIONAL

connection bindblacklist delete

Delete bind blacklist entry.

connection bindblacklist delete	<pre>ip = <ip-address> [proto = <{ah egp esp ggp gr pup rdp rsvp tcp udp vines x or number>] [port = <port-range>]</port-range></ip-address></pre>	
where:		
ip	The source or destination IP address.	REQUIRED
proto	The IP protocol (name or number).	OPTIONAL
port	The port number or range.	OPTIONAL

connection bindblacklist list

List all bind blacklist entries.

connection bindlist

Display the CONN/NAT application helper/port bindings.

connection clean

Clean connection database by forcing timeouts.

connection clean	[level = $<$ number $\{0-9\}>$]	
where:		
level	Scrubbing level.	OPTIONAL

connection clear

Kill all connections.

connection debug

Connection debug commands.

connection debug	<pre>[trace = <{disabled enabled}>]</pre>	
where:		
trace	Enable/disable traces.	OPTIONAL

connection describe

Describe the streams of a connection.

connection describe	$id = < number \{0-4095\} >$	
where:		
id	The connection ID to describe.	REQUIRED

connection flow add

Add flow

connection flow add	[name = <string>]</string>	
where:		
name	Flow name.	OPTIONAL

connection flow delete

Delete flow

connection flow delete	[flow = <>]	
where:		
flow	Flow name.	OPTIONAL

connection flow flush

Flush flow configuration

connection flow flush	<pre>[state = <{enabled disabled}>] [workgroup = <quoted string="">] [name = <quoted string="">] [comment = <quoted string="">]</quoted></quoted></quoted></pre>	
where: state	Enabled/disabled CIFS service.	OPTIONAL
workgroup	CIFS workgroup definition.	OPTIONAL
name	CIFS service name.	OPTIONAL
comment	CIFS service description.	OPTIONAL

connection flow list

List all flows

connection flow qoslabeladd

Assign qos label to flow

connection flow qoslabeladd	<pre>[flow = <>] [qoslabel = <{None DSCP Interact Management Video VoIP-RTP VoIP-S default}>]</pre>	
where:		
flow	Flow name.	OPTIONAL
qoslabel	Qos label name.	OPTIONAL

connection flow qoslabeldel

Remove qos label from flow

connection flow qoslabeldel	<pre>[flow = <>] [qoslabel = <{None DSCP Interact Management Video VoIP-RTP VoIP- default}>]</pre>	
where:		
flow	Flow name.	OPTIONAL
qoslabel	Qos label name.	OPTIONAL

connection flush

Flush the connection configuration.

connection info

Display all modules with some info.

connection list

Display the currently known connections.

JABBER CU/SeeMe RAUDIO(PNA) RTSP SNMP_TRAP FTP}>] [reserved = <{false true}>] [accelerated = <{false true}>] [prioritized = <{false true}>]		<pre>FTP}>] [reserved = <{false true}>] [accelerated = <{false true}>]</pre>
--	--	---

id	The connection ID.	OPTIONAL
nr	The maximum number of connections to display (30 by default).	OPTIONAL
history	If enabled, show history.	OPTIONAL
proto	The IP protocol (name or number).	OPTIONAL
ip	The IP address or range.	OPTIONAL
port	The port number or range.	OPTIONAL
intf	The IP interface name.	OPTIONAL
routelabel	The route label name.	OPTIONAL
qoslabel	The QoS label name.	OPTIONAL
application	The name of CONN/NAT application helper.	OPTIONAL
reserved	Filter on "R" connection flag .	OPTIONAL
accelerated	Filter on "A" stream flag.	OPTIONAL

CONNECTION COMMANDS

connection refresh

Invalidate all cached decisions.

connection release

Release connections.

connection release	[flow = <>]	
where:		
flow	Flow name.	OPTIONAL

connection reserve

Reserve connections.

connection reserve	[flow = <>] [amount = <>]	
where:		
flow	Flow name.	OPTIONAL
amount	Number of connections to reserve for this flow.	OPTIONAL

connection stats

Display connection and stream statistics.

connection timerclear

Clear connection timeout to default.

connection timerclear		<pre>[timer = <{tcpidle tcpneg tcpkill udpidle udpkill icmpidle icmpkill ipidle ipkill}>]</pre>	
where:			
timer	The name of the connection idle timer.	OPTIONAL	

connection timerconfig

Modify connection timeout handling.

connection timerconfig	<pre>[timer = <{tcpidle tcpneg tcpkill udpidle udpkill icmpidle icmpkill ipidle ipkill}>] [value = <number{0-86400}>]</number{0-86400}></pre>	
where:		
timer	The name of the connection idle timer.	OPTIONAL
value	The timer expire value in seconds.	OPTIONAL

connection unbind

Delete a CONN/NAT application helper/port binding.

connection unbind			
where:	The name of a CONN/NAT application helper as listed by	REQUIRED	
port	':connection applist'. The port number or range this application handler should work on.	OPTIONAL	

CONTENTSHARING COMMANDS

contentsharing Commands

contentsharing cifs list	To display CIFS service context.	see page 100
contentsharing ftp config	To enable/disable FTP service.	see page 101
contentsharing ftp list	To display FTP service context.	see page 102
contentsharing upnpav config	To enable/disable UPnPAV service, to set the friendly name.	see page 103
contentsharing upnpav list	To display UPnPAV service context.	see page 104
contentsharing upnpav radiostation config	To enable/disable radiostations service.	see page 105
contentsharing upnpav radiostation list	To display radiostations service context.	see page 106
contentsharing upnpav radiostation station add	Add an option.	see page 107
contentsharing upnpav radiostation station delete	Delete an option.	see page 108
contentsharing upnpav radiostation station list	List all options.	see page 109

contentsharing cifs list

To display CIFS service context.

contentsharing ftp config

To enable/disable FTP service.

contentsharing ftp config	[state = <{enabled disabled}>]	
where:		
state	Enabled/disabled FTP service.	OPTIONAL

contentsharing ftp list

To display FTP service context.

contentsharing upnpav config

To enable/disable UPnPAV service, to set the friendly name.

contentsharing upnpav config	<pre>[state = <{enabled disabled}>] [friendlyname = <quoted string="">]</quoted></pre>	
where:		
state	Enable/disable UPnPAV service.	OPTIONAL
friendlyname	upnpav friendly name.	OPTIONAL

contentsharing upnpav list

To display UPnPAV service context.

contentsharing upnpav radiostation config

To enable/disable radiostations service.

contentsharing upnpav radiostation config	[state = <{disabled enabled}>]	
where:		
state	Enabled/disabled radiostations service.	OPTIONAL

contentsharing upnpav radiostation list

To display radiostations service context.

contentsharing upnpav radiostation station add

Add an option.

contentsharing upnpav radiostation station add	<pre>name = <string> url = <string></string></string></pre>	
where:		
name	station name.	REQUIRED
url	station url	REQUIRED

contentsharing upnpav radiostation station delete

Delete an option.

contentsharing upnpav radiostation station delete	name = <string></string>	
where:		
name	station name.	REQUIRED

contentsharing upnpav radiostation station list

List all options.

SYNTAX:

where:

state	The state of the cwmp daemon.	OPTIONAL
mode	Set the operation mode of the cwmp daemon.	OPTIONAL
periodicInform	Set periodicInform flag of the cwmp daemon.	OPTIONAL
periodicInfInt	Set the interval between two periodicInform messages in seconds.	OPTIONAL
periodicInfTime	Set the UTC time the periodic inform will be synchronized upon.	OPTIONAL
sessionTimeout	Set HTTP session-timeout in seconds.	OPTIONAL
nolpTimeout	Set time (in seconds) ip may be 0 after uploading new config file. Modem will step back to old configuration when timeout is reached.	OPTIONAL
maxEnvelopes	Set the maximum number of SOAP envelopes send within one http-message.	OPTIONAL
connectionRequest	Set connection request flag of the cwmp daemon.	OPTIONAL

CONTENTSHARING COMMANDS

connectionReqPath	Set the path where the cwmp daemon can be reached.	OPTIONAL
connectionReqUserName	Set the username the ACS must use to log in.	OPTIONAL
connectionReqPsswd	Set the password the ACS must use to log in.	OPTIONAL
connectionReqAuth	Set the authentication type of modem CWMP server for asynchronous connects.	OPTIONAL
bootdelayrange	Set the delay on boot before inform is sent.	OPTIONAL
upgradedelay	Set whether to delay upgrade if statecheck is active.	OPTIONAL
delaytimeoutaction	Set the action to perform when statecheck goes into timeout.	OPTIONAL
am1Termination	Set if am 1 session termination is enabled.	OPTIONAL
persistentSubscription	The cwmp daemon has persistent subscriptions.	OPTIONAL
connection Req Throt Number	Set the connection request throttling maximum number of accepted requests within period.	OPTIONAL
connection Req Throt Time	Set the connection request throttling period in seconds in which max requests is reached.	OPTIONAL
showPasswords	Show all passwords in IGD as plaintext. When 0 then will be emptie stringed as the standard requests.	OPTIONAL
urlSource	The name of DHCP client which the URL comes from.	OPTIONAL

cwmp Commands

cwmp debug traceconfig Enable or disable tracing. see page 112

cwmp server config Configure the cwmpd towards the ACS. see page 113

cwmp debug traceconfig

Enable or disable tracing.

cwmp debug traceconfig	[level = <number>]</number>	
where:		
level	Set the tracelevel (0-2).	OPTIONAL

cwmp server config

Configure the cwmpd towards the ACS.

SYNTAX:

cwmp server config	<pre>[url = <string>] [username = <string>] [password = <password>] Execute a 'Trace & Debug' command qualified personnel only. = <pass< pre=""></pass<></password></string></string></pre>	
where:		
url	Set the HTTP URL used to contact the ACS server.	OPTIONAL
username	Set the username for ACS Digest Authentication.	OPTIONAL
password	Set the password for ACS Digest Authentication.Command: debug exec	OPTIONAL
Execute a 'Trace & Debug' command. For qualified personnel only.	Syntax : exec cmd = <quoted string=""></quoted>	REQUIRED

SYNTAX:

cwmp server config	<pre>cmd = <quoted string=""> Create a DHCP client. = <quoted string=""></quoted></quoted></pre>	
where:		
cmd	Quoted 'Trace & Debug' command stringCommand: dhcp client ifadd	REQUIRED
Create a DHCP client.	$Syntax: if add intf = \langle \{Internet Local Network\} \rangle$	REQUIRED

cwmp server config	<pre>intf = <{Internet LocalNetwork}></pre>	
where:		
intf	The name of the interface on which a DHCP Client is defined.	REQUIRED

DHCP COMMANDS

dhcp Commands

dhcp client debug clear	Clear DHCP client statistics	see page 118
dhcp client debug stats	Print DHCP client statistics	see page 119
dhcp client debug traceconfig	Modify DHCP client trace configuration	see page 120
dhcp client flush	Delete all DHCP clients.	see page 121
dhcp client ifattach	Activate a DHCP client.	see page 122
dhcp client ifconfig	Configure a DHCP client.	see page 123
dhcp client ifdelete	Delete a DHCP client.	see page 124
dhcp client ifdetach	De-activate a DHCP client and releases its lease.	see page 125
dhcp client iflist	List DHCP clients.	see page 126
dhcp client ifrenew	Renew a DHCP lease.	see page 127
dhcp client rqoptions add	Add a DHCP Option Code to the Parameter Request List.	see page 128
dhcp client rqoptions delete	Delete a DHCP Option Code from the Parameter Request List.	see page 129
dhcp client rqoptions list	List all DHCP Option Codes in the Parameter Request List.	see page 130
dhcp client rqoptions optionlist	List all DHCP Option Codes that can be used in the Parameter Request List.	see page 131
dhcp client txoptions add	Add an option.	see page 132
dhcp client txoptions delete	Delete an option.	see page 134
dhcp client txoptions list	List all options.	see page 135
dhcp client txoptions optionlist	Lists all DHCP Option Codes that can be used.	see page 136
dhcp relay add	Add an entry to the DHCP forward list.	see page 137
dhcp relay config	Sets the relay configuration settings.	see page 138
dhcp relay debug stats	Print DHCP relay statistics.	see page 139
dhcp relay debug traceconfig	Modify DHCP relay trace configuration	see page 140
dhcp relay delete	Delete an entry from the DHCP forward list.	see page 141
dhcp relay flush	Flushes the DHCP relay settings.	see page 142
dhcp relay ifconfig	Configure a relay interface.	see page 143

DHCP COMMANDS

dhcp relay iflist	Show the configuration of the relay interfaces.	see page 144
dhcp relay list	List the DHCP forward list.	see page 145
dhcp relay modify	Modify an entry from the DHCP forward list.	see page 146
dhcp relay ruleadd	Add a selection rule to a DHCP forward entry	see page 147
dhcp relay ruledelete	Delete a selection rule from a DHCP forward entry	see page 148
dhcp rule add	Add a rule for DHCP conditional selection	see page 149
dhcp rule debug traceconfig	Modify DHCP rule trace configuration	see page 151
dhcp rule delete	Delete a DHCP rule	see page 152
dhcp rule flush	Flush all DHCP rules	see page 153
dhcp rule list	List all DHCP rules	see page 154
dhcp server config	Print DHCP server configuration settings	see page 155
dhcp server debug clear	Clear DHCP server statistics	see page 156
dhcp server debug stats	Print DHCP server statistics	see page 157
dhcp server debug traceconfig	Modify DHCP server trace configuration	see page 158
dhcp server flush	Flush all DHCP server pool and lease entries	see page 159
dhcp server lease add	Add a DHCP server lease	see page 160
dhcp server lease delete	Delete a DHCP server lease	see page 161
dhcp server lease flush	Flush all DHCP server leases	see page 162
dhcp server lease list	List all DHCP server leases	see page 163
dhcp server option flush	Flush all DHCP server option templates and instances	see page 164
dhcp server option instadd	Add a DHCP server option instance	see page 165
dhcp server option instdelete	Delete a DHCP server option instance	see page 166
dhcp server option instlist	List all DHCP server option instances	see page 167
dhcp server option ruleadd	Add a selection rule to a DHCP server option instance	see page 168
dhcp server option ruledelete	Delete a selection rule from a DHCP server option instance	see page 169
dhcp server option tmpladd	Add a DHCP server option template	see page 170
dhcp server option tmpldelete	Delete a DHCP server option template	see page 171
dhcp server option tmpllist	List all DHCP server option templates	see page 172

dhcp server policy	Print DHCP server policy settings	see page 173
dhcp server pool add	Add a DHCP server pool	see page 174
dhcp server pool config	Configure a DHCP server pool	see page 175
dhcp server pool delete	Delete a DHCP server pool	see page 177
dhcp server pool flush	Flush all DHCP server pools	see page 178
dhcp server pool list	List all DHCP server pools	see page 179
dhcp server pool optadd	Add an option instance to the DHCP server pool	see page 180
dhcp server pool optdelete	Delete an option instance from the DHCP server pool	see page 181
dhcp server pool rtadd	Add a route to the DHCP server pool	see page 182
dhcp server pool rtdelete	Delete a route from the DHCP server pool	see page 183
dhcp server pool ruleadd	Add a selection rule to the DHCP server pool	see page 184
dhcp server pool ruledelete	Delete a selection rule from the DHCP server pool	see page 185
dhcp spoofing add	Add a Spoofing-Association	see page 186
dhcp spoofing attach	Enable a Spoofing-Association	see page 187
dhcp spoofing config	Display/modify dhcp spoofing state	see page 188
dhcp spoofing debug traceconfig	Display/modify DHCP spoofing trace configuratin	see page 189
dhcp spoofing delete	Delete a Spoofing-Association	see page 190
dhcp spoofing detach	Disable a Spoofing-Association	see page 191
dhcp spoofing flush	Flush all the associations and the options.	see page 192
dhcp spoofing list	List the available Spoofing-Associations	see page 193
dhcp spoofing option-add	Add a DHCP Option Code to a Spoofing- Association.	see page 194
dhcp spoofing option-delete	Delete a DHCP Option Code from a Spoofing- Association.	see page 195

dhcp client debug clear

Clear DHCP client statistics

dhcp client debug stats

Print DHCP client statistics

dhcp client debug traceconfig

Modify DHCP client trace configuration

dhcp o	client debug	traceconfig	[state = <{disabled enabled}>]	
where:				
state		Ena	ble/Disable tracing.	OPTIONAL

dhcp client flush

Delete all DHCP clients.

dhcp client ifattach

Activate a DHCP client.

dhcp client ifattach	intf = <>	
where:		
intf	The name of the interface on which a DHCP Client is defined.	REQUIRED

dhcp client ifconfig

Configure a DHCP client.

dhcp client ifconfig where:	<pre>intf = <> [label = <{None DSCP Interactive Mar Video VoIP-RTP VoIP-Signal default}; [metric = <number{0-255}>] [dnsmetric = <number{0-100}>] [broadcast = <{disabled enabled}>] [serverroute = <{disabled enabled}>; [followlabel = <{disabled enabled}>;</number{0-100}></number{0-255}></pre>)
intf	The name of the dynamic interface to be configured.	REQUIRED
label	Label for default gateway and static routes.	OPTIONAL
metric	Route metric for default gateway and static routes.	OPTIONAL
dnsmetric	DNS route metric.	OPTIONAL
broadcast	Operate client in unicast/broadcast mode.	OPTIONAL
serverroute	Insert a route for the DHCP server IP	OPTIONAL
followlabel	If enabled the DHCP client's unicast traffic will follow the route label specified. If disabled DHCP unicast traffic will follow standard routes	OPTIONAL

dhcp client ifdelete

Delete a DHCP client.

dhcp client ifdelete	intf = <>	
where:		
intf	The name of the interface on which a DHCP Client is defined.	REQUIRED

dhcp client ifdetach

De-activate a DHCP client and releases its lease.

dhcp client ifdetach	intf = <>	
where:		
intf	The name of the interface on which a DHCP Client is defined.	REQUIRED

dhcp client iflist

List DHCP clients.

dhcp client iflist	<pre>[intf = <>] [expand = <{disabled enabled}>]</pre>	
where:		
intf	The name of the interface on which a DHCP Client is defined.	OPTIONAL
expand	Expand enabled/disabled.	OPTIONAL

dhcp client ifrenew

Renew a DHCP lease.

dhcp client ifrenew	intf = <>	
where:		
intf	The name of the interface on which a DHCP Client is defined.	REQUIRED

dhcp client rqoptions add

Add a DHCP Option Code to the Parameter Request List.

dhcp client rqoptions add	<pre>intf = <> option = <{subnet-mask time-offset default- routers time-servers ienl16-name-impress- servers resource-location-servers host- name boot-file-size merit-dump domain-name swap-server root-path extensions-path ip- forwarding non-local-source-routing policy- filter max-dgram-reassembly default-ip-ttl path-mtu-aging-timeout path-mtu-plateau-table interface-mtu all-subnets-local broadcast- address perform-mask-discovery mask-supplier router-discovery router-solicitation-address classfull-static-routes trailer-encapsulation arp-cache-timeout ieee802-3-encapsulation default-tcp-ttl tcp-keepalive-interval tcp- keepalive-garbage nis-domain nis-servers ntp- servers vendor-specific_info netbios-name- servers netbios-dd-server netbios-node-type netbios-scope font-servers x-display-manager dhcp-lease-time dhcp-server-identifier dhcp-parameter-request-list dhcp-renewal- time dhcp-rebinding-time nwip-domain nwip- suboptions nisplus-domain nisplus-servers tftp-server-name bootfile-name mobile-ip-home- agent smtp-server pop-server nntp-server www- server singer-server irc-server streettalk- server streettalk-directory-assistance- server str</pre>
	[index = <number{0-255}>]</number{0-255}>

intf	The name of the interface on which a DHCP Client is defined.	REQUIRED
option	The name or number of the option.	REQUIRED
index	The index of the option.	OPTIONAL

dhcp client rqoptions delete

Delete a DHCP Option Code from the Parameter Request List.

SYNTAX:

<pre>intf = <> option = <{subnet-mask time-offset default- routers time-servers ien116-name-impress- servers resource-location-servers host- name boot-file-size merit-dump domain-name swap-server root-path extensions-path ip- forwarding non-local-source-routing policy- filter max-dgram-reassembly default-ip-ttl path-mtu-aging-timeout path-mtu-plateau-table interface-mtu all-subnets-local broadcast- address perform-mask-discovery mask-supplier router-discovery router-solicitation-address classfull-static-routes trailer-encapsulation arp-cache-timeout ieee802-3-encapsulation default-tcp-ttl tcp-keepalive-interval tcp- keepalive-garbage nis-domain nis-servers ntp- servers vendor-specific_info netbios-name- servers netbios-dd-server netbios-node-type netbios-scope font-servers x-display-manager dhcp-lease-time dhcp-server-identifier dhcp-parameter-request-list dhcp-renewal- time dhcp-rebinding-time nwip-domain nwip- suboptions nisplus-domain nisplus-servers tftp-server-name bootfile-name mobile-ip-home- agent smtp-server pop-server nntp-server www- server streettalk-directory-assistance- server streettalk-directory-assistance- server stp-directory-agent slp-service-scope rapid_commit client-fqdn internet-storage- name-servers #84 nds-servers nds-tree-name nds-context #88 #89 dhcp-msg-authentication client-last-transaction-time } or number></pre>
errent last transaction time or number

where:

intf	The name of the interface on which a DHCP Client is defined.	REQUIRED
option	The name or number of the option.	REQUIRED

dhcp client rqoptions list

List all DHCP Option Codes in the Parameter Request List.

dhcp client rqoptions list	[intf = <>]	
where:		
intf	The name of the interface on which a DHCP Client is defined.	OPTIONAL

dhcp client rqoptions optionlist

List all DHCP Option Codes that can be used in the Parameter Request List.

dhcp client txoptions add

Add an option.

$[index = < number \{0-255\} >]$	server name swap forw filt path into address of the server server server address of the server serve	<pre>derprise = <number{1-2147483647}>] coption = <number{1-254}>] de = <value (type)value;="" 16-bit,="" 32-bit,="" 8-="" :="" addr,="" being="" type=""></value></number{1-254}></number{1-2147483647}></pre>
-----------------------------------	--	---

W	h	e	r	e	:
٠.		_	•	_	-

intf	The name of the interface on which a DHCP Client is defined.	REQUIRED
option	The name or number of the option.	REQUIRED
enterprise	The enterprise number (see http://www.iana.org/assignments/enterprise- numbers)	OPTIONAL

suboption	The suboption number	OPTIONAL
value	The value of the option.	REQUIRED
index	The index of the (sub)option/enterprise number in the Option List.	OPTIONAL

dhcp client txoptions delete

Delete an option.

nds-tree-name nds-context #88 #89 } or number> [enterprise = <number{1-2147483647}>] [suboption = <number{1-254}>]</number{1-254}></number{1-2147483647}>	s n si f f f p i.i. a.i. r c a a d k n s s a a d d d c n n n s f f s s u s i.i. n n n l	number> enterprise = <number{1-2147483647}>]</number{1-2147483647}>
---	---	--

W	he	re:

intf	The name of the interface on which a DHCP Client is defined.	REQUIRED
option	The name or number of the option.	REQUIRED
enterprise	The enterprise number (see http://www.iana.org/assignments/enterprise- numbers)	OPTIONAL
suboption	The suboption number	OPTIONAL

dhcp client txoptions list

List all options.

dhcp client txoptions list	<pre>[intf = <>] [expand = <{disabled enabled}>]</pre>	
where:		
intf	The name of the interface on which a DHCP Client is defined.	OPTIONAL
expand	Expand enabled/disabled.	OPTIONAL

dhcp client txoptions optionlist

Lists all DHCP Option Codes that can be used.

dhcp relay add

Add an entry to the DHCP forward list.

dhcp relay add	name = <string></string>	
where:		
name	The forward entry name.	REQUIRED

dhcp relay config

Sets the relay configuration settings.

dhcp relay config	<pre>[agentinfo = <{disabled enabled}>] [agentmismatch = <{disabled enabled</pre>	}>]
where:		
agentinfo	Set the relay agent info status (RFC3046).	OPTIONAL
agentmismatch	Forward/Drop DHCP reply packet when a relay agent info mismatch is detected (RFC3046).	OPTIONAL

dhcp relay debug stats

Print DHCP relay statistics.

dhcp relay debug traceconfig

Modify DHCP relay trace configuration

dhcp relay debug tracecon	nfig [state = <{disabled enabled}>	•]
where:		
state	Enable/Disable tracing.	OPTIONAL

dhcp relay delete

Delete an entry from the DHCP forward list.

dhcp relay delete	name = <{LocalNetwork_to_1	127.0.0.1}>
where:		
name	The forward entry name.	REQUIRED

dhcp relay flush

Flushes the DHCP relay settings.

dhcp relay ifconfig

Configure a relay interface.

dhcp relay ifconfig	<pre>intf = <{LocalNetwork Internet}> [relay = <{disabled enabled}>] [maxhops = <number{0-16}>] [remoteid = <password>] [trusted = <{disabled enabled}>]</password></number{0-16}></pre>	
where:		
intf	The name of the relay interface to configure.	REQUIRED
relay	Set the relay status.	OPTIONAL
maxhops	Set the maximum number of hops allowed in the DHCP packet.	OPTIONAL
remoteid	Set the remote id as specified in RFC3046.	OPTIONAL
trusted	Drop/Forward DHCP request packet when a relay agent info option is present and the giaddr field is 0 (RFC3046).	OPTIONAL

dhcp relay iflist

Show the configuration of the relay interfaces.

dhcp relay iflist	<pre>[intf = <{LocalNetwork Internet}>]</pre>	
where:		
intf	The name of the relay interface.	OPTIONAL

dhcp relay list

List the DHCP forward list.

dhcp relay list	[name = <{LocalNetwork_to_	_127.0.0.1}>]
where:		
name	The forward entry name.	OPTIONAL

dhcp relay modify

Modify an entry from the DHCP forward list.

dhcp relay modify	<pre>name = <{LocalNetwork_to_127.0.0.1 [addr = <ip-address>] [intf = <{None LocalNetwork Interr [giaddr = <ip-address>] [script = <>]</ip-address></ip-address></pre>	
where:		
name	The forward entry name.	REQUIRED
addr	The DHCP server IP address.	OPTIONAL
intf	The name of the relay interface, 'None' to indicate no interface is specified.	OPTIONAL
giaddr	The giaddr field to be used in relayed DHCP packets.	OPTIONAL
script	Script to be run when the forward entry is hit.	OPTIONAL

dhcp relay ruleadd

Add a selection rule to a DHCP forward entry

dhcp relay ruleadd	<pre>name = <{LocalNetwork_to_127. [key = <{or and}>] rulename = <></pre>	0.0.1}>
where:		
name	The name of the forward entry.	REQUIRED
key	The logical key of the selection rule.	OPTIONAL
rulename	The name of the DHCP selection rule.	REQUIRED

dhcp relay ruledelete

Delete a selection rule from a DHCP forward entry

dhcp relay ruledelete	<pre>name = <{LocalNetwork_to_127.0.0.1}> rulename = <></pre>		
where:			
name	The name of the forward entry.	REQUIRED	
rulename	The name of the DHCP selection rule.	REQUIRED	

dhcp rule add

Add a rule for DHCP conditional selection

SYNTAX:

subrule = <>

where:

name The name of the DHCP rule. REQUIRED

DHCP COMMANDS

type	Specify the DHCP rule type.	REQUIRED
option [!]	The name or number of the option.	REQUIRED
	If a value is preceded by a "!", it means NOT.	
enterprise	The enterprise number (see http://www.iana.org/assignments/enterprise- numbers)	OPTIONAL
suboption	The suboption number	OPTIONAL
value	The value of the option.	OPTIONAL
match	The option value matching.	OPTIONAL
mac [!]	The mac address.	REQUIRED
	If a value is preceded by a "!", it means NOT.	
key	The logical key of the subrule.	OPTIONAL
subrule	The name of the DHCP subrule.	REQUIRED

dhcp rule debug traceconfig

Modify DHCP rule trace configuration

dhcp rule debug traceconfig	[state = <{disabled enabled}>]	
where:		
state	Enable/Disable tracing.	OPTIONAL

dhcp rule delete

Delete a DHCP rule

dhcp rule delete	<pre>name = <> subrule = <></pre>	
where:		
name	The name of the DHCP rule.	REQUIRED
subrule	The name of the DHCP subrule.	REQUIRED

dhcp rule flush

Flush all DHCP rules

dhcp rule list

List all DHCP rules

dhcp server config

Print DHCP server configuration settings

dhcp server config	[state = <{disabled enabled}>]	
where:		
state	Enable/Disable the DHCP server.	OPTIONAL

dhcp server debug clear

Clear DHCP server statistics

dhcp server debug stats

Print DHCP server statistics

dhcp server debug traceconfig

Modify DHCP server trace configuration

dhcp	server de	ebug	traceconfig	3	[state = <{disabled enabled}>]	
where:						
state				Enal	ble/Disable tracing.	OPTIONAL

dhcp server flush

Flush all DHCP server pool and lease entries

dhcp server lease add

Add a DHCP server lease

dhcp server lease add	<pre>clientid = <clientid> pool = <{LAN_private}> [addr = <ip-address>] [offset = <number>] [lifetime = <number>] [leasetime = <number>] [gateway = <ip-address 0 none>] [macaddr = <hardware-address>] [allocation = <{automatic manual}>]</hardware-address></ip-address 0 none></number></number></number></ip-address></clientid></pre>	
where:		
clientid	The DHCP client identification string.	REQUIRED
pool	The name of the DHCP server pool.	REQUIRED
addr	The IP address for this client.	OPTIONAL
offset	The IP address offset in the pool preserved for this client.	OPTIONAL
lifetime	The time in seconds the DHCP server keeps the lease reserved (tip: 0 means infinite lifetime).	OPTIONAL
leasetime	The time in seconds the client is allowed to use an address (tip: 0 means infinite leasetime).	OPTIONAL
gateway	The IP address of the default router for this client.	OPTIONAL
macaddr	The host MAC address.	OPTIONAL
allocation	Define the client IP address allocation method (tip : automatic means the lease can be recycled).	OPTIONAL

dhcp server lease delete

Delete a DHCP server lease

dhcp server lease delete	<pre>[clientid = <clientid>] [index = <number>]</number></clientid></pre>	
where:		
clientid	The DHCP client identification string.	OPTIONAL
index	The DHCP server lease table index.	OPTIONAL

dhcp server lease flush

Flush all DHCP server leases

dhcp server lease flush	[pool = <{LAN_private}>]	
where:		
pool	The name of the DHCP server pool. Only the leases belonging to this pool will be deleted.	OPTIONAL

dhcp server lease list

List all DHCP server leases

dhcp server lease list	<pre>[clientid = <clientid>] [index = <number>]</number></clientid></pre>	
where:	<pre>[expand = <{disabled enabled}>]</pre>	
clientid	The DHCP client identification string.	OPTIONAL
index	The DHCP server lease table index.	OPTIONAL
expand	Expand enabled/disabled.	OPTIONAL

dhcp server option flush

Flush all DHCP server option templates and instances

dhcp server option instadd

Add a DHCP server option instance

dhcp server option instadd	<pre>name = <string> tmplname = <> [policy = <{requested always rules}>] [dynamic = <{disabled enabled}>] [maxuse = <number{1-255}>] [enterprise = <number{1-2147483647}>] [suboption = <number{1-254}>] value = <value (type)value;="" 16-bit,="" 32-bit,="" 8-bit,="" :="" addr,="" being="" type=""></value></number{1-254}></number{1-2147483647}></number{1-255}></string></pre>
where:	

name	The name of the DHCP server option instance.	REQUIRED
tmplname	The name of the DHCP server option template.	REQUIRED
policy	The transmit policy type for the DHCP server option instance.	OPTIONAL
dynamic	Enable/Disable option instance as dynamic.	OPTIONAL
maxuse	Maximum number of times an option instance can be used in DHCP pools	OPTIONAL
enterprise	The enterprise number (see http://www.iana.org/assignments/enterprise- numbers)	OPTIONAL
suboption	The suboption number	OPTIONAL
value	The value of the DHCP server option instance.	REQUIRED

dhcp server option instdelete

Delete a DHCP server option instance

dhcp server option instdelete	<pre>name = <> [enterprise = <number{11}>] [suboption = <number{1-254}>]</number{1-254}></number{11}></pre>	
where:		
name T	he name of the DHCP server option instance.	REQUIRED
·	he enterprise number (see http://www.iana.org/ ssignments/enterprise- numbers)	OPTIONAL
suboption T	he suboption number	OPTIONAL

dhcp server option instlist

List all DHCP server option instances

dhcp server option instlist	[name = <>]	
where:		
name	The name of the DHCP server option instance.	OPTIONAL

dhcp server option ruleadd

Add a selection rule to a DHCP server option instance

dhcp server option ruleadd	name = <> [key = <{or and}>] rulename = <>	
where:		
name	The name of the DHCP server option instance.	REQUIRED
key	The logical key of the selection rule.	OPTIONAL
rulename	The name of the DHCP selection rule.	REQUIRED

dhcp server option ruledelete

Delete a selection rule from a DHCP server option instance

dhcp server option ruledelete	name = <> rulename = <>	
where:		
name	The name of the DHCP server option instance.	REQUIRED
rulename	The name of the DHCP selection rule.	REQUIRED

dhcp server option tmpladd

Add a DHCP server option template

dhcp server option tmpladd	<pre>name = <string> optionid = <number{1-254}> [dynamic = <{disabled enabled}>]</number{1-254}></string></pre>	
where:		
name	The name of the DHCP server option template.	REQUIRED
optionid	Specify the DHCP server option code.	REQUIRED
dynamic	Enable/Disable option template as dynamic.	OPTIONAL

dhcp server option tmpldelete

Delete a DHCP server option template

dhcp server option tmp	pldelete name = <>	
where:		
name	The name of the DHCP server option template.	REQUIRED

dhcp server option tmpllist

List all DHCP server option templates

dhcp server policy

Print DHCP server policy settings

dhcp server policy	<pre>[verifyfirst = <{disabled enabled}>] [trustclient = <{disabled enabled}>] [rtbehaviour = <{traditional standard msft}>] [ackinform = <{disabled enabled}>]</pre>	
where:		
verifyfirst	Enable/Disable IP address conflict network probing before handing out an address to a client.	OPTIONAL
trustclient	Whether or not the IP address suggested by a DHCP client should be taken into account.	OPTIONAL
rtbehaviour	Define the DHCP Server's route options behaviour. The options that are involved are: 3, 33, 121 and 249. "Traditional" will return 3 and/or 33; "standard" will return 3 and/or 33 or 121; "msft" will return 3 and/or 33 or 121 or 249	OPTIONAL
ackinform	Enable/Disable DHCP inform acknowledgement for an unknown lease	OPTIONAL

dhcp server pool add

Add a DHCP server pool

dhcp server pool add	<pre>name = <string> [index = <number>]</number></string></pre>	
where:		
name	The name of the DHCP server pool.	REQUIRED
index	The number of the pool before which you want the new pool to be added.	OPTIONAL

dhcp server pool config

Configure a DHCP server pool

SYNTAX:

```
dhcp server pool config
                                 name = <{LAN_private}>
                                 [state = <{disabled|enabled}>]
                                 [allocation = <{dynamic|automatic}>]
                                 [intf = <{Internet|LocalNetwork}>]
                                 [index = <number>]
                                 [poolstart = <ip-address>]
                                 [poolend = <ip-address>]
                                 [netmask = <ip-mask(dotted or cidr)>]
                                 [gateway = <ip-address|0|none>]
                                 [server = <ip-address|none>]
                                 [primdns = <ip-address|none>]
                                 [secdns = <ip-address|none>]
                                 [primwins = <ip-address|none>]
                                 [secwins = <ip-address|none>]
                                 [leasetime = <number\{0-1814400\}>]
                                 [renewtime = <number\{0-1814400\}>]
                                 [rebindtime = <number\{0-1814400\}>]
                                 [lockouttime = <number\{0-1814400\}>]
                                 [unnumbered = <{disabled|enabled}>]
                                 [localgw = <{disabled|enabled}>]
                                 [localdns = <{disabled|enabled}>]
```

where:

name	The name of the DHCP server pool.	REQUIRED
state	Enable/Disable the DHCP server pool admin state.	OPTIONAL
allocation	Define the DHCP Server's pool allocation method (tip: automatic means the IP address becomes reserved for the lease).	OPTIONAL
intf	The interface for which the pool is allowed to lease IP addresses.	OPTIONAL
index	The number of the pool before which you want the new pool to be added.	OPTIONAL
poolstart	The DHCP server pool start IP address.	OPTIONAL
poolend	The DHCP server pool end IP address.	OPTIONAL
netmask	The DHCP server pool netmask.	OPTIONAL
gateway	The IP address of the default router for DHCP clients.	OPTIONAL
server	The IP address of the DHCP server for DHCP clients.	OPTIONAL

