helpell



O2 TG587n v2 CLI Reference Guide r8.4.3.K-BL



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This PDF is produced with the assistance of the community, in the expectation of helping users to more expertly configure their Thomson / Technicolor router. The CLI Commands + Help within these pages have been extracted directly from the relevant model by one of it's users.

For this PDF, you can thank the work of npr + Alex Kemp.

1 August 2012

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Version History:

1 August 2012: v2.0 Added in hidden notification for groups, commands & optional parameters, plus extended the help section.

29 June 2012: v1.0 First version



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help

Each ST/TD/TG router is a GPL Linux micro computer. In addition to all the generic functions provided by the OS, the router contains a proprietary Thomson module designed to interface between. CLI ("Command-Line Interface") commands & the whole of the router. These commands are used to configure the router in specific ways, the end result of which is that—dependant only on the hardware in the specific model, and it's design purpose—each router can be configured to connect via any ISP throughout the world.

This document is a compendium of all the CLI Commands available within a specific ST/TD/TG router with a specific firmware release. This section concerns the <code>:help</code> command; other commands then follow in alphabetical order. Following the sentiment of the <code>help</code> command, these pages will first specify how to access CLI command interfaces, then will get into the meat of the command itself, and finish with a miscellany of ancillary issues.

Access via Web Browser:

The main method suggested for configuring a ST/TD/TG router is via a web browser. The following are the most common access defaults:

IP	Username	Password
192.168.1.254	Administrator	Modem Access Code, or
10.0.0.138		Serial Number
dsldevice.lan	Admin	(printed on the product label, usually fixed to the base or side)
speedtouch.lan		Pre-r8 : (blank) (no password)

The IP used for access via Telnet and/or HTTP/HTTPS and/or FTP can be changed within the router, as indeed—although most rare—can the ports used; if in doubt, contact your supplier.

The Serial Number (s/n) is the most common password with r8 firmware, although the Modem Access Code is sometimes used (see also Access via Telnet for more info). Each is found on the product label, usually fixed to the base or side of the model. Here is an example, drawn from Plusnet web-support:



Ignore any numbers in brackets. Thus, with this example, the default password would be:"CP0752SFB4J".

Below the hood, the router web-pages translate the actions requested into CLI commands, and translate the results of those commands back into further web-pages to show to you. Whilst this process is nice & simple, the range of possible actions via web browser is most limited.





CLI commands can also be issued via FTP (access defaults are generally identical to those via a browser, but on port 21 rather than port 80). The ftp client "arbitrary ftp command" should be used ('quote' with the Windows' generic FTP client), followed by "site CLI-command". Here is a short example using a ST585v6 under Windows XP:

Access via Telnet:

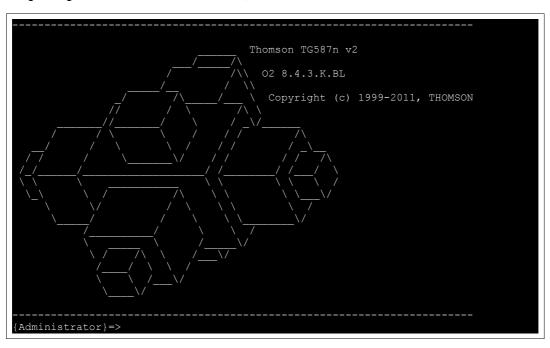
Each ST/TD/TG router contains a Telnet Server, and that is the most complete interface with which to interactively configure the device. That means using a Telnet client program (Modem-Help recommends PuTTY for use under Windows) to connect to the same URL as the web-config pages (access defaults are generally identical to those via a browser or by FTP, but on port 23 rather than port 80 or port 21)

The first thing after access will be a demand for a *username*, followed by the *password* for that username:

- The first important thing to know is that each is cAsE-sEnsItIve.
- The second important thing is that each is normally identical to the username/passwords that can be used for web access & configuration (see above).
- The third important thing is that, whilst web-config pages may give auto-access to a default user with a blank password, Telnet (and FTP) will not. You always have to enter each, even if the password is blank.

Once again, these access IDs can both be changed within the router. Further, different *levels* of access-rights can be granted to different users, allowing those users to be able to see and/or use all, or less than all (including none), of the Commands listed in this reference (this is controlled by the *MLAP* system – see the <code>:mlp commands</code> for further information).

helps m If the username + password are accepted, then you will see the following Splash Screen, with the cursor positioned ready to accept commands (note that, by default, the command prompt includes the username, which here is "Administrator"):



Your very first command could be the following, to stop the system dropping you out after a few minutes of inactivity:

```
{Administrator}=>:env set var=SESSIONTIMEOUT value
```

Typing either ": help" or "?" (no quotes) at the command prompt as above, and pressing the <Enter> key, will produce the following assistance:

```
{Administrator} =>:help
Following commands are available :
help
                 : Displays this help information
                 : Displays menu
menu
                 : Displays this help information
                 : Exits this shell.
exit
                 : Exits group selection.
saveall
                 : Saves current configuration.
                 : Send ICMP ECHO REQUEST packets.
ping
                 : Send ICMP/UDP packets to trace the ip path.
traceroute
Following command groups are available :
contentsharing firewall
                                 printersharing pwr
                                                                  service
                dhcp
                                 dns
                                                  dsd
                                                                  dyndns
eth
                                                  debug
expr
                                 hostmgr
                                                  ids
                                                                  iamp
                grp
interface
                                 ipqos
                                                  label
                                                                  language
mbus
                memm
                                                  mobile
ppp
                pptp
                                 ptrace
                                                  script
software
                statecheck
                                 syslog
                                                  system
                                                  wansensing
                                                                   webserver
                user
gnqu
wireless
                xdsl
```

The same command can be used to precede any command group or individual command to produce more detailed information on that group and/or specific command. In similar fashion, ":menu" can be used alone, or preceding a command group or individual

helpelm command, and will lead into a very useful menu system. Use the arrow + <Tab> keys to navigate the menu commands, and Ctrl-C (both keys at the same time) will back out of it.

One of the more important commands to make note of above is the ":saveall" command. Unlike web-config pages, the results of Telnet commands will NOT be permanently saved to the router, and discarded on restart, until saveall is issued.

Missing Groups, Commands & Optional-Parameters:

There are command groups missing from the listing above. Perhaps the best example is "ar" (the very first command grouping after this section). In similar fashion, some command groups will then have sub-groups missing from their group help listing and, perhaps even worse, some commands may be missing from the help command-listing itself. If a missing group, sub-group or command is known, then ":help missing-group", etc. will show a normal result (although further sub-groups and/or commands and/or optional-parameters may be missing).

Pleased be reassured that, because of the way in which the commands were acquired from the router (and to the best of the author's knowledge), that this document contains all of the groups + commands & parameters within the model at the firmware shown. For this v2 version of the PDF, all missing groups + commands have been added into the Groups and Sub-Group help + missing optional-parameters are added into the command help (each is shown as a "hidden" group/command/parameter – by *italics* or explicitly).

Important Note: You cannot rely on a 'missing' group or command appearing within future firmware updates. A good example is the :ads1 group of commands. That group was superseded when the :xds1 group of commands were introduced, yet the adsl group was maintained (as a 'hidden' group) as late as r8.2.7.7 firmware (e.g. TG784), but is absent from recent model's firmware. Further, ISP-customised firmware may prevent access to certain commands via Telnet (also to certain web-config pages and/or FTP); default Thomson / Technicolor firmware is "Access all areas" to an Administrator from LAN, but many ISPs commission customised firmware that locks *Administrators* out from certain areas (hence the term: 'Locked router'). This has been experienced on this O2 TG587n v2 r8.4.3.K, where the :mlp interaction command stated that the :cwmp group of commands was present, but Telnet responded "Unknown command" to each one. The *mlap* permissions system allows full control over every aspect of access to every feature of the router. Many ISPs lock users out from Telnet & FTP access completely, though it can also be fine-grained, as with this 587nv2.

One further issue to make note of is that some group and/or command and/or parameter help is so succinct (including in one or two cases being completely absent) as to be most unhelpful, which rather defeats the name of the command. If you want to play a pointless game, you can try to guess the common author of various commands from the nature of the help provided. An even better game to play will be to write your own help-with-usefullinks to add to various sections. Refer to Feedback (page 2), and they can be added to all future *Modem-Help* CLI Command PDFs.

The obvious question to ask about these missing commands is, "Why?". There are three obvious answers:- either it is deliberate, or a mistake, or a mixture of both. This author plumps for the latter (never dismiss the 'cock-up' element of history). One feature of Alcatel, and even of Thomson/Technicolor routers, is their superb fine-grained control & debug capabilities, available through these CLI Commands. The downside of that control is

helps !! the scope that it offers to half-trained fools (like this author) to wreak havoc upon the router, and possibly even upon the attached network (LAN or WAN). That can, and has, caused difficult backwash from ISPs towards Thomson in past history, and has led to restriction in the scope of some of these commands (:debug exec is the prime example). The fail-safe behaviour for users of these routers is to be sure to make a backup before any changes, and to keep it safe. A combination of reset-to-factory-default + load-config-file will completely restore any ST/TD/TG router back to it's previous state.

user.ini:

The router config file (default name: user.ini) consists entirely of CLI groups + CLI commands. Together with a small selection of binary and/or text-files—always present in the firmware and, occasionally, also within the router /dl directory (accessible via FTP), which is where the config file lives—the user.ini completely describes the router setup. It is loaded, and the enclosed CLI Commands are run, on every router startup (which means that the mlp problems of the previous section do not apply). In the opinion of many including this author—the user.ini is the best method of running most ST/TD/TG CLI Commands. On a related note, see the :wizard and :language groups for commands that affect Setup Wizards (the end result of a Setup Wizard is to produce a user.ini).

The user.ini is most easily saved & restored via web-config (go Home > SpeedTouch > Configuration > Backup & Restore). Issuing : saveall from Telnet will drop various default config files from firmware into the /dl directory (that dir is the only read-write, user-accessible directory in the router). The user.ini & security.cfq are two prime examples of these files; each will appear within /dl if any changes are made to the default router setup (user.ini) or *mlp* setup (security.cfg). See this user.ini topic for a fuller explanation.

Important Note: some ISPs prevent access to pages that allow the user to save/restore their user.ini. That file is so important to the router & a user's peace of mind, that I would advise boycotting any ISP that acts in such a fashion. Saving the user.ini from a working router means that, whatever happens in the future, it can always be restored to a fullyfunctioning state. Not having access to that function means that any future glitch, no matter how small, can render your router useless, & worthless & non-recoverable.

Telnet Interface Peculiarities:

You can NOT use most of the the *Extended* keyboard (<Home>, <Delete>, etc.).

Use of the back-delete/back-space (by default, 'delete the character at the left') key is peculiar: cursor first to the left-most character that you wish to delete, and then use the back-delete key until all are deleted.

A 'directory' system is maintained, and shown as part of the command prompt; these 'directories' are the command groupings (the base groups were shown earlier). When within one of the *groups* there is no need to enter the base of the group command, but only the rest of the command + any parameters. Wherever your place within these groupings, it is always possible to issue a command from another group by preceding that full-command with a colon (":") (note that this technique is neither necessary, nor can it be used, via FTP).

Finally, the CLI: help command was used to retrieve these Command listings.

ar Commands



ar

Following command groups are available:

group

Note: ar is missing from the ':help' group list

ar Commands



ar group

Following command groups are available:

member



ar group member

Following commands are available:

add : add member delete : delete member

list : members



ar group member add

add member

ntax:	
	ntax:

add username = <{}>

Parameters:

username Required



ar group member delete

delete member

Syntax:

delete username = <{}>

Parameters:

username Required



ar group member list

members

Syntax:

```
list [groupname = <{ (see Parameters) }>]
```

WebsevUser}>

Parameters:

groupname		Optional
	Options: <{root daemon bin sys adm tty disk lp	_
	mail news uucp proxy kmem dialout fax voice	
	cdrom floppy tape sudo audio dip postgres www-	
	data backup operator list irc src gnats shadow	
	utmp video staff games users nogroup	
	SuperUser TechnicalSupport Administrator	
	LAN_Admin PowerUser WAN_Admin	



atm

Following commands are available:

ifadd
ifdelete
Delete an ATM interface.
ifattach
ifdetach
Detach an ATM interface.
ifconfig
Modify an ATM interface.
iflist
Display the ATM interfaces.
flush
Flush all ATM interfaces.

Following command groups are available:

cac debug oam phonebook qosbook



atm cac

Following commands are available:

config : Configure ATM connection admission control.

overbooking : Configure ATM overbooking parameters.

list : List all CAC parameters.



atm cac config

Configure ATM connection admission control.

Syntax:

```
config port = <{(see Parameters)}>
    state = <{disabled|enabled}>
```

Parameters:

port	rt The port for which CAC is configured. Options: <{dslo dsl1 atm2 atm3 aal5 atm5} or number>	
state	Enable/disable CAC for an ATM port.	Required



atm cac list

List all CAC parameters.

Syntax:		
list		



atm cac overbooking

Configure ATM overbooking parameters.

Syntax:

Parameters:

nrt	The non-realtime overbooking percentage.	Optional
rt	The realtime overbooking percentage.	Optional



atm debug

Following commands are available:

 ${\tt traceconfig} \qquad \qquad : \ \ Display/Modify \ AAL5 \ debug \ trace \ configuration.$

portstats : Display port specific atm statistics.

aal5stats : Display AAL5 port specific atm statistics.

gstats : Display ATM global statistics.



atm debug aal5stats

Display AAL5 port specific atm statistics.