DHCP COMMANDS

primdns	The IP address of the primary DNS server for DHCP clients.	OPTIONAL
secdns	The IP address of the secondary DNS server for DHCP clients.	OPTIONAL
primwins	The IP address of the primary WINS server for DHCP clients.	OPTIONAL
secwins	The IP address of the secondary WINS server for DHCP clients.	OPTIONAL
leasetime	The time in seconds a client is allowed to use an address (tip: 0 means infinite lease).	OPTIONAL
renewtime	The time in seconds before a client switches to renewing.	OPTIONAL
rebindtime	The time in seconds before a client switches to rebinding.	OPTIONAL
lockouttime	The time in seconds before a stopped lease becomes available again (tip: 0 means infinite lockout time).	OPTIONAL
unnumbered	Assign an IP address from this pool to the DHCP server or not (ppp pools only).	OPTIONAL
localgw	Proxy for a virtual default gateway residing in same subnet of DHCP client instead of the remote peer address.	OPTIONAL
localdns	Enable/Disable the transmission of the local DNS server in the DNS server option.	OPTIONAL

dhcp server pool delete

Delete a DHCP server pool

dhcp server pool delete	<pre>name = <{LAN_private}></pre>	
where:		
name	The name of the DHCP server pool.	REQUIRED

dhcp server pool flush

Flush all DHCP server pools

dhcp server pool list

List all DHCP server pools

dhcp server pool list	[name = <{LAN_private}>]	
where:		
name	The name of the DHCP server pool.	OPTIONAL

dhcp server pool optadd

Add an option instance to the DHCP server pool

dhcp server pool optadd	<pre>name = <{LAN_private}> instname = <></pre>	
where:		
name	The name of the DHCP server pool.	REQUIRED
instname	The name of the DHCP server option instance.	REQUIRED

dhcp server pool optdelete

Delete an option instance from the DHCP server pool

dhcp server pool optdelete	<pre>name = <{LAN_private}> instname = <></pre>	
where:		
name	The name of the DHCP server pool.	REQUIRED
instname	The name of the DHCP server option instance.	REQUIRED

dhcp server pool rtadd

Add a route to the DHCP server pool

dhcp server pool rtadd	<pre>name = <{LAN_private}> dst = <ip-address> [dstmsk = <ip-mask(dotted cidr)="" or="">] [gateway = <ip-address 0>]</ip-address 0></ip-mask(dotted></ip-address></pre>	
where:		
name	The name of the DHCP server pool.	REQUIRED
dst	The IP destination address of the route for DHCP clients.	REQUIRED
dstmsk	The destination IP address mask.	OPTIONAL
gateway	The IP address of the next hop. Must be directly connected to the DHCP client	OPTIONAL

dhcp server pool rtdelete

Delete a route from the DHCP server pool

dhcp server pool rtdelete	<pre>name = <{LAN_private}> dst = <ip-address> [dstmsk = <ip-mask(dotted cidr)="" or="">] [gateway = <ip-address 0>]</ip-address 0></ip-mask(dotted></ip-address></pre>	
where:	[gaceway = \Ip auuless 0/]	
name	The name of the DHCP server pool.	REQUIRED
dst	The IP destination address of the route for DHCP clients.	REQUIRED
dstmsk	The destination IP address mask.	OPTIONAL
gateway	The IP address of the next hop. Must be directly connected to the DHCP client	OPTIONAL

dhcp server pool ruleadd

Add a selection rule to the DHCP server pool

dhcp server pool ruleadd	<pre>name = <{LAN_private}> [key = <{or and}>] rulename = <></pre>	
where:		
name	The name of the DHCP server pool.	REQUIRED
key	The logical key of the selection rule.	OPTIONAL
rulename	The name of the DHCP selection rule.	REQUIRED

dhcp server pool ruledelete

Delete a selection rule from the DHCP server pool

dhcp server pool ruledelete	<pre>name = <{LAN_private}> rulename = <></pre>	
where:		
name	The name of the DHCP server pool.	REQUIRED
rulename	The name of the DHCP selection rule.	REQUIRED

dhcp spoofing add

Add a Spoofing-Association

dhcp spoofing add	<pre>name = <string> pool_name = <{LAN_private}> ifname = <></string></pre>	
where:		
name	The name of the Association.	REQUIRED
pool_name	The name of the pool to be associated.	REQUIRED
ifname	The name of the interface on which a DHCP Client is defined.	REQUIRED

dhcp spoofing attach

Enable a Spoofing-Association

dhcp spoofing attach	name = <{ }>	
where:		
name	The name of the Association.	REQUIRED

dhcp spoofing config

Display/modify dhcp spoofing state

dhcp spoofing config	[state = <{enabled disabled}>]	
where:		
state	Enable/Disable spoofing.	OPTIONAL

dhcp spoofing debug traceconfig

Display/modify DHCP spoofing trace configuratin

SYNTAX:

dhcp spoofing debug traceconfig	<pre>[state = <{disabled enabled}>] Add a DNS server. = <{disabled enabled}></pre>	
where:		
state	Enable/Disable tracing.Command: dns client dnsadd	OPTIONAL
Add a DNS server.	Syntax : dnsadd addr = <string> [port = <number>]</number></string>	REQUIRED

dhcp spoofing debug traceconfig	addr = <string> [port = <number>]</number></string>	
where:		
addr	The DNS server IP address.	REQUIRED
port	The DNS server port number.	OPTIONAL

dhcp spoofing delete

Delete a Spoofing-Association

dhcp spoofing delet	name = <{ }>	
where:		
name	The name of the Association.	REQUIRED

dhcp spoofing detach

Disable a Spoofing-Association

dhcp spoofing detach	name = $<\{ \}>$	
where:		
name	The name of the Association.	REQUIRED

dhcp spoofing flush

Flush all the associations and the options.

dhcp spoofing list

List the available Spoofing-Associations

dhcp spoof	ing list	[name = <{ }>]	
where:			
name		The name of the Association.	OPTIONAL

dhcp spoofing option-add

Add a DHCP Option Code to a Spoofing-Association.

dhcp spoofing option-add	name = <{ }> option = <}>	
where:		
name	The name of the Association.	REQUIRED
option	The option id.	REQUIRED

dhcp spoofing option-delete

Delete a DHCP Option Code from a Spoofing-Association.

dhcp spoofing option-delete	name = <{ }> option = <}>	
where:		
name	The name of the Association.	REQUIRED
option	The option id.	REQUIRED

DNS COMMANDS

dns Commands

dns client config	Modify the DNS resolver configuration.	see page 198
dns client dnsdelete	Delete a DNS server.	see page 199
dns client dnslist	List all DNS servers.	see page 200
dns client flush	Remove all DNS servers.	see page 201
dns client nslookup	DNS lookup for a domain name or an address.	see page 202
dns server config	DNS server configuration settings	see page 203
dns server debug clear	Clear the DNS server/forwarder statistics.	see page 204
dns server debug spoof clear	Clear the intercept cache table	see page 205
dns server debug spoof getaddress	Get the real ip for the given spoofed ip	see page 206
dns server debug spoof getflags	Get the error flags for the given spoofed ip	see page 207
dns server debug spoof list	List the intercept cache table.	see page 208
dns server debug spoof update	update the intercept cache table	see page 209
dns server debug stats	Print the DNS server/forwarder statistics.	see page 210
dns server flush	Flush all local DNS hosts and routes.	see page 211
dns server host add	Add a local DNS host	see page 212
dns server host delete	Delete a local DNS host	see page 213
dns server host flush	Flush all local DNS hosts	see page 214
dns server host list	List all local DNS hosts	see page 215
dns server route add	Creates a DNS forwarding entry or template	see page 216
dns server route delete	Deletes a DNS forwarding entry or template	see page 217
dns server route flush	Removes all DNS forwarding entries and templates	see page 218
dns server route list	Lists all DNS forwarding entries and templates	see page 219

dns client config

Modify the DNS resolver configuration.

SYNTAX:

$= < number \{1-900\} > 1$
<number{0-10}>]</number{0-10}>
<{disabled enabled}>]
<{disabled enabled}>]
string>]
<{disabled enabled}>]
\ \ \

where:

timeout	The query timeout in seconds.	OPTIONAL
retry	The number of query retries before giving up.	OPTIONAL
state	Enable/disable the DNS client.	OPTIONAL
search	Use the searchlist to construct fully qualified domain names.	OPTIONAL
list	Slash separated list of domain name suffixes.	OPTIONAL
trace	Enable or disable verbose logging.	OPTIONAL

dns client dnsdelete

Delete a DNS server.

dns client dnsdelete	$index = < number \{1-99\} >$	
where:		
index	The index number (shown by the 'list' command) of the server to delete.	REQUIRED

dns client dnslist

List all DNS servers.

dns client flush

Remove all DNS servers.

dns client nslookup

DNS lookup for a domain name or an address.

dns client nslookup	host = <string></string>	
where:		
host	The DNS domain name string to query.	REQUIRED

dns server config

DNS server configuration settings

SYNTAX:

dns server config	[domain = <string>]</string>
	$[timeout = < number {0-120}>]$
	$[suppress = < number {0-400}>]$
	[state = <{disabled enabled}>]
	[trace = <{disabled enabled}>]
	[syslog = <{disabled enabled}>]
	[WANDownSpoofing = <{disabled enabled}>]
	[WDSpoofedIP = <ip-address>]</ip-address>
	[MDSpooledII IIp addlebb.]

where:

domain	The DNS server domain name.	OPTIONAL
timeout	The forwarded DNS query timeout.	OPTIONAL
suppress	Suppress not more than specified amount of remote DNS server errors.	OPTIONAL
state	Enable/disable the local DNS server/forwarder.	OPTIONAL
trace	Enable/disable verbose console logging.	OPTIONAL
syslog	Enable/disable SYSLOG for DNS events.	OPTIONAL
WANDownSpoofing	Enable/disable DNS spoofing when no applicable forwarding route present.	OPTIONAL
WDSpoofedIP	IP address used for spoofing when WANDownSpoofing enabled.	OPTIONAL

dns server debug clear

Clear the DNS server/forwarder statistics.

dns server debug spoof clear

Clear the intercept cache table

dns server debug spoof getaddress

Get the real ip for the given spoofed ip

dns server debug spoof getaddress	addr = <ip-address></ip-address>	
where:		
addr	The spoofed ip to look up.	REQUIRED

dns server debug spoof getflags

Get the error flags for the given spoofed ip

dns server debug spoof getflags	addr = <ip-address></ip-address>	
where:		
addr T	he spoofed ip to look up.	REQUIRED

dns server debug spoof list

List the intercept cache table.

dns server debug spoof update

update the intercept cache table

dns server debug stats

Print the DNS server/forwarder statistics.

dns server flush

Flush all local DNS hosts and routes.

dns server host add

Add a local DNS host

dns server host add	<pre>name = <string> [addr = <ip-address>] [ttl = <p-address>]</p-address></ip-address></string></pre>	
where:		
name	The name of an IP host to add.	REQUIRED
addr	The IP address of the host.	OPTIONAL
ttl	The lifetime of the host.	OPTIONAL

dns server host delete

Delete a local DNS host

dns server host delete	name = <string></string>	
where:		
name	The name of an IP host to delete.	REQUIRED

dns server host flush

Flush all local DNS hosts

dns server host list

List all local DNS hosts

dns server route add

Creates a DNS forwarding entry or template

dns server route add	<pre>dns = <ip-address> [src = <ip-address>] [srcmask = <ip-mask(dotted cidr)="" or=""> [domain = <string>] [metric = <number{0-100}>] [label = <{None DSCP Interactive MarVideo VoIP-RTP VoIP-Signal default}> [intf = <{loop Internet LocalNetwork</number{0-100}></string></ip-mask(dotted></ip-address></ip-address></pre>	nagement >]
dns	The IP address of a DNS server. If 0.0.0.0 is used, the entry becomes a DNS-Template which is instantiated if DNS Server IPs are configured on an IP interface.	REQUIRED
src	If specified, only DNS queries from machines of which the source IP address matches the source prefix of the DNS entry will be forwarded to the corresponding DNS server.	OPTIONAL
srcmask	The IP address mask for the source prefix.	OPTIONAL
domain	Domain matching string. If configured, only those DNS queries of which the domain name in the query matches with the string configured for the entry will be forwarded to the corresponding DNS Server. Maximum string length: 62 characters	OPTIONAL
metric	The metric for the DNS entry. The DNS Entry List is sorted on DNS Metric; the lower the metric, the higher the priority of the entry.	OPTIONAL
label	The label associated with the DNS entry or DNS Template.	OPTIONAL
intf	The interface associated with the DNS entry or DNS Template.	OPTIONAL

dns server route delete

Deletes a DNS forwarding entry or template

dns server route delete	<pre>dns = <ip-address> [domain = <string>] [intf = <{loop Internet LocalNetwon</string></ip-address></pre>	ork}>]
where:		
dns	The IP address of a DNS server.	REQUIRED
domain	The DNS domain string.	OPTIONAL
intf	The interface associated with the DNS entry or DNS Template.	OPTIONAL

dns server route flush

Removes all DNS forwarding entries and templates

dns server route list

Lists all DNS forwarding entries and templates

dns server route list	[state = <{disabled enabled a	[state = <{disabled enabled automatic}>]	
where:			
state	DSD framework operation mode	OPTIONAL	

DSD COMMANDS

dsd Commands

dsd debug config	Display/modify DSD debug settings	see page 223
dsd debug connection list	Display internal connection pool usage	see page 224
dsd debug proxy	Display/modify HTTPI fixed proxy settings	see page 225
dsd debug recycling	Display/modify HTTPI recycling settings	see page 226
dsd debug stats	Display/clear DSD framework and module statistics	see page 227
dsd intercept config	Display/modify HTTP Intercept configuration	see page 228
dsd syslog config	Display/modify HTTPI logging configuration	see page 229
dsd syslog list	Display HTTPI log file	see page 230
dsd urlfilter config	Display/modify url filtering configuration	see page 231
dsd urlfilter rule add	Add a rule	see page 232
dsd urlfilter rule delete	Remove a rule	see page 233
dsd urlfilter rule flush	Remove all current rules	see page 234
dsd urlfilter rule list	Display a list of current rules	see page 235
dsd urlfilter rule modify	Modify an existing rule	see page 236
dsd webfilter cache flush	Empty internal cache	see page 237
dsd webfilter cache stats	Display cache statistics	see page 238
dsd webfilter config	Configure web filter	see page 239
dsd webfilter list	Display web filter license state	see page 240
dsd webfilter professional category add	Add a category to a group	see page 241
dsd webfilter professional category create	Create a category or group	see page 242
dsd webfilter professional category delete	Delete a category or group	see page 243
dsd webfilter professional category flush	Delete all categories and groups	see page 244
dsd webfilter professional category list	List all categories and groups	see page 245
dsd webfilter professional category remove	Remove a category from a group	see page 246
dsd webfilter professional config		see page 247
dsd webfilter professional level add	Add a new web filtering level	see page 248
dsd webfilter professional level delete	Delete a web filtering level	see page 249
dsd webfilter professional level flush	Delete all levels	see page 250

DSD COMMANDS

dsd webfilter professional level list	Display levels	see page 251
dsd webfilter professional level modify	Modify a web filtering level	see page 252
dsd webfilter professional level set	Set current web filtering level	see page 253
dsd webfilter professional rule clear	Reset level to default rule	see page 254
dsd webfilter professional rule list	List all rules	see page 255
dsd webfilter professional rule modify	Modify a rule	see page 256
dsd webfilter server add	Add a web filter server	see page 257
dsd webfilter server config	Configure web filter server	see page 258
dsd webfilter server delete	Delete a web filter server	see page 259
dsd webfilter server flush	Flush server list	see page 260
dsd webfilter server list	List all web filter servers	see page 261
dsd webfilter server modify	Modify a web filter server	see page 262
dsd webfilter standard category add	Add a category to a group	see page 263
dsd webfilter standard category create	Create a category or group	see page 264
dsd webfilter standard category delete	Delete a category or group	see page 265
dsd webfilter standard category flush	Delete all categories and groups	see page 266
dsd webfilter standard category list	List all categories and groups	see page 267
dsd webfilter standard category remove	Remove a category from a group	see page 268
dsd webfilter standard config		see page 269
dsd webfilter standard level add	Add a new web filtering level	see page 270
dsd webfilter standard level delete	Delete a web filtering level	see page 271
dsd webfilter standard level flush	Delete all levels	see page 272
dsd webfilter standard level list	Display levels	see page 273
dsd webfilter standard level modify	Modify a web filtering level	see page 274
dsd webfilter standard level set	Set current web filtering level	see page 275
dsd webfilter standard rule clear	Reset level to default rule	see page 276
dsd webfilter standard rule list	List all rules	see page 277
dsd webfilter standard rule modify	Modify a rule	see page 278

dsd debug config

Display/modify DSD debug settings

dsd debug config	[turbomode = <{disabled enabled}>]	
where:		
turbomode	Enable/disable turbomode	OPTIONAL

dsd debug connection list

Display internal connection pool usage

dsd debug connection list [expand = <{disabled enabled}>]		
where:		
expand	Expanded listing.	OPTIONAL

dsd debug proxy

Display/modify HTTPI fixed proxy settings

SYNTAX:

where:

state	Enable/disable fixed proxy redirecting	OPTIONAL
dest	Destination IP where requests will be forwarded to	OPTIONAL
port	Port used for connecting to the proxy IP	OPTIONAL

dsd debug recycling

Display/modify HTTPI recycling settings

dsd debug recycling	<pre>[state = <{disabled enabled}>] [interval = <number>] [httpidle = <number>] [otheridle = <number>]</number></number></number></pre>	
where:		
state	Enable/disable stream recycling	OPTIONAL
interval	Time between successive activity checks	OPTIONAL
httpidle	Minimal idle count for recycling (filtered) http streams	OPTIONAL
otheridle	Minimal idle count for recycling other streams	OPTIONAL

dsd debug stats

Display/clear DSD framework and module statistics

dsd debug stats	<pre>[name = <{intercept urlfile syslog all}>] [clear = <{no yes}>]</pre>		
where:			
name	Specify the name of a module	OPTIONAL	
clear	Clear the specified statistics	OPTIONAL	

dsd intercept config

Display/modify HTTP Intercept configuration

SYNTAX:

dsd intercept config	[WDSpoofedIP = <ip-address>]</ip-address>
	[servertimeout = <number>]</number>
	[connecterrorurl = <string>]</string>
	<pre>[categoryerrorurl = <string>]</string></pre>
	[monitorintercepturl = <string>]</string>
	[unauthorizedrequrl = <string>]</string>
	<pre>[imageredirect = <{disabled enabled}>]</pre>
	[imageredirecturl = <string>]</string>
	[alwaysuseip = <{disabled enabled}>]

where:

WDSpoofedIP	IP address indicating unavailable WAN connection.	OPTIONAL
servertimeout	Server timeout for redirect action	OPTIONAL
connecterrorurl	Destination url when connection to server failed	OPTIONAL
categoryerrorurl	Destination url when connection to category server failed	OPTIONAL
monitorintercepturl	Destination url when request is intercepted by monitor thread	OPTIONAL
unauthorizedrequrl	Destination url when requested url is blocked by some rule or setting	OPTIONAL
imageredirect	Enable/disable substituting blocked images	OPTIONAL
imageredirecturl	URL of image used when substituting blocked images	OPTIONAL
alwaysuseip	Always use ip address when redirecting to a local page	OPTIONAL
·		

dsd syslog config

Display/modify HTTPI logging configuration

dsd syslog config	<pre>[syslog = <{none unauthorize intercepted all}>]</pre>	d errors
where:		
syslog	Define which type of events to log	OPTIONAL

dsd syslog list

Display HTTPI log file

dsd urlfilter config

Display/modify url filtering configuration

dsd urlfilter config	<pre>[state = <{disabled enabled}>] [blockproxy = <{disabled enabled}>] [blockipaddress = <{disabled enabled}>] [blockobscuredip = <{disabled enabled}>] [defaultaction = <{block accept}>]</pre>	
where:		
state	Enable/disable url filtering	OPTIONAL
blockproxy	Block HTTP requests via a proxy server	OPTIONAL
blockipaddress	Block HTTP requests if host name is IP address	OPTIONAL
blockobscuredip	Block HTTP requests if host name is believed to be an IP address	OPTIONAL
defaultaction	Action to perform when no filter applicable.	OPTIONAL

dsd urlfilter rule add

Add a rule

dsd urlfilter rule add	url = <string> action = <{block accept redirect}> redirect = <string></string></string>	
where:		
url	Definition of the url filter	REQUIRED
action	Action to perform when url matches url	REQUIRED
redirect	Redirection url	REQUIRED

dsd urlfilter rule delete

Remove a rule

dsd urlfilter rule delete	<pre>index = <number> [url = <string>]</string></number></pre>	
where:		
index	Insertion position in the list	REQUIRED
url	Definition of the url filter	OPTIONAL

dsd urlfilter rule flush

Remove all current rules

dsd urlfilter rule list

Display a list of current rules

dsd urlfilter rule modify

Modify an existing rule

dsd urlfilter rule modify	<pre>index = <number> [newurl = <string>] action = <{block accept redirect}> redirect = <string></string></string></number></pre>	
index	Insertion position in the list	REQUIRED
newurl	Definition of the new url filter	OPTIONAL
action	Action to perform when url matches url	REQUIRED
redirect	Redirection url	REQUIRED

dsd webfilter cache flush

Empty internal cache

dsd webfilter cache stats

Display cache statistics

dsd webfilter cache stats	[expand = <{disabled enabled}>]	
where:		
expand	More detailed statistics.	OPTIONAL

dsd webfilter config

Configure web filter

SYNTAX:

where:

state Enable or disable the web filter	OPTIONAL
serverunreachable Block or allow requests when the categorization server is unreachable	OPTIONAL
uncategorized Block or allow requests for which no category is available	OPTIONAL
license	OPTIONAL
ticket	OPTIONAL
sessionkey	OPTIONAL

dsd webfilter list

Display web filter license state

dsd webfilter professional category add

Add a category to a group

dsd webfilter professional category add	<pre>destid = <number> srcid = <number></number></number></pre>	
where:		
destid	Destination category or group	REQUIRED
srcid	Category ID to add	REQUIRED

dsd webfilter professional category create

Create a category or group

dsd webfilter professional category create	<pre>id = <number> name = <quoted string=""> type = <{category group}></quoted></number></pre>	
where:		
id	Unique local ID for the category/group	REQUIRED
name	Friendly name	REQUIRED
type		REQUIRED

dsd webfilter professional category delete

Delete a category or group

dsd webfilter professional category delete	id = <number></number>	
where:		
id	Unique local ID for the category/group	REQUIRED

dsd webfilter professional category flush

Delete all categories and groups

dsd webfilter professional category list

List all categories and groups

dsd webfilter professional category list	<pre>[type = <{category group}>]</pre>	
where:		
type		OPTIONAL

dsd webfilter professional category remove

Remove a category from a group

dsd webfilter professional category remove	<pre>destid = <number> srcid = <number></number></number></pre>	
where:		
destid	Destination category or group	REQUIRED
srcid	Category ID to add	REQUIRED

dsd webfilter professional config

dsd webfilter professional config	<pre>[listversion = <string>] [validcatmask = <string>]</string></string></pre>	
where:		
listversion		OPTIONAL
validcatmask		OPTIONAL

dsd webfilter professional level add

Add a new web filtering level

dsd webfilter professional level add	<pre>index = <number> name = <string> [text = <quoted string="">] [otherurls = <{block accept}>]</quoted></string></number></pre>	
where:		
index	Level index (-1 for next available)	REQUIRED
name	Content category level name	REQUIRED
text	Friendly description	OPTIONAL
otherurls	Block or allow requests that do not belong to a specific category	OPTIONAL

dsd webfilter professional level delete

Delete a web filtering level

dsd webfilter professional level delete	<pre>index = <number> name = <string> [text = <quoted string="">] [otherurls = <{block accept}>]</quoted></string></number></pre>	
where:		
index	Level index (-1 for next available)	REQUIRED
name	Content category level name	REQUIRED
text	Friendly description	OPTIONAL
otherurls	Block or allow requests that do not belong to a specific category	OPTIONAL

dsd webfilter professional level flush

Delete all levels

dsd webfilter professional level list

Display levels

dsd webfilter professional level modify

Modify a web filtering level

dsd webfilter professional level modify	<pre>index = <number> name = <string> [text = <quoted string="">] [otherurls = <{block accept}>]</quoted></string></number></pre>	
where:		
index	Level index (-1 for next available)	REQUIRED
name	Content category level name	REQUIRED
text	Friendly description	OPTIONAL
otherurls	Block or allow requests that do not belong to a specific category	OPTIONAL

dsd webfilter professional level set

Set current web filtering level

dsd webfilter professional level set	name = <string></string>	
where:		
name N	lame of the current category level	REQUIRED

dsd webfilter professional rule clear

Reset level to default rule

dsd webfilter professional rule clear	level = <string></string>	
where:		
level	Level name	REQUIRED

dsd webfilter professional rule list

List all rules

dsd webfilter professional rule list	<pre>[level = <string>]</string></pre>	
where:		
level	Level name	OPTIONAL

dsd webfilter professional rule modify

Modify a rule

dsd webfilter professional rule modify	<pre>level = <string> [id = <number>] action = <{block accept}></number></string></pre>	
where:		
level	Level name	REQUIRED
id	Server category ID	OPTIONAL
action		REQUIRED

dsd webfilter server add

Add a web filter server

SYNTAX:

<pre>[index = <number>] address = <ip-address> port = <{undefined at-echo at-nbp at-rtmp at- zis auth bgp biff bootpc finger ftp ftp-data gopher h323 httpproxy ike ils imap2 imap3 ingres-net ipcserver ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios- ssn netwall netware-ip new-rwho nfds nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp sntp sql*net sql-net sqlserv sunrpc syslog systat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www- http whoami xwindows} or number></ip-address></number></pre>

index	Server index	OPTIONAL
address	Server IP address	REQUIRED
port	Server port	REQUIRED

dsd webfilter server config

Configure web filter server

SYNTAX:

[[[[[[[[[[[[[[[[[[[<pre>retries = <number>] retries = <number>] servertimeout = <number>] timeoutmultiplier = <number>] renewfrequency = <number>] renewfrequency = <number>] renewfrequency = <number>] renewfrequency = <idisabled enabled}>] proxyserver = <ip-address>] proxyport = <{undefined at-echo at-nbp at-remp at-zis auth bgp biff bootpc exec finger remp at-zis auth bgp biff bootpc exec finger remp(at-zis auth bgp biff bootpc exec finger remp at-zis auth bgp biff biotpc biff biotpc biff bif</ip-address></idisabled enabled}></number></number></number></number></number></number></number></pre>

listversion		OPTIONAL
retries	Number of server contact retries	OPTIONAL
servertimeout	Cobion server timeout in seconds	OPTIONAL
timeoutmultiplier	Timeout for reporting server error to client (timeout * multiplier)	OPTIONAL
renewfrequency	Frequency (in hours) to check license and list versions	OPTIONAL
useproxy	Enable or disable the use of a proxy server	OPTIONAL
proxyserver	Proxy server to be used	OPTIONAL
proxyport	Proxy server port to be used	OPTIONAL

dsd webfilter server delete

Delete a web filter server

SYNTAX:

add por zis gop ing lda ssr nnt qot snm sur tft	dex = <number> dress = <ip-address> rt = <{undefined at-echo at-nbp at-rtmp at-s auth bgp biff bootpc finger ftp ftp-data bher h323 httpproxy ike ils imap2 imap3 gres-net ipcserver ipx irc-o irc-u kerberos ap login netbios-dgm netbios-ns netbios-n netwall netware-ip new-rwho nfds nicname tp ntalk ntp pcmail-srv pop2 pop3 printer td realaudio rip rtelnet rtsp sip smtp snmp aptrap snpp sntp sql*net sql-net sqlserv aptrap syslog systat talk telnet time timed tp ulistserv utime uucp uucp-rlogin who www-tp whoami xwindows} or number></ip-address></number>
--	--

index	Server index	REQUIRED
address	Server IP address	REQUIRED
port	Server port	REQUIRED

dsd webfilter server flush

Flush server list

dsd webfilter server list

List all web filter servers

dsd webfilter server modify

Modify a web filter server

SYNTAX:

addr port zis goph ingr ldap ssn nntp qotd snmp sunr	<pre>x = <number> ess = <ip-address></ip-address></number></pre>
--	--

index	Server index	REQUIRED
address	Server IP address	REQUIRED
port	Server port	REQUIRED

dsd webfilter standard category add

Add a category to a group

dsd webfilter standard category add	<pre>destid = <number> srcid = <number></number></number></pre>	
where:		
destid	Destination category or group	REQUIRED
srcid	Category ID to add	REQUIRED

dsd webfilter standard category create

Create a category or group

dsd webfilter standard category create	<pre>id = <number> name = <quoted string=""> type = <{category group}></quoted></number></pre>	
where:		
id	Unique local ID for the category/group	REQUIRED
name	Friendly name	REQUIRED
type		REQUIRED

dsd webfilter standard category delete

Delete a category or group

dsd webfilter standard category delete	id = <number></number>	
where:		
id	Unique local ID for the category/group	REQUIRED

dsd webfilter standard category flush

Delete all categories and groups

dsd webfilter standard category list

List all categories and groups

dsd webfilter standard category list	<pre>[type = <{category group}>]</pre>	
where:		
type		OPTIONAL

dsd webfilter standard category remove

Remove a category from a group

dsd webfilter standard category remove	<pre>destid = <number> srcid = <number></number></number></pre>	
where:		
destid	Destination category or group	REQUIRED
srcid	Category ID to add	REQUIRED

dsd webfilter standard config

dsd webfilter standard config	<pre>[stdmax = <number>] [validcatmask = <string>]</string></number></pre>	
where:		
stdmax		OPTIONAL
validcatmask		OPTIONAL

dsd webfilter standard level add

Add a new web filtering level

dsd webfilter standard level add	<pre>index = <number> name = <string> [text = <quoted string="">] [otherurls = <{block accept}>]</quoted></string></number></pre>	
where:		
index	Level index (-1 for next available)	REQUIRED
name	Content category level name	REQUIRED
text	Friendly description	OPTIONAL
otherurls	Block or allow requests that do not belong to a specific category	OPTIONAL

dsd webfilter standard level delete

Delete a web filtering level

dsd webfilter standard level delete	<pre>index = <number> name = <string> [text = <quoted string="">] [otherurls = <{block accept}>]</quoted></string></number></pre>	
where:		
index	Level index (-1 for next available)	REQUIRED
name	Content category level name	REQUIRED
text	Friendly description	OPTIONAL
	Block or allow requests that do not belong to a specific category	OPTIONAL

dsd webfilter standard level flush

Delete all levels

dsd webfilter standard level list

Display levels

dsd webfilter standard level modify

Modify a web filtering level

dsd webfilter standard level modify	<pre>index = <number> name = <string> [text = <quoted string="">] [otherurls = <{block accept}>]</quoted></string></number></pre>	
where:		
index	Level index (-1 for next available)	REQUIRED
name	Content category level name	REQUIRED
text	Friendly description	OPTIONAL
	Block or allow requests that do not belong to a specific category	OPTIONAL

dsd webfilter standard level set

Set current web filtering level

dsd webfilter standard	l level name = <string></string>	
where:		
name	Name of the current category level	REQUIRED

dsd webfilter standard rule clear

Reset level to default rule

SYNTAX:

dsd webfilter standard ruclear	ule level = <string> Add a dynamic DNS client. = <s< th=""><th>string></th></s<></string>	string>
where:		
level	Level nameCommand: dyndns add	REQUIRED
Add a dynamic DNS client.	Syntax : add name = <string></string>	REQUIRED

dsd webfilter standard rule clear	name = <string></string>	
where:		
name	The dynamic DNS client name.	REQUIRED

dsd webfilter standard rule list

List all rules

dsd webfilter standard rule	<pre>[level = <string>]</string></pre>	
where:		
level	Level name	OPTIONAL

dsd webfilter standard rule modify

Modify a rule

dsd webfilter standard rule modify	<pre>level = <string> [id = <number>] action = <{block accept}></number></string></pre>	
where:		
level	Level name	REQUIRED
id	Server category ID	OPTIONAL
action		REQUIRED

dyndns Commands

dyndns delete	Delete a dynamic DNS client.	see page 280
dyndns flush	Delete all dynamic DNS clients.	see page 281
dyndns host add	Add a fully qualified host name	see page 282
dyndns host delete	Delete a host name	see page 283
dyndns host flush	Delete all host names	see page 284
dyndns host list	List all host names	see page 285
dyndns list	List all dynamic DNS clients.	see page 286
dyndns modify	Modify a dynamic DNS client.	see page 287
dyndns service list	List all dynamic DNS services	see page 288
dyndns service modify	Modify specific dynamic DNS service settings	see page 289

dyndns delete

Delete a dynamic DNS client.

dyndns delete	name = <>	
where:		
name	The dynamic DNS client name.	REQUIRED

dyndns flush

Delete all dynamic DNS clients.

dyndns host add

Add a fully qualified host name

dyndns host add	<pre>group = <> name = <string></string></pre>	
where:		
group	The dynamic DNS host group.	REQUIRED
name	The name of an IP host to add.	REQUIRED

dyndns host delete

Delete a host name

dyndns host delete	name = <>	
where:		
name	The name of an IP host to delete.	REQUIRED

dyndns host flush

Delete all host names

dyndns host list

List all host names

dyndns list

List all dynamic DNS clients.

dyndns modify

Modify a dynamic DNS client.

SYNTAX:

name	The dynamic DNS client name.	REQUIRED
intf	The dynamic DNS client interface.	OPTIONAL
user	The username for dynamic DNS authentication.	OPTIONAL
password	The password for dynamic DNS authentication.	OPTIONAL
group	The dynamic DNS host group.	OPTIONAL
mx	The mail exchanger.	OPTIONAL
backmx	Set up the mail exchanger as a backup MX.	OPTIONAL
wildcard	Allow use of hostname wildcards.	OPTIONAL
offline	Set the host to offline mode.	OPTIONAL
service	The dynamic DNS service.	OPTIONAL
status	Enable/Disable the dynamic DNS client.	OPTIONAL
trace	Enable/Disable the verbose console logging for the dynamic DNS client.	OPTIONAL

dyndns service list

List all dynamic DNS services

dyndns service list	<pre>var = <string> value = <translated string=""></translated></string></pre>	3	
where:			
var	The name of the variable.	REQUIRED	
value	A translated quoted string defining the variable value.	REQUIRED	

dyndns service modify

Modify specific dynamic DNS service settings

SYNTAX:

[port zis au gopher ingres ldap 1 ssn ne nntp n qotd r snmptr sunrpotftp u http w [reque [updat [retry	er = <string>] = <{undefined at-echo at-nbp at-rtmp at- th bgp biff bootpc finger ftp ftp-data t h323 httpproxy ike ils imap2 imap3 s-net ipcserver ipx irc-o irc-u kerberos cogin netbios-dgm netbios-ns netbios- twall netware-ip new-rwho nfds nicname talk ntp pcmail-srv pop2 pop3 printer tealaudio rip rtelnet rtsp sip smtp snmp tap snpp sntp sql*net sql-net sqlserv t syslog systat talk telnet time timed tlistserv utime uucp uucp-rlogin who www- thoami xwindows} or number>] test = <string>] teinterval = <number{0-2097120}>] tetry = <number{1-5}>]</number{1-5}></number{0-2097120}></string></string>
--	--

where:

name	The dynamic DNS service.	REQUIRED
server	The dynamic DNS server hostname.	OPTIONAL
port	The dynamic DNS server port.	OPTIONAL
request	The dynamic DNS request string.	OPTIONAL
updateinterval	Number of seconds before a dynamic update is sent to the dynamic DNS server (The value 0 means disabled).	OPTIONAL
retryinterval	Number of seconds between retries if communication with the dynamic DNS server fails (The value 0 means disabled).	OPTIONAL
max_retry	The maximum number of retries if communication with the dynamic DNS server fails.	OPTIONAL

ENV COMMANDS

env Commands

env flush	Remove all non-system environment variables.	see page 292
env get	Gets an environment variable.	see page 293
env list	List all environment variables.	see page 294
env unset	Deletes an environment variable.	see page 295

env flush

Remove all non-system environment variables.

env flush	intf = <string></string>	
where:		
intf	The name for the new ETH interface.	REQUIRED

env get

Gets an environment variable.

SYNTAX:

env get	Var = <{ SW_FLAG ETHERNET COMPANY_NAME COMPANY_URL PROD_NAME SSID_SERIAL_PREFIX BOARD_SERIAL_NBR PROD_SERIAL_NBR FII BUILD BOOTLOADER_VERSION BUILDVARIANT OUI BUILD_PASSIVEBANK CUSTOVARIANT PHYSLAYERTYPE BUILDNAME PRL FIA BOARD_NAME COMPANY_ID COPYRIGHT TPVERSION PROD_ID PROD_FRIENDLY_NAME VARIANT_ID VARIANT_FRIENDLY_NAME MACADDR LMACADDR WL_VERSION_0 WL_VERSION WL_O_WEPKEY_SERIAL WLO_WPAKEY_SERIAL WLO_SSID_SERIAL WLO_SSID_PREFIX WLO_BASE52_SERIAL WLO_MAC_POSTFIX WLO_PIN_SERIAL WLI_WEPKEY_SERIAL WL1_WPAKEY_SERIAL WL1_WEPKEY_SERIAL WL1_WPAKEY_SERIAL WL1_SSID_SERIAL WL1_BASE52_SERIAL WL1_PIN_SERIAL WL1_BASE52_SERIAL WL1_PIN_SERIAL WL2_WEPKEY_SERIAL WL2_WPAKEY_SERIAL WL2_SSID_SERIAL WL2_WPAKEY_SERIAL WL2_VID_R_SERIAL WL2_WPAKEY_SERIAL WL2_VID_R_SERIAL WL2_WPAKEY_SERIAL WL2_UID_R_SERIAL WL2_UUID_E_SERIAL WL2_UID_R_SERIAL WL3_SSID_SERIAL WL3_WPAKEY_SERIAL WL3_SSID_SERIAL WL3_BASE52_SERIAL WL3_SID_SERIAL WL3_BASE52_SERIAL WL3_VID_R_SERIAL WL3_BASE52_SERIAL WL3_SID_POSTFIX_LEGACY_OR_MAC WL_MACADDR LWL_MACADDR MODEMLABEL WIZ_AUTOPOPUP SNTPPOLL_POST_SYNC SNTPPOLL_PRE_SYNC ADSL_EOC_VERSION EOC_MSG CONF_REGION CONF_POVIDER CONF_DESCRIPTION CONF_SERVICE CONF_DATE HOST_SETUP CONF_DATETIME CONF_TPVERSION @WL1_SSID_PREFIX_CUSTOM @WL1_SSID_PREFIX_CUSTOM
	@WL2_SSID_PREFIX_CUSTOM
	@WL3_SSID_PREFIX_CUSTOM @WL0_SSID @WL1_SSID
	ACS_URL}>

where:

 $\qquad \qquad \text{The name of the variable.} \qquad \qquad \text{REQUIRED}$

env list

List all environment variables.

env unset

Deletes an environment variable.