Syntax:

retrieved. Options: <{dslo dsl1 atm2 atm3 aal5 atm5} or number> vpi The VPI number for which statistics will be retrieved. clear Clear the statistics after request. Option			
retrieved. clear Clear the statistics after request. Option vci The VCI number for which statistics will be Option	port	retrieved. Options: <{dslo dsl1 atm2 atm3 aal5 atm5} or	Required
vci The VCI number for which statistics will be Option	vpi		Required
r	clear	Clear the statistics after request.	Optional
	vci		Optional



atm debug gstats

Display ATM global statistics.

Syntax:

gstats [clear = <{disabled|enabled}>]

Parameters:

clear Clear the statistics after request. Optional



atm debug portstats

Display port specific atm statistics.

Syntax:

port	port The port for which statistics will be retrieved. Options: <{dslo dsl1 atm2 atm3 aal5 atm5} or number>	
clear	Clear the statistics after the request.	Optional



atm debug traceconfig

Display/Modify AAL5 debug trace configuration.

Syntax:

intf	The name of the ATM interface to configure.	Optional
len	Maximum number of AAL5 payload bytes that will be shown (0-2000, global setting).	Optional
state	Enable/disable AAL5 debug tracing.	Optional



atm flush

Flush all ATM interfaces.

Syntax:		
flush		



atm ifadd

Create a new ATM interface.

Syntax:

ifadd intf = <string>

intf	The name for the new ATM interface. If not specified, the destination will double as interface	Required
	name.	



atm ifattach

Attach an ATM interface.

Syntax:

ifattach intf = <{}>

Parameters:

intf The name of the ATM interface. Required



atm ifconfig

Modify an ATM interface.

Syntax:

intf	The name of the ATM interface to configure.	Required
clp	The mode used to determine the CLP bit value.	Optional
clpthresh	Priority class threshold where CLP becomes o (for all classes >= threshold).	Optional
dest	The WAN destination for this ATM interface. Typically, a phonebook entry.	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 llc encapsulation for mac).	Optional
qos	The name of a qosbook entry defining the QoS parameters for the WAN link.	Optional
retry	The number of times the WAN connection setup should retry before giving up.	Optional
ulp	The upper layer protocol.	Optional



atm ifdelete

Delete an ATM interface.

Syntax:

ifdelete intf = <{}>

Parameters:

intf The name of the ATM interface. Required



atm ifdetach

Detach an ATM interface.

Syntax:

ifdetach intf = <{}>

Parameters:

intf The name of the ATM interface. Required



atm iflist

Display the ATM interfaces.

Syntax:

iflist [intf = <{atm_ppp|atm_dyn|atm_static}>]

Parameters:

intf The name of an ATM interface. Optional



atm oam

Following commands are available:

ping : Send ATM loopback cells.

config : Modify the ATM OAM settings.

modify : Modify the ATM OAM data blocking mode.

list : Display the ATM OAM settings.

Following command groups are available:

cc vclb



atm oam cc

Following commands are available:

modify : Modify CC on the connection.

send : Send CC activate/deactivate to connection.

list : Display CC configuration.



atm oam cc list

Display CC configuration.

Synto	ax:			
lis	st			



atm oam cc modify

Modify CC on the connection.

Syntax:

port	The ATM port number. Options: <{dslo dsl1 atm2 atm3 aal5 atm5} or number>	Required
vpi	The Virtual Path Identifier.	Required
auto	Enable/disable remote CC activation/deactivation.	Optional
receive	Enable/disable loss of continuity.	Optional
span	End2end or segment continuity check.	Optional
transmit	Enable/disable transmission of CC cells.	Optional
vci	The Virtual Channel Identifier.	Optional



atm oam cc send

Send CC activate/deactivate to connection.

Syntax:

```
send port = <{(see Parameters)}>
     vpi = <number{0-31}>
     [action = <{activate|deactivate}>]
[direction = <{source|sink|both}>]
     [span = <{segment|end2end}>]
     [vci = <number{0-511}>]
```

port	The ATM port number. Options: <{dslo dsl1 atm2 atm3 aal5 atm5} or number>	Required
vpi	The Virtual Path Identifier.	Required
action	The CC action.	Optional
direction	Source, sink or both (default: both).	Optional
span	Send CC action end2end or segment.	Optional
vci	The Virtual Channel Identifier.	Optional



atm oam config

Modify the ATM OAM settings.

Syntax:

```
config [clp = <number{0-1}>]
[loopbackid = <string>]
```

clp	The CLP bit value of the OAM cells.	Optional
loopbackid	The loopback id (hexadecimal string) for processing of segment loopback cells.	Optional



atm oam list

Display the ATM OAM settings.

Syntax:		
list		



atm oam modify

Modify the ATM OAM data blocking mode.

Syntax:

```
modify blocking = <{disabled|enabled}>
    port = <{(see Parameters)}>
```

blocking	Enable/disable OAM blocking.	Required
port	The port for which OAM blocking is configured. Options: <{dslo dsl1 atm2 atm3 aal5 atm5} or number>	Required



atm oam ping

Send ATM loopback cells.

Syntax:

```
ping dest = <{pvc_ppp|pvc_dyn|pvc_static}>
    [count = <number{1-1000000}>]
[interval = <number{100-1000000}>]
```

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

Following commands are available:

add
 create a loopback connection for VC
 belete a loopback connection for VC
 List all VC loopback connections



atm oam vclb add

Create a loopback connection for VC

Syntax:

```
add port = <{ (see Parameters) }>
    vpi = <number{0-31}>
    [vci = <number{0-511}>]
```

port	The ATM port number. Options: <{dslo dsl1 atm2 atm3 aal5 atm5} or number>	Required
vpi	The Virtual Path Identifier.	Required
vci	The Virtual Channel Identifier.	Optional



atm oam vclb del

Delete a loopback connection for VC

Syntax:

```
del port = <{ (see Parameters) }>
    vpi = <number{0-31}>
    [vci = <number{0-511}>]
```

port	The ATM port number. Options: <{dslo dsl1 atm2 atm3 aal5 atm5} or number>	Required
vpi	The Virtual Path Identifier.	Required
vci	The Virtual Channel Identifier.	Optional



atm oam vclb list

List all VC loopback connections

Syntax:		
list		



atm phonebook

Following commands are available:

list : Display the phonebook.

add : Add a new phonebook entry.

delete : Delete a phonebook entry.

flush : Flush all phonebook entries.



atm phonebook add

Add a new phonebook entry.

Syntax:

```
add addr = <{(see Parameters)}>
  name = <string>
```

addr The address for this destination. Options: <atmchannel: [port.]vpi.vci="" is="" port="dslo dsl1 " pvc="" syntax=""></atmchannel:>		Required
name	The phonebook name for this destination.	Required



atm phonebook delete

Delete a phonebook entry.

Syntax:

delete name = <{}>

Parameters:

name The name of the phonebook to delete. Required



atm phonebook flush

Flush all phonebook entries.

Syntax:		
flush		



atm phonebook list

Display the phonebook.

Syntax:	
list	



atm qosbook

Following commands are available:

config : Modify the qosbook configuration.

ctdlist : Display all connection traffic descriptors. ctdadd : Add a new connection traffic descriptor.

ctddelete : Delete a connection traffic descriptor.

listaddDisplay the qosbookAdd a new qosbook entry.

deleteflushElete a qosbook entry.Flush all qosbook entries.



atm qosbook add

Add a new qosbook entry.

Syntax:

```
add name = <string>
  [rxctd = <{default}>]
  [txctd = <{default}>]
```

name	The name for the new QoS entry.	Required
rxctd	The name of the CTD for receive (downstream) direction.	Optional
txctd	The name of the CTD for transmit (upstream) direction.	Optional



atm qosbook config

Modify the qosbook configuration.

Su	nt	ax:
~ 9	,,,,	u.

config [format = <{bytes|cells}>]

Parameters:

format The input, output format of the qosbook. Optional



atm qosbook ctdadd

Add a new connection traffic descriptor.

Syntax:

Options: <{UBR CBR VBR.1 UBR.2 UBR.3 VBR.c UBR.mdcr CBR.1 VBR.1 VBR.2 VBR.3 VBR.c VBR.nt VBR.t GFR.1 GFR.2}> name The name for the new CTD entry. Recelldelay Cell delay variation in tenths of microseconds. Option framediscard Enable/disable frame discard. Option maxburst The maximum burst size (in bytes). (VBR or GFR) Option maxframe The maximum frame size (in bytes). (GFR only) Option minrate The minimum rate (in kilobits per second). (UBR.m or GFR) peakrate The peak rate (in kilobits per second). Use 'o' to indicate linerate for UBR. realtime Enable/disable realtime traffic (VBR only). Option		2 40. 40
celldelay Cell delay variation in tenths of microseconds. Operate Celldelay Celldelay variation in tenths of microseconds. Operate Celldelay variation in tenths of microseconds	Required	Options UBR.mo
framediscard Enable/disable frame discard. Opmaxburst The maximum burst size (in bytes). (VBR or GFR) Opmaxframe The maximum frame size (in bytes). (GFR only) Opminrate The minimum rate (in kilobits per second). (UBR.m or GFR) peakrate The peak rate (in kilobits per second). Use 'o' to indicate linerate for UBR. realtime Enable/disable realtime traffic (VBR only). Opming the peak rate (In kilobits per second).	Required	name The nam
maxburst The maximum burst size (in bytes). (VBR or GFR) Opmaxframe The maximum frame size (in bytes). (GFR only) Opminrate The minimum rate (in kilobits per second). (UBR.m or GFR) peakrate The peak rate (in kilobits per second). Use 'o' to indicate linerate for UBR. realtime Enable/disable realtime traffic (VBR only). Opminimum per size (in bytes). (VBR or GFR)	Optional	celldelay Cell dela
maxframe The maximum frame size (in bytes). (GFR only) minrate The minimum rate (in kilobits per second). (UBR.m or GFR) peakrate The peak rate (in kilobits per second). Use 'o' to indicate linerate for UBR. realtime Enable/disable realtime traffic (VBR only). Open	Optional	framediscard Enable/
minrate The minimum rate (in kilobits per second). (UBR.m or GFR) peakrate The peak rate (in kilobits per second). Use 'o' to indicate linerate for UBR. realtime Enable/disable realtime traffic (VBR only). Op	Optional	maxburst The max
(UBR.m or GFR) peakrate The peak rate (in kilobits per second). Use 'o' to Opindicate linerate for UBR. realtime Enable/disable realtime traffic (VBR only). Opindicate linerate for UBR.	Optional	maxframe The max
indicate linerate for UBR. realtime Enable/disable realtime traffic (VBR only). Op	Optional	
	Optional	<u> </u>
sustrate The sustainable rate (in kilobits per second). (VBR Or	Optional	realtime Enable/
only)	Optional	



atm qosbook ctddelete

Delete a connection traffic descriptor.

Syntax:

```
ctddelete name = <{default}>
    [force = <{disabled|enabled}>]
```

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.

Syntax:		
ctdlist		



atm qosbook delete

Delete a qosbook entry.

Syntax:

```
delete name = <{default}>
    [force = <{disabled|enabled}>]
```

name	The name of the qosbook entry to delete.	Required
force	Force delete even when the entry is still in use.	Optional

atm Commands



atm qosbook flush

Flush all qosbook entries.

Syntax:	
flush	

atm Commands



atm qosbook list

Display the qosbook.

Syntax:		
list		



config

Following commands are available:

save
Store current configuration to backup file
load
Load saved or default configuration.
delete
Delete a user configuration file.
flush
Flush the loaded configuration.
list
Show the current configuration set
dump
Show the saved configuration file



config delete

Delete a user configuration file.

Syntax:

delete [filename = <user configuration filename>]

filename	configuration file to erase	Optional
----------	-----------------------------	----------



config dump

Show the saved configuration file

Syntax:		
dump		



config flush

Flush the loaded configuration.

Syntax:

flush [flush_ip = <{enabled|disabled}>]

Parameters:

flush_ip Flush IP settings or not. Optional



config list

Show the current configuration set

Syntax:

list [templates = <{disabled|enabled}>]

templates	list template files	Optional
-----------	---------------------	----------



config load

Load saved or default configuration.

Syntax:

persistent		Hidden
load_ip	Load IP settings or not.	Optional
flush	Flush current configuration before loading new one.	Optional
filename	Configuration filename.	Optional
echo	Echo each command string when loaded.	Optional
defaults	Load default instead of saved configuration.	Optional



config save

Store current configuration to backup file

Syntax:

save filename = <user configuration filename>

filename	Filename f	for backupfile of c	urrent configuration	Required
----------	------------	---------------------	----------------------	----------



connection

Following commands are available:

config
 timerconfig
 Modify global connection configuration.
 Modify connection timeout handling.
 timerclear
 Clear connection timeout to default.
 Display all modules with some info.
 tist
 Display the currently known connections.
 Describe the streams of a connection.
 refresh
 Invalidate all cached decisions.

clear : Kill all connections.

clean : Clean connection database by forcing timeouts. stats : Display connection and stream statistics.

reserve : Reserve connections. release : Release connections.

applistbisplay the available CONN/NAT application helpers.Modify a CONN/NAT application helper configuration

appinfo : Display CONN/NAT application specific info

bindlist
bind
Create a CONN/NAT application helper/port bindings.
unbind
Delete a CONN/NAT application helper/port binding.

flush : Flush the connection configuration. debug : Connection debug commands.