SYNTAX:

ony ungot	var = <{_SW_FLAG _ETHERNET _COMPANY_NAME
env unset	
	_COMPANY_URL _PROD_NAME _SSID_SERIAL_PREFIX
	_BOARD_SERIAL_NBR _PROD_SERIAL_NBR _FII
	_BUILD _BOOTLOADER_VERSION _BUILDVARIANT
	_OUI _BUILD_PASSIVEBANK _CUSTOVARIANT
	_PHYSLAYERTYPE _BUILDNAME _PRL _FIA
	_BOARD_NAME _COMPANY_ID _COPYRIGHT _TPVERSION
	_PROD_ID _PROD_FRIENDLY_NAME _VARIANT_ID
	_VARIANT_FRIENDLY_NAME _MACADDR _LMACADDR
	_WL_VERSION_0 _WL_VERSION _WL0_WEPKEY_SERIAL
	_WLO_WPAKEY_SERIAL _WLO_SSID_SERIAL
	_WLO_SSID_PREFIX _WLO_BASE52_SERIAL
	_WLO_MAC_POSTFIX _WLO_PIN_SERIAL
	_WLO_UUID_E_SERIAL _WLO_UUID_R_SERIAL WI1 WEDKEY SERIAL WI1 WDAKEY SERIAL
	_WL1_WEPKEY_SERIAL _WL1_WPAKEY_SERIAL WL1 SSID SERIAL WL1 BASE52 SERIAL
	_WL1_SSID_SERIAL _WL1_BASE32_SERIAL _WL1_PIN_SERIAL _WL1_UUID_E_SERIAL
	_WL1_UUID_R_SERIAL _WL2_WEPKEY_SERIAL
	WL2 WPAKEY SERIAL WL2 SSID SERIAL
	_wl2_wrakb1_bekrad _wl2_bbrad _wl2_base52_serial _wl2_pin_serial
	WL2 UUID E SERIAL WL2 UUID R SERIAL
	_WL3_WEPKEY_SERIAL _WL3_WPAKEY_SERIAL
	_wL3_ssid_serial _wL3_base52_serial
	_wl3_pin_serial _wl3_uuid_e_serial
	WL3 UUID R SERIAL SSID WL MACADDR POSTFIX
	SSID POSTFIX LEGACY OR MAC
	WL_MACADDR _LWL_MACADDR _MODEMLABEL
	WIZ_AUTOPOPUP _SNTPPOLL_POST_SYNC
	 _SNTPPOLL_PRE_SYNC _ADSL_EOC_VERSION
	EOC_MSG CONF_REGION CONF_PROVIDER
	CONF_DESCRIPTION CONF_SERVICE CONF_DATE
	HOST_SETUP CONF_DATETIME CONF_TPVERSION
	@CWMPUSER WL0_SSID_PREFIX_CUSTOM
	@WL1_SSID_PREFIX_CUSTOM
	@WL2_SSID_PREFIX_CUSTOM
	@WL3_SSID_PREFIX_CUSTOM @WL0_SSID @WL1_SSID
	ACS_URL}>

where:

var The name of the variable. REQUIRED

ETH COMMANDS

eth Commands

eth bridge add	Add a new bridge instance.	see page 302
eth bridge clear	Clear bridge statistics.	see page 303
eth bridge config	Modify/Display the bridge configuration settings.	see page 304
eth bridge delete	Delete a bridge instance.	see page 305
eth bridge dynvlan actlist	Display the active MAC entries for the dynamic VLAN membership.	see page 306
eth bridge dynvlan add	Add a dynamic VLAN membership entry.	see page 307
eth bridge dynvlan config	Modify the dynamic VLAN membership configuration.	see page 308
eth bridge dynvlan delete	Delete a dynamic VLAN membership entry.	see page 309
eth bridge dynvlan flush	Flush all dynamic VLAN membership entries.	see page 310
eth bridge dynvlan list	Display a dynamic VLAN membership entry.	see page 311
eth bridge filter add	Add a filter.	see page 312
eth bridge filter attach	Enable a filter.	see page 313
eth bridge filter config	Change filter configuration	see page 314
eth bridge filter delete	Delete a filter.	see page 315
eth bridge filter detach	Disable a filter.	see page 316
eth bridge filter forwarding	Action: set forwarding configuration.	see page 317
eth bridge filter fwdintfadd	Add Forwarding interface: filter action.	see page 318
eth bridge filter fwdintfdel	Remove Forwarding interface: filter action.	see page 319
eth bridge filter ifadd	Connect an interface with a filter.	see page 320
eth bridge filter ifdel	Remove an interface from a filter.	see page 321
eth bridge filter list	Display the bridge filters.	see page 322
eth bridge flush	Flush all bridge instances with their interfaces and properties.	see page 323
eth bridge ifadd	Add a new bridge interface.	see page 324
eth bridge ifattach	Attach a bridge interface.	see page 325
eth bridge ifconfig	Modify a bridge interface configuration.	see page 326
eth bridge ifdelete	Delete a bridge interface.	see page 328

eth bridge ifdetach	Detach a bridge interface.	see page 329
eth bridge ifflush	flush the bridge interfaces: detach/delete all interfaces.	see page 330
eth bridge iflist	Display the current bridge interfaces.	see page 331
eth bridge igmpsnooping clear	Clear snooping statistics.	see page 332
eth bridge igmpsnooping config	Configure bridge instance IGMP Snooping flags.	see page 333
eth bridge igmpsnooping ifconfig	Configure bridge interface IGMP snooping flags and mode.	see page 334
eth bridge igmpsnooping iflist	Display bridge interface IGMP status.	see page 335
eth bridge igmpsnooping list	Display bridge instance snooped groups.	see page 336
eth bridge ippriomap	Modify the IP priority mappings for a bridge.	see page 337
eth bridge ippriomapreset	Reset the IP priority mappings to its defaults.	see page 338
eth bridge list	Display the current bridge instances.	see page 339
eth bridge macadd	Add a static MAC address to a bridge interface.	see page 340
eth bridge macdelete	Remove a MAC address from the database.	see page 341
eth bridge maclist	Display the MAC address database.	see page 342
eth bridge rule add	Add a new constraint to the VLAN learning system.	see page 343
eth bridge rule delete	Delete a constraint from the VLAN learning system.	see page 344
eth bridge rule flush	Flush all constraints from the VLAN learning system.	see page 345
eth bridge rule list	Display all constraints from the VLAN learning system.	see page 346
eth bridge select	Select the default bridge for configuring interfaces from (if not setting	see page 347
eth bridge unknownvlan ifadd	Add bridge interface to unknown 'VLAN'.	see page 348
eth bridge unknownvlan ifconfig	Modify bridge interface from unknown 'VLAN'.	see page 349
eth bridge unknownvlan ifdelete	Delete bridge interface from unknown 'VLAN'.	see page 350
eth bridge unknownvlan iflist	Display all interfaces of the unknown 'VLAN'.	see page 351
eth bridge vlan ifadd	Add bridge interface to virtual LAN.	see page 352
eth bridge vlan ifconfig	Modify bridge interface from virtual LAN.	see page 353
eth bridge vlan ifdelete	Delete bridge interface from virtual LAN.	see page 354

eth bridge vlan iflist	Display all vitual LAN's.	see page 355
eth bridge xtratag add	Add an extra tag mapping entry.	see page 356
eth bridge xtratag config	Configure an extra tag mapping entry.	see page 357
eth bridge xtratag delete	Delete an extra tag mapping entry.	see page 358
eth bridge xtratag flush	Flush all extra tag mapping entries.	see page 359
eth bridge xtratag list	Display all extra tag mapping entries.	see page 360
eth device ifautoneg	Adapt/list an Ethernet port's autonegotiation parameters (if autonegotiation	see page 361
eth device ifconfig	Configure an Ethernet port's type setting (disable/enable autonegotiation).	see page 362
eth device iflist	Show all Ethernet ports' operational status.	see page 363
eth device ifrestart	Reset an Ethernet port and restart autonegotiation.	see page 364
eth filter operand add	Add a filter operand.	see page 365
eth filter operand config	Set the operand to a certain type (will reset content first).	see page 366
eth filter operand delete	Delete a filter operand.	see page 368
eth filter operand flush	Remove all filter operands (this will only delete the ones not in use: flush	see page 369
eth filter operand frameclassadd	Add another frameclass in the set.	see page 370
eth filter operand frameclassdelete	Delete a frameclasse from the set.	see page 371
eth filter operand ipprotoadd	Add another ip protocol in the set.	see page 372
eth filter operand ipprotodelete	Delete a ip protocol from the set.	see page 373
eth filter operand list	Display the filter operands.	see page 374
eth filter operand priorityadd	Add another priority in the set.	see page 375
eth filter operand prioritydelete	Delete a ip priority from the set.	see page 376
eth filter operand reset	Reset an operand to its default initial state (removes all content, set to	see page 377
eth filter operand vidadd	Add another VID in the set.	see page 378
eth filter operand viddelete	Delete a VID from the set.	see page 379
eth filter template add	Add a filter.	see page 380
eth filter template config	Config a filter.	see page 381
eth filter template delete	Delete a filter.	see page 382

eth filter template flush	Remove all filters.	see page 383
eth filter template list	Display the filters.	see page 384
eth filter template ruleadd	Connect an operand rule with a filter.	see page 385
eth filter template ruledel	Remove an operand rule from a filter.	see page 386
eth filter template rulemodify	Modify an operand rule from a filter.	see page 387
eth filter template setpriority	Action: enable/disable priority derivation	see page 388
eth filter template setvid	Action: enable/disable VID derivation	see page 389
eth flush	Flush all ETH interfaces.	see page 390
eth ifattach	Attach an ETH interface.	see page 391
eth ifconfig	Modify an ETH interface.	see page 392
eth ifdelete	Delete an ETH interface.	see page 393
eth ifdetach	Detach an ETH interface.	see page 394
eth iflist	Display the ETH interfaces.	see page 395
eth switch group delete	Delete a specified port from a specified group.	see page 396
eth switch group flush	To set all ports to the default settings (all ports in group 0).	see page 397
eth switch group list	List all configured groups.	see page 398
eth switch group move	Move a specified port to a specified group.	see page 399
eth switch info	Display switch capabilities	see page 400
eth switch mirror capture	Define the specified port to be the Mirror Capture Port.	see page 401
eth switch mirror egress	Enable or disable the specified port to be a Transmitted Port Mirroring.	see page 402
eth switch mirror ingress	Enable or disable the specified port to be a Received Port Mirroring.	see page 403
eth switch qos config	Configure common qos parameters.	see page 404
eth switch qos ifconfig	Configure per port qos parameters.	see page 405
eth switch qos list	Display qos configuration.	see page 406
eth switch qos weights	Configure the queue weights.	see page 407
eth switch shaper config	Configure common ingress shaper parameters.	see page 408
eth switch shaper ifconfig	Configure per port shaper parameters.	see page 409
eth switch shaper iflist	Display shaper configuration per port.	see page 410

eth switch share add	Add a port to be shared.	see page 411
eth switch share delete	Delete a shared port.	see page 412
eth switch share list	Display shared ports.	see page 413
eth switch storm ifconfig	Configure per port storm control parameters.	see page 414
eth switch storm iflist	Display storm control configuration per port.	see page 415
eth vlan add	Add a new virtual LAN.	see page 416
eth vlan delete	Delete a virtual LAN.	see page 417
eth vlan flush	Flush all virtual LAN's.	see page 418
eth vlan list	Display all virtual LAN's.	see page 419
eth vlan priomap config	Change a VLAN/DE to/from internalpriority mapping.	see page 420
eth vlan priomap list	Display the VLAN/DE to/from internal priority mappings.	see page 421

eth bridge add

Add a new bridge instance.

eth bridge add	brname = <string></string>	
where:		
brname	The name of the new bridge instance.	REQUIRED

eth bridge clear

Clear bridge statistics.

eth bridge clear	[brname = <{bridge}>]	
where:		
brname	The name of a bridge instance.	OPTIONAL

eth bridge config

Modify/Display the bridge configuration settings.

eth bridge config	<pre>[brname = <{bridge}>] [age = <number{10-1000000}>] [filter = <{none no_WAN_broadcast}>] [vlan = <{disabled enabled}>]</number{10-1000000}></pre>	
where:		
brname	The name of a bridge instance.	OPTIONAL
age	The lifetime (in seconds) of a dynamically learned MAC address.	OPTIONAL
filter	The bridge filter to be applied for all WAN bridge interfaces.	OPTIONAL
vlan	Enable/disable the use of the VLAN id of the received VLAN packets.	OPTIONAL

eth bridge delete

Delete a bridge instance.

eth bridge delete	<pre>brname = <{bridge}></pre>	
where:		
brname	The name of a bridge instance.	REQUIRED

eth bridge dynvlan actlist

Display the active MAC entries for the dynamic VLAN membership.

eth bridge dynvlan add

Add a dynamic VLAN membership entry.

eth bridge dynvlan add	<pre>[id = <number{0-100000}>] hwaddr = <masked-hardware-address> vlan = <{default}> [prio = <number{0-7}>] [mode = <{none vid prio both}>]</number{0-7}></masked-hardware-address></number{0-100000}></pre>	
where:		
id	The id of the dynamic VLAN membership entry.	OPTIONAL
hwaddr	The (masked) ethernet MAC address of the dynamic VLAN membership entry.	REQUIRED
vlan	The VLAN for the dynamic VLAN membership entry.	REQUIRED
prio	The new port priority to be set.	OPTIONAL
mode	The flexiport mode of operation.	OPTIONAL

eth bridge dynvlan config

Modify the dynamic VLAN membership configuration.

eth bridge dynvlan config	[timeout = <number{0-100000}>]</number{0-100000}>	
where:		
timeout	Timeout in seconds for the dynamic entries.	OPTIONAL

eth bridge dynvlan delete

Delete a dynamic VLAN membership entry.

eth bridge dynvlan delete	id = <number{0-100000}></number{0-100000}>	
where:		
id		REQUIRED

eth bridge dynvlan flush

Flush all dynamic VLAN membership entries.

eth bridge dynvlan list

Display a dynamic VLAN membership entry.

eth bridge filter add

Add a filter.

eth bridge filter add	<pre>brname = <{bridge}> name = <string> [filter = <{}>]</string></pre>	
where:		
brname	The name of an bridge.	REQUIRED
name	The name of the filter.	REQUIRED
filter	Ethernet filter to used	OPTIONAL

eth bridge filter attach

Enable a filter.

eth bridge filter attach	<pre>brname = <{bridge}> name = <{}></pre>	
where:		
brname	The name of an bridge.	REQUIRED
name	The name of the filter to configure.	REQUIRED

eth bridge filter config

Change filter configuration

eth bridge filter config	<pre>brname = <{bridge}> name = <{}> [filter = <{}>]</pre>	
where:		
brname	The name of an bridge.	REQUIRED
name	The name of the filter to configure.	REQUIRED
filter	Ethernet filter to used	OPTIONAL

eth bridge filter delete

Delete a filter.

eth bridge filter delete	<pre>brname = <{bridge}> name = <{}></pre>	
where:		
brname	The name of an bridge.	REQUIRED
name	The name of the filter to configure.	REQUIRED

eth bridge filter detach

Disable a filter.

eth bridge filter detach	<pre>brname = <{bridge}> name = <{}></pre>	
where:		
brname	The name of an bridge.	REQUIRED
name	The name of the filter to configure.	REQUIRED

eth bridge filter forwarding

Action: set forwarding configuration.

eth bridge filter forwarding	<pre>brname = <{bridge}> name = <{}> mode = <{ToFwdIntfsOnly AlsoToFw NotToFwdIntfs Drop}></pre>	dIntfs
where:		
brname 1	The name of an bridge.	REQUIRED
name	The name of the filter to configure.	REQUIRED
mode 1	The forwarding type to set.	REQUIRED

eth bridge filter fwdintfadd

Add Forwarding interface: filter action.

eth bridge filter fwd	<pre>lintfadd brname = <{bridge}> name = <{}> intf = <{OBC ethport1 et ethport4 WLAN virt}></pre>	hport2 ethport3
where:		
brname	The name of an bridge.	REQUIRED
name	The name of the filter to configure.	REQUIRED
intf	The name of the bridge interface to add.	REQUIRED

eth bridge filter fwdintfdel

Remove Forwarding interface: filter action.

eth bridge filter fwdintfdel	<pre>brname = <{bridge}> name = <{}> intf = <{OBC ethport1 ethport2 efethport4 WLAN virt}></pre>	thport3
where:		
brname	The name of an bridge.	REQUIRED
name	The name of the filter to configure.	REQUIRED
intf	The name of the bridge interface to remove.	REQUIRED

eth bridge filter ifadd

Connect an interface with a filter.

eth bridge filter ifadd	<pre>brname = <{bridge}> name = <{}> intf = <{OBC ethport1 ethport2 ethport4 WLAN virt}></pre>	port3
where:		
brname	The name of an bridge.	REQUIRED
name	The name of the filter to configure.	REQUIRED
intf	The name of the bridge interface to add.	REQUIRED

eth bridge filter ifdel

Remove an interface from a filter.

eth bridge filter ifdel	<pre>brname = <{bridge}> name = <{}> intf = <{OBC ethport1 ethport2 ethp ethport4 WLAN virt}></pre>	ort3
where:		
brname	The name of an bridge.	REQUIRED
name	The name of the filter to configure.	REQUIRED
intf	The name of the bridge interface to remove.	REQUIRED

eth bridge filter list

Display the bridge filters.

eth bridge filter list	<pre>brname = <{bridge}> [name = <{}>] [expand = <{disabled enabled}>]</pre>	
where:		
brname	The name of an bridge.	REQUIRED
name	The name of an filter.	OPTIONAL
expand	Expanded listing.	OPTIONAL

eth bridge flush

Flush all bridge instances with their interfaces and properties.

eth bridge flush	[brname = <{bridge}>]	
where:		
brname	The name of a bridge instance.	OPTIONAL

eth bridge ifadd

Add a new bridge interface.

eth bridge ifadd	<pre>[brname = <{bridge}>] intf = <string></string></pre>	
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The new bridge interface name.	REQUIRED

eth bridge ifattach

Attach a bridge interface.

eth bridge ifattach	[brname = <{bridge}>] intf = <{}>	
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The name of the bridge interface.	REQUIRED

eth bridge ifconfig

Modify a bridge interface configuration.

SYNTAX:

<pre>[igmpsnooping = <{disabled enabled}>] [priotransparent = <{disabled enabled}>] [bpdufiltering = <{disabled enabled}>] [xtratagging = <{none c-vlan s-vlan}>]</pre>

where:

brname	The name of a bridge instance.	OPTIONAL
intf	The name of the bridge interface to configure.	REQUIRED
dest	The destination for this interface. Typically an ATM or a physical interface name.	OPTIONAL
portstate	The bridge portstate for this interface.	OPTIONAL
retry	The number of WAN connection setup retries before giving up.	OPTIONAL
priotag	Enable/Disable priority tagging.	OPTIONAL
vlan	The default VLAN.	OPTIONAL
prioconfig	The priority configuration for this interface.	OPTIONAL
ipprec	The IP precedence for this interface.	OPTIONAL
priority	The default priority for untagged ingress packets.	OPTIONAL
regenprio	The priority regeneration table for tagged ingress packets.	OPTIONAL
ingressfiltering	Enable/disable discard of tagged ingress packets if the interface is not part of the VLAN.	OPTIONAL

acceptvlanonly	Enable/disable receipt of tagged ingress packets.	OPTIONAL
mcastfilter	Enable/disable discard of multicast packets for this interface.	OPTIONAL
dynvlan	Change dynamic VLAN membership checking mechanism for this interface.	OPTIONAL
wan	Enable/disable WAN for this interface.	OPTIONAL
igmpsnooping	Enable/disable IGMP snooping for this interface.	OPTIONAL
priotransparent	Enable/disable priority preservation for this interface.	OPTIONAL
bpdufiltering	Enable/disable BPDU filtering for this interface.	OPTIONAL
xtratagging	The 'extra tagging mode' for this interface (none, c-vlan or s-vlan).	OPTIONAL

eth bridge ifdelete

Delete a bridge interface.

eth bridge ifdelete	<pre>[brname = <{bridge}>] intf = <{ethport1 ethport2 e WLAN virt}></pre>	ethport3 ethport4
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The name of the bridge interface.	REQUIRED

eth bridge ifdetach

Detach a bridge interface.

eth bridge ifdetach	<pre>[brname = <{bridge}>] intf = <{ethport1 ethport2 e WLAN virt}></pre>	ethport3 ethport4
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The name of the bridge interface.	REQUIRED

eth bridge ifflush

flush the bridge interfaces: detach/delete all interfaces.

eth bridge ifflush	[brname = <{bridge}>]	
where:		
brname	The name of a bridge instance.	OPTIONAL

eth bridge iflist

Display the current bridge interfaces.

eth bridge iflist	<pre>ist [brname = <{bridge}>] [intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>]</pre>	
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The name of a bridge interface.	OPTIONAL

eth bridge igmpsnooping clear

Clear snooping statistics.

eth bridge igmpsnooping clear	<pre>[brname = <{bridge}>] [intf = <{OBC ethport1 ethport ethport4 WLAN virt}>]</pre>	:2 ethport3
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The bridge interface currently to be cleared.	OPTIONAL

eth bridge igmpsnooping config

Configure bridge instance IGMP Snooping flags.

eth bridge igmpsnooping o	<pre>onfig [brname = <{bridge}>] [state = <{disabled enabled}>] [floodrp = <{disabled enabled}>] [floodmcast = <{disabled enabled}>] [queryto = <number{0-31744}>]</number{0-31744}></pre>	
where:		
brname	The name of a bridge instance.	OPTIONAL
state	Enable/Disable the IGMP Snooping.	OPTIONAL
floodrp	Enable/Disable flooding reports to all ports.	OPTIONAL
floodmcast	Enable/Disable flooding unregistered multicasts.	OPTIONAL
queryto	IGMP Snooping Query Interval.	OPTIONAL

eth bridge igmpsnooping ifconfig

Configure bridge interface IGMP snooping flags and mode.

SYNTAX:

eth bridge igmpsnooping ifconfig	<pre>[brname = <{bridge}>] intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}> [portmode = <{Host Router Auto None}>] [fastleave = <{disabled enabled}>] [exptrack = <{disabled enabled}>] [mrdp = <{disabled enabled}>] [rgmp = <{disabled enabled}>]</pre>
	[rgmp = <{disabled enabled}>]

where:

brname	The bridge instance currently to be configured.	OPTIONAL
intf	The bridge interface currently to be configured.	REQUIRED
portmode	Mode of the bridge port.	OPTIONAL
fastleave	Enable/Disable Fast Immediate Leave.	OPTIONAL
exptrack	Enable/Disable Explicit Host Tracking.	OPTIONAL
mrdp	Enable/Disable MRDP support.	OPTIONAL
rgmp	Enable/Disable RGMP support.	OPTIONAL

eth bridge igmpsnooping iflist

Display bridge interface IGMP status.

eth bridge igmpsnooping iflist	<pre>[brname = <{bridge}>] [intf = <{OBC ethport1 ethport2 et ethport4 WLAN virt}>]</pre>	hport3
where:		
brname The	name of a bridge instance.	OPTIONAL
intf The	name of the bridge interface.	OPTIONAL

eth bridge igmpsnooping list

Display bridge instance snooped groups.

eth bridge igmps	nooping list	[brname = <{bridge}>]	
where:			
brname	The	name of a bridge instance.	OPTIONAL

eth bridge ippriomap

Modify the IP priority mappings for a bridge.

eth bridge ippriomap	<pre>[brname = <{bridge}>] type = <{tos dscp}> tostable = <{Default Minimi MaximizeThroughput Maximize MinimizeCost}> dscpidx = <{dscp_0_7 dscp_8 dscp_24_31 dscp_32_39 dscp_ dscp_56_63}> precedencemap = <string></string></pre>	Reliability _15 dscp_16_23
where:		
brname	The name of a bridge instance.	OPTIONAL

brname	The name of a bridge instance.	OPTIONAL
type	For which IP priority type to adapt the precedencemap.	REQUIRED
tostable	TOS table type to edit.	REQUIRED
dscpidx	Index in the DSCP table to edit.	REQUIRED
precedencemap	The IP priority precedence mapping values.	REQUIRED

eth bridge ippriomapreset

Reset the IP priority mappings to its defaults.

eth bridge ippriomapreset	[brname = <{bridge}>] type = <{tos dscp}>	
where:		
brname	The name of a bridge instance.	OPTIONAL
type	For which IP priority type to reset the precedencemap.	REQUIRED

eth bridge list

Display the current bridge instances.

eth bridge list	[brname = <{bridge}>]	
where:		
brname	The name of a bridge instance.	OPTIONAL

eth bridge macadd

Add a static MAC address to a bridge interface.

eth bridge macadd	<pre>[brname = <{bridge}>] intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}> hwaddr = <hardware-address> [vlan = <{default}>]</hardware-address></pre>	
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The name of the bridge interface.	REQUIRED
hwaddr	The ethernet MAC address of the new entry.	REQUIRED
vlan	The VLAN.	OPTIONAL

eth bridge macdelete

Remove a MAC address from the database.

eth bridge macdelete	<pre>[brname = <{bridge}>] hwaddr = <hardware-address> [vlan = <{default}>]</hardware-address></pre>	
where:		
brname	The name of a bridge instance.	OPTIONAL
hwaddr	The ethernet MAC address of the entry.	REQUIRED
vlan	The VLAN.	OPTIONAL

eth bridge maclist

Display the MAC address database.

eth bridge maclist	[brname = <{bridge}>]	
where:		
brname	The name of a bridge instance.	OPTIONAL

eth bridge rule add

Add a new constraint to the VLAN learning system.

eth bridge rule add	<pre>type = <{shared independant}> vlan = <{default}> [vlan2 = <{default}>] [isi = <number{0-32}>]</number{0-32}></pre>	
type	Type of constraint.	REQUIRED
vlan	The VLAN where the constraint belongs to.	REQUIRED
vlan2	The second VLAN for a shared constraint.	OPTIONAL
isi	The indenpendent set id for an independent constraint.	OPTIONAL

eth bridge rule delete

Delete a constraint from the VLAN learning system.

eth bridge rule delete	index = $<$ number $\{0-32\}>$	
where:		
index	Index of the constraint.	REQUIRED

eth bridge rule flush

Flush all constraints from the VLAN learning system.

eth bridge rule list

Display all constraints from the VLAN learning system.

eth bridge select

Select the default bridge for configuring interfaces from (if not setting

eth bridge select	<pre>brname = <{bridge}></pre>	
where:		
brname	The name of a bridge instance.	REQUIRED

eth bridge unknownvlan ifadd

Add bridge interface to unknown 'VLAN'.

eth bridge unknown	/lan ifadd	<pre>[brname = <{bridge}>] intf = <{OBC ethport1 ethport2 ethport4 WLAN virt}> [untagged = <{disabled enabled}>]</pre>	port3
where:			
brname	The	e name of a bridge instance.	OPTIONAL
intf		e name of the bridge interface to add to the unknown _AN'.	REQUIRED
untagged		able/disable interface as untagged for this unknown _AN'.	OPTIONAL

eth bridge unknownvlan ifconfig

Modify bridge interface from unknown 'VLAN'.

eth bridge unknownvlan ifconfig	<pre>[brname = <{bridge}>] intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}> [untagged = <{disabled enabled}>]</pre>	
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The bridge interface from the unknown 'VLAN' to configure.	REQUIRED
untagged	Enable/disable interface as untagged for this unknown 'VLAN'.	OPTIONAL

eth bridge unknownvlan ifdelete

Delete bridge interface from unknown 'VLAN'.

eth bridge unknownvlan ifdelete	<pre>[brname = <{bridge}>] intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}></pre>	
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The name of the bridge interface to remove from the unknown 'VLAN'.	REQUIRED

eth bridge unknownvlan iflist

Display all interfaces of the unknown 'VLAN'.

eth bridge vlan ifadd

Add bridge interface to virtual LAN.

eth bridge vlan ifadd	<pre>name = <{default}> intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}> [untagged = <{disabled enabled}>]</pre>	
where:		
name	The VLAN name.	REQUIRED
intf	The name of the bridge interface to add to the VLAN.	REQUIRED
untagged	Enable/disable interface as untagged for this VLAN.	OPTIONAL

eth bridge vlan ifconfig

Modify bridge interface from virtual LAN.

eth bridge vlan ifconfig	<pre>name = <{default}> intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}> untagged = <{disabled enabled}></pre>	
where:		
name	The VLAN name.	REQUIRED
intf	The bridge interface from the VLAN to configure.	REQUIRED
untagged	Enable/disable interface as untagged for this VLAN.	REQUIRED

eth bridge vlan ifdelete

Delete bridge interface from virtual LAN.

eth bridge vlan ifdelete	<pre>name = <{default}> intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}></pre>	
where:		
name	The VLAN name.	REQUIRED
intf	The name of the bridge interface to remove from the VLAN.	REQUIRED

eth bridge vlan iflist

Display all vitual LAN's.

eth bridge xtratag add

Add an extra tag mapping entry.

eth bridge xtratag add	<pre>[brname = <{bridge}>] intf = <{0BC ethport1 ethport2 ethport4 WLAN virt}> innervid = <{[1-4094] all }> outervid = <{[1-4094] notag transp.</pre>	
brname	The name of a bridge instance.	OPTIONAL
intf	The name of the bridge interface.	REQUIRED
innervid	The inner VLAN id [all,1-4094] (all = all inner vid will be translated to the outer vid).	REQUIRED
outervid	The outer VLAN id [notag,1-4094,transparent] (notag: outer not tagged, transparent: tagged as inner).	REQUIRED

eth bridge xtratag config

Configure an extra tag mapping entry.

eth bridge xtratag config	<pre>[brname = <{bridge}>] intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}> innervid = <{[1-4094] all }> outervid = <{[1-4094] notag transparent }></pre>	
where: brname	The name of a bridge instance.	OPTIONAL
intf	The name of the bridge interface.	REQUIRED
innervid	The inner VLAN id [all,1-4094] (all = all inner vid will be translated to the outer vid).	REQUIRED
outervid	The outer VLAN id [notag,1-4094,transparent] (notag: outer not tagged, transparent: tagged as inner).	REQUIRED

eth bridge xtratag delete

Delete an extra tag mapping entry.

eth bridge xtratag delete	<pre>[brname = <{bridge}>] intf = <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}> innervid = <{[1-4094] all }></pre>	
where:		
brname	The name of a bridge instance.	OPTIONAL
intf	The name of the bridge interface.	REQUIRED
innervid	The inner VLAN id [all,1-4094] (all = all inner vid will be translated to the outer vid).	REQUIRED

eth bridge xtratag flush

Flush all extra tag mapping entries.

eth bridge xtratag list

Display all extra tag mapping entries.

eth device ifautoneg

Adapt/list an Ethernet port's autonegotiation parameters (if autonegotiation

eth device ifautoneg	<pre>intf = <{ethif1 ethif2 ethif3 ethif4 }> [speed = <{auto 10Mb 100Mb 1Gb}>] [duplex = <{auto half full}>] [pause = <{none asym sym both}>]</pre>	
intf	The Ethernet port's name to adapt or show info from.	REQUIRED
speed	The speed mode.	OPTIONAL
duplex	The duplex mode.	OPTIONAL
pause	The flow-control mode.	OPTIONAL

eth device ifconfig

Configure an Ethernet port's type setting (disable/enable autonegotiation).

eth device ifconfig	<pre>intf = <{ethif1 ethif2 ethif3 ethif4 }> [state = <{enabled disabled}>] [type = <{auto 10BaseTHD 10BaseTFD 100BaseTHD 100BaseTFD}>] [mtu = <number{1518-1534}>]</number{1518-1534}></pre>	
where:		
intf	The Ethernet port's name.	REQUIRED
state	The port's administrative state.	OPTIONAL
type	The port's type setting. If auto, then autonegotiation will be used, if something else, then autonegotiation will be disabled. Be careful with using this command: a wrong type setting make you loose the link. Use the autonegotian settings command instead: this is much more reliable!	OPTIONAL
mtu	The MTU for this Ethernet port.	OPTIONAL

eth device iflist

Show all Ethernet ports' operational status.

eth device ifrestart

Reset an Ethernet port and restart autone gotiation.

eth device ifrestart	<pre>intf = <{ethif1 ethif2 ethif3 ethif4 }></pre>	
where:		
intf	The Ethernet port's to be reset (restart autonegotiation).	REQUIRED

eth filter operand add

Add a filter operand.

eth filter operand add	operand = <string></string>	
where:		
operand	The name of the new operand operand.	REQUIRED

eth filter operand config

Set the operand to a certain type (will reset content first).

SYNTAX:

eth filter operand config	operand = <{}>
	type = <{CheckDAClass CheckFrameClass
	CheckVLANPriority CheckVID CheckIPProto
	CheckSize Match Modify CheckCheckSum
	UpdateCheckSum}>
	operator = <{Equal Less LessEqual InSet}>
	protocollevel = <{EthernetFrame Protocol
	EthernetPayload ULPHeader ULPPayload}>
	length = <number></number>
	mask = <string></string>
	value = <string></string>
	daclass = <{Unicast Multicast Broadcast}>
	[frameclass = <{Eth2 SNAPEType SNAP8021H
	SNAPOther LLCNLPID LLCOther}>]
	[ipprotocol = < number (0-254) >]
	action = <{Delete Insert Modify}>
	offset = <number></number>
	· ,
	<pre>protocol = <{IP UpperLayer}></pre>
	<pre>[priority = <number 0-7="" {="" }="">] size = <number> [vid = <number 1-4095="" {="" }="">] protocol = < { IP Upper Layer } ></number></number></number></pre>

where:

operand	The name of an operand.	REQUIRED
type	The type to set.	REQUIRED
operator	The compare operator.	REQUIRED
protocollevel	The protocol level from where to start offset/size calculations.	REQUIRED
length	The length of the compare value/mask combination in bytes	REQUIRED
mask	The mask to be used on the value.	REQUIRED
value	The value.	REQUIRED
daclass	The destination address class.	REQUIRED
frameclass	The Ethernet frame class to filter on.	OPTIONAL
ipprotocol	The IP protocol to filter on.	OPTIONAL
action	The action to undertake with matching filter	REQUIRED
offset	At which offset from protocol level in bytes the Match/ Modify action should start (in bytes).	REQUIRED

priority	The VLAN priority to filter on.	OPTIONAL
size	The size of the frame at this protocol level.	REQUIRED
vid	The VID to filter on.	OPTIONAL
protocol	The protocol level of the checksum.	REQUIRED

eth filter operand delete

Delete a filter operand.

eth filter operand delete	operand = <{}>	
where:		
operand	The name of the operand to delete.	REQUIRED

eth filter operand flush

Remove all filter operands (this will only delete the ones not in use: flush

eth filter operand frameclassadd

Add another frameclass in the set.

eth filter operand frameclassadd	<pre>operand = <{}> frameclass = <{Eth2 SNAPEType SNAP8021H SNAPOther LLCNLPID LLCOther}></pre>	
where:		
operand	The name of an operand.	REQUIRED
frameclass	The frame class to add.	REQUIRED

eth filter operand frameclassdelete

Delete a frameclasse from the set.

eth filter operand frameclassdelete	<pre>operand = <{}> frameclass = <{Eth2 SNAPEType SNAP8021H SNAPOther LLCNLPID LLCOther}></pre>	
where:		
operand	The name of an operand.	REQUIRED
frameclass	The frameclass to remove.	REQUIRED

eth filter operand ipprotoadd

Add another ip protocol in the set.

eth filter opera	nd ipprotoadd	<pre>operand = <{}> ipprotocol = <number{0-255}></number{0-255}></pre>	
where:			
operand	The	e name of an operand.	REQUIRED
ipprotocol	The	e IP protocol to add.	REQUIRED

eth filter operand ipprotodelete

Delete a ip protocol from the set.

eth filter operand ipprotodelete	operand = <{}> ipprotocol = <{}>	
where:		
operand	The name of an operand.	REQUIRED
ipprotocol	The IP protocol to remove.	REQUIRED

eth filter operand list

Display the filter operands.

eth filter operand list	<pre>[operand = <{}>] [expand = <{disabled enabled}>]</pre>	
where:		
operand	The name of an operand.	OPTIONAL
expand	Expanded listing.	OPTIONAL

eth filter operand priorityadd

Add another priority in the set.

eth filter operand prior	<pre>ityadd operand = <{}> priority = <number{0-7}></number{0-7}></pre>	
where:		
operand	The name of an operand.	REQUIRED
priority	The vlan priority to add.	REQUIRED

eth filter operand prioritydelete

Delete a ip priority from the set.

eth filter operand prioritydelete	operand = <{}> priority = <{}>	
where:		
operand	The name of an operand.	REQUIRED
priority	The vlan priority to remove.	REQUIRED

eth filter operand reset

Reset an operand to its default initial state (removes all content, set to

eth filter operand reset	operand = <{}>	
where:		
operand	The name of an operand.	REQUIRED

eth filter operand vidadd

Add another VID in the set.

eth filter operand vidadd	operand = <{}> vid = <number{1-4095}></number{1-4095}>	
where:		
operand	The name of an operand.	REQUIRED
vid	The VID to add.	REQUIRED

eth filter operand viddelete

Delete a VID from the set.

eth filter operand viddelete	operand = <{}> vid = <{}>	
where:		
operand	The name of an operand.	REQUIRED
vid	The VID to remove.	REQUIRED

eth filter template add

Add a filter.

eth filter template add	<pre>filter = <string> [location = <{Ingress Egress VID I [level = <number{0-65535}>] [tracing = <{disabled enabled}>] [mark = <{disabled enabled}>]</number{0-65535}></string></pre>	Priority}>]
where:		
filter	The name of the filter.	REQUIRED
location	The filter location.	OPTIONAL
level	The filter level (lower level is processed first = priority)	OPTIONAL
tracing	Enable/disabled tracing of packets	OPTIONAL
mark	Enable/disabled marking of packets	OPTIONAL

eth filter template config

Config a filter.

eth filter template config	<pre>filter = <{}> [location = <{Ingress Egress VID I [level = <number{0-65535}>] [tracing = <{disabled enabled}>] [mark = <{disabled enabled}>]</number{0-65535}></pre>	Priority}>]
where:		
filter	The name of an filter.	REQUIRED
location	The filter location.	OPTIONAL
level	The filter level (lower level is processed first = priority)	OPTIONAL
tracing	Enable/disabled tracing of packets	OPTIONAL
mark	Enable/disabled marking of packets	OPTIONAL

eth filter template delete

Delete a filter.

eth fil	ter template delete	filter = <{}>	
where:			
filter	Tł	ne name of an filter.	REQUIRED

eth filter template flush

Remove all filters.

eth filter template list

Display the filters.

eth filter template list	<pre>[filter = <{}>] [expand = <{disabled enabled}>]</pre>	
where:		
filter	The name of an filter.	OPTIONAL
expand	Expanded listing.	OPTIONAL

eth filter template ruleadd

Connect an operand rule with a filter.

eth filter template ruleadd	<pre>filter = <{}> operand = <{}> [negate = <{disabled enabled}>] [order = <number{-100-100}>] [operator = <{Ignore AND OR}>]</number{-100-100}></pre>	
where:		
filter	The name of an filter.	REQUIRED
operand	The name of the operand to connect with.	REQUIRED
negate	negate or not the operand outcome.	OPTIONAL
order	The operand order in thes filter (lower order is processed first = priority)	OPTIONAL
operator	Operand operator.	OPTIONAL

eth filter template ruledel

Remove an operand rule from a filter.

eth filter template ruledel	filter = <{}> ruleid = <{}>	
where:		
filter	The name of an filter.	REQUIRED
ruleid	The name of the operand to remove.	REQUIRED

eth filter template rulemodify

Modify an operand rule from a filter.