Following command groups are available:

bindblacklist flow



connection appconfig

Modify a CONN/NAT application helper configuration

Syntax:

application	The name of a CONN/NAT application helper as listed by ':connection applist'. Options: <{IP6TO4 PPTP ESP IKE SIP JABBER CU/SeeMe RAUDIO(PNA) RTSP ILS H245 H323 IRC DHCP GAME(UDP) CONE(UDP) LOOSE(UDP) SNMP_TRAP FTP}>	Required
childqos	Used QOS label for the predicted child connections. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional
floating	Enable/disabled floating port for IKE helper.	Optional
proxy	Enable/disable FTP proxy support.	Optional
SIP_ALG		Hidden
snooping	SIP only: Enable/disable snooping	Optional
timeout	The maximum timeout in seconds to keep predicted child connections around.	Optional
trace	Enable/disable CONN/NAT application helper traces.	Optional
tracelevel	SIP only: SIP trace level: 1=feature errors; 2=feature traces; 3=all errors; 4=all traces.	Optional
translate-predict	SIP only: Enable/disable prediction	Optional



connection appinfo

Display CONN/NAT application specific info

Syntax:

```
appinfo application = <{(see Parameters)}>
```

application	The name of a CONN/NAT application helper as listed by ':connection applist'. Options: <{IP6TO4 PPTP ESP IKE SIP JABBER CU/SeeMe RAUDIO(PNA) RTSP ILS H245	Required
	H323 IRC DHCP GAME(UDP) CONE(UDP) LOOSE(UDP) SNMP_TRAP FTP}>	



connection applist

Display the available CONN/NAT application helpers.

Syntax:			
applist			



connection bind

Create a CONN/NAT application helper/port binding.

Syntax:

application	The name of a CONN/NAT application helper as listed by ':connection applist'. Options: <{IP6TO4 PPTP ESP IKE SIP JABBER CU/SeeMe RAUDIO(PNA) RTSP ILS H245 H323 IRC DHCP GAME(UDP) CONE(UDP) LOOSE(UDP) SNMP_TRAP FTP}>	Required
port	The port number or range this application handler should work on.	Optional



connection bindblacklist

Following commands are available:

add
delete
Delete bind blacklist entry.
list
List all bind blacklist entries.



connection bindblacklist add

Add bind blacklist entry.

Syntax:

```
add ip = <ip-address>
  [port = <port-range>]
  [proto = <{ (see Parameters) }>]
```

ip	The source or destination IP address.	Required
port	The port number or range.	Optional
proto	The IP protocol (name or number). Options: <{ah egp esp ggp gre hmp icmp igmp pup rdp rsvp tcp udp vines xns-idp 6to4 ipip} or number>	Optional



connection bindblacklist delete

Delete bind blacklist entry.

Syntax:

```
delete ip = <ip-address>
    [port = <port-range>]
    [proto = <{ (see Parameters) }>]
```

ip	The source or destination IP address.	Required
port	The port number or range.	Optional
proto	The IP protocol (name or number). Options: <{ah egp esp ggp gre hmp icmp igmp pup rdp rsvp tcp udp vines xns-idp 6to4 ipip} or number>	Optional



connection bindblacklist list

List all bind blacklist entries.

Syntax:		
list		



connection bindlist

Display the CONN/NAT application helper/port bindings.

Syntax:	
bindlist	



connection clean

Clean connection database by forcing timeouts.

Syntax:

clean [level = <number $\{0-9\}>$]

Parameters:

level Scrubbing level. Optional



connection clear

Kill all connections.

Syntax:	
clear	



connection config

Modify global connection configuration.

Syntax:

config changemode	Select how config changes are handled.	Optional
probes	Enable/disable alive probes on idle connections.	Optional
safepredicts	Enable/disable safe CONN/NAT application helper predictions (predicted connection must have same IP addresses as its parent).	Optional
udptrackmode	UDP connection tracking mode.	Optional



connection debug

Connection debug commands.

ntax:	
	ntax:

debug [trace = <{disabled|enabled}>]

Parameters:

trace Enable/disable traces. Optional



connection describe

Describe the streams of a connection.

Su	nt	ax:
~ 9	,,,,	u.

describe id = <number{0-4095}>

Parameters:

id The connection ID to describe. Required



connection flow

Following commands are available:

add : Add flow delete : Delete flow

qoslabeladd : Assign qos label to flow
qoslabeldel : Remove qos label from flow

list : List all flows

flush : Flush flow configuration



connection flow add

Add flow

Syntax:

add [name = <string>]

Parameters:

name Flow name. Optional



connection flow delete

Delete flow

Syntax:

delete [flow = <{CWMP|}>]

Parameters:

flow Flow name. Optional



connection flow flush

Flush flow configuration

Syntax:			
flush			



connection flow list

List all flows

Syntax:			
list			



connection flow qoslabeladd

Assign qos label to flow

Syntax:

flow	Flow name.	Optional
qoslabel	Qos label name. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional



connection flow qoslabeldel

Remove qos label from flow

Syntax:

flow	Flow name.	Optional
qoslabel	Qos label name. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional



connection flush

Flush the connection configuration.

Syntax:			
flush			



connection info

Display all modules with some info.

Syntax:	
info	



connection list

Display the currently known connections.

Syntax:

```
list [accelerated = <{false|true}>]
    [application = <{(see Parameters)}>]
        [history = <{disabled|enabled}>]
        [id = <number{0-4095}>]
        [intf = <{(see Parameters)}>]
        [ip = <ip-range>]
        [nr = <number{1-4096}>]
        [port = <port-range>]
        [prioritized = <{false|true}>]
        [proto = <{(see Parameters)}>]
        [qoslabel = <{(see Parameters)}>]
        [reserved = <{false|true}>]
        [routelabel = <{(see Parameters)}>]
```

accelerated	Filter on "A" stream flag.	Optional
application	The name of CONN/NAT application helper. Options: <{IP6TO4 PPTP ESP IKE SIP JABBER CU/SeeMe RAUDIO(PNA) RTSP ILS H245 H323 IRC DHCP GAME(UDP) CONE(UDP) LOOSE(UDP) SNMP_TRAP FTP}>	Optional
history	If enabled, show history.	Optional
id	The connection ID.	Optional
intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
ip	The IP address or range.	Optional
nr	The maximum number of connections to display (30 by default).	Optional
port	The port number or range.	Optional
prioritized	Filter on "P" stream flag.	Optional
proto	The IP protocol (name or number). Options: <{ah egp esp ggp gre hmp icmp igmp pup rdp rsvp tcp udp vines xns-idp 6to4 ipip} or number>	Optional
qoslabel	The QoS label name. Options: <{None Blank DSCP Interactive	Optional

ection Co	mmands	helpelle
	Management Video VoIP-RTP VoIP-Signal default}>	
reserved	Filter on "R" connection flag .	Optional
routelabel	The route label name. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional



connection refresh

Invalidate all cached decisions.

Syntax:	
refresh	



connection release

Release connections.

Syntax:

release [flow = <{CWMP|}>]

Parameters:

flow Flow name. Optional



connection reserve

Reserve connections.

Syntax:

```
reserve [amount = <number>]
    [flow = <{CWMP|}>]
```

amount	Number of connections to reserve for this flow.	Optional
flow	Flow name.	Optional



connection stats

Display connection and stream statistics.

Syntax:			
stats			



connection timerclear

Clear connection timeout to default.

Syntax:

```
timerclear [timer = <{(see Parameters)}>]
```

timer	The name of the connection idle timer. Options: <{tcpidle tcpneg tcpkill udpidle udpkill icmpidle icmpkill ipidle ipkill}>	Optional
	iciiipidie iciiipkiii ipidie ipkiii}>	



connection timerconfig

Modify connection timeout handling.

Syntax:

```
timerconfig [timer = <{(see Parameters)}>]
    [value = <number{0-86400}>]
```

timer	The name of the connection idle timer. Options: <{tcpidle tcpneg tcpkill udpidle udpkill icmpidle icmpkill ipidle ipkill}>	Optional
value	The timer expire value in seconds.	Optional



connection unbind

Delete a CONN/NAT application helper/port binding.

Syntax:

application	The name of a CONN/NAT application helper as listed by ':connection applist'. Options: <{IP6TO4 PPTP ESP IKE SIP JABBER CU/SeeMe RAUDIO(PNA) RTSP ILS H245 H323 IRC DHCP GAME(UDP) CONE(UDP)	Required
nort	LOOSE(UDP) SNMP_TRAP FTP}> The port number or range this application handler	Optional
port	should work on.	Optional



contentsharing

Following command groups are available:

cifs ftp upnpav upnp



contentsharing cifs

Following commands are available:

config : To set CIFS service name, to define CIFS service workgroup

and to enable/disable CIFS service.

: To display CIFS service context.



contentsharing cifs config

To set CIFS service name, to define CIFS service workgroup and to enable/disable CIFS service.

Syntax:

comment	CIFS service description.	Optional
name	CIFS service name.	Optional
state	Enabled/disabled CIFS service.	Optional
workgroup	CIFS workgroup definition.	Optional



contentsharing cifs list

To display CIFS service context.

Synta	ıx:		
list	5		



contentsharing ftp

Following commands are available:

configistTo enable/disable FTP service.To display FTP service context.



contentsharing ftp config

To enable/disable FTP service.

Syntax.	:
---------	---

config [state = <{enabled|disabled}>]

Parameters:

state Enabled/disabled FTP service. Optional



contentsharing ftp list

To display FTP service context.

Syntax:		
list		



contentsharing upnp

Following commands are available:

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

: To display UPnPAV service context.

Following command groups are available:

radiostation

Note: contentsharing upnp is missing from the ':help contentsharing' group list



contentsharing upnp config

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

Syntax:

friendlyname	upnpav friendly name.	Optional
state	Enable/disable UPnPAV service.	Optional



contentsharing upnp list

To display UPnPAV service context.

Syntax:		
list		



contentsharing upnp radiostation

Following commands are available:

config : To enable/disable radiostations service.
list : To display radiostations service context.

Following command groups are available:

station

contentsharing Commands contentsharing upnp radiostation config

To enable/disable radiostations service.

\sim		_		
Sı	ın	tr	IΥ	٠

state	Enabled/disabled radiostations service.	Optional
-------	---	----------



contentsharing upnp radiostation list

To display radiostations service context.

Syntax:	
list	



contentsharing upnp radiostation station

Following commands are available:

add : Add an option.
delete : Delete an option.
list : List all options.



contentsharing upnp radiostation station add

Add an option.

Syntax:

```
add name = <string>
    url = <string>
```

name	station name.	Required
url	station url	Required



contentsharing upnp radiostation station delete

Delete an option.

Syntax:		
delete n	ame = <string></string>	
Parameters	::	
name	station name.	Required



contentsharing upnp radiostation station list

List all options.

Syntax:		
list		



contentsharing upnpav

Following commands are available:

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

: To display UPnPAV service context.

Following command groups are available:

radiostation



contentsharing upnpav config

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

Syntax:

friendlyname	upnpav friendly name.	Optional
state	Enable/disable UPnPAV service.	Optional



contentsharing upnpav list

To display UPnPAV service context.

Syntax:		
list		



contentsharing upnpav radiostation

Following commands are available:

config : To enable/disable radiostations service.
list : To display radiostations service context.

Following command groups are available:

station



contentsharing upnpav radiostation config

To enable/disable radiostations service.

Syntax:		
config [state = <{disabled enabled}>]	
		-
Parameters	<i>:</i>	
state	Enabled/disabled radiostations service.	Optional

contentsharing upnpav radiostation list

To display radiostations service context.

Syntax:			
list			



contentsharing upnpav radiostation station

Following commands are available:

add : Add an option.delete : Delete an option.list : List all options.



contentsharing upnpav radiostation station add

Add an option.

Syntax:

```
add name = <string>
    url = <string>
```

name	station name.	Required
url	station url	Required



Required

contentsharing upnpav radiostation station delete

station name.

Delete an option.

name

Syntax:	
delete name = <string></string>	
Parameters:	



contentsharing upnpav radiostation station list

List all options.

Syntax:			
list			

cwmp Commands



cwmp

Following commands are available:

cmd: Unknown command.(command is hidden): Unknown command.(command is hidden): Unknown command.(command is hidden)

Following command groups are available:

debug notification server

Note: cwmp is missing from the ':help' group list

cwmp Commands

helpell

cwmp cmd

Unknown command.(command is hidden)

Sy	ntax:		
CI	md		



cwmp config

Unknown command.(command is hidden)

Syntax:	
config	



cwmp debug

Following commands are available:

traceconfig : Unknown command.(command is hidden)

Note: cwmp debug is missing from the ':help cwmp' group list



cwmp debug traceconfig

Unknown command.(command is hidden)

Syntax:		
traceconfig		



cwmp notification

Following commands are available:

notifiedparameter : Unknown command.(command is hidden)
rule : Unknown command.(command is hidden)

Note: cwmp notification is missing from the ':help cwmp' group list



cwmp notification notifiedparameter

Unknown command.(command is hidden)

Syntax:

```
notifiedparameter [name = <{ (Missing) }>]
```

Parameters:

name Hidden



cwmp notification rule

Unknown command.(command is hidden)

Syntax:

notification	Hidden
name	Hidden
notification	Hidden



cwmp runtimevar

Unknown command.(command is hidden)

Syntax:		
runtimevar		



cwmp server

Following commands are available:

config : Unknown command.(command is hidden)

Note: cwmp server is missing from the ':help cwmp' group list



cwmp server config

Unknown command.(command is hidden)

Syntax:		
config		

debug Commands



debug

Following commands are available:

exec : Execute a 'Trace & Debug' command. For qualified personnel

only.

dmesg : Show the Linux kernel messages. For qualifies personnel only.

(command is hidden)

debug Commands



debug dmesg

Show the Linux kernel messages. For qualifies personnel only.(command is hidden)

Syntax:			
dmesg			

debug Commands



debug exec

Execute a 'Trace & Debug' command. For qualified personnel only.