SYNTAX:

where:

filter	The name of an filter.	REQUIRED
ruleid	The name of the operand to remove.	REQUIRED
operand	The name of the operand to connect with.	OPTIONAL
negate	negate or not the operand outcome.	OPTIONAL
order	The operand order in thes filter (lower order is processed first = priority)	OPTIONAL
operator	Operand operator.	OPTIONAL

eth filter template setpriority

Action: enable/disable priority derivation

eth filter template setpriority	<pre>filter = <{}> [state = <{disabled enabled}>] priority = <number{0-15}></number{0-15}></pre>	
where:		
filter	The name of an filter.	REQUIRED
state	Enable/disabled priority derivation for this filters	OPTIONAL
priority	The priority to set in the derivation.	REQUIRED

eth filter template setvid

Action: enable/disable VID derivation

eth filter template setvid	<pre>filter = <{}> [state = <{disabled enabled}>] vid = <number{1-4095}></number{1-4095}></pre>	
where:		
filter	The name of an filter.	REQUIRED
state	Enable/disabled VID derivation for this filters	OPTIONAL
vid	The VID to set in the derivation.	REQUIRED

eth flush

Flush all ETH interfaces.

eth ifattach

Attach an ETH interface.

eth ifattach	intf = <{}>	
where:		
intf	The name of the ETH interface.	REQUIRED

eth ifconfig

Modify an ETH interface.

eth ifconfig where:	<pre>intf = <{ethoa_8_35}> [dest = <{bridge ethoa_8_35}>] [retry = <number{0-65535}>] [wan = <{disabled enabled}>] [priotag = <{disabled enabled}>] [vlan = <{default}>]</number{0-65535}></pre>	
intf	The name of the ETH interface to configure.	REQUIRED
dest	The destination interface for this ETH interface.	OPTIONAL
retry	The number of times the ETH connection setup should retry before giving up.	OPTIONAL
wan	Enable/Disable WAN for this ETH interface.	OPTIONAL
priotag	Enable/Disable VLAN priority tagging.	OPTIONAL
vlan	The VLAN for this ETH interface.	OPTIONAL

eth ifdelete

Delete an ETH interface.

eth ifdelete	intf = <{ethoa_8_35}>	
where:		
intf	The name of the ETH interface.	REQUIRED

eth ifdetach

Detach an ETH interface.

eth ifdetach	intf = <{ethoa_8_35}>	
where:		
intf	The name of the ETH interface.	REQUIRED

eth iflist

Display the ETH interfaces.

eth iflist	[intf = <{ethoa_8_35}>]	
where:		
intf	The name of an ETH interface.	OPTIONAL

eth switch group delete

Delete a specified port from a specified group.

eth switch group delete	<pre>group = <number{0-5}> port = <number{1-4}></number{1-4}></number{0-5}></pre>	
where:		
group	The group id.	REQUIRED
port	The port.	REQUIRED

eth switch group flush

To set all ports to the default settings (all ports in group 0).

eth switch group list

List all configured groups.

eth switch group move

Move a specified port to a specified group.

eth switch group move	<pre>group = <number{0-5}> port = <number{1-4}></number{1-4}></number{0-5}></pre>	
where:		
group	The group id.	REQUIRED
port	The port.	REQUIRED

eth switch info

Display switch capabilities

eth switch mirror capture

Define the specified port to be the Mirror Capture Port.

eth sw	itch mirror capture	<pre>port = <number{1-4}></number{1-4}></pre>	
where:			
port	The	e port.	REQUIRED

eth switch mirror egress

Enable or disable the specified port to be a Transmitted Port Mirroring.

eth switch mirror egress	<pre>port = <number{1-4}> [state = <{enabled disabled}>]</number{1-4}></pre>	
where:		
port	The port.	REQUIRED
state	Enable/disable state.	OPTIONAL

eth switch mirror ingress

Enable or disable the specified port to be a Received Port Mirroring.

eth switch mirror ingress	<pre>port = <number{1-4}> [state = <{enabled disabled}>]</number{1-4}></pre>	
where:		
port	The port.	REQUIRED
state	Enable/disable state.	OPTIONAL

eth switch qos config

Configure common qos parameters.

SYNTAX:

rxbackpressure

txbackpressure

eth switch gos config where:	<pre>state = <{enabled disabled} [nbr0fQueues = <number{0-4} [realtime="<{enabled disable}" [threshold="<number{0-15}"> [rxbackpressure = <{disable} [txbackpressure = <{disable}</number{0-4}></pre>	>>] pled}>] o] ed enabled}>]
state	Enable/disable QoS.	REQUIRED
nbrOfQueues	Number of queues.	OPTIONAL
realtime	Enable/disable realtime.	OPTIONAL
threshold	Tx Qos threshold.	OPTIONAL

Rx).

Enable/disable controlled receive from switch (OBC pauses

Enable/disable controlled transmit to switch (switch pauses

OPTIONAL

OPTIONAL

eth switch qos ifconfig

Configure per port qos parameters.

eth switch qos ifconfig	<pre>port = <number{1-4}> mode = <[+/-]flag[+/-flag]{802.1; diffserv tos}> [flowcontrol = <{disabled enabled}></number{1-4}></pre>	
port	The port.	REQUIRED
mode	Classifier.	REQUIRED
flowcontrol	Enable/disable flow-control.	OPTIONAL

eth switch qos list

Display qos configuration.

eth switch qos weights

Configure the queue weights.

eth switch qos weights where:	<pre>queue0 = <number{0-100}> queue1 = <number{0-100}> queue2 = <number{0-100}> queue3 = <number{0-100}></number{0-100}></number{0-100}></number{0-100}></number{0-100}></pre>	
queue0	Weight of queue 0 in WFQ (in %).	REQUIRED
queue1	Weight of queue 1 in WFQ (in %).	REQUIRED
queue2	Weight of queue 2 in WFQ (in %).	REQUIRED
queue3	Weight of queue 3 in WFQ (in %).	REQUIRED

eth switch shaper config

Configure common ingress shaper parameters.

```
eth switch shaper config
                                      shaper = <number\{0-1\}>
                                      [unicast = <{enabled|disabled}>]
                                      [multicast = <{enabled|disabled}>]
[broadcast = <{enabled|disabled}>]
                                      [control = <{enabled|disabled}>]
                                      [unknown = <{enabled|disabled}>]
                                      [discard = <{enabled|disabled}>]
                                      [normalize = <{enabled|disabled}>]
                                      [exclude_ipg = <{enabled|disabled}>]
where:
```

shaper	The shaper instance.	REQUIRED
unicast	Shape unicast traffic.	OPTIONAL
multicast	Shape multicast traffic.	OPTIONAL
broadcast	Shape broadcast traffic.	OPTIONAL
control	Shape MAC control traffic.	OPTIONAL
unknown	Shape traffic with unknown destination address.	OPTIONAL
discard	Discard frame at overflow (else attempt for flow control).	OPTIONAL
normalize	Use relative speed calculations.	OPTIONAL
exclude_ipg	Exclude the Inter Packet Gap in the speed calculations.	OPTIONAL

eth switch shaper ifconfig

Configure per port shaper parameters.

eth switch shaper ifconfig	<pre>port = <number{1-4}> ingress = <{enabled disabled}> shaper = <number{0-1}> [state = <{enabled disabled}>] [speed = <number{64000-1000000000000000000000000000000000< th=""><th></th></number{64000-1000000000000000000000000000000000<></number{0-1}></number{1-4}></pre>	
where:		
port	The port.	REQUIRED
ingress	Ingress port = enabled; egress port = disabled.	REQUIRED
shaper	The shaper instance.	REQUIRED
state	Enable/disable shaping.	OPTIONAL
speed	Speed in bits/sec.	OPTIONAL
burstsize	Burst size in KBytes.	OPTIONAL

eth switch shaper iflist

Display shaper configuration per port.

eth switch share add

Add a port to be shared.

eth switch share add	port = $<$ number $\{1-4\}>$ shared = $<$ number $\{1-4\}>$	
where:		
port	The port.	REQUIRED
shared	The shared port.	REQUIRED

eth switch share delete

Delete a shared port.

eth switch share delete	port = $<$ number $\{1-4\}>$ shared = $<$ number $\{1-4\}>$	
where:		
port	The port.	REQUIRED
shared	The shared port.	REQUIRED

eth switch share list

Display shared ports.

eth switch storm ifconfig

Configure per port storm control parameters.

SYNTAX:

414

eth switch storm ifconfig	<pre>port = <number{1-4}> [state = <{enabled disabled}>] [rate = <number{0-1000}>] [burstsize = <{16 20 28 40 76 140 268 500}>] [broadcast = <{enabled disabled}>] [multicast = <{enabled disabled}>] [unknown = <{enabled disabled}>]</number{0-1000}></number{1-4}></pre>		
where:			
port	The port.	REQUIRED	
state	Enable/disable storm control.	OPTIONAL	
rate	Rate in 10ths of percent.	OPTIONAL	
burstsize	Burst size in KBytes.	OPTIONAL	
broadcast	Storm control for broadcast traffic.	OPTIONAL	
multicast	Storm control for multicast traffic.	OPTIONAL	
unknown	Storm control for traffic with unknown destination address.	OPTIONAL	

eth switch storm iflist

Display storm control configuration per port.

eth vlan add

Add a new virtual LAN.

eth vlan add	<pre>name = <string> vid = <number{2-4094}> [addrule = <{disabled enabled}>]</number{2-4094}></string></pre>	
where:		
name	The new VLAN name.	REQUIRED
vid	The new VLAN id.	REQUIRED
addrule	Add the default bridge constraint.	OPTIONAL

eth vlan delete

Delete a virtual LAN.

eth vlan delete	<pre>name = <{default}></pre>	
where:		
name The VLAN name.		REQUIRED

eth vlan flush

Flush all virtual LAN's.

eth vlan list

Display all virtual LAN's.

eth vlan priomap config

Change a VLAN/DE to/from internal priority mapping.

eth vlan priomap config	<pre>entry = <{prio_0_7_2vlan pr prio_0_7_2de prio_8_15_2de vlan2prio_de_1}> priomap = <string></string></pre>	
where:		
entry	Which prioritymap entry to edit.	REQUIRED
priomap	The 8 priority mapping values.	REQUIRED

eth vlan priomap list

Display the VLAN/DE to/from internal priority mappings.

```
name = <{wan|local|lan|tunnel|dmz|guest|
eth vlan priomap list
                                  private|ssdp_ip|mdap_ip|imap|imap3|imap4-
                                  ssl|imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|
                                  ipsec esp ah ike DiffServ sip h323 dhcp rtsp
                                  ssdp_serv|mdap_serv|syslog}>
                                  [type = <{intf|ip|serv|mac|length}>]
                                  mac [!] = <hardware-address>
                                  addr [!] = <ip-range>
                                  [mask [ = <ip-mask(dotted or cidr)>]
                                  [intf [!] = <{loop|Internet|LocalNetwork}>]
                                  [intfgroup [!] = <{wan|local|lan|tunnel|dmz|</pre>
                                  guest } or number > ]
                                  [tos [!] = < number {0-255}>]
                                  [precedence [!] = <{routine|priority|</pre>
                                  immediate|flash|flash-override|CRITIC-ECP|
                                  internetwork-control|network-control} or
                                  number>1
                                  [dscp [!] = <{ef|af11|af12|af13|af21|af22|
                                  af23|af31|af32|af33|af41|af42|af43|cs0|cs1|
                                  cs2|cs3|cs4|cs5|cs6|cs7 or number>]
                                  [proto [!] = <{icmp|igmp|ipinip|tcp|udp|ah|</pre>
                                  esp|ipcomp} or number>]
                                  [srcport [!] = <{undefined|at-echo|at-nbp|
                                  at-rtmp|at-zis|auth|bgp|biff|doom|echo|exec|
                                  finger | ftp | ftp-data | gopher | h323 | httpproxy |
                                  ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|
                                  irc-o|irc-u|kerberos|ldap|login|netbios-dgm|
                                  netbios-ns|netbios-ssn|netwall|netware-ip|new-
                                  rwho|nfds|nicname|nntp|ntalk|ntp|pcmail-srv|
                                  pop2|pop3|printer|qotd|realaudio|rip|rtelnet|
                                  rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|
                                  sql-net|sqlserv|sunrpc|syslog|systat|talk|
                                  telnet | time | timed | tftp | ulistserv | utime | uucp |
                                  uucp-rlogin|who|www-http|whoami|xwindows} or
                                  number>]
                                  [srcportend = <{undefined|at-echo|at-nbp|</pre>
                                  at-rtmp|at-zis|auth|bgp|biff|doom|echo|exec|
                                  finger | ftp | ftp-data | gopher | h323 | httpproxy |
                                  ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|
                                  irc-o|irc-u|kerberos|ldap|login|netbios-dgm|
                                  netbios-ns|netbios-ssn|netwall|netware-ip|new-
                                  rwho|nfds|nicname|nntp|ntalk|ntp|pcmail-srv|
                                 pop2|pop3|printer|qotd|realaudio|rip|rtelnet|
                                  rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|
                                  sql-net|sqlserv|sunrpc|syslog|systat|talk|
                                  telnet | time | timed | tftp | ulistserv | utime | uucp |
```

<pre>number>] [dstport [!] = <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff doom echo exec finger ftp ftp-data gopher h323 httpproxy ike ils imap2 imap3 ingres-net ipcserver ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new- rwho nfds nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp sntp sql*net sql-net sqlserv sunrpc syslog systat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>] [dstportend = <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff doom echo exec finger ftp ftp-data gopher h323 httpproxy ike ils imap2 imap3 ingres-net ipcserver ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new- rwho nfds nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp sntp sql*net sql-net sqlserv sunrpc syslog systat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>] [icmptype[!] = <{echo-reply destination- unreachable source-quench redirect exceeded parameter-problems timestamp-request timestamp-reply information-request information-reply address-mask-request address-mask-reply} or number> [icmpcodeen = <number{0-15}>] iplengthmin [!] = <er{0-15}> iplengthmax = <er{0-15}>]</er{0-15}></er{0-15}></number{0-15}></pre>
- (* - · ·) - · · · · · · · · · · · · · · ·

where:

name	The name of an expression to add.	REQUIRED
type	The type of an expression.	OPTIONAL
mac [!]	The MAC address.	REQUIRED
	If a value is preceded by a "!", it means NOT.	
addr [!]	The IP address or range.	REQUIRED
	If a value is preceded by a "!", it means NOT.	
mask [The IP mask (ignored if an IP range is provided).	OPTIONAL
intf [!]	The IP interface name.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	

intfgroup [!]	The IP interface group.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
tos [!]	The Type Of Service specification in the IP packet.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
precedence [!]	The precedence in the IP packet (part of tos).	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
dscp [!]	The diffserv code point in the IP packet (part of tos).	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
proto [!]	The IP protocol (name or number) in the IP packet.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
srcport [!]	The TCP/UDP source port number or range begin.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
srcportend	The source TCP/UDP source port range end. (inclusive)	OPTIONAL
dstport [!]	The TCP/UDP destination port number or range begin.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
dstportend	The TCP/UDP destination port range end.	OPTIONAL
icmptype [!]	The ICMP type (name or number) of the packet.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
icmpcode [!]	The ICMP code or range begin.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
icmpcodeend	The ICMP code range end. (inclusive)	OPTIONAL
iplengthmin [!]	The minimum IP length in bytes (header inclusive).	REQUIRED
	If a value is preceded by a "!", it means NOT.	
iplengthmax	The maximum IP length including header in bytes (header inclusive).	OPTIONAL

EXPR COMMANDS

expr Commands

expr delete	Delete an expression.	see page 426
expr flush	Flush all expressions.	see page 427
expr list	List expressions.	see page 428
expr modify	Modify an expression.	see page 429

expr delete

Delete an expression.

expr delete	<pre>name = <{wan local lan tunnel dmz guest private ssdp_ip mdap_ip imap imap3 imap4- ssl imaps pop2 pop3 pop3s smtp ssh dns nntp ipsec esp ah ike DiffServ sip h323 dhcp rtsp ssdp_serv mdap_serv syslog}> [index = <number>]</number></pre>
where:	

name	The name of an expression to delete.	REQUIRED
index	The index of a subexpression.	OPTIONAL

expr flush

Flush all expressions.

SYNTAX:

expr flush	[state = <{disabled enabled}>]
	[keep = <{disabled enabled}>]
	[tcpchecks = <{none fast exact}>]
	[udpchecks = <{disabled enabled}>]
	<pre>[icmpchecks = <{disabled enabled}>]</pre>
	<pre>[logdefault = <{disabled enabled}>]</pre>
	<pre>[logthreshold = <{disabled enabled}>]</pre>
	$[tcpwindow = < number \{0-1073725440\} >]$

where:

state	Disable/Enable the firewall.	OPTIONAL
keep	Disable/Enable keeping existing connections when firewall rules change.	OPTIONAL
tcpchecks	Select level of TCP checks.	OPTIONAL
udpchecks	Disable/Enable UDP checks.	OPTIONAL
icmpchecks	Disable/Enable ICMP checks.	OPTIONAL
logdefault	Disable/Enable logging of default firewall rule.	OPTIONAL
logthreshold	Disable/Enable log thresholding.	OPTIONAL
tcpwindow	Modify the tcpwindow for fast TCP checks	OPTIONAL

expr list

List expressions.

SYNTAX:

expr list	<pre>[name = <{_intf_0 UPnP-HTTP_if_0 _intf_1 _intf_2 DHCP-R_if_0 wan local lan HTTPs_if_0 FTP_if_0 TELNET_if_0 DNS-S_if_0 PING_RESPONDER_if_0 MDAP_if_0 PPTPD_if_0 PPTPGRE_if_0 _addr_127_0_0_1 _addr_10_0_0_138 _addr_192_168_1_254 private ssdp_ip mdap_ip 192.168.1.253 UPnP-HTTP_sv_0 DHCP-R_sv_0 icmp igmp ftp telnet http httpproxy https RPC NBT SMB imap imap3 imap4-ssl imaps pop2 pop3 pop3s smtp ssh dns nntp ipsec esp ah ike DiffServ sip h323 dhcp rtsp ssdp_serv mdap_serv syslog HTTPI_sv_0 SDP_sv_0 DHCP-S_sv_0 HTTP_sv_0 HTTPs_sv_0 FTP_sv_0 TELNET_sv_0 IGMP-Proxy_sv_0 DNS-S_sv_0 PING_RESPONDER_sv_0 MDAP_sv_0 PPTPD_sv_0 PPTPGRE_sv_0}>] [type = <{intf ip serv mac length}>]</pre>
	[format = <{pretty cli}>]

where:

name	The name of an expression to list.	OPTIONAL
type	The type of an expression.	OPTIONAL
format	The format of the expression list.	OPTIONAL

expr modify

Modify an expression.

```
expr modify
                                  name = <{wan|local|lan|tunnel|dmz|guest|</pre>
                                  private|ssdp_ip|mdap_ip|imap|imap3|imap4-
                                  ssl|imaps|pop2|pop3|pop3s|smtp|ssh|dns|nntp|
                                  ipsec esp ah ike DiffServ sip h323 dhcp rtsp
                                  ssdp_serv|mdap_serv|syslog}>
                                  [type = <{intf|ip|serv|mac|length}>]
                                  index = <number>
                                  mac [!] = <hardware-address>
                                  addr [!] = <ip-range>
                                  [mask [ = <ip-mask(dotted or cidr)>]
                                  [intf [!] = <{loop|Internet|LocalNetwork}>]
                                  [intfgroup [!] = <{wan|local|lan|tunnel|dmz|</pre>
                                  guest} or number>]
                                  [tos [!] = < number {0-255}>]
                                  [precedence [!] = <{routine|priority|</pre>
                                  immediate|flash|flash-override|CRITIC-ECP|
                                  internetwork-control|network-control} or
                                  number>1
                                  [dscp [!] = <{ef|af11|af12|af13|af21|af22|
                                  af23|af31|af32|af33|af41|af42|af43|cs0|cs1|
                                  cs2|cs3|cs4|cs5|cs6|cs7 or number>]
                                  [proto [!] = <{icmp|igmp|ipinip|tcp|udp|ah|</pre>
                                  esp|ipcomp} or number>]
                                  [srcport [!] = <{undefined|at-echo|at-nbp|</pre>
                                  at-rtmp|at-zis|auth|bqp|biff|doom|echo|exec|
                                  finger | ftp | ftp-data | gopher | h323 | httpproxy |
                                  ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|
                                  irc-o|irc-u|kerberos|ldap|login|netbios-dgm|
                                  netbios-ns|netbios-ssn|netwall|netware-ip|new-
                                  rwho|nfds|nicname|nntp|ntalk|ntp|pcmail-srv|
                                  pop2|pop3|printer|qotd|realaudio|rip|rtelnet|
                                  rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|
                                  sql-net|sqlserv|sunrpc|syslog|systat|talk|
                                  telnet | time | timed | tftp | ulistserv | utime | uucp |
                                  uucp-rlogin | who | www-http | whoami | xwindows } or
                                  [srcportend = <{undefined|at-echo|at-nbp|</pre>
                                  at-rtmp|at-zis|auth|bgp|biff|doom|echo|exec|
                                  finger | ftp | ftp-data | gopher | h323 | httpproxy |
                                  ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|
                                  irc-o|irc-u|kerberos|ldap|login|netbios-dgm|
                                  netbios-ns|netbios-ssn|netwall|netware-ip|new-
                                  rwho|nfds|nicname|nntp|ntalk|ntp|pcmail-srv|
                                  pop2|pop3|printer|qotd|realaudio|rip|rtelnet|
                                  rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|
                                  sql-net|sqlserv|sunrpc|syslog|systat|talk|
                                  telnet | time | timed | tftp | ulistserv | utime | uucp |
```

```
uucp-rlogin|who|www-http|whoami|xwindows} or
[dstport [!] = < undefined at -echo at -nbp |
at-rtmp|at-zis|auth|bgp|biff|doom|echo|exec|
finger | ftp | ftp-data | gopher | h323 | httpproxy |
ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|
irc-o|irc-u|kerberos|ldap|login|netbios-dgm|
netbios-ns|netbios-ssn|netwall|netware-ip|new-
rwho|nfds|nicname|nntp|ntalk|ntp|pcmail-srv|
pop2|pop3|printer|qotd|realaudio|rip|rtelnet|
rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|
sql-net|sqlserv|sunrpc|syslog|systat|talk|
telnet | time | timed | tftp | ulistserv | utime | uucp |
uucp-rlogin|who|www-http|whoami|xwindows} or
number>]
[dstportend = <{undefined|at-echo|at-nbp|
at-rtmp|at-zis|auth|bgp|biff|doom|echo|exec|
finger | ftp | ftp-data | gopher | h323 | httpproxy |
ike|ils|imap2|imap3|ingres-net|ipcserver|ipx|
irc-o|irc-u|kerberos|ldap|login|netbios-dgm|
netbios-ns|netbios-ssn|netwall|netware-ip|new-
rwho|nfds|nicname|nntp|ntalk|ntp|pcmail-srv|
pop2|pop3|printer|qotd|realaudio|rip|rtelnet|
rtsp|sip|smtp|snmp|snmptrap|snpp|sntp|sql*net|
sql-net|sqlserv|sunrpc|syslog|systat|talk|
telnet | time | timed | tftp | ulistserv | utime | uucp |
uucp-rlogin|who|www-http|whoami|xwindows} or
[icmptype [!] = <{echo-reply|destination-</pre>
unreachable | source-quench | redirect | exceeded |
parameter-problems|timestamp-request|
timestamp-reply|information-request|
information-reply|address-mask-request|
address-mask-reply} or number>]
[icmpcode [!] = <number\{0-15\}>]
[icmpcodeend = <number\{0-15\}>]
iplengthmin [!] = \langle er\{0-15\} \rangle
[iplengthmax = \langle er\{0-15\} \rangle]
```

where:

name	The name of an expression to modify.	REQUIRED
type	The type of an expression.	OPTIONAL
index	The index of a subexpression.	REQUIRED
mac [!]	The MAC address.	REQUIRED
	If a value is preceded by a "!", it means NOT.	
addr [!]	The IP address or range.	REQUIRED
	If a value is preceded by a "!", it means NOT.	
mask [The IP mask (ignored if an IP range is provided).	OPTIONAL

intf [!]	The IP interface name.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
intfgroup [!]	The IP interface group.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
tos [!]	The Type Of Service specification in the IP packet.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
precedence [!]	The precedence in the IP packet (part of tos).	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
dscp [!]	The diffserv code point in the IP packet (part of tos).	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
proto [!]	The IP protocol (name or number) in the IP packet.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
srcport [!]	The TCP/UDP source port number or range begin.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
srcportend	The source TCP/UDP source port range end. (inclusive)	OPTIONAL
dstport [!]	The TCP/UDP destination port number or range begin.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
dstportend	The TCP/UDP destination port range end.	OPTIONAL
icmptype [!]	The ICMP type (name or number) of the packet.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
icmpcode [!]	The ICMP code or range begin.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
icmpcodeend	The ICMP code range end. (inclusive)	OPTIONAL
iplengthmin [!]	The minimum IP length in bytes (header inclusive).	REQUIRED
	If a value is preceded by a "!", it means NOT.	
iplengthmax	The maximum IP length including header in bytes (header inclusive).	OPTIONAL

FIREWALL COMMANDS

firewall Commands

firewall chain add	Add a chain.	see page 434
firewall chain delete	Delete a chain.	see page 435
firewall chain flush	Flush all chains.	see page 436
firewall chain list	Display a list of chains.	see page 437
firewall clear	Clear firewall configuration.	see page 438
firewall debug clear	Clear firewall statistics.	see page 439
firewall debug stats	Display firewall statistics.	see page 440
firewall debug traceconfig	Display/Modify firewall trace configuration.	see page 441
firewall level add	Add a new security level.	see page 442
firewall level delete	Delete a security level.	see page 443
firewall level flush	Flush security level configuration.	see page 444
firewall level list	List all security levels.	see page 445
firewall level modify	Modify a security level.	see page 446
firewall level set	Set/Display active security level.	see page 447
firewall list	Display firewall configuration.	see page 448
firewall rule add	Add a rule.	see page 449
firewall rule debug clear	Clear rule statistics.	see page 451
firewall rule debug stats	Display rule statistics.	see page 452
firewall rule debug traceconfig	Display/Modify rule trace configuration.	see page 453
firewall rule delete	Delete a rule.	see page 454
firewall rule flush	Flush all rules.	see page 455
firewall rule list	Display a list of rules.	see page 456
firewall rule modify	Modify a rule.	see page 457

firewall chain add

Add a chain.

firewall chain add	chain = <string></string>	
where:		
chain	The name of the chain to add.	REQUIRED

firewall chain delete

Delete a chain.

firewall chain delete	chain = <chain name=""></chain>	
where:		
chain	The name of the chain to delete.	REQUIRED

firewall chain flush

Flush all chains.

firewall chain list

Display a list of chains.

firewall chain list	[format = <{pretty cli}>]	
where:		
format	The format of the chain list.	OPTIONAL

firewall clear

Clear firewall configuration.

firewall debug clear

Clear firewall statistics.

firewall debug stats

Display firewall statistics.

firewall debug traceconfig

Display/Modify firewall trace configuration.

firewall debug traceconfig	<pre>[tcpchecks = <{disabled enabled}>] [udpchecks = <{disabled enabled}>] [icmpchecks = <{disabled enabled}>] [sink = <{none all accept deny drop reset} or number>] [forward = <{none all accept deny drop reset} or number>] [source = <{none all accept deny drop reset} or number>]</pre>	
where:		
tcpchecks	Disable/Enable tcpchecks traces.	OPTIONAL
udpchecks	Disable/Enable udpchecks traces.	OPTIONAL
icmpchecks	Disable/Enable icmpchecks traces.	OPTIONAL
sink	The action the firewall traces for sink traffic.	OPTIONAL
forward	The action the firewall traces for forward traffic.	OPTIONAL
source	The action the firewall traces for source traffic.	OPTIONAL

firewall level add

Add a new security level.

SYNTAX:

firewall level add	<pre>name = <string></string></pre>
	[index = <number>]</number>
	<pre>[readonly = <{disabled enabled}>]</pre>
	<pre>[udptrackmode = <{strict loose}>]</pre>
	[service = <{disabled enabled}>]
	[proxy = <{disabled enabled}>]
	<pre>[text = <quoted string="">]</quoted></pre>
	<pre>[policy = <{default drop accept strict </pre>
	loose}>]

where:

name	The name of the security level to add.	REQUIRED
index	The index of the security level.	OPTIONAL
readonly	Select whether the security level is readonly.	OPTIONAL
udptrackmode	Select UDP connection tracking mode.	OPTIONAL
service	Enable/Disable host service definitions for this security level.	OPTIONAL
proxy	Enable/Disable proxy system services for this security level.	OPTIONAL
text	The description of this security level.	OPTIONAL
policy	Select default policy of this security level.	OPTIONAL

firewall level delete

Delete a security level.

firewall level delete	name = <security level="" name=""></security>	
where:		
name	The name of the security level to delete.	REQUIRED

firewall level flush

Flush security level configuration.

firewall level list

List all security levels.

firewall level list	[format = <{pretty cli}>]	
where:		
format	The format of the security level list.	OPTIONAL

firewall level modify

Modify a security level.

SYNTAX:

firewall level modify	name = <security level="" name=""></security>
illewall level moally	[index = <number>]</number>
	[readonly = <{disabled enabled}>]
	[udptrackmode = <{strict loose}>]
	[service = <{disabled enabled}>]
	[proxy = <{disabled enabled}>]
	<pre>[text = <quoted string="">]</quoted></pre>
	[policy = <{default drop accept strict
	loose}>]

where:

name	The name of the security level to modify.	REQUIRED
index	The index of this security level.	OPTIONAL
readonly	Select whether the security level is readonly.	OPTIONAL
udptrackmode	Select UDP connection tracking mode.	OPTIONAL
service	Enable/Disable service definitions for this security level.	OPTIONAL
proxy	Enable/Disable proxy system services for this security level.	OPTIONAL
text	The description of this security level.	OPTIONAL
policy	Select default policy of this security level.	OPTIONAL

firewall level set

Set/Display active security level.

firewall level set	<pre>[name = <security level="" name="">]</security></pre>	
where:		
name	The name of the security level to set active.	OPTIONAL

firewall list

Display firewall configuration.

firewall list	[format = <{pretty cli}>]	
where:		
format	The format of the firewall list.	OPTIONAL

firewall rule add

Add a rule.

SYNTAX:

firewall rule add	chain = <chain name=""></chain>
	[index = <number>]</number>
	[name = <string>]</string>
	[clink = <chain name="">]</chain>
	[srcintf [!] = <{wan local lan tunnel dmz
	guest}>]
	[srcip [!] = <{private ssdp_ip mdap_ip
	192.168.1.253}>]
	[dstintf [!] = <{wan local lan tunnel dmz
	guest}>]
	[dstip [!] = <{private ssdp_ip mdap_ip
	192.168.1.253}>]
	[serv [!] = <\icmp igmp ftp telnet http
	httpproxy https RPC NBT SMB imap esp ah
	ike DiffServ sip h323 dhcp rtsp ssdp_serv
	mdap_serv syslog}>]
	[length [!] = <{}>]
	- ()
	[log = <{disabled enabled}>]
	[state = <{disabled enabled}>]
	<pre>action = <{accept deny drop reset count link}></pre>

where:

chain	The name of the chain which contains the rule.	REQUIRED
index	The index of the rule in the chain.	OPTIONAL
name	The name of the new rule.	OPTIONAL
clink	The name of the chain to be parsed when this rule applies.	OPTIONAL
srcintf [!]	The name of the source interface expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
srcip [!]	The name of the source ip expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
dstintf [!]	The name of the destination interface expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
dstip [!]	The name of the destination ip expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
serv [!]	The name of the service expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	

FIREWALL COMMANDS

length [!]	The name of the length expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
log	Disable/Enable logging when this rule applies.	OPTIONAL
state	Disable/Enable this rule.	OPTIONAL
action	The action to be taken when this rule applies ('link' when clink is used).	REQUIRED

firewall rule debug clear

Clear rule statistics.

SYNTAX:

firewall rule debug clear	<pre>[chain = <chain name="">] [index = <number>] Show the current routes in the grp r table. = <number></number></number></chain></pre>	routing
where:		
chain	The name of the chain.	OPTIONAL
index	The index of the rule in the chain.Command: grp rtlist	OPTIONAL
Show the current routes in the grp routing table.	Syntax : rtlist [dst = <ip-address>] [dstmsk = <ip-mask(dotted cidr)="" or="">]</ip-mask(dotted></ip-address>	REQUIRED

firewall rule debug clear	<pre>[dst = <ip-address>] [dstmsk = <ip-mask(dotted cidr);<="" or="" pre=""></ip-mask(dotted></ip-address></pre>	>]
where:		
dst	The destination IP address using this route. Supports ip/mask notation.	OPTIONAL
dstmsk	The destination IP address mask.	OPTIONAL

firewall rule debug stats

Display rule statistics.

firewall rule debug stats	<pre>[chain = <chain name="">] [index = <number>]</number></chain></pre>	
where:		
chain	The name of the chain.	OPTIONAL
index	The index of the rule in the chain.	OPTIONAL

firewall rule debug traceconfig

Display/Modify rule trace configuration.

firewall rule debug traceconfig	[state = <{disabled enabled}>]	
where:		
state	Disable/Enable rule traces.	OPTIONAL

firewall rule delete

Delete a rule.

firewall rule delete	<pre>chain = <chain name=""> index = <number></number></chain></pre>	
where:		
chain	The name of the chain in which to delete the rule.	REQUIRED
index	The number of the rule in the chain.	REQUIRED

firewall rule flush

Flush all rules.

firewall	rule flush	[chain = <chain name="">]</chain>	
where:			
chain		The name of the chain to flush.	OPTIONAL

firewall rule list

Display a list of rules.

firewall rule list	<pre>[chain = <chain name="">] [format = <{pretty cli}>]</chain></pre>	
where:		
chain	The name of the chain to list the rules of.	OPTIONAL
format	The format of the rule list.	OPTIONAL

firewall rule modify

Modify a rule.

|--|

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w	h	Δ	r	۵	٠

chain The name of the chain which contain The index of the rule in the chain. The new index of the rule in the chain The new index of the rule in the chain The name of the new rule. Clink The name of the chain to be parsed v [!]srcintf] The name of the source interface exp If a value is preceded by a "!", it mean [!]srcip] The name of the source ip expression If a value is preceded by a "!", it mean		REQUIRED OPTIONAL OPTIONAL
newindex The new index of the rule in the chain name The name of the new rule. The name of the chain to be parsed with the name of the source interface explication of the source interface explication of the source in the chain to be parsed with the name of the source interface explication of the source in the chain to be parsed with the name of the source interface explication of the source in the chain to be parsed with the name of the source interface explication of the name of the source in the chain to be parsed with the name of the source interface explication of the name of the source in the name of the name of the source in the name of the source in the name of the source in the name of the name of the source in the name of	n.	OPTIONAL
name The name of the new rule. The name of the chain to be parsed with the source interface expended by a "!", it means the source in the so	n.	
clink The name of the chain to be parsed v [!]srcintf] The name of the source interface exp If a value is preceded by a "!", it mean [!]srcip] The name of the source ip expression If a value is preceded by a "!", it mean		OPTIONAL
[!]srcintf] The name of the source interface explication of the source explication of t		
[!]srcip] The name of the source ip expression If a value is preceded by a "!", it mean If a value is preceded by a "!", it mean	when this rule applies.	OPTIONAL
If a value is preceded by a "!", it mean		OPTIONAL
		OPTIONAL
[!]dstintf] The name of the destination interface If a value is preceded by a "!", it mean	•	OPTIONAL
[!]dstip] The name of the destination ip expre		OPTIONAL
[!]serv] The name of the service expression. If a value is preceded by a "!", it mean	ns NOT.	OPTIONAL
[!]length] The name of the length expression. If a value is preceded by a "!", it mean	NOT	OPTIONAL

FIREWALL COMMANDS

log	Disable/Enable logging when this rule applies.	OPTIONAL
state	Disable/Enable this rule.	OPTIONAL
action	The action to be taken when this rule applies ('link' when clink is used).	OPTIONAL

grp Commands

grp config	Set the grp configuration settings.	see page 460
grp flush	Flush grp interface settings and parameters.	see page 461
grp rip config	Set the RIP configuration settings.	see page 462
grp rip flush	Flush RIP interface settings and global parameters.	see page 463
grp rip ifconfig	Configure a RIP interface.	see page 464
grp rip show	Show the RIP settings and the routes in the RIP database.	see page 465

grp config

Set the grp configuration settings.

grp config	<pre>[cdistance = <number{0-255}>] [kdistance = <number{0-255}>] [rdistance = <number{0-255}>] [trace = <{disabled enabled}>]</number{0-255}></number{0-255}></number{0-255}></pre>	
where:		
cdistance	Set the distance of the connected route type. Default distance is 0.	OPTIONAL
kdistance	Set the distance of the kernel route type. Default distance is 1.	OPTIONAL
rdistance	Set the distance of the RIP route type. Default distance is 120.	OPTIONAL
trace	Enable/Disable tracing.	OPTIONAL

grp flush

Flush grp interface settings and parameters.

grp rip config

Set the RIP configuration settings.

grp rip config	<pre>state = <{disabled enabled}> [version = <{rip_unspec rip_v1 rip_v2}>] [updatetime = <number{1-3600}>]</number{1-3600}></pre>		
where:			
state	Enable/Disable the RIP daemon.	REQUIRED	
version	Set the RIP version.	OPTIONAL	
updatetime	Set the routing table update timer value. Default is 30 seconds.	OPTIONAL	

grp rip flush

Flush RIP interface settings and global parameters.

grp rip ifconfig

Configure a RIP interface.

SYNTAX:

splithorizon

grp rip ifconfig	<pre>intf = <{LocalNetwork Internet}> [rip = <{disabled enabled}>] [rxversion = <{rip_unspec rip_v1 rip_v2 rip_v1-2}>] [authmode = <{none cleartext}>] [authstr = <password>] [splithorizon = <{disabled enabled}>]</password></pre>
where:	

intf	The name of the RIP interface to configure.	REQUIRED
rip	Enable/Disable the RIP status.	OPTIONAL
rxversion	Set the RIP receive version.	OPTIONAL
authmode	Set the RIP authentication mode.	OPTIONAL
authstr	Set the RIP authentication password.	OPTIONAL

Enable/Disable the split horizon status.

OPTIONAL

grp rip show

Show the RIP settings and the routes in the RIP database.

HELP COMMAND

help Command

Delete an ATM interface.

atm ifdelete	intf = <{}>	
where:		
intf	The name of the ATM interface.	REQUIRED

HOSTMGR COMMANDS

hostmgr Commands

hostmgr add	Add host device	see page 470
hostmgr config	Configure Device Discovery deamon	see page 471
hostmgr delete	Delete host device	see page 472
hostmgr flush	Flush Device Discovery configuration (i.e. clear & to defaults)	see page 473
hostmgr list	List all host devices	see page 474
hostmgr update	Update host device parameters	see page 475

hostmgr add

Add host device

hostmgr add	<pre>mac_addr = <hardware-addres [host_name="<string" [host_type="<{Generic Desk}" gs phone gsm printer massst="">] [user_friendly_name = <quot [dns_name="<string">] [type = <{Unknown L2-FXS L2} L7-UPNP L2-PPPOERELAY L2-WI [interface = <string>] [ip_intf = <string>]</string></string></quot></hardware-addres></pre>	<pre>stop Laptop STB PDA corage None}>] ted string>] 2-USB L2-BT L3-IP </pre>
where:		
mac_addr	Host MAC address	REQUIRED
host_type	Host type	OPTIONAL
host_name	Host name	OPTIONAL
user_friendly_name	Host user friendly name	OPTIONAL
dns_name	Host DNS name	OPTIONAL
type	Host connection type	OPTIONAL
interface	Host Ethernet interface XREF	OPTIONAL
ip_intf	Host IP interface XREF	OPTIONAL

hostmgr config

Configure Device Discovery deamon

hostmgr config	<pre>[state = <{disabled enabled}>] [trace = <{disabled enabled}>]</pre>	
where:		
state	Enable/disable Device Discovery deamon	OPTIONAL
trace	Enable/disable Device Discovery traces	OPTIONAL

hostmgr delete

Delete host device

hostmgr delete	<pre>mac_addr = <hardware-address> [type = <{Unknown L2-FXS L2-USB I L7-UPNP L2-PPPOERELAY L2-WLAN}>] [index = <known l2-fxs l2-usb l2-upnp l2-pppoerelay l2-wlan}>]</known l2-fxs l2-usb l2-upnp l2-pppoerelay l2-wlan}></hardware-address></pre>	
mac_addr	Host MAC address	REQUIRED
type	Host connection type	OPTIONAL
index	>] Host index	OPTIONAL

hostmgr flush

Flush Device Discovery configuration (i.e. clear & to defaults)

hostmgr list

List all host devices

SYNTAX:

hostmgr list	<pre>[expand = <{disabled enabled}>] Display/Modify IDS configuration. <{disabled enabled}></pre>	=
where:		
expand	Expanded listing.Command: ids config	OPTIONAL
Display/Modify IDS configuration.	Syntax : config [state = <{disabled enabled}>] [trace = <{disabled enabled}>]	REQUIRED

hostmgr list	<pre>[state = <{disabled enabled [trace = <{disabled enabled}]</pre>	
where:		
state	Enable/Disable ids checks.	OPTIONAL
trace	Enable/Disable ids traces.	OPTIONAL

hostmgr update

Update host device parameters

hostmgr update	<pre>mac_addr = <hardware-addres [host_name="<string" [host_type="<{Generic Desl}" gs phone gsm printer massst="">] [user_friendly_name = <quot [dns_name="<string">] [type = <{Unknown L2-FXS L2} L7-UPNP L2-PPPOERELAY L2-WI [interface = <string>] [ip_intf = <string>]</string></string></quot></hardware-addres></pre>	<pre>ktop Laptop STB PDA torage None}>] ted string>] 2-USB L2-BT L3-IP </pre>
where:		
mac_addr	Host MAC address	REQUIRED
host_type	Host type	OPTIONAL
host_name	Host name	OPTIONAL
user_friendly_name	Host user friendly name	OPTIONAL
dns_name	Host DNS name	OPTIONAL
type	Host connection type	OPTIONAL
interface	Host Ethernet interface XREF	OPTIONAL
ip_intf	Host IP interface XREF	OPTIONAL

IDS COMMANDS

ids Commands

ids clear	Clear IDS statistics.	see page 478
ids parser list	Display ids parser configuration.	see page 479
ids parser modify	Modify ids parser configuration.	see page 480
ids pattern clear	Reset pattern tracker.	see page 481
ids pattern list	Display patterns in pattern tracker.	see page 482
ids pattern stats	Display pattern tracker statistics.	see page 483
ids signature list	Display ids signature configuration.	see page 484
ids signature modify	Modify ids signature configuration.	see page 485
ids threshold clear	Reset IDS thresholds.	see page 486
ids threshold list	Display IDS thresholds.	see page 487
ids threshold modify	Modify IDS threshold.	see page 488

ids clear

Clear IDS statistics.

ids parser list

Display ids parser configuration.

ids parser list	[parser = <parser>]</parser>	
where:		
parser	The name of the parser.	OPTIONAL

ids parser modify

Modify ids parser configuration.

ids parser modify	<pre>[parser = <parser>] state = <{disabled enabled}></parser></pre>	
where:		
parser	The name of the parser.	OPTIONAL
state	The state of the parser.	REQUIRED

ids pattern clear

Reset pattern tracker.

ids pattern list

Display patterns in pattern tracker.

ids pattern list	[size = $<$ {10 100 full} or number	er>]
where:		
size	Modify the size of pattern tracker list.	OPTIONAL

ids pattern stats

Display pattern tracker statistics.

ids signature list

Display ids signature configuration.

SYNTAX:

fraggle_storm_attack land_attack spoofed_packet tcp_null_port tcp_data_on_syn_segment tcp_invalid_urgent_offset udp_null_port icmp_type_unknown icmp_code_unknown ip_zero_payload tcp_rate_limiting udp_rate_limiting icmp_rate_limiting ip_rate_limiting >]	ler ip_ tcp ste ste ste ste fir tcp icm smu fra spo tcp tcp icm icm spo tcp tcp udg	pofed_packet tcp_null_port p_data_on_syn_segment p_invalid_urgent_offset udp_null_port mp_type_unknown icmp_code_unknown _zero_payload tcp_rate_limiting p_rate_limiting
---	---	---

where:

signature The name of the signature. OPTIONAL

ids signature modify

Modify ids signature configuration.

SYNTAX:

<pre>smurf_storm_attack fraggle_broadcast_attack fraggle_storm_attack land_attack spoofed_packet tcp_null_port tcp_data_on_syn_segment tcp_invalid_urgent_offset udp_null_port icmp_type_unknown icmp_code_unknown ip_zero_payload tcp_rate_limiting udp_rate_limiting icmp_rate_limiting ip_rate_limiting >] state = <{disabled enabled}></pre>	ids signature modify	<pre>spoofed_packet tcp_null_port tcp_data_on_syn_segment tcp_invalid_urgent_offset udp_null_port icmp_type_unknown icmp_code_unknown ip_zero_payload tcp_rate_limiting udp_rate_limiting icmp_rate_limiting ip_rate_limiting}>]</pre>
---	----------------------	---

where:

signature	The name of the signature.	OPTIONAL
state	The state of the sign.	REQUIRED

ids threshold clear

Reset IDS thresholds.

ids threshold clear	[requirera = <{disabled enabled}>]	
where:		
requirera	Enable/Disable the router alert IP option check.	OPTIONAL

ids threshold list

Display IDS thresholds.

ids threshold modify

Modify IDS threshold.

ids threshold modify where:	<pre>index = <number> [window = <number>] [limit = <number>] [scaling = <{disabled enabled}>]</number></number></number></pre>	
index	The index of the threshold.	REQUIRED
window	The time window of the threshold.	OPTIONAL
limit	The limit of the threshold.	OPTIONAL
scaling	Scaling of the threshold window.	OPTIONAL

$igmp\ Commands$

igmp host debug clear	Clear IGMP statistics.	see page 490
igmp host debug stats	Print IGMP statistics.	see page 491
igmp host flush	Flush the IGMP settings.	see page 492
igmp host ifconfig	Configure an IGMP interface.	see page 493
igmp host iflist	Show the configuration of the IGMP interfaces.	see page 494
igmp host list	Show the IGMP groups.	see page 495
igmp proxy config	Configure the IGMP proxy.	see page 496
igmp proxy debug clear	Clear IGMP proxy statistics	see page 497
igmp proxy debug stats	Print IGMP proxy statistics	see page 498
igmp proxy debug traceconfig	Modify IGMP proxy trace configuration	see page 499
igmp proxy flush	Flush all IGMP proxy settings and learned groups	see page 500
igmp proxy grouplist	Show the learned groups on an IGMP proxy interface.	see page 501
igmp proxy ifconfig	Configure an IGMP proxy interface.	see page 502
igmp proxy iflist	Show the configuration of an IGMP proxy interface.	see page 503
igmp proxy mbslist	Show the IGMP proxy membership database (merge of all learned groups).	see page 504

igmp host debug clear

Clear IGMP statistics.

igmp host debug stats

Print IGMP statistics.

igmp host flush

Flush the IGMP settings.

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igmp host ifconfig

Configure an IGMP interface.

igmp host ifconfig		<pre>intf = <{loop Internet LocalNetwork}> version = <{none IGMPv1 IGMPv2 IGMPv3}></pre>	
where:			
intf	The IP interface name.	REQUIRED	
version	The IGMP version of the IP interface.	REQUIRED	

igmp host iflist

Show the configuration of the IGMP interfaces.

igmp host iflist	st [expand = <{disabled enabled}>]	
where:		
expand	Expanded listing.	OPTIONAL

igmp host list

Show the IGMP groups.

igmp host list		<pre>[intf = <{loop Internet LocalNetwork}>] [expand = <{disabled enabled}>]</pre>	
where:			
intf	The IP interface name.	OPTIONAL	
expand	Expanded listing.	OPTIONAL	

igmp proxy config

Configure the IGMP proxy.

igmp proxy config where:	<pre>[state = <{disabled enabled}>] [qi = <number{1-31744}>] [qri = <number{1-3175}>] [lmqi = <number{1-3175}>] [rv = <number{2-7}>] [advinter = <number{4-180}>] [initadvinter = <number{1-4}>] [initadvcount = <number{1-10}>] [requirera = <{disabled enabled}>] [localgroup = <{disabled enabled}>]</number{1-10}></number{1-4}></number{4-180}></number{2-7}></number{1-3175}></number{1-3175}></number{1-31744}></pre>	
state	Enable/Disable the IGMP proxy.	OPTIONAL
qi	The interval in seconds between general queries sent by the querier.	OPTIONAL
qri	The maximum response time in seconds for an IGMP client in reply to general queries.	OPTIONAL
lmqi	The maximum response time in seconds for an IGMP client in reply to group specific queries.	OPTIONAL
rv	The robustness variable allows tuning for expected IGMP packet loss.	OPTIONAL
advinter	The interval in seconds for unsolicited MRD advertisements (see rfc4286).	OPTIONAL
initadvinter	The interval in seconds for initial unsolicited MRD advertisements (see rfc4286).	OPTIONAL
initadvcount	The maximum number of initial unsolicited MRD advertisements (see rfc4286).	OPTIONAL
requirera	Enable/Disable the router alert IP option check.	OPTIONAL
localgroup	Enable/Disable the processing of a local multicast group in an IGMP packet.	OPTIONAL

igmp proxy debug clear

Clear IGMP proxy statistics

SYNTAX:

igmp proxy debug clear	<pre>[expand = <{disabled enabled}>] [reverse = <{disabled enabled}>] Create an IP interface. = <{disabled enabled}></pre>	
where:		
expand	Expanded listing.	OPTIONAL
reverse	Reverse listing (lower layer iso. upper layer).Command: ip ifadd	OPTIONAL
Create an IP interface.	Syntax : ifadd intf = <string> dest = <{ethoa_8_35}></string>	REQUIRED

igmp proxy debug clear	<pre>intf = <string> dest = <{ethoa_8_35}></string></pre>	
where:		
intf	An IP interface name.	REQUIRED
dest	An network interface name.	REQUIRED

igmp proxy debug stats

Print IGMP proxy statistics

igmp proxy debug traceconfig

Modify IGMP proxy trace configuration

igmp	proxy debug traceconfig	[state = <{disabled enabled}>]	
where:			
state	E	nable/Disable tracing.	OPTIONAL

igmp proxy flush

Flush all IGMP proxy settings and learned groups

igmp proxy grouplist

Show the learned groups on an IGMP proxy interface.

igmp proxy grouplist	<pre>[intf = <{LocalNetwork}>] [expand = <{disabled enabled}>]</pre>	
where:		
intf	The name of the IGMP proxy interface to be listed.	OPTIONAL
expand	Expanded listing.	OPTIONAL

igmp proxy ifconfig

Configure an IGMP proxy interface.

igmp proxy ifconfig	<pre>intf = <{LocalNetwork Internet}> [state = <{inactive downstream upstream}>] [version = <{IGMPv1 IGMPv2 IGMPv3}>] [fastleave = <{disabled enabled}>] [exptrack = <{disabled enabled}>] [mrd = <{disabled enabled}>] [spoofing = <{disabled enabled}>]</pre>	
where:		
intf	The name of the IGMP proxy interface to be configured.	REQUIRED
state	The state of the IGMP proxy interface.	OPTIONAL
version	The IGMP version of the IGMP proxy interface.	OPTIONAL
fastleave	Enable/Disable the immediate deletion of a group when a leave is received.	
exptrack	Enable/Disable explicit host tracking.	OPTIONAL
mrd	Enable/Disable sending multicast router advertisements (rfc 4286).	OPTIONAL
spoofing	Enable/Disable spoofing of IGMP packets on upstream OPTIONAL interfaces.	

igmp proxy iflist

Show the configuration of an IGMP proxy interface.

igmp proxy iflist	[expand = <{disabled enab	<pre>[expand = <{disabled enabled}>]</pre>		
where:				
expand	Expanded listing.	OPTIONAL		

igmp proxy mbslist

Show the IGMP proxy membership database (merge of all learned groups).

ip Commands

ip arpadd	Add an entry to the ARP cache of a broadcast IP interface.	see page 507
ip arpdelete	Delete an ARP entry.	see page 508
ip arplist	Display the ARP cache.	see page 509
ip auto debug traceconfig	Modify autoIP trace configuration	see page 510
ip auto flush	Flushes autoIP interfaces.	see page 511
ip auto ifadd	Creates a new autoIP interface.	see page 512
ip auto ifattach	Select and assign a link-local address to an autoIP interface.	see page 513
ip auto ifconfig	Configures an autoIP interface.	see page 514
ip auto ifdelete	Deletes an existing autoIP interface.	see page 515
ip auto ifdetach	Release the link-local address for the given autoIP interface.	see page 516
ip auto iflist	Shows the autoIP interfaces.	see page 517
ip config	Display/Modify global IP stack configuration.	see page 518
ip debug httpprobe	Send HTTP probe to measure the round trip time taken to connect and access	see page 519
ip debug sendto	Send UDP packets.	see page 520
ip debug stats	Display statistics.	see page 521
ip debug traceconfig	Display/Modify IP stack trace configuration.	see page 522
ip flush	Flush all static IP parameters. Dynamic info (e.g. from PPP links) remains.	see page 523
ip ifattach	Attach an IP interface.	see page 524
ip ifconfig	Modify an IP interface configuration.	see page 525
ip ifdelete	Delete an IP interface.	see page 526
ip ifdetach	Detach an IP interface.	see page 527
ip iflist	Display all IP interfaces.	see page 528
ip ifwait	Wait for a status change of an IP interface.	see page 529
ip ipadd	Assign an IP address to an IP interface.	see page 530
ip ipconfig	Modify an IP address configuration.	see page 531

IP COMMANDS

ip ipdelete	Remove an IP address from an IP interface.	see page 532
ip iplist	Display all configured IP addresses.	see page 533
ip mcast flush	Flush the multicast routing table.	see page 534
ip mcast rtadd	Add a multicast route to the multicast routing table.	see page 536
ip mcast rtdelete	Delete a multicast route from the multicast routing table.	see page 537
ip mcast rtlist	Display the multicast routing table.	see page 538
ip rtadd	Add a route to the routing table.	see page 539
ip rtconfig	Modify a route of the routing table.	see page 540
ip rtdelete	Delete a route from the routing table.	see page 541
ip rtlist	Display the routing table.	see page 542

ip arpadd

Add an entry to the ARP cache of a broadcast IP interface.

ip arpadd	<pre>intf = <{LocalNetwork}> ip = <ip-range> [hwaddr = <hardware-address>]</hardware-address></ip-range></pre>	
where:		
intf	The IP interface name.	REQUIRED
ip	The IP address [range] of the entry to add.	REQUIRED
hwaddr	The hardware address (e.g. Ethernet MAC address) of the entry to add.	OPTIONAL

ip arpdelete

Delete an ARP entry.

ip arpdelete	<pre>intf = <{LocalNetwork}> ip = <ip-range> [hwaddr = <hardware-address>]</hardware-address></ip-range></pre>	
where:		
intf	The IP interface name.	REQUIRED
ip	The IP address [range] of the entry to delete.	REQUIRED
hwaddr	The hardware address (e.g. Ethernet MAC address) of the entry to delete.	OPTIONAL

ip arplist

Display the ARP cache.

ip auto debug traceconfig

Modify autoIP trace configuration

ip auto debug traceconfig	[state = <{disabled enabled}>]	
where:		
state	Enable/Disable verbose logging.	OPTIONAL

ip auto flush

Flushes autoIP interfaces.

ip auto ifadd

Creates a new autoIP interface.

ip auto ifadd	<pre>intf = <{LocalNetwork}> [addr = <ip-address>]</ip-address></pre>	
where:		
intf	The name of the IP interface for which a link-local address has to be allocated.	REQUIRED
addr	The preferred link-local IP address.	OPTIONAL

ip auto ifattach

Select and assign a link-local address to an autoIP interface.

ip auto ifattach	intf = <>	
where:		
intf	The name of the autoIP interface.	REQUIRED

ip auto ifconfig

Configures an autoIP interface.

SYNTAX:

interval

```
intf = <>
 ip auto ifconfig
                                            [addr = <ip-address>]
                                            [poolstart = <ip-address>]
                                            [poolend = <ip-address>]
                                            [netmask = <ip-mask(dotted or cidr)>]
                                            [claim = < number \{0-65535\} > ]
                                            [defence = <number\{0-65535\}>]
                                            [probe = <number\{0-65535\}>]
                                            [interval = < number \{1-65535\} > ]
where:
 intf
                                       The name of the autoIP interface to configure.
                                                                                             REQUIRED
 addr
                                       The preferred link-local IP address.
                                                                                             OPTIONAL
                                       The start IP address of the link-local address pool.
                                                                                             OPTIONAL
 poolstart
                                       The end IP address of the link-local address pool.
                                                                                             OPTIONAL
 poolend
                                       The netmask of the link-local IP address pool.
                                                                                             OPTIONAL
 netmask
                                       The number of link-local address selection retries before
                                                                                             OPTIONAL
 claim
                                       giving up.
 defence
                                       The number of times the link-local address is defended
                                                                                             OPTIONAL
                                       before releasing the address.
 probe
                                       The number of ARP probes to be sent before accepting a
                                                                                             OPTIONAL
                                       link-local address.
```

The time interval between two ARP probe transmissions.

OPTIONAL

ip auto ifdelete

Deletes an existing autoIP interface.

ip auto ifdelete	intf = <>	
where:		
intf	The name of the autoIP interface.	REQUIRED

ip auto ifdetach

Release the link-local address for the given autoIP interface.

ip auto ifdetach	intf = <>	
where:		
intf	The name of the autoIP interface.	REQUIRED

ip auto iflist

Shows the autoIP interfaces.

ip auto iflist	[intf = <>]	
where:		
intf	The name of a autoIP interface.	OPTIONAL

ip config

Display/Modify global IP stack configuration.

SYNTAX:

ip config	<pre>[forwarding = <{disabled enabled}>] [redirects = <{disabled enabled}>] [checkoptions = <{disabled enabled transparent}>] [netbroadcasts = <{disabled enabled}>] [randomdatagramids = <{disabled enabled}>] [ttl = <number{0-255}>] [fraglimit = <number{1-1024}>] [defragmode = <{disabled enabled}>] [addrcheck = <{off own static dynamic}>] [mssclamping = <{disabled enabled}>] [natloopback = <{disabled enabled}>] [arpcachetimeout = <number{10-7200}>] [arpclass = <{0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15}>]</number{10-7200}></number{1-1024}></number{0-255}></pre>
	[acceleration = <{disabled enabled}>]

where:

forwarding	Disable/Enable IP routing functionality.	OPTIONAL
redirects	Disable/Enable sending of ICMP redirect messages.	OPTIONAL
checkoptions	Disallow/Allow packets with IP options.	OPTIONAL
netbroadcasts	Disallow/Allow net directed broadcasts.	OPTIONAL
randomdatagramids	Disable/Enable random datagram IDs for packets generated locally.	OPTIONAL
ttl	Set the default time-to-live for locally generated IP packets.	OPTIONAL
fraglimit	Set the maximum number of IP fragments waiting for completion. (Avoids buffer depletion).	OPTIONAL
defragmode	Disallow/Allow defragmenting IP fragments.	OPTIONAL
addrcheck	Sets the level of ip address checks.	OPTIONAL
mssclamping	Disable/Enable mss clamping for low mtu interfaces.	OPTIONAL
natloopback	Disable/Enable NAT loopback.	OPTIONAL
arpcachetimeout	Set the global ARP cache timeout.	OPTIONAL
arpclass	The prio class of the ARP packets.	OPTIONAL
acceleration	Disable/Enable IP acceleration.	OPTIONAL

ip debug httpprobe

Send HTTP probe to measure the round trip time taken to connect and access

ip debug httpprobe	url = <string> [version = <{1.0 1.1}>]</string>	
where:		
url	The Uniform Resource Locator identifying the HTTP server.	REQUIRED
version	The version of the HTTP server.	OPTIONAL

ip debug sendto

Send UDP packets.

```
ip debug sendto
                                           addr = <ip-address>
                                           [count = < number \{1-1000000\} > ]
                                           [size = < number \{0-20000\} > ]
                                           [interval = < number \{1-1000000\} > ]
                                           [listen = <{disabled|enabled}>]
                                           [dffield = <{disabled|enabled}>]
                                           [srcaddr = <ip-address>]
                                           [srcport = < number \{1-65535\} > ]
                                           dstport = < number \{1-65535\} >
                                           [dstintf = <{loop|Internet|LocalNetwork}>]
where:
 addr
                                      The destination IP address.
                                                                                           REQUIRED
                                                                                           OPTIONAL
                                      The number of datagrams to send.
 count
                                                                                           OPTIONAL
                                      The size of the datagram.
 size
                                      The interval in milliseconds between datagrams.
                                                                                           OPTIONAL
 interval
                                                                                           OPTIONAL
 listen
                                      Don't send, just listen for incoming datagrams.
 dffield
                                      Enables setting of the don't fragment flag in the IP headers
                                                                                           OPTIONAL
                                      of the ping packet(s).
                                                                                           OPTIONAL
 srcaddr
                                      The IP source address to use.
                                      The UDP source port number to use.
                                                                                           OPTIONAL
 srcport
 dstport
                                      The UDP destination port number to send to.
                                                                                           REQUIRED
 dstintf
                                      The IP interface name.
                                                                                           OPTIONAL
```

ip debug stats

Display statistics.

ip debug stats	<pre>proto = <{ip udp tcp icmp}></pre>	
where:		
proto	The protocol for which to display the statistics.	REQUIRED

ip debug traceconfig

Display/Modify IP stack trace configuration.

SYNTAX:

<pre>[input = <{none label -telnet -host - broadcast all}>] [forward = <{none label -telnet -host - broadcast all}>] [output = <{none label -telnet -host - broadcast all}>] [drop = <{none label -telnet -host -broadcast all}>] [path = <{none label -telnet -host -broadcast all}>]</pre>
[mode = <{line dump}>] [arp = <{none all}>]

where:

input	Define the packets that will be traced.	OPTIONAL
forward	Define the packets that will be traced.	OPTIONAL
output	Define the packets that will be traced.	OPTIONAL
drop	Define the packet drops that will be traced.	OPTIONAL
path	Define the packet that will be path-traced.	OPTIONAL
mode	Packet dump method.	OPTIONAL
arp	Define the arp packets that will be traced.	OPTIONAL

ip flush

Flush all static IP parameters. Dynamic info (e.g. from PPP links) remains.

ip ifattach

Attach an IP interface.

ip ifattach	intf = <{}>	
where:		
intf	An IP interface name.	REQUIRED

ip ifconfig

Modify an IP interface configuration.

SYNTAX:

ip ifconfig	<pre>intf = <{loop Internet LocalNetwork}> [mtu = <number{68-65535}>] [status = <{down up}>] [hwaddr = <hardware-address>] [arpcachetimeout = <number{0-7200}>] [group = <{wan local lan tunnel dmz guest} or number>] [linksensing = <{disabled enabled}>] [primary = <{disabled enabled}>] [mcastpromisc = <{disabled enabled}>] [symmetric = <{disabled enabled}>]</number{0-7200}></hardware-address></number{68-65535}></pre>
	[arpprobe = <{unicast broadcast}>]

where:

intf	An IP interface name.	REQUIRED
mtu	The maximum packet size (including IP header) to use on this interface.	OPTIONAL
status	The administrative state of the interface.	OPTIONAL
hwaddr	The hardware address (e.g. Ethernet MAC address) of this interface.	OPTIONAL
arpcachetimeout	Set the ARP cache timeout to be used for this interface (0 = use global ARP cache timeout).	OPTIONAL
group	The group this interface belongs to. Can be used by e.g. firewalling.	OPTIONAL
linksensing	The IP interface's awareness of link state transitions.	OPTIONAL
primary	Make the IP interface the primary interface.	OPTIONAL
mcastpromisc	Make the IP interface multicast promiscuous.	OPTIONAL
symmetric	The routing mode of the IP interface.	OPTIONAL
arpprobe	The ARP mode of the interface.	OPTIONAL

ip ifdelete

Delete an IP interface.

ip ifdelete	<pre>intf = <{LocalNetwork}></pre>	
where:		
intf	An IP interface name.	REQUIRED

ip ifdetach

Detach an IP interface.

ip ifdetach	<pre>intf = <{loop LocalNetwork}></pre>	
where:		
intf	An IP interface name.	REQUIRED

ip iflist

Display all IP interfaces.

ip iflist	<pre>[expand = <{disabled enabled}> [legend = <{disabled enabled}></pre>	
where:		
expand	Expanded listing.	OPTIONAL
legend	Expanded Legend listing.	OPTIONAL

ip ifwait

Wait for a status change of an IP interface.

ip ifwait where:	<pre>intf = <{loop Internet LocalNetwor} [timeout = <number{1-600000}>] [adminstatus = <{down up}>] [operstatus = <{down up}>] [linkstatus = <{down up}>]</number{1-600000}></pre>	c}>
intf	An IP interface name.	REQUIRED
timeout	The timeout in seconds.	OPTIONAL
adminstatus	The administrative state of the interface.	OPTIONAL
operstatus	The operational state of the interface.	OPTIONAL
linkstatus	The link state of the interface.	OPTIONAL

ip ipadd

Assign an IP address to an IP interface.

ip ipadd where:	<pre>intf = <{loop Internet LocalNetwork addr = <ip-address> [netmask = <ip-mask(dotted [pointopoint="<ip-address" cidr)="" or="">] [addroute = <{disabled enabled}>]</ip-mask(dotted></ip-address></pre>	
intf	The IP interface name.	REQUIRED
addr	The new IP address to add.	REQUIRED
netmask	The subnetmask associated with this address.	OPTIONAL
pointopoint	The remote address in case of a point-to-point link.	OPTIONAL
addroute	Add typical net/subnet routes automatically.	OPTIONAL

ip ipconfig

Modify an IP address configuration.

ip ipconfig	<pre>addr = <ip-address> [preferred = <{disabled enabled}>] [primary = <{disabled enabled}>]</ip-address></pre>	
where:		
addr	The IP address to configure.	REQUIRED
preferred	Make IP address the preferred address for that subnet.	OPTIONAL
primary	Make IP address the primary address for the interface.	OPTIONAL

ip ipdelete

Remove an IP address from an IP interface.

ip ipdelete	addr = <ip-address></ip-address>	
where:		
addr	The IP address to delete.	REQUIRED

ip iplist

Display all configured IP addresses.

ip iplist	[expand = <{disabled enabled	d}>]
where:		
expand	Expanded listing.	OPTIONAL

ip mcast flush

Flush the multicast routing table.

ip mcast flush	<pre>dest = <{atm_pvc_8_35}> [state = <{disabled enabled}>] [discard = <{tail early}>] [priority = <{wfq strict wrr}>] [realtimerate = <number{1-100}>] [burstsize = <number{1-64}>] [qtyrealtimequeues = <number{1-3}>] [backgroundqueue = <{disabled enabled}>] [ecnthreshold = <number{1-99}>] [weight1 = <number{1-99}>] [weight2 = <number{1-99}>] [weight3 = <number{0-98}>] [weight4 = <number{0-97}>] [weight5 = <number{0-96}>] [maxpackets = <number{0-500}>] [maxbytes = <number{0-256}>]</number{0-256}></number{0-500}></number{0-96}></number{0-97}></number{0-98}></number{1-99}></number{1-99}></number{1-99}></number{1-3}></number{1-64}></number{1-100}></pre>	
where:		
dest	The destination of the interface. Typically, a phonebook entry.	REQUIRED
state	Enable, disable IP QoS for the interface.	OPTIONAL
discard	The packet discard strategy in case of congestion.	OPTIONAL
priority	The subqueue priority algorithm.	OPTIONAL
realtimerate	The percentage of the bandwith.	OPTIONAL
burstsize	Burstsize in kilo bytes (KB).	OPTIONAL
qtyrealtimequeues	Number of real-time priority queues.	OPTIONAL
backgroundqueue	Enable, disable the best effort background queue.	OPTIONAL
ecnthreshold	The ECN marking threshold.	OPTIONAL
weight1	The weight of queue 1 used for weighted fair queueing (WFQ) or weighted round robin (WRR).	OPTIONAL
weight2	The weight of queue 2 used for weighted fair queueing (WFQ) or weighted round robin (WRR).	OPTIONAL
weight3	The weight of queue 3 used for weighted fair queueing (WFQ) or weighted round robin (WRR).	OPTIONAL
weight4	The weight of queue 4 used for weighted fair queueing (WFQ) or weigthed round robin (WRR).	OPTIONAL

weight5	The weight of queue 5 used for weighted fair queueing (WFQ) or weigthed round robin (WRR).	OPTIONAL
maxpackets	The maximum number of packets in all queues.	OPTIONAL
maxbytes	The maximum size in kilo bytes (KB) in all queues.	OPTIONAL

ip mcast rtadd

Add a multicast route to the multicast routing table.

ip mcast rtadd	<pre>[src = <ip-address>] grp = <ip-address></ip-address></ip-address></pre>	<pre>grp = <ip-address> dstintf = <{loop Internet LocalNetwork}> [ttl = <number{1-255}>]</number{1-255}></ip-address></pre>	
where:			
srcintf	The source IP interface.	REQUIRED	
src	The source IP address.	OPTIONAL	
grp	The multicast group IP address.	REQUIRED	
dstintf	The destination IP interface.	REQUIRED	
ttl	The time-to-live for that destination IP interface.	OPTIONAL	
ttlincr	Increment TTL before packet is send.	OPTIONAL	

ip mcast rtdelete

Delete a multicast route from the multicast routing table.

ip mcast rtdelete	<pre>srcintf = <{loop Internet LocalNetwork}> [src = <ip-address>] grp = <ip-address> dstintf = <{loop Internet LocalNetwork}></ip-address></ip-address></pre>	
where:		
srcintf	The source IP interface.	REQUIRED
src	The source IP address.	OPTIONAL
grp	The multicast group IP address.	REQUIRED
dstintf	The destination IP interface.	REQUIRED

ip mcast rtlist

Display the multicast routing table.

ip mcast rtlist	[expand = <{disabled enabl	[expand = <{disabled enabled}>]	
where:			
expand	Expanded listing.	OPTIONAL	

ip rtadd

Add a route to the routing table.

ip rtadd	<pre>dst = <ip-address> [dstmsk = <ip-mask(dotted cidr)="" or="">] [label = <{None DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>] [gateway = <ip-address>] [intf = <{loop Internet LocalNetwork}>] [srcintf = <{loop Internet LocalNetwork}>] [static = <{enabled disabled}>] [status = <{up down}>] [metric = <number{0-255}>]</number{0-255}></ip-address></ip-mask(dotted></ip-address></pre>	
where:		
dst	The destination IP address(es) using this route. Supports ip/mask notation.	REQUIRED
dstmsk	The destination IP address mask.	OPTIONAL
label	The name of a label.	OPTIONAL
gateway	The IP address of the next hop (direct connected gateway or extended route)	OPTIONAL
intf	Only for special interface routes : the outgoing IP interface name.	OPTIONAL
srcintf	Use this interface for source address selection.	OPTIONAL
static	Route persistency: static or dynamic (note that not all routes can be changed).	OPTIONAL
status	The administrative state of the route.	OPTIONAL
metric	The metric for this route (weight factor).	OPTIONAL

ip rtconfig

Modify a route of the routing table.

ip rtconfig	<pre>dst = <ip-address> [dstmsk = <ip-mask(dotted cidr)="" or="">; [label = <{None DSCP Interactive Marvideo VoIP-RTP VoIP-Signal default}>; [gateway = <ip-address>] [intf = <{loop Internet LocalNetworf[srcintf = <{loop Internet LocalNetworf[srcintf = <{dosp Internet LocalNetworf[static = <{disabled enabled}>] [static = <{down up}>] [status = <{down up}>] [metric = <number{0-255}>]</number{0-255}></ip-address></ip-mask(dotted></ip-address></pre>	nagement >] <}>]
where:		
dst	The destination IP address(es) using this route. Supports ip/mask notation.	REQUIRED
dstmsk	The destination IP address mask.	OPTIONAL
label	The name of a label.	OPTIONAL
gateway	The IP address of the next hop (direct connected gateway or extended route)	OPTIONAL
intf	Only for special interface routes : the outgoing IP interface name.	OPTIONAL
srcintf	Use this interface for source address selection.	OPTIONAL
static	Route persistency: static or dynamic (note that not all routes can be changed).	OPTIONAL
status	The administrative state of the route.	OPTIONAL
metric	The metric for this route (weight factor).	OPTIONAL

ip rtdelete

Delete a route from the routing table.

ip rtdelete	<pre>dst = <ip-address> [dstmsk = <ip-mask(dotted [gateway="<ip-address" [label="<{None DSCP Interactive M" cidr)="" or="" video voip-rtp voip-signal default="">] [intf = <{loop Internet LocalNetwoneyarthereactive M</ip-mask(dotted></ip-address></pre>	anagement }>]
where:		
dst	The destination IP address specification of the route to delete. Supports ip/mask notation.	REQUIRED
dstmsk	The destination IP address mask.	OPTIONAL
label	The name of a label.	OPTIONAL
gateway	The IP address of the next hop.	OPTIONAL
intf	The outgoing IP interface name. (For special interface routes only).	OPTIONAL

ip rtlist

Display the routing table.

ip rtlist	[expand = <{disabled enable	ed}>]
where:		
expand	Expanded listing.	OPTIONAL

ipqos Commands

ipqos ef config	Modify an IP QoS EF timer configuration for an interface.	see page 544
ipqos ef list	Display the IP QoS EF timers.	see page 545
ipqos ef stats	Display the IP QoS EF timer statistics.	see page 546
ipqos list	Display the IP QoS configuration.	see page 547
ipqos meter add	Add an IP QoS meter.	see page 548
ipqos meter clear	Clear the IP QoS meter statistics.	see page 549
ipqos meter config	Modify an IP QoS meter configuration.	see page 550
ipqos meter delete	Delete an IP QoS meter.	see page 551
ipqos meter flush	Flush all IP QoS meters.	see page 552
ipqos meter list	Display the IP QoS meters.	see page 553
ipqos meter start	Start an IP QoS meter.	see page 554
ipqos meter stats	Display the IP QoS meter statistics.	see page 555
ipqos meter stop	Stop an IP QoS meter.	see page 556
ipqos queue clear	Clear the IP QoS statistics.	see page 557
ipqos queue config	Modify the IP QoS subqueue configuration.	see page 558
ipqos queue list	Display the IP QoS subqueue configuration.	see page 560
ipqos queue stats	Display the IP QoS subqueue statistics.	see page 561

ipqos ef config

Modify an IP QoS EF timer configuration for an interface.

ipqos ef config	<pre>intf = <{loop Internet LocalNetwor} [state = <{disabled enabled}>] [timeout = <number{100-10000}>] [mtu = <number{68-65535}>]</number{68-65535}></number{100-10000}></pre>	c}>
where: intf	The IP interface name.	REQUIRED
state	Enable, disable IP QoS EF timer for the interface.	OPTIONAL
timeout	The timeout in mili seconds.	OPTIONAL
mtu	The MTU of the IP interface in case of EF data.	OPTIONAL

ipqos ef list

Display the IP QoS EF timers.

ipqos ef stats

Display the IP QoS EF timer statistics.

ipqos list

Display the IP QoS configuration.

ipqos meter add

Add an IP QoS meter.

ipqos meter add	name = <string></string>	
where:		
name	The name of the IP QoS meter.	REQUIRED

ipqos meter clear

Clear the IP QoS meter statistics.

ipqos meter config

Modify an IP QoS meter configuration.