Syntax	:			
exec	cmd	=	<quoted< th=""><th>string></th></quoted<>	string>

cmd	Quoted 'Trace & Debug' command string	Required
-----	---------------------------------------	----------



dhcp

Following command groups are available:

client relay rule server spoofing



dhcp client

Following commands are available:

ifadd
 ifattach
 ifconfig
 ifdelete
 Create a DHCP client.
 Configure a DHCP client.
 Delete a DHCP client.

ifdetach : De-activate a DHCP client and releases its lease.

iflistifrenewRenew a DHCP lease.flushDelete all DHCP clients.

Following command groups are available:

debug rqoptions txoptions



dhcp client debug

Following commands are available:

traceconfig : Modify DHCP client trace configuration

stats: Print DHCP client statisticsclear: Clear DHCP client statistics



dhcp client debug clear

Clear DHCP client statistics

Syntax:			
clear			



dhcp client debug stats

Print DHCP client statistics

Syntax:		
stats		



dhcp client debug traceconfig

Modify DHCP client trace configuration

Syntax.	•
---------	---

traceconfig [state = <{disabled|enabled}>]

state	Enable/Disable tracing.	Optional
-------	-------------------------	----------



dhcp client flush

Delete all DHCP clients.

Syntax:		
flush		



dhcp client ifadd

Create a DHCP client.

Syntax:

ifadd intf = <{O2_ADSL|LocalNetwork|Hotspot}>

intf	The name of the interface on which a DHCP Client	Required
	is defined.	



dhcp client ifattach

Activate a DHCP client.

Syntax:

ifattach intf = <>

intf	The name of the interface on which a DHCP Client	Required
	is defined.	



dhcp client ifconfig

Configure a DHCP client.

Syntax:

```
ifconfig intf = <>
         [addr = <{ (missing) }>]
   [broadcast = <{disabled|enabled}>]
    [clientid = <{ (missing) }>]
          [dns = \langle (missing) \rangle \rangle]
   [dnsmetric = < number {0-100}>]
      [domain = <{ (missing) }>]
 [followlabel = <{disabled|enabled}>]
     [gateway = <{ (missing) }>]
    [hostname = <{ (missing) }>]
        [label = <{(see Parameters)}>]
   [leasetime = <{ (missing) }>]
       [metric = < number \{0-255\}>]
 [serverroute = <{disabled|enabled}>]
      [statrt = <{ (missing) }>]
      [userid = <{ (missing) }>]
      [vendor = <{ (missing) }>]
```

intf	The name of the dynamic interface to be configured.	Required
addr		Hidden
broadcast	Operate client in unicast/broadcast mode.	Optional
clientid		Hidden
dns		Hidden
dnsmetric	DNS route metric.	Optional
domain		Hidden
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
gateway		Hidden
hostname		Hidden
label	Label for default gateway and static routes. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional
leasetime		Hidden

metric	Route metric for default gateway and static routes.	Optional
serverroute	Insert a route for the DHCP server IP	Optional
statrt		Hidden
userid		Hidden
vendor		Hidden



dhcp client ifdelete

Delete a DHCP client.

Syntax:

ifdelete intf = <{O2_ADSL2plus|O2_Static}>

intf	The name of the interface on which a DHCP Client	Required
	is defined.	_



dhcp client ifdetach

De-activate a DHCP client and releases its lease.

Syntax:

ifdetach intf = <{02_ADSL2plus|02_Static}>

intf	The name of the interface on which a DHCP Client	Required
	is defined.	



dhcp client iflist

List DHCP clients.

Syntax:

```
iflist [expand = <{disabled|enabled}>]
    [intf = <{02_ADSL2plus|02_Static}>]
```

expand	Expand enabled/disabled.	Optional
intf	The name of the interface on which a DHCP Client is defined.	Optional



dhcp client ifrenew

Renew a DHCP lease.

Syntax:

ifrenew intf = <{02_ADSL2plus|02_Static}>

intf	The name of the interface on which a DHCP Client	Required
	is defined.	



dhcp client rqoptions

Following commands are available:

add
 delete
 Delete a DHCP Option Code to the Parameter Request List.
 Delete a DHCP Option Code from the Parameter Request List.
 List all DHCP Option Codes in the Parameter Request List.

optionlist : List all DHCP Option Codes that can be used in the Parameter

Request List.



dhcp client rqoptions add

Add a DHCP Option Code to the Parameter Request List.

Syntax:

```
add intf = <>
  option = <{ (see Parameters) }>
  [index = <number{0-255}>]
```

is defined. The name or number of the option. Options: <{subnet-mask time-offset default-routers time-servers en16-name-servers domain-name-servers log-servers cookie-servers lpr-servers 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-parameter-request-list dhcp-renewal-time dhcp-rebinding-time nwip-domain nwip-suboptions nisplus-domain nisplus-servers ftp-server-name bootfile-name mobile-ip-home-agent smtp-server pop-server nntp-server www-server finger-server irc-server streettalk-server streettalk-directory-agsistance-server sp-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>	Parameters:		
Options: <{subnet-mask time-offset default-routers time-servers ien16-name-servers domain-name-servers og-servers cookie-servers lpr-servers 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 finger-server irc-server streettalk-server streettalk-directory-assistance-server spl-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>	intf	The name of the interface on which a DHCP Client is defined.	Required
index The index of the option. Optional	option	Options: <{subnet-mask time-offset default-routers time-servers ien116-name-servers domain-name-servers log-servers cookie-servers lpr-servers 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 finger-server irc-server streettalk-server streettalk-directory-assistance-server slp-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-	Required
	index	The index of the option.	Optional



dhcp client rqoptions delete

Delete a DHCP Option Code from the Parameter Request List.

Syntax:

```
delete intf = <>
     option = <{(see Parameters)}>
```

Parameters:		
intf	The name of the interface on which a DHCP Client is defined.	Required
option	The name or number of the option. Options: <{subnet-mask time-offset default-routers time-servers ien116-name-servers domain-name-servers log-servers cookie-servers lpr-servers impress-servers resource-location-servers host-name boot-file-size merit-dump domain-name swap-server root-path extensions-path ipforwarding 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 finger-server irc-server streettalk-server streettalk-directory-assistance-server slp-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>	Required



dhcp client rqoptions list

List all DHCP Option Codes in the Parameter Request List.

Syntax:

intf	The name of the interface on which a DHCP Client	Optional
	is defined.	



dhcp client rqoptions optionlist

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

Syntax:		
optionlist		



dhcp client txoptions

Following commands are available:

add : Add an option.delete : Delete an option.list : List all options.

optionlist : Lists all DHCP Option Codes that can be used.



dhcp client txoptions add

Add an option.