SYNTAX:

ipqos meter config	<pre>name = <{}> [label = <{DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>] [intf = <{loop Internet LocalNetwork}>] [droprate = <number{0-102400}>] [markrate = <number{0-102400}>] [burst = <number{0-64}>] [dropaction = <{count drop}>] [markaction = <{count mark}>] [tosmarking = <{disabled enabled}>] [tos = <number{0-255}>] [dscp = <{ef af11 af12 af13 af21 af22 af23 af31 af32 af33 af41 af42 af43 cs0 cs1 cs2 cs3 cs4 cs5 cs6 cs7} or number>] [precedence = <{routine priority immediate flash flash-override CRITIC-ECP internetwork-control network-control} or number>] [classification = <{decrease overwrite ignore </number{0-255}></number{0-64}></number{0-102400}></number{0-102400}></pre>
	offset}>] [class = <number{0-15}>]</number{0-15}>

where:

name	The name of the IP QoS meter.	REQUIRED
label	The name of the label.	OPTIONAL
intf	The name of the interface.	OPTIONAL
droprate	The drop rate in kilo bits per second (Kbps).	OPTIONAL
markrate	The mark rate in kilo bits per second (Kbps).	OPTIONAL
burst	The burst size in kilo bytes (KB).	OPTIONAL
dropaction	The drop action.	OPTIONAL
markaction	The mark action.	OPTIONAL
tosmarking	Enable tos marking for marked packets.	OPTIONAL
tos	The type of service used for tos marking.	OPTIONAL
dscp	The diffserv code point (part of tos, used for tos-marking).	OPTIONAL
precedence	The precedence (part of tos, used for tos-marking).	OPTIONAL
classification	The type of classification for marked packets.	OPTIONAL
class	The class or offset used for classification.	OPTIONAL

ipqos meter delete

Delete an IP QoS meter.

ipqos meter delete	$name = <{}\}>$	
where:		
name	The name of the IP QoS meter.	REQUIRED

ipqos meter flush

Flush all IP QoS meters.

ipqos meter list

Display the IP QoS meters.

ipqos meter start

Start an IP QoS meter.

ipqos meter start	name = $<{}$ }>	
where:		
name	The name of the stopped IP QoS meter.	REQUIRED

ipqos meter stats

Display the IP QoS meter statistics.

ipqos meter stop

Stop an IP QoS meter.

ipqos meter stop	name = $<\{\}>$	
where:		
name	The name of the started IP QoS meter.	REQUIRED

ipqos queue clear

Clear the IP QoS statistics.

ipqos queue clear	name = <string></string>	
where:		
name	The name of a label to add.	REQUIRED

ipqos queue config

Modify the IP QoS subqueue configuration.

|--|

dest	The destination of the interface. Typically, a phonebook entry.	REQUIRED
queue	The number of the subqueue.	REQUIRED
discard	The packet discard strategy in case of congestion.	OPTIONAL
propagate	Propagate the packets in lower priority queue iso. dropping.	OPTIONAL
ecnmarking	Enable Explicit Congestion Notification for IP packets in this subqueue.	OPTIONAL
maxrate	The percentage of the bandwith.	OPTIONAL
maxburst	Burstsize in kilo bytes (KB).	OPTIONAL
ackfiltering	Enable filtering of TCP ACK packets.	OPTIONAL
maxpackets	The maximum number of packets in the subqueue.	OPTIONAL
maxbytes	The maximum subqueue size in kilo bytes (KB).	OPTIONAL
respackets	The reserved number of packets in the subqueue.	OPTIONAL
resbytes	The reserved subqueue size in kilo bytes (KB).	OPTIONAL
hold	The hold time in microseconds for early discard strategy.	OPTIONAL
markprob	The maximum packet marking probability in parts per mille for early discard strategy.	OPTIONAL

loprio	The lowest internal priority boundary for entering this queue.	OPTIONAL
hiprio	The highest internal priority boundary for entering this queue.	OPTIONAL

ipqos queue list

Display the IP QoS subqueue configuration.

ipqos queue list	[dest = <{atm_pvc_8_35}>]	
where:		
dest	The destination of the interface. Typically, a phonebook entry.	OPTIONAL

ipqos queue stats

Display the IP QoS subqueue statistics.

ipqos queue stats	[dest = <{atm_pvc_8_35}>]	
where:		
dest	The destination of the interface. Typically, a phonebook entry.	OPTIONAL

LABEL COMMANDS

label Commands

label chain add	Add a chain.	see page 564
label chain delete	Delete a chain.	see page 565
label chain flush	Flush all chains.	see page 566
label chain list	Display a list of chains.	see page 567
label delete	Delete a label.	see page 568
label flush	Flush all label.	see page 569
label list	Display the labels.	see page 570
label modify	Modify a label configuration.	see page 571
label rule add	Add a rule.	see page 572
label rule debug clear	Clear rule statistics.	see page 574
label rule debug stats	Display rule statistics.	see page 575
label rule debug traceconfig	Display/Modify rule trace configuration.	see page 576
label rule delete	Delete a rule.	see page 577
label rule flush	Flush all rules.	see page 578
label rule list	Display a list of rules.	see page 579
label rule modify	Modify a rule.	see page 580

label chain add

Add a chain.

label	chain add	chain = <string></string>	
where:			
chain	Tł	ne name of the chain to add.	REQUIRED

label chain delete

Delete a chain.

label chain delete	chain = <chain name=""></chain>	
where:		
chain	The name of the chain to delete.	REQUIRED

label chain flush

Flush all chains.

label chain list

Display a list of chains.

label chain list	[format = <{pretty cli}>]	
where:		
format	The format of the chain list.	OPTIONAL

label delete

Delete a label.

label delete	name = <{DSCP Interactive	
where:		
name	The name of a label.	REQUIRED

label flush

Flush all label.

label list

Display the labels.

label list	<pre>[name = <{DSCP Interactive VoIP-RTP VoIP-Signal defar</pre>	
where:		
name	The name of a label.	OPTIONAL

label modify

Modify a label configuration.

SYNTAX:

label modify	<pre>name = <{DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}> [classification = <{ignore overwrite increase}>] [defclass = <{0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 dscp default}>] [ackclass = <{0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 prioritize defclass}>] [bidirectional = <{disabled enabled}>] [inheritance = <{disabled enabled}>] [tosmarking = <{disabled enabled}>] [tos = <number{0-255}>] [dscp = <{ef af11 af12 af13 af21 af22 af23 af31 af32 af33 af41 af42 af43 cs0 cs1 cs2 cs3 cs4 cs5 cs6 cs7} or number>] [precedence = <{routine priority immediate flash flash-override CRITIC-ECP internetwork- control network-control} or number>]</number{0-255}></pre>
	[trace = <{disabled enabled}>]

where:

name	The name of a label to modify.	REQUIRED
classification	The Method of classification.	OPTIONAL
defclass	The default class of assigned connection.	OPTIONAL
ackclass	The class of ACK segments of TCP connection.	OPTIONAL
bidirectional	The label is also valid for returning stream.	OPTIONAL
inheritance	The label is also valid for corresponding stream of child connection.	OPTIONAL
tosmarking	Enable/disable TOS marking.	OPTIONAL
tos	The Type Of Service specification in the IP packet (used for tos-marking).	OPTIONAL
dscp	The diffserv code point (part of tos, used for tos-marking).	OPTIONAL
precedence	The precedence (part of tos, used for tos-marking).	OPTIONAL
trace	Enable/disable IP tracing for this label.	OPTIONAL

label rule add

Add a rule.

SYNTAX:

chain = <chain name=""> [index = <number>] [name = <string>] [clink = <chain name="">] [srcintf [!] = <{wan local lan tunnel dmz guest}>] [srcip [!] = <{private ssdp_ip mdap_ip 192.168.1.253}>] [dstip [!] = <{private ssdp_ip mdap_ip 192.168.1.253}>] [serv [!] = <{icmp igmp ftp telnet http httpproxy https RPC NBT SMB imap esp ah ike DiffServ sip n323 dhcp rtsp ssdp_serv mdap_serv syslog}>] [length [!] = <{}> [log = <{disabled enabled}>] [state = <{disabled enabled}>] label = <{None link DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}></chain></string></number></chain>

where:

chain	The name of the chain which contains the rule.	REQUIRED
index	The index of the rule in the chain.	OPTIONAL
name	The name of the new rule.	OPTIONAL
clink	The name of the chain to be parsed when this rule applies.	OPTIONAL
srcintf [!]	The name of the source interface expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
srcip [!]	The name of the source ip expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
dstip [!]	The name of the destination ip expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
serv [!]	The name of the service expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
length [!]	The name of the length expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
log	Disable/Enable logging when this rule applies.	OPTIONAL

state	Disable/Enable this rule.	OPTIONAL
label	None, link (when clink is used) or label name.	REQUIRED

label rule debug clear

Clear rule statistics.

SYNTAX:

label rule debug clear	<pre>[chain = <chain name="">] [index = <number>] Select a language. = <number></number></number></chain></pre>	
where:		
chain	The name of the chain.	OPTIONAL
index	The index of the rule in the chain.Command: language config	
Select a language.	Syntax : config [language = <string>] [complete = <{yes no}>]</string>	REQUIRED

label rule debug clear	<pre>[language = <string>] [complete = <{yes no}>]</string></pre>	
where:		
language	Language code : OSI language code (2 chars) for language (en=English)	OPTIONAL
complete	Enable translation for expert pages.	OPTIONAL

label rule debug stats

Display rule statistics.

label rule debug stats	<pre>[chain = <chain name="">] [index = <number>]</number></chain></pre>	
where:		
chain	The name of the chain.	OPTIONAL
index	The index of the rule in the chain.	OPTIONAL

label rule debug traceconfig

Display/Modify rule trace configuration.

label	rule debug	traceconfig	[state = <{disabled enabled}>]	
where:				
state		[Disable/Enable rule traces.	OPTIONAL

label rule delete

Delete a rule.

label rule delete	<pre>chain = <chain name=""> index = <number></number></chain></pre>	
where:		
chain	The name of the chain in which to delete the rule.	REQUIRED
index	The number of the rule in the chain.	REQUIRED

label rule flush

Flush all rules.

label	rule flush	[chain = <chain name="">]</chain>	
where:			
chain	Th	e name of the chain to flush.	OPTIONAL

label rule list

Display a list of rules.

label rule list	<pre>[chain = <chain name="">] [format = <{pretty cli}>]</chain></pre>	
where:		
chain	The name of the chain to list the rules of.	OPTIONAL
format	The format of the rule list.	OPTIONAL

label rule modify

Modify a rule.

<pre>label rule modify</pre>		
<pre>[newindex = <number>] [name = <string>] [clink = <chain name="">] [[!]srcintf] = <chain name="">] [[!]srcip] = <chain name="">] [[!]dstip] = <chain name="">] [[!]serv] = <chain name="">] [[!]length] = <chain name="">] [[length] = <chain name="">] [log = <{disabled enabled}>] [state = <{disabled enabled}>]</chain></chain></chain></chain></chain></chain></chain></string></number></pre>	label rule modify	
<pre>[name = <string>] [clink = <chain name="">] [[!]srcintf] = <chain name="">] [[!]srcip] = <chain name="">] [[!]dstip] = <chain name="">] [[!]serv] = <chain name="">] [[!]length] = <chain name="">] [[!]length] = <chain name="">] [log = <{disabled enabled}>] [state = <{disabled enabled}>]</chain></chain></chain></chain></chain></chain></chain></string></pre>		[index = <number>]</number>
<pre>[clink = <chain name="">] [[!]srcintf] = <chain name="">] [[!]srcip] = <chain name="">] [[!]dstip] = <chain name="">] [[!]serv] = <chain name="">] [[!]length] = <chain name="">] [[og = <{disabled enabled}>] [state = <{disabled enabled}>]</chain></chain></chain></chain></chain></chain></pre>		[newindex = <number>]</number>
<pre>[[!]srcintf] = <chain name="">] [[!]srcip] = <chain name="">] [[!]dstip] = <chain name="">] [[!]serv] = <chain name="">] [[!]length] = <chain name="">] [log = <{disabled enabled}>] [state = <{disabled enabled}>]</chain></chain></chain></chain></chain></pre>		[name = <string>]</string>
<pre>[[!]srcip] = <chain name="">] [[!]dstip] = <chain name="">] [[!]serv] = <chain name="">] [[!]length] = <chain name="">] [log = <{disabled enabled}>] [state = <{disabled enabled}>]</chain></chain></chain></chain></pre>		[clink = <chain name="">]</chain>
<pre>[[!]dstip] = <chain name="">] [[!]serv] = <chain name="">] [[!]length] = <chain name="">] [log = <{disabled enabled}>] [state = <{disabled enabled}>]</chain></chain></chain></pre>		[[!]srcintf] = <chain name="">]</chain>
[[!]serv] = <chain name="">] [[!]length] = <chain name="">] [log = <{disabled enabled}>] [state = <{disabled enabled}>]</chain></chain>		[[!]srcip] = <chain name="">]</chain>
[[!]length] = <chain name="">] [log = <{disabled enabled}>] [state = <{disabled enabled}>]</chain>		[[!]dstip] = <chain name="">]</chain>
<pre>[log = <{disabled enabled}>] [state = <{disabled enabled}>]</pre>		[[!]serv] = <chain name="">]</chain>
[state = <{disabled enabled}>]		[[!]length] = <chain name="">]</chain>
		<pre>[log = <{disabled enabled}>]</pre>
<pre>[label = <{None link DSCP Interactive </pre>		[state = <{disabled enabled}>]
(8.61.5 2.6		<pre>[label = <{None link DSCP Interactive </pre>
Management Video VoIP-RTP VoIP-Signal		Management Video VoIP-RTP VoIP-Signal
<pre>default}>]</pre>		<pre>default}>]</pre>

w	n	Δ	r	Δ	•

chain	The name of the chain which contains the rule.	REQUIRED
index	The index of the rule in the chain.	OPTIONAL
newindex	The new index of the rule in the chain.	OPTIONAL
name	The name of the new rule.	OPTIONAL
clink	The name of the chain to be parsed when this rule applies.	OPTIONAL
[!]srcintf]	The name of the source interface expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
[!]srcip]	The name of the source ip expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
[!]dstip]	The name of the destination ip expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
[!]serv]	The name of the service expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
[!]length]	The name of the length expression.	OPTIONAL
	If a value is preceded by a "!", it means NOT.	
log	Disable/Enable logging when this rule applies.	OPTIONAL
state	Disable/Enable this rule.	OPTIONAL

label	None, link (when clink is used) or label name.	OPTIONAL
	•	

LANGUAGE COMMANDS

language Commands

language delete Delete one or all language archives. see page 584

language list List available languages archives. see page 585

language delete

Delete one or all language archives.

SYNTAX:

language delete	<pre>[file = <string>] [all = <{yes no}>] Display the registered enumtypes = </string></pre>	:{yes no}>
where:		
file	Filename : name of language archive to delete	OPTIONAL
all	Deletes all languages archives.Command: mbus listenums	OPTIONAL
Display the registered enumtypes	Syntax : listenums [dmtree = <{igd atomic system}>] [name = <quoted string="">] [expand = <{disabled enabled}>]</quoted>	REQUIRED

language delete	<pre>[dmtree = <{igd atomic system}>] [name = <quoted string="">] [expand = <{disabled enabled}>]</quoted></pre>	
where:		
dmtree	Select mbusd datamodel tree.	OPTIONAL
name	Filter enumtypes by (part of) the name	OPTIONAL
expand	Details enabled/disabled	OPTIONAL

language list

List available languages archives.

MBUS COMMANDS

mbus Commands

mbus client authenticate	Authenticate a session	see page 588
mbus client config	Modify client parameters	see page 589
mbus client exec	Execute mbus command	see page 590
mbus client register	Register cli client to mbus	see page 592
mbus client termsession	Terminate a session	see page 593
mbus client unregister	Unregister cli client from mbus	see page 594
mbus debug clearstats	Reset mbus statistics.	see page 595
mbus debug commconfig	Modify communication settings.	see page 596
mbus debug loadobjects	Load/sync object instances from plugins	see page 597
mbus debug stats	Display mbus statistics.	see page 598
mbus debug traceconfig	Modify mbus trace settings.	see page 599
mbus debug unloadobjects	Unload object instances	see page 600
mbus listcontexts	Display the context instances	see page 601
mbus listobjects	Display the object instances	see page 602
mbus listsubscriptions	Display the subscription instances	see page 603
mbus listtypes	Display the registered objecttypes	see page 604
mbus pluginevent	Simulate event from plugin	see page 605
mbus unregister	Unregister a client/plugin context	see page 606
mbus xmldump	Dump the registered datamodel to an XML file	see page 607

mbus client authenticate

Authenticate a session

mbus client authenticate	<pre>type = <{cleartext crypt digest defa [username = <quoted string="">] [password = <password>] [addr = <ip-address>]</ip-address></password></quoted></pre>	aultuser}>
type	Authentication type	REQUIRED
username	User name	OPTIONAL
password	password	OPTIONAL
addr	IP address of peer who inititated the authentication request.	OPTIONAL

mbus client config

Modify client parameters

SYNTAX:

mbus client config	[writelock = <{enabled disabled}>]
	[wlgetimeout = <number>]</number>
	<pre>[wlidletimeout = <number>]</number></pre>
	<pre>[path = <quoted string="">]</quoted></pre>
	<pre>[type = <{indexpath keystrpath}>]</pre>
	<pre>[id = <{indexpath keystrpath}>]</pre>

where:

writelock	Get/release mbus writelock	OPTIONAL
wlgetimeout	Writelock get timeout in seconds (forever=-1, *default=nowait=0)	OPTIONAL
wlidletimeout	Writelock idle timeout in seconds (forever=-1, *default=30)	OPTIONAL
path	Fully qualified mbus path	OPTIONAL
type	Path type (default = indexpath)	OPTIONAL
id	sessionid to use	OPTIONAL

mbus client exec

Execute mbus command

SYNTAX:

object_clean object_dynamic type}>] [timing = <{disabled enabled}>]
--

where:

cmd	Mbus command name	REQUIRED
param	Parameter name	OPTIONAL
value	Parameter value to set	OPTIONAL
gettype	Get type elements (default=param)	OPTIONAL
depth	Number of levels to recurse, default=-1 (all)	OPTIONAL
processcmd	Process SET_VALUE command flag (default=enabled)	OPTIONAL
onerrorrollback	on error rollback flag (default=enabled)	OPTIONAL
usecallback	Use result callback function (default=enabled)	OPTIONAL

filter	The filter should be formatted as '(operator operand operand)'. Possible operators are ==, !=, <, <=, >, >=, and, or, not. The left operand is a parameter name. The right operand is a parameter value. For boolean operators the operands are filters. Example: '(== Name eth0)'.	OPTIONAL
path	Fully qualified mbus path	OPTIONAL
flags	Client command data flags	OPTIONAL
accesslist	Comma separated names of accessrights groups	OPTIONAL
action	Type of accessright action	OPTIONAL
modifier	Accessrights modifier	OPTIONAL
replytype	Type of accessrights reply	OPTIONAL
attribute	Requested attribute-type	OPTIONAL
timing	Print duration of command invocation (default=disabled)	OPTIONAL
no_output	Discard the output of the command (default=disabled)	OPTIONAL

mbus client register

Register cli client to mbus

SYNTAX:

mbus client register	<pre>[dmtree = <{igd atomic system}>] [type = <{indexpath keystrpath}>] [dlink = <{local_ipc remote_inet}>] [mbusd_addr = <quoted string="">] [refresolv = <{disabled enabled}>] [state_events = <{disabled enabled}>]</quoted></pre>	
dmtree	Select mbusd datamodel tree.	OPTIONAL
type	Path type (default = indexpath)	OPTIONAL
dlink	Daemon link (default = local_ipc)	OPTIONAL
mbusd_addr	Daemon address (ip addr for inet)	OPTIONAL
refresolv	Use reference resolving (default=disabled)	OPTIONAL
state_events	Context should be notified when the MBus state changes	OPTIONAL

(default=disabled)

mbus client termsession

Terminate a session

mbus client termsession	id = <{None link DSCP Intera Video VoIP-RTP VoIP-Signal o	
where:		
id	id of session to terminate	REQUIRED

mbus client unregister

Unregister cli client from mbus

mbus debug clearstats

Reset mbus statistics.

mbus debug commconfig

Modify communication settings.

SYNTAX:

mbus debug commconfig	<pre>[pong-to = <number>] Display memm statistics. = <number></number></number></pre>	
where:		
pong-to	MBus message communication pong time-out.Command: memm stats	OPTIONAL
Display memm statistics.	Syntax : stats [name = <quoted string="">]</quoted>	REQUIRED

mbus debug commconfig	[name = <quoted string="">]</quoted>	
where:		
name	Select typename(s) to list (supports partial typename)	OPTIONAL

mbus debug loadobjects

Load/sync object instances from plugins

mbus debug loadobjects	<pre>[dmtree = <{igd atomic system}>] [path = <quoted string="">] [type = <{indexpath keystrpath}>] [flush = <{disabled enabled}>]</quoted></pre>	
where:		
dmtree	Select mbusd datamodel tree.	OPTIONAL
path	Fully qualified mbus path	OPTIONAL
type	Path type (default = indexpath	OPTIONAL
flush	Flush objects before load (default=disabled)	OPTIONAL

mbus debug stats

Display mbus statistics.

mbus debug traceconfig

Modify mbus trace settings.

mbus debug traceconfig	[level = $<$ number $\{0-4\}>$]	
where:		
level	Select mbus trace level (0-4).	OPTIONAL

mbus debug unloadobjects

Unload object instances

mbus debug unloadobjects	<pre>[dmtree = <{igd atomic system}>] [path = <quoted string="">] [type = <{indexpath keystrpath}>] [flush = <{disabled enabled}>]</quoted></pre>	
where:		
dmtree	Select mbusd datamodel tree.	OPTIONAL
path	Fully qualified mbus path	OPTIONAL
type	Path type	OPTIONAL
flush	Flush objects before load (default-disabled)	OPTIONAL
	·	

mbus listcontexts

Display the context instances

mbus listcontexts	<pre>[dmtree = <{igd atomic system}>] [expand = <{disabled enabled}>]</pre>	
where:		
dmtree	Select mbusd datamodel tree.	OPTIONAL
expand	Details enabled/disabled	OPTIONAL

mbus listobjects

Display the object instances

mbus listobjects where:	<pre>[dmtree = <{igd atomic system}>] [path = <quoted string="">] [type = <{indexpath keystrpath}>] [output = <{tree list}>] [showflags = <{disabled enabled}>]</quoted></pre>	
dmtree	Select mbusd datamodel tree.	OPTIONAL
path	Fully qualified mbus path to list.	OPTIONAL
type	Path type (default = indexpath)	OPTIONAL
output	List output type	OPTIONAL
showflags	Display object flags (Clean or Dirty / Persistent or Volatile)	OPTIONAL

mbus listsubscriptions

Display the subscription instances

mbus listsubscriptions	[dmtree = <{igd atomic system}>]	
where:		
dmtree	Select mbusd datamodel tree.	OPTIONAL

mbus listtypes

Display the registered objecttypes

mbus listtypes	<pre>[dmtree = <{igd atomic system}>] [path = <quoted string="">] [expand = <{disabled enabled}>]</quoted></pre>	
where:		
dmtree	Select mbusd datamodel tree.	OPTIONAL
path	Fully qualified mbus path to list.	OPTIONAL
expand	Details enabled/disabled	OPTIONAL

mbus pluginevent

Simulate event from plugin

mbus pluginevent	<pre>ctxid = <number> type = <{addobj delobj updobj}> path = <quoted string=""> [name = <quoted string="">] [value = <quoted string="">] [orivalue = <quoted string="">] [flags = <[+/-]flag[+/-flag]{dynamic save}>]</quoted></quoted></quoted></quoted></number></pre>
	save}>]

w	h	Δ	r	Δ	

ctxid	Plugin context id	REQUIRED
type	Event type	REQUIRED
path	Plugin event subpath	REQUIRED
name	Plugin event name	OPTIONAL
value	Plugin event value	OPTIONAL
orivalue	Plugin event orivalue	OPTIONAL
flags	Plug-in event flags	OPTIONAL

mbus unregister

Unregister a client/plugin context

mbus unregister	id = <number></number>	
where:		
id	Select message-based client/plugin context id.	REQUIRED

mbus xmldump

Dump the registered datamodel to an XML file

mbus xmldump	filename = <string> [format = <{unix mac windown}</string>	ws}>]
where:		
filename	Filename.	REQUIRED
format	Select output file format.	OPTIONAL

MEMM COMMANDS

memm Commands

memm debug clearstats	Clear time statistics.	see page 610
memm debug lock stats	Display lock statistics.	see page 611
memm debug lock traceconfig	Modify lock trace settings.	see page 612
memm debug stats	Display memm time statistics.	see page 613
memm debug tag	(Un)tag memory manager objects.	see page 614
memm debug traceconfig	Modify memm trace settings.	see page 615
memm listobjects	Display objects.	see page 616

memm debug clearstats

Clear time statistics.

memm debug lock stats

Display lock statistics.

memm debug lock traceconfig

Modify lock trace settings.

SYNTAX:

memm debug lock traceconfig	<pre>[level = <number{0-4}>] [name = <quoted string="">] [showtid = <{no yes}>] Import all scores. = <{no yes}></quoted></number{0-4}></pre>	
where:		
level	Select memm trace level (0-4).	OPTIONAL
name	application name filter for lock traces (empty displays all lock traces)	OPTIONAL
showtid	Display task IDs when hitting lock time-outs (disabled by default)Command: mlp import	OPTIONAL
Import all scores.	Syntax : import [allow_dl = <{no yes}>] [trace = <{disabled enabled full}>]	REQUIRED

SYNTAX:

memm debug lock traceconfig	[allow_dl = <{no yes}>] [trace = <{disabled enabled full}	>]
where:		
allow_dl	Enable/disable support for /dl/ folder	OPTIONAL
trace	Select import trace level.	OPTIONAL

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memm debug stats

Display memm time statistics.

memm debug stats	<pre>[name = <quoted string="">]</quoted></pre>	
where:		
name	Select typename(s) to list (supports partial typename)	OPTIONAL

memm debug tag

(Un)tag memory manager objects.

memm debug tag	<pre>[name = <quoted string="">] [tag = <{enabled disabled}>]</quoted></pre>	
where:		
name	Select typename(s) to list (supports partial typename)	OPTIONAL
tag	Set (or unset) the tag	OPTIONAL

memm debug traceconfig

Modify memm trace settings.

memm debug traceconfig	[level = $<$ number $\{0-4\}>$]	
where:		
level	Select memm trace level (0-4).	OPTIONAL

memm listobjects

Display objects.

memm listobjects	<pre>[name = <quoted string="">] [tagged = <{no yes}>] [hidedeldynstr = <{no yes}>]</quoted></pre>	
where:		
name	Select typename(s) to list (supports partial typename)	OPTIONAL
tagged	Show only tagged (yes) or untagged (no) objects	OPTIONAL
hidedeldynstr	Hide (yes) / show (no) deleted dynstrings (default = show)	OPTIONAL

mlp Commands

mlp debug export	Export all scores.	see page 618
mlp debug stats	Display mlp statistics.	see page 619
mlp debug traceconfig	Modify mlp trace settings.	see page 620
mlp flush	Flush all mlp structures.	see page 621
mlp privilege add	Add a privilege.	see page 622
mlp privilege addzone	Add a zone to a privilege.	see page 623
mlp privilege config	Modify the privilege.	see page 624
mlp privilege delete	Delete a privilege.	see page 625
mlp privilege list	Display the privileges.	see page 626
mlp privilege removezone	Remove a zone from a privilege.	see page 627
mlp role add	Add a role.	see page 628
mlp role addpriv	Add a privilege.	see page 629
mlp role config	Modify the role.	see page 630
mlp role delete	Delete a role.	see page 631
mlp role list	Display the roles.	see page 632
mlp role removepriv	Remove a privilege.	see page 633

mlp debug export

Export all scores.

mlp debug stats

Display mlp statistics.

mlp debug traceconfig

Modify mlp trace settings.

mlp debug trace	econfig [trace = <{disable	<pre>[trace = <{disabled enabled full}>]</pre>	
where:			
trace	Select mlp trace level.	OPTIONAL	

mlp flush

Flush all mlp structures.

mlp privilege add

Add a privilege.

mlp privilege add	<pre>name = <string> type = <{access service}> [descr = <quoted string="">]</quoted></string></pre>	
where:		
name	Privilege name.	REQUIRED
type	Privilege type.	REQUIRED
descr	Privilege description.	OPTIONAL

mlp privilege addzone

Add a zone to a privilege.

mlp privilege addzone	<pre>name = <{anyaccess anyservice AP1 AP2 AP3 AP4 AP5 AP6 AP7 AP8 AP9 SP1 SP10 SP25 SP3 SP4 SP5 SP6 SP7 SP8 SP9}> zone = <{Read/LAN/WAN/Local Write/LAN/WAN/ Local r_lan r_wan r_fs_view r_certificates r_remote_mgnt r_local r_qos w_lan w_wan w_fs_passive w_rtg w_fwdg w_nat w_frwl_norm w_frwl_adv w_frwl_ss w_ipsec w_certificates w_remote_mgnt w_local w_qos SND_lan SND_wan SND_local AND_lan AND_wan AND_frwl AND_local User_Admin MLP_Admin secure_ipsec_term secure_BR CLI CGI FTP MDAP secure_reset GUI_advanced mbus Websev unsecure_connection Sensitve_file channel_ftp channel_telnet channel_http channel_mdap channel_serial origin_lan origin_wan origin_local trace}></pre>
where:	

name	Privilege name.	REQUIRED
zone	Zone name.	REQUIRED

mlp privilege config

Modify the privilege.

mlp privilege config where:	<pre>name = <> [descr = <quoted string="">] [score = <{hex-word}[:{hex-word}] 'al2:c30f'>]</quoted></pre>	ex:
name	Select the privilege by name.	REQUIRED
descr	Set the description.	OPTIONAL
score	Set the score.	OPTIONAL

mlp privilege delete

Delete a privilege.

mlp privilege delete	name = <>	
where:		
name	Privilege name.	REQUIRED

mlp privilege list

Display the privileges.

mlp privilege list	<pre>[name = <>] [type = <{access service}>] [verbose = <{minimal medium all}>]</pre>	
where:		
name	Privilege name.	OPTIONAL
type	Privilege type.	OPTIONAL
verbose	Limit the output list.	OPTIONAL

mlp privilege removezone

Remove a zone from a privilege.

SYNTAX:

ZO LO LO Y_ W_ SI US SE GU SE Ch	ame = <> one = <{Read/LAN/WAN/Local Write/LAN/WAN/ ocal r_lan r_wan r_fs_view r_certificates _remote_mgnt r_local r_qos w_lan w_wan _fs_passive w_rtg w_fwdg w_nat w_frwl_norm _frwl_adv w_frwl_ss w_ipsec w_certificates _remote_mgnt w_local w_qos SND_lan SND_wan ND_local AND_lan AND_wan AND_frwl AND_local ser_Admin MLP_Admin secure_ipsec_term ecure_BR CLI CGI FTP MDAP secure_reset UI_advanced mbus Websev unsecure_connection ensitve_file channel_ftp channel_telnet nannel_http channel_mdap channel_serial rigin_lan origin_wan origin_local trace}>
----------------------------------	--

where:

name	Privilege name.	REQUIRED
zone	Zone name.	REQUIRED

mlp role add

Add a role.

mlp role add	<pre>name = <string> parent = <> [descr = <quoted string="">]</quoted></string></pre>	
where:		
name	Role name.	REQUIRED
parent	Parent role name.	REQUIRED
descr	Role description.	OPTIONAL

mlp role addpriv

Add a privilege.

SYNTAX:

service = <{anyservice SP1 SP10 SP11 SP12 SP13 SP14 SP15 SP16 SP17 SP18 SP19 SP2 SP21 SP22 SP23 SP24 SP25 SP3 SP4 SP5 SP6 SP7 SP8 SP9}>

where:

name	Role name.	REQUIRED
access	Access privilege to add.	REQUIRED
service	Privilege name to add.	REQUIRED

mlp role config

Modify the role.

SYNTAX:

mlp role config where:	<pre>name = <> [parent = <>] [descr = <quoted string="">] Create a new Mobile interface. = < string></quoted></pre>	quoted
name	Role name.	REQUIRED
parent	Parent role name.	OPTIONAL
descr	Role description.Command: mobile ifadd	OPTIONAL
Create a new Mobile interface.	Syntax : ifadd intf = <string></string>	REQUIRED

mlp role config	intf = <string></string>	
where:		
intf	The name of the new mobile interface	REQUIRED

mlp role delete

Delete a role.

mlp role delete	name = <>	
where:		
name	Role name.	REQUIRED

mlp role list

Display the roles.

mlp role list	<pre>[name = <>] [verbose = <{minimal med</pre>	dium all}>]
where:		
name	Role name.	OPTIONAL
verbose	Limit the output list.	OPTIONAL

mlp role removepriv

Remove a privilege.

mlp role removepriv	<pre>name = <> access = <> [service = <>]</pre>	
where:		
name	Role name.	REQUIRED
access	Access privilege to delete.	REQUIRED
service	Privilege name to delete.	OPTIONAL

MOBILE COMMANDS

mobile Commands

mobile debug operator	Shows the currently selected operator.	see page 636
mobile debug sendat	Send AT command to the modem card.	see page 637
mobile debug showsq	Shows signal quality (RSSI & BER).	see page 638
mobile debug traceconfig	Modify trace configuration	see page 639
mobile device list	List mobile devices	see page 640
mobile ifattach	Attach an Mobile interface.	see page 641
mobile ifconfig	Configure an Mobile interface.	see page 642
mobile ifdelete	Delete an Mobile interface.	see page 643
mobile ifdetach	Detach an Mobile interface.	see page 644
mobile iflist	Display the Mobile interfaces.	see page 645
mobile simcard	Get a state of the SIM card.	see page 646

mobile debug operator

Shows the currently selected operator.

mobile debug operator	<pre>[list = <{current all}>]</pre>	
where:		
list	List only the current or all	OPTIONAL

mobile debug sendat

Send AT command to the modem card.

mobile debug sendat	command = <quoted string=""></quoted>	
where:		
command	AT command	REQUIRED

mobile debug showsq

Shows signal quality (RSSI & BER).

mobile debug traceconfig

Modify trace configuration

mobile debug traceconfig	[state = <{disabled enabled}>]	
where:		
state	Enable/disable tracing.	OPTIONAL

mobile device list

List mobile devices

mobile device list	<pre>intf = <{loop Internet LocalNetwork}> translation = <{disabled enabled transparent}></pre>		
where:			
intf	The IP interface name.	REQUIRED	
translation	Disabled, enabled or tranparent address translation.	REQUIRED	

mobile ifattach

Attach an Mobile interface.

mobile ifattach	intf = <>	
where:		
intf	The name of the Mobile interface.	REQUIRED

mobile ifconfig

Configure an Mobile interface.

mobile ifconfig	<pre>intf = <> [pin = <password>] [puk = <string>] [apn = <string>]</string></string></password></pre>
	[mode = <{automatic manual}>]
	[operator = <number{0-99999}>]</number{0-99999}>
	$[technology = <{2G 3G}>]$
	[initcommand = <string>]</string>
1	

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intf	The name of the Mobile interface to configure.	REQUIRED
pin	PIN code.	OPTIONAL
puk	PUK code.	OPTIONAL
apn	Access Point Name.	OPTIONAL
mode	Operator selection (automatic, manual).	OPTIONAL
operator	Location area indentifier + network code.	OPTIONAL
technology	Radio access technology (2G, 3G).	OPTIONAL
initcommand	AT command executed after SIM verification.	OPTIONAL

mobile ifdelete

Delete an Mobile interface.

mobile ifdelete	intf = <>	
where:		
intf	The name of the Mobile interface.	REQUIRED

mobile ifdetach

Detach an Mobile interface.

mobile ifdetach	intf = <>	
where:		
intf	The name of the Mobile interface.	REQUIRED

mobile iflist

Display the Mobile interfaces.

mobile iflist	[intf = <>]	
where:		
intf	The name of the Mobile interface.	OPTIONAL

mobile simcard

Get a state of the SIM card.

nat Commands

nat config	Modify global NAT configuration.	see page 648
nat flush	Flush current NAT configuration.	see page 649
nat iflist	Display all interfaces.	see page 650
nat mapadd	Add an address mapping to a nat enabled interface.	see page 651
nat mapdelete	Delete an address mapping from a nat enabled interface.	see page 652
nat maplist	Display address mappings.	see page 653
nat tmpladd	Add an address mapping template.	see page 654
nat tmpldelete	Delete an address mapping template.	see page 655
nat tmplinst	Instantiate address mapping templates for a given dynamic address.	see page 656
nat tmpllist	Display address mapping templates.	see page 657

nat config

Modify global NAT configuration.

nat config	<pre>[trace = <{disabled enabled}>] [randomports = <{disabled enabled}>]</pre>		
where:			
trace	Enable/disable traces.	OPTIONAL	
randomports	Enable/disable randomization of port translations.	OPTIONAL	

nat flush

Flush current NAT configuration.

nat flush	intf = <string></string>
where:	
intf	The name for the new PPP interface. If not specified, the destination will double as interface name.

nat iflist

Display all interfaces.

nat mapadd

Add an address mapping to a nat enabled interface.

SYNTAX:

where:

intf	The IP interface name.	REQUIRED
type	The type of mapping.	OPTIONAL
outside_addr	The outside (typically public) IP address (range for NAT).	OPTIONAL
inside_addr	The inside (typically private) IP address (range for NAT).	OPTIONAL
access_list	The range of inside addresses the mapping is restricted to.	OPTIONAL
foreign_addr	The range of destination addresses the mapping is restricted to.	OPTIONAL
protocol	The IP protocol.	OPTIONAL
outside_port	The outside port number or range (only for NAPT).	OPTIONAL
inside_port	The inside port number or range (only for NAPT).	OPTIONAL
mode	The mode to create the portmap.	OPTIONAL
weight	The weight for the portmap.	OPTIONAL
status	The administrative state of mapping.	OPTIONAL

nat mapdelete

Delete an address mapping from a nat enabled interface.

nat mapdelete	<pre>intf = <{loop Internet LocalNe index = <number></number></pre>	<pre>intf = <{loop Internet LocalNetwork}> index = <number></number></pre>	
where:			
intf	The IP interface name.	REQUIRED	
index	The map index as listed by ':nat maplist'.	REQUIRED	

nat maplist

Display address mappings.

nat maplist		<pre>[intf = <{loop Internet LocalNetwork}>] [expand = <{disabled enabled}>]</pre>	
where:			
intf	The IP interface name.	OPTIONAL	
expand	Expanded listing.	OPTIONAL	

nat tmpladd

Add an address mapping template.

at tmpladd	<pre>[intf = <{loop Internet LocalNetwork}>]</pre>
	[group = <{wan local lan tunnel dmz guest} or
	number>]
	$[timeout = < number{0-65535}>]$
	[type = <{napt nat}>]
	outside_addr = <ip-range></ip-range>
	[inside_addr = <ip-range>]</ip-range>
	[access_list = <ip-range>]</ip-range>
	[foreign_addr = <ip-range>]</ip-range>
	[protocol = <{ah egp esp ggp gre hmp icmp
	igmp pup rdp rsvp tcp udp vines xns-idp 6to4
	ipip} or number>]
	[outside_port = <port-range>]</port-range>
	[inside_port = <port-range>]</port-range>
	<pre>[mode = <{auto inbound outbound}>]</pre>
	[weight = $<$ number $\{0-255\}>$]
	$[status = \langle \{up down \} \rangle]$
ere:	

intf	The IP interface name scope for this template.	OPTIONAL
group	The IP interface group scope for this template.	OPTIONAL
timeout	Lifetime (seconds) for this template.	OPTIONAL
type	The type of template.	OPTIONAL
outside_addr	The outside (typically public) IP address or index (range for NAT).	REQUIRED
inside_addr	The inside (typically private) IP address or index (range for NAT).	OPTIONAL
access_list	The range of inside addresses the template is restricted to.	OPTIONAL
foreign_addr	The range of destination addresses the template is restricted to.	OPTIONAL
protocol	The IP protocol.	OPTIONAL
outside_port	The outside port number or range (only for NAPT).	OPTIONAL
inside_port	The inside port number or range (only for NAPT).	OPTIONAL
mode	The mode to create the portmap.	OPTIONAL
weight	The weight to be used for the template instance(s).	OPTIONAL
status	The administrative state of template.	OPTIONAL

nat tmpldelete

Delete an address mapping template.

nat tmpldelete	index = <number></number>	
where:		
index	The template index as listed by ':nat tmpllist'.	REQUIRED

nat tmplinst

Instantiate address mapping templates for a given dynamic address.

nat tmplinst	<pre>intf = <{loop Internet LocalNetwork addr_index = <ip-address> dynamic_addr = <ip-address></ip-address></ip-address></pre>	}>
where:		
intf	The IP interface name.	REQUIRED
addr_index	The outside IP address index/key to instantiate for.	REQUIRED
dynamic_addr	The dynamic address to substitute the index/key with.	REQUIRED

nat tmpllist

Display address mapping templates.

nat tmpllist	<pre>[expand = <{disabled enabled}>]</pre>	
where:		
expand	Expanded listing.	OPTIONAL

PPP COMMANDS

ppp Commands

ppp flush	Flush all PPP interfaces.	see page 660
ppp ifattach	Attach a PPP interface.	see page 661
ppp ifconfig	Modify a PPP interface.	see page 662
ppp ifdelete	Delete a PPP interface.	see page 665
ppp ifdetach	Detach a PPP interface.	see page 666
ppp iflist	Display the PPP interfaces.	see page 667
ppp ifscan	Scan a PPP interface for available interfaces.	see page 668
ppp relay flush	Remove all ethernet interfaces from the PPP relay agent list and terminate all	see page 669
ppp relay ifadd	Add an ethernet interface to the PPP relay list.	see page 670
ppp relay ifconfig	Modify an ethernet interface from the PPP relay agent list.	see page 671
ppp relay ifdelete	Delete an ethernet interface from the PPP relay agent list.	see page 672
ppp relay iflist	Display all ethernet interfaces added to the PPP relay agent list.	see page 673
ppp relay sesslist	Display all active PPP relay sessions.	see page 674
ppp rtadd	Add a route to the routing table when PPP link comes up.	see page 675
ppp rtdelete	Delete the route for a PPP link.	see page 676

ppp flush

Flush all PPP interfaces.

ppp ifattach

Attach a PPP interface.

ppp ifattach	<pre>intf = <{Internet}></pre>	
where:		
intf	The name of the PPP interface.	REQUIRED

ppp ifconfig

Modify a PPP interface.

SYNTAX:

```
ppp ifconfig
                                  intf = <{Internet}>
                                  [dest = \langle \{RELAY\} \rangle]
                                  [user = <string>]
                                  [password = <password>]
                                  [acname = <quoted string>]
                                  [servicename = <quoted string>]
                                  [class = <{0|1|2|3|4|5|6|7|8|9|10|11|12|13|14|}
                                  [pool = < \{none\}>]
                                  [accomp = <{enabled|disabled|negotiate}>]
                                  [trace = <{disabled|enabled}>]
                                  [concentrator = <{disabled|enabled}>]
                                  [auth = <{pap|chap|auto}>]
                                  [restart = <{disabled|enabled}>]
                                  [retryinterval = <number{0-65535}>]
                                  [passive = <{disabled|enabled}>]
                                  [silent = <{disabled|enabled}>]
                                  [echotolerance = <number{1-100}>]
                                  [echo = <number\{1-100\}>]
                                  [mru = < number \{256-1500\} > ]
                                  [laddr = <ip-address>]
                                  [raddr = <ip-address>]
                                  [netmask = <ip-mask(dotted or cidr)>]
                                  [format = <{cidr|dotted|none}>]
                                  [subnetfirstip = <{disabled|enabled}>]
                                  [savepwd = <{disabled|enabled}>]
                                  [demanddial = <{disabled|enabled}>]
                                  [doddelay = <number\{0-3600\}>]
                                  [primdns = <ip-address>]
                                  [secdns = <ip-address>]
                                  [dnsmetric = <number\{0-100\}>]
                                  [idletime = < number {0-1000000} > ]
                                  [idletrigger = <{RxTx|Rx|Tx}>]
                                  [unnumbered = <{disabled enabled}>]
```

where:

intf	The name of the PPP interface to configure.	REQUIRED
dest	The destination interface for this PPP interface.	OPTIONAL
user	The username for remote PAP/CHAP authentication.	OPTIONAL
password	The password for remote PAP/CHAP authentication.	OPTIONAL
acname	The access concentrator name for a PPP session.	OPTIONAL
servicename	The service name for a PPP session.	OPTIONAL

class	The prio class of the PPP packets.	OPTIONAL
pool	Acquire IP subnet and assign it to a free DHCP pool.	OPTIONAL
accomp	Try to negotiate PPP address & control field compression (LCP ACCOMP).	OPTIONAL
trace	Enable verbose console logging.	OPTIONAL
concentrator	The access concentrator is on this side of the PPP connection.	OPTIONAL
auth	Authentication protocol to be used.	OPTIONAL
restart	Automatically restart when LCP link goes down.	OPTIONAL
retryinterval	The number of seconds between retries.	OPTIONAL
passive	When LCP times out, put link in a listening state.	OPTIONAL
silent	Do not send anything at startup, just listen for incoming LCP messages.	OPTIONAL
echotolerance	Number of failed LCP echo requests needed to trigger a link failure.	OPTIONAL
echo	LCP echo request interval.	OPTIONAL
mru	Negotiate maximum packet size we can handle.	OPTIONAL
laddr	Negotiate this IP address at our side of the link.	OPTIONAL
raddr	Negotiate this IP address at remote side of the link.	OPTIONAL
netmask	Negotiate IP subnet mask at remote side of the link.	OPTIONAL
format	The format used to represent the IP subnet.	OPTIONAL
subnetfirstip	Take the first ip address out of the received IP as local address.	OPTIONAL
savepwd	Select whether or not password is saved.	OPTIONAL
demanddial	Enable dial-on-demand feature. Nothing happens until packets are sent to this PPP interface.	OPTIONAL
doddelay	During this initial interval (seconds) packets do not trigger PPP interface.	OPTIONAL
primdns	Negotiate this IP address as primary DNS server.	OPTIONAL
secdns	Negotiate this IP address as secondary DNS server.	OPTIONAL
dnsmetric	DNS route metric to be used for the negotiated DNS servers.	OPTIONAL
idletime	Maximum time the link may be idle (seconds).	OPTIONAL

PPP COMMANDS

idletrigger	Consider the link being idle if no traffic is sent and/or received during the idle time.	OPTIONAL
unnumbered	Take local IP address from 'laddr' field and remote IP address from the pool. SVC only.	OPTIONAL

ppp ifdelete

Delete a PPP interface.

ppp ifdelete	<pre>intf = <{Internet}></pre>	
where:		
intf	The name of the PPP interface.	REQUIRED

ppp ifdetach

Detach a PPP interface.

ppp ifdetach	intf = <{}>	
where:		
intf	The name of the PPP interface.	REQUIRED

ppp iflist

Display the PPP interfaces.

ppp iflist	<pre>[intf = <{Internet}>]</pre>	
where:		
intf	The name of a PPP interface.	OPTIONAL

ppp ifscan

Scan a PPP interface for available interfaces.

ppp ifscan	<pre>intf = <{Internet}> [time = <number{0-36000}>]</number{0-36000}></pre>	
where:		
intf	The name of the PPP interface to scan.	REQUIRED
time	The time to scan for services (in seconds).	OPTIONAL

ppp relay flush

Remove all ethernet interfaces from the PPP relay agent list and terminate all

ppp relay ifadd

Add an ethernet interface to the PPP relay list.

ppp relay ifadd	intf = <{}>	
where:		
intf	The ethernet intf to be added to the PPP relay agent list.	REQUIRED

ppp relay ifconfig

Modify an ethernet interface from the PPP relay agent list.

ppp relay ifconfig	<pre>intf = <{bridge ethoa_8_35}> hwaddr = <hardware-address></hardware-address></pre>	
where:		
intf	The ethernet intf to be added to the PPP relay agent list.	REQUIRED
hwaddr	The hardware address (e.g. Ethernet MAC address) of this interface.	REQUIRED

ppp relay ifdelete

Delete an ethernet interface from the PPP relay agent list.

ppp relay ifdelete	<pre>intf = <{bridge ethoa_8_35}></pre>	
where:		
intf	The ethernet intf to be added to the PPP relay agent list.	REQUIRED

ppp relay iflist

Display all ethernet interfaces added to the PPP relay agent list.

ppp relay sesslist

Display all active PPP relay sessions.

OPTIONAL

ppp rtadd

Add a route to the routing table when PPP link comes up.

SYNTAX:

metric

ppp rtadd	<pre>intf = <{Internet}> dst = <ip-address> [dstmsk = <ip-mask(dotted cidr)="" or="">] [label = <{None DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>] [src = <ip-address>] [srcmsk = <ip-mask(dotted cidr)="" or="">] [metric = <number{0-100}>]</number{0-100}></ip-mask(dotted></ip-address></ip-mask(dotted></ip-address></pre>	
where:		
intf	The name of a PPP interface.	REQUIRED
dst	The IP destination address specification for the route to be added when the link comes up.	REQUIRED
dstmsk	The IP destination mask. Special values : 1 = remote net; 32 = remote host;	OPTIONAL
label	The name of the label.	OPTIONAL
src	The IP source address specification. i.e. who can use this link.	OPTIONAL
srcmsk	The IP source mask.	OPTIONAL

The route metric.

ppp rtdelete

Delete the route for a PPP link.

ppp rtdelete	<pre>intf = <{Internet}></pre>	
where:		
intf	The PPP interface name for which to delete the route settings.	REQUIRED

pptp Commands

pptp flush	Flushes the PPTP configuration.	see page 678
pptp ifadd	Adds a PPTP profile (backwards compatible with previous release, use profiles	see page 679
pptp profadd	Defines a new PPTP profile.	see page 680
pptp profdelete	Deletes a PPTP profile.	see page 681
pptp proflist	Lists PPTP profiles.	see page 682

pptp flush

Flushes the PPTP configuration.

pptp ifadd

 $\label{eq:Adds} Adds \ a \ \mathsf{PPTP} \ \mathsf{profile} \ (\mathsf{backwards} \ \mathsf{compatible} \ \mathsf{with} \ \mathsf{previous} \ \mathsf{release}, \ \mathsf{use} \ \mathsf{profiles}$

SYNTAX:

pptp ifadd	<pre>dest = <string> [rate = <number{10-10000}>] [encaps = <{vcmux nlpid}>] [ac = <{never always keep}>] To enable/disable LPD service. = <{:always keep}></number{10-10000}></string></pre>	id}>] keep}>]	
where: dest	The WAN destination for this PPTP tunnel. Typically a	REQUIRED	
	phonebook name.		
rate	Transmit speed in kbits/s for the WAN link.	OPTIONAL	
encaps	The WAN protocol encapsulation.	OPTIONAL	
ac	Enable/disable sending address and control field (0xFF03) on the WAN link.Command: printersharing LPD config	OPTIONAL	
To enable/disable LPD service.	Syntax : config [state = <{disabled enabled}>]	REQUIRED	

pptp ifadd	[state = <{disabled enabled}>]	[state = <{disabled enabled}>]		
where:				
state	Enabled/disabled LPD printer service.	OPTIONAL		

pptp profadd

Defines a new PPTP profile.

pptp profadd	<pre>name = <string> [qos = <{default}>] [encaps = <{vcmux nlpid}>] [ac = <{never always keep}>]</string></pre>	
where:	The name for the new PPTP profile.	REQUIRED
name	The name for the new FFTF profile.	REGUIRED
qos	The name of the qosbook entry, containing the settings for this profile.	OPTIONAL
encaps	The WAN protocol encapsulation to be used with this profile.	OPTIONAL
ac	Enable/disable sending address and control field (0xFF03) on the WAN link.	OPTIONAL

pptp profdelete

Deletes a PPTP profile.

pptp profdelete	name = <>	
where:		
name	The name of the profile to delete.	REQUIRED

pptp proflist

Lists PPTP profiles.

printersharing Commands

printersharing LPD list	To display LPD service context.	see page 684
printersharing LPD queue add	Add an option.	see page 685
printersharing LPD queue delete	Delete an option.	see page 686
printersharing LPD queue list	List all options.	see page 687

printersharing LPD list

To display LPD service context.

printersharing LPD queue add

Add an option.

printersharing LPD queue add	name = <string> [type = <{Feed Raw}>]</string>	
	[default = <{no yes}>]	
where:		
name l	LPD queue name.	REQUIRED
type	Queue Type	OPTIONAL
default	Set default queue	OPTIONAL

printersharing LPD queue delete

Delete an option.

printersharing LPD queue delete	name = <string></string>	
where:		
name	LPD queue name.	REQUIRED

printersharing LPD queue list

List all options.

printersharing LPD queue lis	st name = <string> filter = <> action = <></string>	
where:		
name	Rule name	REQUIRED
filter	Filter	REQUIRED
action	Action	REQUIRED

PTRACE COMMANDS

ptrace Commands

ptrace action add	Add an action	see page 690
ptrace action delete	Delete an action	see page 691
ptrace action list	List all actions	see page 692
ptrace action modify	Modify an action	see page 693
ptrace debug traceconfig	Modify trace configuration	see page 694
ptrace delete	Delete a rule	see page 695
ptrace filter add	Add a filter	see page 696
ptrace filter delete	Delete a filter	see page 697
ptrace filter list	List all filters	see page 698
ptrace filter modify	Modify a filter	see page 699
ptrace flush	Flush all settings	see page 700
ptrace list	List all rules	see page 701
ptrace modify	Modify a rule	see page 702

ptrace action add

Add an action

ptrace action add	name = <string></string>	
where:		
name	Action name	REQUIRED

ptrace action delete

Delete an action

ptrace action delete	name = <>	
where:		
name	Action name	REQUIRED

ptrace action list

List all actions

ptrace action modify

Modify an action

ptrace action modify where:	<pre>name = <> type = <{dump mirror }> intf = <{}> len = <number></number></pre>	
name	Action name	REQUIRED
type	Action type	REQUIRED
intf	Device on which to mirror frames	REQUIRED
len	Nbr of bytes to dump	REQUIRED

ptrace debug traceconfig

Modify trace configuration

ptrace debug traceconfig	[state = <{disabled enabled}>]	
where:		
state	Enable/Disable tracing.	OPTIONAL

ptrace delete

Delete a rule

ptrace delete	name = <>	
where:		
name	Rule name	REQUIRED

ptrace filter add

Add a filter

ptrace filter add	name = <string></string>	
where:		
name	Filter name	REQUIRED

ptrace filter delete

Delete a filter

ptrace filter delete	name = <>	
where:		
name	Filter name	REQUIRED

ptrace filter list

List all filters

ptrace filter modify

Modify a filter

SYNTAX:

ethport3 ethport4 WI Modify/Display ECO-m	ethport1 RELAY ethport2 LAN virt ethoa_8_35}> manager configuration = c1 RELAY ethport2 ethport3 ethoa_8_35}>
--	---

where:

name	Filter name	REQUIRED
intf	Interface on which to trace framesCommand: pwr config	REQUIRED
Modify/Display ECO-manager configuration	Syntax : config [eco-manager = <{disabled enabled}>] [cpu-microsleep = <{disabled enabled}>] [cpu-lowspeed = <{disabled enabled}>] [usb-controller = <{disabled enabled}>] [wlan-pwrcontrol = <{disabled enabled}>]	REQUIRED

SYNTAX:

usb-controller

wlan-pwrcontrol

ptrace filter modify	<pre>[eco-manager = <{disabled enable [cpu-microsleep = <{disabled enable [cpu-lowspeed = <{disabled enable [usb-controller = <{disabled enable [wlan-pwrcontrol = <{disabled enable]</pre>	abled}>] led}>] abled}>]
where:		
eco-manager	(Enables / Disables the ECO-manager).	OPTIONAL
cpu-microsleep	(Allows the CPU to use low power instructions).	OPTIONAL
cpu-lowspeed	(Allows the CPU to adjust its internal clock).	OPTIONAL

(Enables / Disables the USB-Controller)

(Enables / Disables Wireless LAN (WLAN) power control).

OPTIONAL

OPTIONAL

ptrace flush

Flush all settings

ptrace list

List all rules

ptrace modify

Modify a rule

ptrace modify	name = <> [state = <{disabled enabl	.ed}>]
where:		
name	Rule name	REQUIRED
state	Rule enable/disable	OPTIONAL

pwr Commands

pwr debug traceconfig Enable/disable the ECO manager traces see page 704

pwr wlan-pwr-options Modify/Display the WLAN power control see page 705

options

pwr debug traceconfig

Enable/disable the ECO manager traces

SYNTAX:

pwr debug traceconfig	<pre>[state = <{disabled enabled}>] Add line to script. = <{disabled enabled </pre>	abled}>
where:		
state	enable/disable the ECO manager tracesCommand: script add	OPTIONAL
Add line to script.	Syntax : add name = <string> [index = <number>] command = <quoted string=""></quoted></number></string>	REQUIRED

pwr debug traceconfig	<pre>name = <string> [index = <number>] command = <quoted string=""></quoted></number></string></pre>	
where:		
name	Name of script.	REQUIRED
index	Line number (0 = add).	OPTIONAL
command	Command.	REQUIRED

pwr wlan-pwr-options

Modify/Display the WLAN power control options

pwr wlan-pwr-options	<pre>[t-on = <number{4-600}>] [t-off = <number{4-600}>] [t-ext = <number{2-600}>]</number{2-600}></number{4-600}></number{4-600}></pre>	
where:		
t-on	Wireless subsystem On-time (s)	OPTIONAL
t-off	Wireless subsystem Off-time(s)	OPTIONAL
t-ext	Wireless subsystem On-time Extension (s)	OPTIONAL

SCRIPT COMMANDS

script Commands

script delete	Delete complete script or line from script.	see page 708
script flush	Flush scripts.	see page 709
script list	List script.	see page 710
script run	Run script.	see page 711

script delete

Delete complete script or line from script.

SYNTAX:

script delete name = <{autopvc_add_qos autopvc_delete_qos autopvc_add_bridge autopvc_delete_pppoerelay autopvc_add_ipoa autopvc_delete_ipoa autopvc_add_ethoa autopvc_delete_ethoa autopvc_add_pppoa autopvc_delete_pppoa autopvc_add_pppoe autopvc_delete_pppoe autopvc_change_qos wlbrintfadd wlbrintfdel}> [index = <number>]</number>

where:

name	Name of script.	REQUIRED
index	Line number.	OPTIONAL

script flush

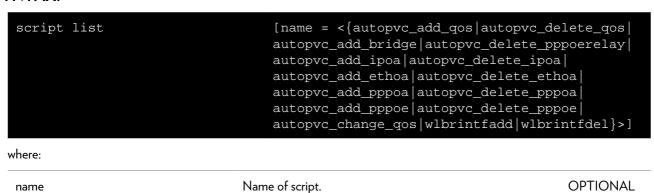
Flush scripts.

script list

List script.

SYNTAX:

name



710

script run

Run script.

SYNTAX:

script run	<pre>name = <{autopvc_add_qos autopvc_delete_qos autopvc_add_bridge autopvc_delete_pppoerelay autopvc_add_ipoa autopvc_delete_ipoa autopvc_add_ethoa autopvc_delete_ethoa autopvc_add_pppoa autopvc_delete_pppoa autopvc_add_pppoe autopvc_delete_pppoe autopvc_change_qos wlbrintfadd wlbrintfdel}> pars = <quoted string=""> Display list of services. = <quoted string=""></quoted></quoted></pre>
	1

where:

name	Name of script.	REQUIRED
pars	Parameters separated with comma e.q. a,b,c .Command: service host list	REQUIRED
Display list of services.	Syntax: list [name = <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike DirectX 7 DirectX 8 DirectX 9 eMule FTP Server Gamespy Arcade HTTP Server (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTP Server PPTP Server Secure Shell Server (SSH) Steam Games Telnet Server VNC Xbox Live}>]	REQUIRED

SYNTAX:

Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}>]

where:

name	The name of the service.	OPTIONAL

SERVICE COMMANDS

service Commands

service host add	Add a service.	see page 714
service host assign	Assign a service to a host.	see page 715
service host category add	Create/define service category.	see page 716
service host category delete	Delete a service category.	see page 717
service host category list	List the available service categories.	see page 718
service host category rename	Rename a service category.	see page 719
service host delete	Delete a service.	see page 720
service host disable	Disable a service.	see page 721
service host flush	Flush all services.	see page 722
service host rule add	Create/define service portmap.	see page 723
service host rule delete	Delete a service portmap.	see page 725
service host stats	Service statistics.	see page 727
service host triggerlist	List all triggers.	see page 728
service system ifadd	Add an interface to the access list.	see page 729
service system ifdelete	Delete an interface from the access list.	see page 730
service system ipadd	Add an IP address (range) to the access list.	see page 731
service system ipdelete	Delete an IP address (range) from the access list.	see page 732
service system list	Display services.	see page 733
service system mapadd	Add a port map for a service.	see page 734
service system mapdelete	Delete a port map for a service.	see page 735
service system modify	Modify a service.	see page 736

service host add

Add a service.

service host add	<pre>name = <quoted string=""> [mode = <{server client custom}>] [category = <>]</quoted></pre>	
where:		
name	The name of the service.	REQUIRED
mode	server, client or custom service ?	OPTIONAL
category	The category to which the service belongs.	OPTIONAL

service host assign

Assign a service to a host.

service host assign	<pre>name = <{AIM Talk BearShare E Checkpoint FW1 VPN Counter St (World Wide Web) HTTPS Server Server (SMTP) Microsoft Remot Game Zone MSN Game Zone (DX) Server Secure Shell Server (S TelnetServer VNC Xbox Live}> [host = <ip-address>] [log = <{disabled enabled}>]</ip-address></pre>	rike Server iMesh KaZaA Mail e Desktop MSN NNTPServer PPTP
name	The name of the service.	REQUIRED
host	The IP address of the host.	OPTIONAL
log	Enable/disable logging.	OPTIONAL

service host category add

Create/define service category.

service host o	category add	name = <string></string>	
where:			
name	The	name of the category.	REQUIRED

service host category delete

Delete a service category.

service hos	t category delete	
where:		
name	The name of the category.	REQUIRED

service host category list

List the available service categories.

service host category rename

Rename a service category.

service host category rename	<pre>name = <> new_name = <string></string></pre>	
where:		
name T	he name of the existing category.	REQUIRED
new_name T	he new name of the category.	REQUIRED

service host delete

Delete a service.

SYNTAX:

service host delete	<pre>name = <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike Server (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}></pre>
where:	

The name of the service. **REQUIRED** name

OPTIONAL

service host disable

Disable a service.

SYNTAX:

name

service host disable	<pre>[name = <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike Server (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}>]</pre>
where:	

The name of the service.

service host flush

Flush all services.

service host rule add

Create/define service portmap.

SYNTAX:

service host rule add	<pre>name = <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike Server (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}> [protocol = <{any tcp udp}>] [baseport = <{undefined at-echo at-nbp at- rtmp at-zis auth bgp biff bootpc exec finger ftp ftp-data gopher h323 httpproxy ike ils imap2 imap3 ingres-net ipcserver ipx irc-o irc-u kerberos ldap login netbios-dgm netbios- ns netbios-ssn netwall netware-ip new-rwho nfds nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp sntp sql*net sql-net sqlserv sunrpc syslog systat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>] portrange = <port-range> [triggerport = <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff doom echo exec finger ftp ftp-data gopher h323 httpproxy ike ils imap2 imap3 ingres-net ipcserver ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new- rwho nfds nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp sntp sql*net </port-range></pre>

where:

name	The name of the service.	REQUIRED
protocol	Protocol type.	OPTIONAL
baseport	Inbound base port.	OPTIONAL
portrange	The outbound portrange.	REQUIRED

SERVICE COMMANDS

triggerport	Defines outbound trigger port.	OPTIONAL
triggerprotocol	Protocol of the trigger port.	OPTIONAL
mode	Port map mode.	OPTIONAL

service host rule delete

Delete a service portmap.

SYNTAX:

service host rule delete	name = <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike Server (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}> [protocol = <{any tcp udp}>] [baseport = <{undefined at-echo at-nbp at- rtmp at-zis auth bgp biff bootpc exec finger ftp ftp-data gopher h323 httpproxy ike ils imap2 imap3 ingres-net ipcserver ipx irc-o irc-u kerberos ldap login netbios-dgm netbios- ns netbios-ssn netwall netware-ip new-rwho nfds nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp sntp sql*net sql-net sqlserv sunrpc syslog systat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>] portrange = <port-range> [triggerport = <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff doom echo exec finger ftp ftp-data gopher h323 httpproxy ike ils imap2 imap3 ingres-net ipcserver ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new- rwho nfds nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmmp snmptrap snpp sntp sql*net sql-net sqlserv sunrpc syslog systat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} ornumber>] [triggerprotocol = <{any tcp udp}>]</port-range>
	<pre>[triggerprotocol = <{any tcp udp}>] [mode = <{inbound outbound auto}>]</pre>

where:

name	The name of the service.	REQUIRED
protocol	Protocol type.	OPTIONAL
baseport	Inbound base port.	OPTIONAL
portrange	The outbound portrange.	REQUIRED

SERVICE COMMANDS

triggerport	Defines outbound trigger port.	OPTIONAL
triggerprotocol	Protocol of the trigger port.	OPTIONAL
mode	Port map mode.	OPTIONAL

service host stats

Service statistics.

service host triggerlist

List all triggers.

service system ifadd

Add an interface to the access list.

service system ifadd	<pre>FTP TELNET RIP-Query DNS-S MDA PING_RESPONDER}> [group = <{wan local lan tunne number>]</pre>	[group = <{wan local lan tunnel dmz guest} or	
where:			
name	The name of the service for this access list.	REQUIRED	
group	The interface group for this access list.	OPTIONAL	
intf	The interface for this access list.	OPTIONAL	

service system ifdelete

Delete an interface from the access list.

service system ifdelete	<pre>name = <{PPTP HTTP HTTPs webse: FTP TELNET RIP-Query DNS-S MDA: PING_RESPONDER}> [group = <{wan local lan tunne number>] [intf = <{loop Internet LocalNo.</pre>	P SSDP 1 dmz guest} or
where:		
name	The name of the service for this access list.	REQUIRED
group	The interface group for this access list.	OPTIONAL
intf	The interface for this access list.	OPTIONAL

service system ipadd

Add an IP address (range) to the access list.

service system ipadd	<pre>name = <{PPTP HTTP HTTPs webse FTP TELNET RIP-Query DNS-S MDP PING_RESPONDER}> ip = <ip-range></ip-range></pre>	
where:		
name	The name of the service for this access list.	REQUIRED
ip	The IP address (range) for this access list.	REQUIRED

service system ipdelete

Delete an IP address (range) from the access list.

SYNTAX:

service system ipdelete	<pre>name = <{PPTP HTTP HTTPs webservice FTP TELNET RIP-Query DNS-S MDAP SSDE PING_RESPONDER}> ip = <ip-range> Add NTP server = <ip-range></ip-range></ip-range></pre>	
name	The name of the service for this access list.	REQUIRED
ip	The IP address (range) for this access list.Command: sntp add	REQUIRED
Add NTP server	Syntax : add [addr = <ip-address>] [name = <string>] [version = <number{1-4}>]</number{1-4}></string></ip-address>	REQUIRED

service system ipdelete	<pre>[addr = <ip-address>] [name = <string>] [version = <number{1-4}>]</number{1-4}></string></ip-address></pre>	
where:		
addr	IP address of NTP server to be added to list	OPTIONAL
name	DNS name of NTP server to be added to list. If both the IP address and the DNS name are provided, the IP address is ignored.	OPTIONAL
version	SNTP version of server (1,2,3 or 4)	OPTIONAL

service system list

Display services.

service system list	<pre>[name = <{Remote-MBus PPTP SNTP SLA_ICMP_PING SLA_UDP IGMP-Proxy DNS-S DNS-C DYN statdns custom No-IP DtDNS S DHCP-R MDAP CWMP-C CWMP- IP_COMMANDS ICMP_PING SEND ICMP_TRACEROUTE UDP_TRACER [expand = <{disabled enabl [dynamics = <{disabled enab [members = <{disabled enab</pre>	_PING RIP-Query AMIC_DNS dyndns gnudip DHCP- S UPGD-C SSDP TO PING_RESPONDER OUTE HTTPPROBE}>] ed}>] bled}>]
name	The name of the service.	OPTIONAL
expand	Expanded listing.	OPTIONAL
dynamics	Display dynamic sevices.	OPTIONAL
members	Display sevice group members.	OPTIONAL

service system mapadd

Add a port map for a service.

service system mapadd	<pre>name = <{PPTP HTTP HTTPs webservice TELNET DNS-S MDAP SSDP}> intf = <{loop Internet LocalNetwork port = <{undefined at-echo at-nbp asi zis auth bgp biff bootpc finger ftp gopher h323 httpproxy ike ils imap2 ingres-net ipcserver ipx irc-o irc-n ldap login netbios-dgm netbios-ns nessn netwall netware-ip new-rwho nfdsnntp ntalk ntp pcmail-srv pop2 pop3 qotd realaudio rip rtelnet rtsp sip snmptrap snpp sntp sql*net sql-net ssunrpc syslog systat talk telnet tin tftp ulistserv utime uucp uucp-rlogshttp whoami xwindows} or number></pre>	<pre>}> t-rtmp at- ftp-data imap3 u kerberos etbios- s nicname printer smtp snmp sqlserv me timed </pre>
where:		
name	The name of the service for this map.	REQUIRED
intf	The interface for this map.	REQUIRED
port	The port for this map.	REQUIRED

service system mapdelete

Delete a port map for a service.

service system mapdelete where:	<pre>name = <{PPTP HTTP HTTPs webservice TELNET DNS-S MDAP SSDP}> intf = <{loop Internet LocalNetwork port = <{undefined at-echo at-nbp stis auth bgp biff bootpc finger fty gopher h323 httpproxy ike ils imapk ingres-net ipcserver ipx irc-o irck ldap login netbios-dgm netbios-ns stis netwall netware-ip new-rwho nfonntp ntalk ntp pcmail-srv pop2 popk qotd realaudio rip rtelnet rtsp sity snmptrap snpp sntp sql*net sql-net sunrpc syslog systat talk telnet tt tftp ulistserv utime uucp uucp-rloghttp whoami xwindows} or number></pre>	x}> at-rtmp at- p ftp-data 2 imap3 -u kerberos netbios- ds nicname 3 printer p smtp snmp sqlserv ime timed
name	The name of the service for this map.	REQUIRED
intf	The interface for this map.	REQUIRED
port	The port for this map.	REQUIRED

service system modify

Modify a service.

SYNTAX:

<pre>[dynportrange = <port-range>] [qoslabel = <{None DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>] [routelabel = <{None DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>] [srcintf = <{loop Internet LocalNetwork}>] [log = <{disabled enabled}>] [forward = <{disabled enabled}>] [natpmweight = <number{0-255}>]</number{0-255}></port-range></pre>	<pre>[qoslabel = <{None DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>] [routelabel = <{None DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>] [srcintf = <{loop Internet LocalNetwork}>] [log = <{disabled enabled}>]</pre>	at- at- a ros ne mp
--	--	---------------------------------------

where:

name	The name of the service.	REQUIRED
state	Disable/Enable this service.	OPTIONAL
port	The port of the service.	OPTIONAL
dynportrange	The dynamic port range for this service.	OPTIONAL
qoslabel	QOS label for service data.	OPTIONAL
routelabel	Route label for service data.	OPTIONAL
srcintf	The primary IP interface for this service.	OPTIONAL
log	Disable/Enable service logging.	OPTIONAL
forward	Disable/Enable service forwarding.	OPTIONAL
natpmweight	The nat portmap weight for this service.	OPTIONAL

sntp Commands

sntp config	Modify/Display configuration	see page 738
sntp debug traceconfig	Modify SNTP client trace configuration	see page 739
sntp delete	Delete NTP server from list	see page 740
sntp flush	Flush NTP server list and SNTP client configuration	see page 741
sntp list	List the NTP servers	see page 742

sntp config

Modify/Display configuration

sntp config	<pre>[state = <{enabled disabled}>] [poll = <number{1-10080}>] [pollpresync = <number{1-60}>] [wanSubscribe = <{enabled disable</number{1-60}></number{1-10080}></pre>	ed}>]
where:		
state	Enable/Disable SNTP client	OPTIONAL
poll	polling interval (1 min, ,10080min(=7days))	OPTIONAL
pollpresync	polling interval before first sync (1 min, ,60min)	OPTIONAL
wanSubscribe	Enable/Disable subscribe wan connection	OPTIONAL

sntp debug traceconfig

Modify SNTP client trace configuration

sntp debug traceconfig	<pre>[state = <{disabled enabled}>] Displays the software version. = enabled}></pre>	<{disabled
where:		
state	Enable/Disable tracing.Command: software version	OPTIONAL
Displays the software version.	Syntax : version	REQUIRED

sntp delete

Delete NTP server from list

sntp delete	<pre>[addr = <ip-address>] [name = <string>]</string></ip-address></pre>	
where:		
addr	IP address of NTP server to be removed from list	OPTIONAL
name	DNS name of NTP server to be removed from list	OPTIONAL

sntp flush

Flush NTP server list and SNTP client configuration

sntp list

List the NTP servers

software Commands

software switchover Switches active & passive bank & reboots. see page 744

software upgrade Reboots the modem to initiate the SW upgrade. see page 745

New software available on a

software switchover

Switches active & passive bank & reboots.

software switchover	<pre>proceed = <{no yes}></pre>	
where:		
proceed	Confirmation for resetting the modem.	REQUIRED

software upgrade

Reboots the modem to initiate the SW upgrade. New software available on a

software upgrade where:	<pre>[statecheck = <{}>] interval = <{}> timeout = <{}> [groupop = <{and or}>] [dmtree = <{igd atomic}>]</pre>	
statecheck	The name of the statecheck.	OPTIONAL
interval	The interval seconds between checks.	REQUIRED
timeout	The Timeout seconds after which checking stops.	REQUIRED
groupop	Group operator type.	OPTIONAL
dmtree	Client type.	OPTIONAL

STATECHECK COMMANDS

statecheck Commands

statecheck checkadd	Add a check object.	see page 748
statecheck checkdelete	Delete a check object.	see page 749
statecheck groupadd	Add a group object.	see page 750
statecheck groupdelete	Delete a group object.	see page 751
statecheck list	List checks.	see page 752
statecheck statecheckadd	Add a statecheck object.	see page 753
statecheck statecheckdelete	Delete a statecheck object.	see page 754

statecheck checkadd

Add a check object.

statecheck checkadd	<pre>[statecheck = <{}>] group = <{}> name = <string> object = <string> paramname = <string> paramtype = <{string uint bool}> [paramop = <{and or single}>] matchtype = <{equal differ statdel match = <quoted string=""></quoted></string></string></string></pre> [conschecks = <tring>]</tring>	<pre>cup = <{}> me = <string> ject = <string> camname = <string> camtype = <{string uint bool}> aramop = <{and or single}>] chtype = <{equal differ statdelta}> ctch = <quoted string=""></quoted></string></string></string></pre>	
where:			
statecheck	The name of the statecheck.	OPTIONAL	
group	The name of the group.	REQUIRED	
name	The name of the check.	REQUIRED	
object	The object to check.	REQUIRED	
paramname	The parameter to check.	REQUIRED	
paramtype	The parameter type.	REQUIRED	
paramop	The parameter operator type.	OPTIONAL	
matchtype	The match type.	REQUIRED	
match	The match value.	REQUIRED	
conschecks	The number of consecutuve checks the result has to be inactive before the inactive parameter changes	OPTIONAL	

statecheck checkdelete

Delete a check object.

statecheck checkdelete	<pre>statecheck = <{}> group = <{}> name = <{}></pre>	
where:		
statecheck	The name of the statecheck.	REQUIRED
group	The name of the group.	REQUIRED
name	The name of the check.	REQUIRED

statecheck groupadd

Add a group object.

statecheck groupadd	<pre>[statecheck = <{}>] name = <string> [checkop = <{and or}>]</string></pre>	
where:		
statecheck	The name of the statecheck.	OPTIONAL
name	The name of the group.	REQUIRED
checkop	Check operator type.	OPTIONAL

statecheck groupdelete

Delete a group object.

statecheck groupdelete	statecheck = <{}> name = <{}>	
where:		
statecheck	The name of the statecheck.	REQUIRED
name	The name of the group.	REQUIRED

statecheck list

List checks.

statecheck list	<pre>[activate = <{disabled enabled}>] [timeout = <number{0-60}>] [format = <{standard welf}>]</number{0-60}></pre>	
where:		
activate	Syslog send to collectors enabled.	OPTIONAL
timeout	Syslog flooding timeout (in secs) to collectors.	OPTIONAL
format	Syslog contents format	OPTIONAL

statecheck statecheckadd

Add a statecheck object.

statecheck statecheckadd	name = <string></string>	
where:		
name	The name of the statecheck.	REQUIRED

statecheck statecheckdelete

Delete a statecheck object.

statecheck statecheckdelete	statecheck = <{}>	
where:		
statecheck	The name of the statecheck.	REQUIRED

syslog Commands

syslog flush	Flushes syslog rules.	see page 756
syslog list	List the current syslog configuration	see page 757
syslog msgbuf flush	Flush all messages in syslog message buffer.	see page 758
syslog msgbuf send	Send messages to remote syslog server.	see page 759
syslog msgbuf show	Show messages in the syslog message buffer.	see page 760
syslog ruleadd	Add a new rule to the syslog configuration.	see page 761
syslog ruledelete	Delete a rule in the syslog configuration	see page 762

syslog flush

Flushes syslog rules.

syslog list

List the current syslog configuration

syslog msgbuf flush

Flush all messages in syslog message buffer.

SYNTAX:

syslog msgbuf flush	[date = <dd mm="" yyyy="">]</dd>
	[time = <hh:mm:ss>]</hh:mm:ss>
	<pre>[timezone = <(+ or -)hh:mm>]</pre>
	[daylightsaving = <{disabled enabled}>]
	[geotimezonename = <{(UTC-12:00) (UTC-11:00)
	(UTC-10:00) (UTC-09:00) (UTC-(UTC-03:30)
	(UTC-03:00) (UTC-02:00) (UTC-01:00) (UTC) (UTC
	+01:00) (UTC+02:00) (UTC+03:00) (UTC+03:30)
	(UTC+04:00) (UTC+04:30) (UTC+05:00) (UTC
	+05:30) (UTC+05:45) (UTC+06:00) (UTC+06:30)
	(UTC+07:00) (UTC+08:00) (UTC+09:00) (UTC
	+09:30) (UTC+10:00) (UTC+11:00) (UTC+12:00)
	(UTC+13:00)}>]
	<pre>[rtc = <{disabled enabled}>]</pre>

where:

date	Set the system date	OPTIONAL
time	Set the system time	OPTIONAL
timezone	Set the system timezone(-12:00+14:00 / 15 minute resolution)	OPTIONAL
daylightsaving	Enable/Disable daylight saving	OPTIONAL
geotimezonename	Set the geographical timezone by name	OPTIONAL
rtc	Enable/Disable the real time clock	OPTIONAL

REQUIRED

syslog msgbuf send

Send messages to remote syslog server.

SYNTAX:

dest

syslog msgbuf send where:	<pre>[fac = <{kern user mail daemon aut lpr news uucp cron security ftp lc local7}>] [sev = <{emerg alert crit err warr info debug}>] [hist = <{disabled enabled}>] dest = <ip-address></ip-address></pre>	ocal6
fac	Syslog facility level.	OPTIONAL
sev	Syslog severity level.	OPTIONAL
hist	Syslog display message history (over several bootups)	OPTIONAL

Remote syslog server destination: an ip-address.

syslog msgbuf show

Show messages in the syslog message buffer.

syslog msgbuf show	<pre>[fac = <{kern user mail daemon auth syslog lpr news uucp cron security ftp local6 local7}>] [sev = <{emerg alert crit err warning notice info debug}>] [hist = <{disabled enabled}>]</pre>	
where:		
fac	Syslog facility level.	OPTIONAL
sev	Syslog severity level.	OPTIONAL
hist	Syslog display message history (over several bootups)	OPTIONAL

syslog ruleadd

Add a new rule to the syslog configuration.

syslog ruleadd	<pre>fac = <{kern user mail daemon news uucp cron security ftp l or comma-seperated }> sev = <{emerg alert crit err info debug}> dest = <ip-address></ip-address></pre>	ocal6 local7 all
where:		
fac	Syslog rule facility.	REQUIRED
sev	Syslog rule severity.	REQUIRED
dest	Syslog rule destination: an ip-address.	REQUIRED

syslog ruledelete

Delete a rule in the syslog configuration

syslog ruledelete	rule_index = <number{1-16}></number{1-16}>	
where:		
rule_index	Syslog rule index.	REQUIRED

system Commands

system config	Set or change system config parameters.	see page 764
system debug autosave	Autosave debugging commands	see page 765
system debug cpu	CPU usage statistics	see page 766
system debug mem	Memory usage statistics	see page 767
system dst	Set daylight saving values	see page 768
system flush	Flush system configuration.	see page 769
system ra config	Configure remote access parameters.	see page 770
system ra instadd	Add a remote access instances.	see page 771
system ra instdelete	Delete remote access instances.	see page 772
system ra list	List remote access instances.	see page 773
system ra start	Starts temporary mode.	see page 774
system ra stop	Stops temporary mode.	see page 775
system reboot	Reboot the modem.	see page 776
system reset	Reset to (factory or ISP) defaults: user specific settings will be cleared!	see page 777
system timedreboot	Set or change editing mode timed reboot	see page 778

system config

Set or change system config parameters.

system config	[upnp = <{disabled enabled}>]
	[tr64 = <{disabled enabled}>]
	<pre>[tr64auth = <{disabled enabled}>]</pre>
	[mdap = <{disabled enabled}>]
	<pre>[led = <{blue green red orange flash off}>]</pre>
	[resetbutton = <{disabled enabled}>]
	[defaultconnection = <{loop Internet
	LocalNetwork}>]
	[autosave = <{enabled disabled}>]
	[autosavedelay = <number{0-600}>]</number{0-600}>
	[WANMode = <{ADSL VDSL SHDSL ETH UMTS}>]
	<pre>[WANEthPort = <{ethif1 ethif2 ethif3 ethif4}>]</pre>
where:	

upnp	Enable/Disable upnp discovery	OPTIONAL
tr64	Enable/Disable TR-64 discovery	OPTIONAL
tr64auth	Enable/Disable TR-64 digest authentication	OPTIONAL
mdap	Enable/Disable mdap discovery	OPTIONAL
led	Set system LED color	OPTIONAL
resetbutton	Enable/Disable reset-to-factory-defaults pushbutton	OPTIONAL
defaultconnection	The name of the default internet connection.	OPTIONAL
autosave	Enable/Disable autosaves	OPTIONAL
autosavedelay	Autosave delay in seconds (0 for immediate save)	OPTIONAL
WANMode	Set autosensing wan mode	OPTIONAL
WANEthPort	Set autosensing eth wan port	OPTIONAL

system debug autosave

Autosave debugging commands

system debug autosave	[trace = <{disabled enabled}>]	
where:		
trace	Enable/Disable autosave traces	OPTIONAL

system debug cpu

CPU usage statistics

system debug cpu	<pre>[delay = <number{1-60}>] [iterations = <number{1-4000000}>] [tasks = <{disabled enabled}>]</number{1-4000000}></number{1-60}></pre>	
where:		
delay	Delay between stats updates	OPTIONAL
iterations	Number of iteration before ending	OPTIONAL
tasks	Show active tasks	OPTIONAL

system debug mem

Memory usage statistics

system debug mem	<pre>[expand = <{disabled enabled}>]</pre>	
where:		
expand	Dump of /proc/meminfo	OPTIONAL

system dst

Set daylight saving values

SYNTAX:

```
system dst
                                  [mode = <{Absolute|Relative}>]
                                  [startdate = <dd/mm/yyyy>]
                                  [starttime = <hh:mm:ss>]
                                  [enddate = <dd/mm/yyyy>]
                                  [endtime = <hh:mm:ss>]
                                  [startweekday = <{Sunday|Monday|Tuesday|</pre>
                                  Wednesday|Thursday|Friday|Saturday}>]
                                  [starthour = <number\{0-23\}>]
                                  [startweek = <number\{1-5\}>]
                                  [startmonth = <number\{1-12\}>]
                                  [endweekday = <{Sunday|Monday|Tuesday|
                                  Wednesday|Thursday|Friday|Saturday}>]
                                  [endhour = <number\{0-23\}>]
                                  [endweek = <number\{1-5\}>]
                                  [endmonth = <number\{1-12\}>]
```

where:

mode	Set daylight saving mode	OPTIONAL
startdate	Set the start date of the daylight saving in the absolute mode	OPTIONAL
starttime	Set the start time of the daylight saving in the absolute mode	OPTIONAL
enddate	Set the end date of the daylight saving in the absolute mode	OPTIONAL
endtime	Set the end time of the daylight saving in the absolute mode	OPTIONAL
startweekday	Set the start weekday of the daylight saving in the relative mode	OPTIONAL
starthour	Set the start hour of the daylight saving in the relative mode	OPTIONAL
startweek	Set the start week of the daylight saving in the relative mode	OPTIONAL
startmonth	Set the start month of the daylight saving in the ralative mode	OPTIONAL
endweekday	Set the end weekday of the daylight saving in the relative mode	OPTIONAL
endhour	Set the end hour of the daylight saving in the relative mode	OPTIONAL
endweek	Set the end week of the daylight saving in the relative mode	OPTIONAL
endmonth	Set the end month of the daylight saving in the relative mode	OPTIONAL

system flush

Flush system configuration.

system ra config

Configure remote access parameters.

SYNTAX:

```
system ra config

name = <{}>
[state = <{disabled|enabled}>]
[secure = <{enabled|disabled}>]
[port = <{enabled|disabled}>]
[timeout = <led|disabled}>]
[mode = <{Permanent|Temporary|Schedule}>]
[ipintf = <string>]
[randompassword = <{enabled|disabled}>]
[randomport = <{enabled|disabled}>]
[group = <string>]
[user = <string>]
[user = <string>]
[systemservice = <{GUI|webservice}>]
```

where:

name	Instance name	REQUIRED
state	Enable/disable RAD.	OPTIONAL
secure	Use secure mode (https).	OPTIONAL
port	The port number.	OPTIONAL
timeout	The timeout value.	OPTIONAL
mode	Mode Permanent or Temporary.	OPTIONAL
ipintf	The name of the xref to the IP interface.	OPTIONAL
randompassword	Create a random password.	OPTIONAL
randomport	Use a random port.	OPTIONAL
group	The name of the xref to the group keypath.	OPTIONAL
user	The name of the xref to the user keypath.	OPTIONAL
todschedule	The name of the xref to the ToD schedule.	OPTIONAL
systemservice	The system service type.	OPTIONAL

system ra instadd

Add a remote access instances.

system ra instadd	name = <string></string>	
where:		
name	Instance name	REQUIRED

system ra instdelete

Delete remote access instances.

system ra instdelete	$name = <{}\}>$	
where:		
name	Instance name	REQUIRED

system ra list

List remote access instances.

system ra list	[name = <{}>]	
where:		
name	The name of the instance.	OPTIONAL

system ra start

Starts temporary mode.

system ra start	name = <{}>	
where:		
name	Instance name	REQUIRED

system ra stop

Stops temporary mode.

SYNTAX:

system ra stop	<pre>name = <{}> Display/modify tls settings = <{}></pre>	
where:		
name	Instance nameCommand: tls acs-client config	REQUIRED
Display/modify tls settings	Syntax : config [state = <{disabled enabled}>] [auth-serv = <{disabled enabled}>] [valid-date = <{disabled enabled}>] [valid-domain = <{disabled enabled}>]	REQUIRED

system ra stop	<pre>[state = <{disabled enabled}>] [auth-serv = <{disabled enabled}>] [valid-date = <{disabled enabled}>] [valid-domain = <{disabled enabled}>]</pre>	
where:		
state	SSL/TLS client for ACS state	OPTIONAL
auth-serv	Request server authentication	OPTIONAL
valid-date	Check certificate validity date	OPTIONAL
valid-domain	Check certificate domain	OPTIONAL

system reboot

Reboot the modem.

system reset

Reset to (factory or ISP) defaults: user specific settings will be cleared!

system reset	<pre>factory = <{yes no}> proceed = <{no yes}></pre>	
where:		
factory	Option to reset to factory	REQUIRED
proceed	Confirmation for resetting the modem.	REQUIRED

system timedreboot

Set or change editing mode timed reboot

system timedreboot	<pre>[state = <{disabled enabled}>] [time = <number{0-983040}>] [date = <string>]</string></number{0-983040}></pre>	
where:		
state	Enable/Disable timed reboot	OPTIONAL
time	Change default countdown time (Min).	OPTIONAL
date	Set date/time to reboot (DD/MM/YYYY/HH:MM).	OPTIONAL

tls Commands

tls acs-client cert add	Add a new certificate	see page 780
tls acs-client cert delete	Delete a certificate	see page 781
tls acs-client cert list	List certificates	see page 782
tls https-server cert add	Add a new certificate	see page 783
tls https-server cert delete	Delete a certificate	see page 784
tls https-server cert list	List certificates	see page 785
tls https-server config	Display/modify tls settings	see page 786
tls remote-upgraded cert add	Add a new certificate	see page 787
tls remote-upgraded cert delete	Delete a certificate	see page 788
tls remote-upgraded cert list	List certificates	see page 789
tls remote-upgraded config	Display/modify tls settings	see page 790
tls self cert list	List certificates	see page 791

tls acs-client cert add

Add a new certificate

tls acs-client cert add	filename = <string></string>	
where:		
filename	name of the certificate file	REQUIRED

tls acs-client cert delete

Delete a certificate

tls acs-client cert delete	index = <number></number>	
where:		
index	Certificate index	REQUIRED

tls acs-client cert list

List certificates

tls acs-client cert list	<pre>[index = <number>] [expand = <{disabled enabled}>]</number></pre>	
where:		
index	Certificate index	OPTIONAL
expand	Display more information	OPTIONAL

tls https-server cert add

Add a new certificate

tls https-server cert add	filename = <string></string>	
where:		
filename	name of the certificate file	REQUIRED

tls https-server cert delete

Delete a certificate

tls https-se	rver cert delete	index = <number></number>	
where:			
index	(Certificate index	REQUIRED

tls https-server cert list

List certificates

tls https-server cert list	<pre>[index = <number>] [expand = <{disabled enabled}>]</number></pre>	
where:		
index	Certificate index	OPTIONAL
expand	Display more information	OPTIONAL

tls https-server config

Display/modify tls settings

tls https-server config	<pre>[state = <{disabled enabled}>] [auth-client = <{disabled enabled}>] [valid-date = <{disabled enabled}>]</pre>	
where:		
state	SSL/TLS server for HTTPS state	OPTIONAL
auth-client	Request client authentication	OPTIONAL
valid-date	Check certificate validity date	OPTIONAL

tls remote-upgraded cert add

Add a new certificate

tls remote-upgra	ded cert add	filename = <string></string>	
where:			
filename	na	me of the certificate file	REQUIRED

tls remote-upgraded cert delete

Delete a certificate

tls remote-upgraded o	cert	index = <number></number>	
where:			
index	Certi	ificate index	REQUIRED

tls remote-upgraded cert list

List certificates

tls remote-upgraded cert list	<pre>[index = <number>] [expand = <{disabled enabled}>]</number></pre>	
where:		
index Cer	rtificate index	OPTIONAL
expand Dis	play more information	OPTIONAL

tls remote-upgraded config

Display/modify tls settings

tls remote-upgraded config	<pre>[state = <{disabled enabled}>] [auth-serv = <{disabled enabled}>] [valid-date = <{disabled enabled}>]</pre>	
where:		
state	SSL/TLS client for remote upgraded state	OPTIONAL
auth-serv	Request server authentication	OPTIONAL
valid-date	Check certificate validity date	OPTIONAL

tls self cert list

List certificates

SYNTAX:

tls self cert list	<pre>[index = <number>] [expand = <{disabled enabled}>] Display/modify upgrade settings = <{disabled enabled}></number></pre>	
where:		
index	Certificate index	OPTIONAL
expand	Display more informationCommand: upgrade config	OPTIONAL
Display/modify upgrade settings	Syntax : config [enable = <{no yes}>] [attempt = < yes}>] >] [trace_level = <] >] >] [acsContactTimeout = <>]	REQUIRED

tls self cert list	<pre>[enable = <{no yes}>] [attempt = < yes}>] [trace_level = <] >] [acsContactTimeout = <>]</pre>	
where:		
enable	Enable firmware upgrade	OPTIONAL
attempt	Track the number of upgrade attempts	OPTIONAL
trace_level	Set the trace level	OPTIONAL
acsContactTimeout	Set acsContactTimeout (minutes)	OPTIONAL

UPGRADE COMMANDS

upgrade Commands

upgrade debug config	Display debug parameters	see page 794
upgrade image list	List images	see page 795
upgrade image modify	Change image parameters	see page 796
upgrade lastUpgradeInfo	Display last upgrade information	see page 797

upgrade debug config

Display debug parameters

upgrade image list

List images

SYNTAX:

upgrade image list	$[maxage = < number {60-999999}>]$
	<pre>[writemode = <{full natonly readonly}>]</pre>
	[safenat = <{disabled enabled}>]
	[preferredaddresses = <string>]</string>
	[upnpautosave = <{disabled enabled}>]
	[dslfautosave = <{disabled enabled}>]
	[autosavedelay = <number{30-45}>]</number{30-45}>
	<pre>[onlydefault = <{disabled enabled}>]</pre>

where:

maxage	ssdp advertisements MAX-AGE (default = 1800)	OPTIONAL
writemode	Configuration access level for UPnP	OPTIONAL
safenat	Enable / disable check on safe nat entries (limited to own host)	OPTIONAL
preferredaddresses	CSV list of preferred ip addresses for UPnP (1 per lan ip-interface)	OPTIONAL
upnpautosave	Enable / disable upnp auto save	OPTIONAL
dslfautosave	Enable / disable TR-064 auto save	OPTIONAL
autosavedelay	Auto save delay time (sec)	OPTIONAL
onlydefault	Only advertise the default WAN connection	OPTIONAL

upgrade image modify

Change image parameters

upgrade image modify	<pre>[url = <quoted string="">] [username = <string>] [password = <string>] [key = <string>]</string></string></string></quoted></pre>	
where:		
url	Image location URL	OPTIONAL
username	HTTP authentication username	OPTIONAL
password	HTTP authentication password	OPTIONAL
key	lmage identifier	OPTIONAL

$upgrade\ last Upgradeln fo$

Display last upgrade information

UPNP COMMANDS

upnp Commands

upnp debug nonce	To re-generate the nonce string.	see page 800
upnp debug traceconfig	Enable or disable tracing.	see page 801
upnp flush	Flushes upnp config (i.e. to defaults)	see page 802
upnp list	List all registered devices	see page 803
upnp listmask	List all mask and security devices	see page 804

upnp debug nonce

To re-generate the nonce string.

SYNTAX:

upnp debug nonce	<pre>[type = <{upnp tr64 wfa}>] Add a user. = <{upnp tr64 wfa}></pre>	
where:		
type	Specify device type for nonce stringCommand: user add	OPTIONAL
Add a user.	Syntax: add name = <string> password = <password> role = <> [hash2 = <string>] [crypt = <string>] [descr = <quoted string="">] [defuser = <{disabled enabled}>] [defremadmin = <{disabled enabled}>] enabled}>]</quoted></string></string></password></string>	REQUIRED

SYNTAX:

upnp debug nonce	<pre>name = <string> password = <password> role = <> [hash2 = <string>] [crypt = <string>] [descr = <quoted string="">]</quoted></string></string></password></string></pre>
	<pre>[defuser = <{disabled enabled}>] [defremadmin = <{disabled enabled}>]</pre>
	[deflocadmin = <{disabled enabled}>]

where:

name	User name.	REQUIRED
password	User password.	REQUIRED
role	Role name.	REQUIRED
hash2	The MD5 hash.	OPTIONAL
crypt	The crypt password.	OPTIONAL
descr	User description.	OPTIONAL
defuser	Set this user as the default user.	OPTIONAL
defremadmin	Set this user as the default remote administrator.	OPTIONAL
deflocadmin	Set this user as the default local administrator.	OPTIONAL

upnp debug traceconfig

Enable or disable tracing.

upnp debug traceconfig	[level = <number>]</number>	
where:		
level	Set the tracelevel (0-2)	OPTIONAL

upnp flush

Flushes upnp config (i.e. to defaults)

upnp list

List all registered devices

upnp list	[verbose = $<$ number $\{0-2\}>$]	
where:		
verbose	Verbose level (default = 1)	OPTIONAL

upnp listmask

List all mask and security devices

user Commands

user config	Modify the user.	see page 806
user delete	Delete a user.	see page 807
user flush	Flush the users.	see page 808
user list	Display the users.	see page 809
user rights	Display session rights.	see page 810

user config

Modify the user.

SYNTAX:

user config	<pre>name = <{Administrator tech}></pre>
	[password = <password>]</password>
	[role = <>]
	[descr = <quoted string="">]</quoted>
	[defuser = <{disabled enabled}>]
	[defremadmin = <{disabled enabled}>]
	[deflocadmin = <{disabled enabled}>]

where:

name	User name.	REQUIRED
password	User password.	OPTIONAL
role	Role name.	OPTIONAL
descr	User description.	OPTIONAL
defuser	Set this user as the default user.	OPTIONAL
defremadmin	Set this user as the default remote administrator.	OPTIONAL
deflocadmin	Set this user as the default local administrator.	OPTIONAL

user delete

Delete a user.

user delete	name = <{Administrator tech	<pre>name = <{Administrator tech}></pre>	
where:			
name	User name.	REQUIRED	

user flush

Flush the users.

user list

Display the users.

user list	<pre>[name = <{Administrator tech}>] [channel = <{ftp telnet http mdap serial}>] [origin = <{lan wan local}>] [secure = <{disabled enabled}>]</pre>	
where:		
name	User name.	OPTIONAL
channel	The selected channel.	OPTIONAL
origin	The selected origin.	OPTIONAL
secure	The selected security level.	OPTIONAL

user rights

Display session rights.

user rights	<pre>[state = <{disabled enabled}>] [errorinterval = <enabled}>] [errorscript = <string>]</string></enabled}></pre>	
where:		
state	Enable/disable	OPTIONAL
errorinterval	Error interval value	OPTIONAL
errorscript	Error script name	OPTIONAL

wansensing Commands

wansensing debug traceconfig	Tracing settings	see page 812
wansensing flush	Clean configuration	see page 813
wansensing list	Display parameters	see page 814
wansensing mode add	Add mode	see page 815
wansensing mode delete	Delete mode	see page 816
wansensing mode list	List all modes	see page 817
wansensing requestmode	Request to enter certain mode	see page 818

wansensing debug traceconfig

Tracing settings

wansensing debug	traceconfig [state = <{disa	abled enabled}>]
where:		
state	Enable/disable	OPTIONAL

wansensing flush

Clean configuration

wansensing list

Display parameters

wansensing mode add

Add mode

wansensing mode add	<pre>name = <string> maininterval = <> scriptname = <string> [redirectgui = <{disabled enabled}>]</string></string></pre>	
where:		
name	Mode name	REQUIRED
maininterval	Main interval value	REQUIRED
scriptname	Script name	REQUIRED
redirectgui	Redirect GUI	OPTIONAL

wansensing mode delete

Delete mode

SYNTAX:

wansensing mode delete	<pre>name = <string> Add an CommonName = <string></string></string></pre>	
where:		
name	Mode nameCommand: webserver ssl commonname add	REQUIRED
Add an CommonName	Syntax : add commonname = <string></string>	REQUIRED

wansensing mode delete	commonname = <string></string>	
where:		
commonname	CommonName	REQUIRED

wansensing mode list

List all modes

wansensing requestmode

Request to enter certain mode

wansensing requestmode	mode = <string></string>	
where:		
mode	Mode to enter (its name)	REQUIRED

webserver Commands

webserver ssl commonname delete

Delete an option.

see page 820

webserver ssl commonname list

List all options.

see page 821

webserver ssl commonname delete

Delete an option.

webserver ssl commonname delete	id = <string></string>	
where:		
id	id	REQUIRED

webserver ssl commonname list

List all options.

SYNTAX:

where:

state	Interface operational status of wireless access point	OPTIONAL
channel	Communication channel number	OPTIONAL
interop	Interoperability mode	OPTIONAL
frameburst	Framebursting	OPTIONAL
channelwidth	channelwidth	OPTIONAL
sgi	Short Guard Time Interval	OPTIONAL
cdd	Cyclic Delay Diversity	OPTIONAL
stbc	Space Time Block Coding	OPTIONAL
frameaggregation	Frame aggregation method	OPTIONAL
radio_id	radio	OPTIONAL

WIRELESS COMMANDS

wireless Commands

wireless acs config	ACS configuration	see page 825
wireless acs debug rescan	ACS perform automatic channel selection	see page 826
wireless acs debug scan	ACS netowrk scan	see page 827
wireless acs debug scanreport	ACS scanresults	see page 828
wireless acs debug triggerdump	driver detailed counter stats	see page 829
wireless acs scanhistory	ACS scanhistory	see page 830
wireless debug stats	Transfer statistics	see page 831
wireless macacl add	Add an ACL MAC entry	see page 832
wireless macacl config	Access Control List configuration	see page 833
wireless macacl delete	Delete an ACL MAC entry	see page 834
wireless macacl flush	Flushes ACL entries	see page 835
wireless macacl list	Shows a list of all configured ACL entries	see page 836
wireless macacl modify	Modify an ACL entry	see page 837
wireless macacl register	Start a registration process (only for register mode)	see page 838
wireless mssid ifadd	Add an extra ssid context	see page 839
wireless mssid ifattach	Attach a ssid context	see page 840
wireless mssid ifconfig	Configure a ssid context	see page 841
wireless mssid ifdelete	Delete a ssid context	see page 842
wireless mssid ifdetach	Detach a ssid context	see page 843
wireless mssid iflist	Multiple ssid configuration	see page 844
wireless qos apacconfig	configure AP EDCA parameters	see page 845
wireless qos config	configure QoS settings	see page 846
wireless qos staacconfig	configure STA EDCA parameters	see page 847
wireless reset	Reset Wireless interface settings to defaults	see page 848
wireless stations list	List of the currently associated stations	see page 849
wireless wps ap_pin	Set/Show the AP pin value	see page 850
wireless wps config	Configure/Show the WPS settings	see page 851
wireless wps mode	Set/Show the configuration mode value	see page 852

WIRELESS COMMANDS

wireless wps pin

Set the ENROLLEE pin value

see page 853

wireless acs config

ACS configuration

wireless acs config	<pre>[state = <{disabled enabled}>] [ccathreshold = <number>] [channelscantime = <number>] [failiteration = <number>] [maxiteration = <number>] [lockoutperiod = <number>] [periodicscantime = <number>] [radio_id = <number{0-9999}>] [scanmode = <{disabled detect detequations</number{0-9999}></number></number></number></number></number></number></pre> [autoscanreport = <{no yes}>]	:ect+act}>]
where:		
state	[glitchthreshold = <number>] ACS glitsch threshold</number>	OPTIONAL
ccathreshold	ACS cca threshold	OPTIONAL
channelscantime	ACS channelscantime	OPTIONAL
failiteration	ACS failiteration	OPTIONAL
maxiteration	ACS maxiteration	OPTIONAL
lockoutperiod	ACS lockout period	OPTIONAL
periodicscantime	ACS periodic scan	OPTIONAL
radio_id	radio	OPTIONAL
scanmode	ACS scan mode	OPTIONAL
autoscanreport	ACS auto scan report generation	OPTIONAL

wireless acs debug rescan

ACS perform automatic channel selection

wireless acs deb	ug rescan	[radio_id = <number{0-9999}>]</number{0-9999}>	
where:			
radio_id	radi	0	OPTIONAL

wireless acs debug scan

ACS netowrk scan

wireless acs debug scan	[radio_id = <number{0-9999}>]</number{0-9999}>	
where:		
radio_id	radio	OPTIONAL

wireless acs debug scanreport

ACS scanresults

wireless acs de	ebug scanreport	[radio_id = <number{0-9999}>]</number{0-9999}>	
where:			
radio_id	radi	0	OPTIONAL

wireless acs debug triggerdump

driver detailed counter stats

wireless acs	debug triggerdump	[radio_id = <number{0-9999}>]</number{0-9999}>	
where:			
radio_id	radio	0	OPTIONAL

wireless acs scanhistory

ACS scanhistory

wireless acs scar	nhistory [ra	adio_id = <number{0-9999}>]</number{0-9999}>	
where:			
radio_id	radio		OPTIONAL

wireless debug stats

Transfer statistics

wireless macacl add

Add an ACL MAC entry

wireless macacl add	<pre>[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] hwaddr = <hardware-address> permission = <{allow deny}> [name = <quoted string="">]</quoted></hardware-address></number{0-9999}></number{0-9999}></pre>	
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
hwaddr	The Ethernet MAC address of the ACL entry	REQUIRED
permission	The action to be performed on ACL entry	REQUIRED
name	The name of the station	OPTIONAL

wireless macacl config

Access Control List configuration

wireless macacl config	<pre>[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] [control = <{lock unlock register}>] [regtime = <number{15-3600}>]</number{15-3600}></number{0-9999}></number{0-9999}></pre>]
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
control	Access Control List mode	OPTIONAL
regtime	Registration time	OPTIONAL

wireless macacl delete

Delete an ACL MAC entry

wireless macacl delete	<pre>[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] hwaddr = <hardware-address></hardware-address></number{0-9999}></number{0-9999}></pre>	
where:		
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
hwaddr	hardware address of the ACL entry	REQUIRED

wireless macacl flush

Flushes ACL entries

wireless macacl flush	<pre>[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] proceed = <{disabled enabled}></number{0-9999}></number{0-9999}></pre>	
where:		
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
proceed	Confirmation required	REQUIRED

wireless macacl list

Shows a list of all configured ACL entries

wireless macacl list	[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>]</number{0-9999}></number{0-9999}>	
where:		
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL

wireless macacl modify

Modify an ACL entry

wireless macacl modify where:	<pre>[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] hwaddr = <hardware-address> [permission = <{allow deny}>] [name = <quoted string="">]</quoted></hardware-address></number{0-9999}></number{0-9999}></pre>	
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
hwaddr	The Ethernet MAC address of the ACL entry	REQUIRED
permission	The action to be performed on ACL entry	OPTIONAL
name	The name of the station	OPTIONAL

wireless macacl register

Start a registration process (only for register mode)

wireless macacl register	<pre>[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] proceed = <{disabled enabled}></number{0-9999}></number{0-9999}></pre>	
where:		
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
proceed	Confirmation required	REQUIRED

wireless mssid ifadd

Add an extra ssid context

wireless mssid ifadd	<pre>[ssid = <quoted string="">] [radio_id = <number{0-9999}>]</number{0-9999}></quoted></pre>	
where:		
ssid	ssid	OPTIONAL
radio_id	radio	OPTIONAL

wireless mssid ifattach

Attach a ssid context

wireless mssid ifattach	ssid_id = <number{0-9999}> [radio_id = <number{0-9999}>]</number{0-9999}></number{0-9999}>	
where:		
ssid_id	ssid	REQUIRED
radio_id	radio	OPTIONAL

wireless mssid ifconfig

Configure a ssid context

wireless mssid ifconfig	<pre>ssid_id = <number{0-9999}> [ssid = <quoted string="">] [apisolation = <{disabled enabled}>] [any = <{disabled enabled}>] [secmode = <{disable wep wpa-psk}>] [WEPkey = <quoted string="">] [WPAPSKkey = <quoted string="">] [WPAPSKversion = <{WPA WPA2 WPA+WPA2 [radio_id = <number{0-9999}>]</number{0-9999}></quoted></quoted></quoted></number{0-9999}></pre>	
where:		
ssid_id	ssid id	REQUIRED
ssid	ssid	OPTIONAL
apisolation	ap isolation	OPTIONAL
any	public network	OPTIONAL
secmode	security mode	OPTIONAL
WEPkey	WEP key: expected format 5 or 13 ASCII characters, or 10 or 26 HEX digits.	OPTIONAL
WPAPSKkey	WPA-PSK key: expected format 8 to 63 ASCII characters or 64 HEX digits.	OPTIONAL
WPAPSKversion	wpa version	OPTIONAL
radio_id	radio	OPTIONAL

wireless mssid ifdelete

Delete a ssid context

wireless mssid ifdelete	ssid_id = <number{0-9999}> [radio_id = <number{0-9999}>]</number{0-9999}></number{0-9999}>	
where:		
ssid_id	ssid	REQUIRED
radio_id	radio	OPTIONAL

wireless mssid ifdetach

Detach a ssid context

wireless mssid ifdetach	ssid_id = <number{0-9999}> [radio_id = <number{0-9999}>]</number{0-9999}></number{0-9999}>	
where:		
ssid_id	ssid	REQUIRED
radio_id	radio	OPTIONAL

wireless mssid iflist

Multiple ssid configuration

wireless mssid iflist	[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>]</number{0-9999}></number{0-9999}>	
where:		
ssid_id	ssid	OPTIONAL
radio_id	radio	OPTIONAL

OPTIONAL

wireless qos apacconfig

configure AP EDCA parameters

SYNTAX:

 $radio_id$

wireless qos apacconfig	<pre>[class = <{AC_BE AC_BK AC_V:</pre>	127 255 511 1023 >] 127 255}>]
where:		
class	AC class	OPTIONAL
cwmax	CWmax configuration	OPTIONAL
cwmin	CWmin configuration	OPTIONAL
aifsn	Aifsn configuration	OPTIONAL
txop	txoplimit [us] configuration	OPTIONAL

radio

wireless qos config

configure QoS settings

wireless qos config	<pre>[mode = <{disabled wmm}>] [radio_id = <number{0-9999}>]</number{0-9999}></pre>	
where:		
mode	WMM active	OPTIONAL
radio_id	radio	OPTIONAL

wireless qos staacconfig

configure STA EDCA parameters

wireless qos staacconfig	<pre>[class = <{AC_BE AC_BK AC_VI [cwmax = <{0 1 3 7 15 31 63 2047 4095 8191 16383 32767}> [cwmin = <{0 1 3 7 15 31 63 [aifsn = <number{1-15}>] [txop = <number>] [radio_id = <number{0-9999}></number{0-9999}></number></number{1-15}></pre>	127 255 511 1023] 127 255}>]
where:		
class	AC class	OPTIONAL
cwmax	CWmax configuration	OPTIONAL
cwmin	CWmin configuration	OPTIONAL
aifsn	Aifsn configuration	OPTIONAL
txop	txoplimit [us] configuration	OPTIONAL
radio_id	radio	OPTIONAL

wireless reset

Reset Wireless interface settings to defaults

wireless reset	proceed = <{disabled enabled	}>
where:		
proceed	Confirmation required	REQUIRED

wireless stations list

List of the currently associated stations

wireless stations list	[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>]</number{0-9999}></number{0-9999}>	
where:		
ssid_id	Selected BSS	OPTIONAL
radio_id	radio	OPTIONAL

wireless wps ap_pin

Set/Show the AP pin value

wireless wps ap_pin	[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] [value = <quoted string="">]</quoted></number{0-9999}></number{0-9999}>	
where:		
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
value	pin number	OPTIONAL

wireless wps config

Configure/Show the WPS settings

wireless wps config	[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] [state = <{disabled enabled}>]</number{0-9999}></number{0-9999}>	
where:		
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
state	WPS state	OPTIONAL

wireless wps mode

Set/Show the configuration mode value

SYNTAX:

wireless wps mode	<pre>[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] [state = <{unconfigured configured}>] Displays status information about modem = <{unconfigured configured}></number{0-9999}></number{0-9999}></pre>	
where:		
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
state	configuration modeCommand: xdsl info	OPTIONAL
Displays status information about modem	Syntax : info [expand = <{disabled enabled}>] [g.997.1 = <{disabled enabled}>] [counter_period_filter = <{current 15_minutes 24_hours}>] [counters_reset = <{no yes}>]	REQUIRED

wireless wps mode	<pre>[expand = <{disabled enabled}>] [g.997.1 = <{disabled enabled}>] [counter_period_filter = <{current 15_minutes 24_hours}>] [counters_reset = <{no yes}>]</pre>	
where:		
expand	Condensed / Expanded listing link information	OPTIONAL
g.997.1	Condensed / Expanded listing link information	OPTIONAL
counter_period_filter	Specify the statistics period	OPTIONAL
counters_reset	Reset all counters	OPTIONAL

wireless wps pin

Set the ENROLLEE pin value

wireless wps pin	[ssid_id = <number{0-9999}>] [radio_id = <number{0-9999}>] [value = <quoted string="">]</quoted></number{0-9999}></number{0-9999}>	
where:		
ssid_id	ssid id	OPTIONAL
radio_id	radio	OPTIONAL
value	pin number	OPTIONAL

XDSL COMMANDS

xdsl Commands

xdsl config	Modify/Display dsl configuration	see page 856
xdsl debug bitloadinginfo	Displays # bits per tone	see page 857
xdsl debug deltconfig	Dual Ended Line Testing interface	see page 858
xdsl debug deltinfo	Dual Ended Line Test result display	see page 859
xdsl debug modemoptioninfo	The modem options bitmap display	see page 860
xdsl debug multimode	Config custom multimode	see page 861
xdsl debug traceconfig	Config the adsl tracelevel	see page 862
xdsl version	Display xdsl version information.	see page 863

xdsl config

Modify/Display dsl configuration

xdsl config where:	<pre>[adslmultimode = <{disable adsl adsl adsl2plus}>] [detect-lop = <{disabled enabled}>] [syslog = <{disabled enabled}>] [status = <{down up}>]</pre>	.2
adslmultimode	Set/Show selected multimode type of the modem	OPTIONAL
detect-lop	Detect Loss Of Power	OPTIONAL
syslog	Log in syslog during showtime	OPTIONAL
status	configure adsl line up or down (setting can't be saved!)	OPTIONAL

xdsl debug bitloadinginfo

Displays # bits per tone

xdsl debug deltconfig

Dual Ended Line Testing interface

xdsl debug deltconfig	[state = <{disabled enabled}>]	
where:		
state	Enable/Disable dual ended line testing	OPTIONAL

xdsl debug deltinfo

Dual Ended Line Test result display

xdsl debug modemoptioninfo

The modem options bitmap display

xdsl debug multimode

Config custom multimode

xdsl debug multimode		<pre>[config = <[+/-]flag[+/-flag]{default t1.413issue2 g992.1_annex_a g992.2 g992.5_annex_m}>]</pre>	
where:			
config	The custom multimode bitmap	OPTIONAL	

xdsl debug traceconfig

Config the adsl tracelevel

xdsl debug traceconfig	level = <{0 1 2 3 4}>	
where:		
level	Trace Level (0=disable tracing; 1=enable dsl manager tracing; 2=enable	REQUIRED

xdsl version

Display xdsl version information.