Syntax:

```
add intf = <>
    option = <{ (see Parameters) }>
    value = <{ (see Parameters) }>
    [enterprise = <number{1-2147483647}>]
        [index = <number{0-255}>]
        [suboption = <number{1-254}>]
```

Parameters:

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

Options: <{subnet-mask|time-offset|defaultrouters | time-servers | ien116-name-servers | domainname-servers | log-servers | cookie-servers | lprservers | impress-servers | resource-location-servers | host-name|boot-file-size|merit-dump|domainname|swap-server|root-path|extensions-path|ipforwarding|non-local-source-routing|policy-filter| max-dgram-reassembly|default-ip-ttl|path-mtuaging-timeout|path-mtu-plateau-table|interfacemtu|all-subnets-local|broadcast-address|performmask-discovery mask-supplier router-discovery router-solicitation-address|classfull-static-routes| trailer-encapsulation|arp-cache-timeout|ieee802-3-encapsulation|default-tcp-ttl|tcp-keepaliveinterval|tcp-keepalive-garbage|nis-domain|nisservers|ntp-servers|netbios-name-servers|netbiosdd-server|netbios-node-type|netbios-scope|fontservers|x-display-manager|dhcp-requestedaddress|dhcp-lease-time|dhcp-option-overload| dhcp-max-message-size|dhcp-renewal-time|dhcprebinding-time|vendor-class-id|dhcp-clientidentifier|nwip-domain|nwip-suboptions|nisplusdomain|nisplus-servers|tftp-server-name|bootfilename|mobile-ip-home-agent|smtp-server|popserver|nntp-server|www-server|finger-server|ircserver|streettalk-server|streettalk-directoryassistance-server|user-class-identifier|slpdirectory-agent|slp-service-scope|rapid commit| client-fqdn|internet-storage-name-servers|#84| nds-servers | nds-tree-name | nds-context | #88 |

Comman	nds	he
	#89 } or number>	*
value	The value of the option. Options: <value (type)value;="" 16-bit,="" 32-bit,="" 8-bit,="" :="" addr,ascii,="" being="" byte_array,="" clientid,="" env="" type=""></value>	Required
enterprise	The enterprise number (see http://www.iana.org/assignments/enterprise-numbers)	Optional
index	The index of the (sub)option/enterprise number in the Option List.	Optional
suboption	The suboption number	Optional



dhcp client txoptions delete

Delete an option.

Syntax:

```
delete intf = <>
    option = <{(see Parameters)}>
    [enterprise = <number{1-2147483647}>]
    [suboption = <number{1-254}>]
```

Parameters:

intf	The name of the interface on which a DHCP Client	Required
	is defined.	Required
option	The name or number of the option. Options: <{subnet-mask time-offset default-routers time-servers ien116-name-servers domain-name-servers log-servers cookie-servers lpr-servers 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 netbios-name-servers netbios-dd-server netbios-node-type netbios-scope font-servers x-display-manager dhcp-requested-address dhcp-lease-time dhcp-option-overload dhcp-max-message-size dhcp-renewal-time dhcp-rebinding-time vendor-class-id dhcp-client-identifier 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 finger-server irc-server streettalk-server streettalk-directory-assistance-server user-class-identifier slp-directory-agent slp-service-scope rapid_commit client-fqdn internet-storage-name-servers #84 nds-servers nds-tree-name nds-context #88 #89 } or number>	Required
enterprise	The enterprise number (see	

180

	http://www.iana.org/assignments/enterprise- numbers)	Optional
suboption	The suboption number	Optional



dhcp client txoptions list

List all options.

Syntax:

```
list [expand = <{disabled|enabled}>]
    [intf = <{02_ADSL2plus|02_Static}>]
```

expand	Expand enabled/disabled.	Optional
intf	The name of the interface on which a DHCP Client is defined.	Optional



dhcp client txoptions optionlist

Lists all DHCP Option Codes that can be used.

Syntax:		
optionlist		



dhcp relay

Following commands are available:

ifconfig : Configure a relay interface.

: Show the configuration of the relay interfaces.

add : Add an entry to the DHCP forward list.

delete : Delete an entry from the DHCP forward list.
modify : Modify an entry from the DHCP forward list.

list : List the DHCP forward list.

ruleadd : Add a selection rule to a DHCP forward entry

ruledelete : Delete a selection rule from a DHCP forward entry

config : Sets the relay configuration settings. flush : Flushes the DHCP relay settings.

Following command groups are available:

debug



dhcp relay add

Add an entry to the DHCP forward list.

Syntax:

add name = <string>

name	The forward entry name.	Required
------	-------------------------	----------



dhcp relay config

Sets the relay configuration settings.

Syntax:

```
config [agentinfo = <{disabled|enabled}>]
  [agentmismatch = <{disabled|enabled}>]
```

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

Following commands are available:

traceconfig : Modify DHCP relay trace configuration

stats : Print DHCP relay statistics.



dhcp relay debug stats

Print DHCP relay statistics.

Syntax:			
stats			



dhcp relay debug traceconfig

Modify DHCP relay trace configuration

Su	nt	ax:
\sim 9		

traceconfig [state = <{disabled|enabled}>]

state	Enable/Disable tracing.	Optional
-------	-------------------------	----------



dhcp relay delete

Delete an entry from the DHCP forward list.

Syntax:

```
delete name = <{ (see Parameters) }>
```

name	The forward entry name.	Required
	Options: <{LocalNetwork_to_127.0.0.1	-
	Hotspot_to_Local}>	



dhcp relay flush

Flushes the DHCP relay settings.

Syntax:		
flush		



dhcp relay ifconfig

Configure a relay interface.

Syntax:

```
ifconfig intf = <{ (see Parameters) }>
    [maxhops = <number{0-16}>]
        [relay = <{disabled|enabled}>]
        [remoteid = <password>]
        [trusted = <{disabled|enabled}>]
```

intf	The name of the relay interface to configure. Options: <{Hotspot O2_Static O2_ADSL2plus LocalNetwork O2_ADSL}>	Required
maxhops	Set the maximum number of hops allowed in the DHCP packet.	Optional
relay	Set the relay status.	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 o (RFC3046).	Optional



dhcp relay iflist

Show the configuration of the relay interfaces.

Syntax:

```
iflist [intf = <{(see Parameters)}>]
```

intf	The name of the relay interface.	Optional
	Options: <{Hotspot O2_Static O2_ADSL2plus	-
	LocalNetwork O2_ADSL}>	



dhcp relay list

List the DHCP forward list.

Syntax:

```
list [name = <{ (see Parameters) }>]
```

name	The forward entry name. Options: <{LocalNetwork_to_127.0.0.1	Optional
	Hotspot_to_Local}>	



dhcp relay modify

Modify an entry from the DHCP forward list.

Syntax:

```
modify name = <{ (see Parameters) }>
    [addr = <ip-address>]
    [giaddr = <ip-address>]
    [intf = <{ (see Parameters) }>]
    [script = <>]
```

name	The forward entry name. Options: <{LocalNetwork_to_127.0.0.1 Hotspot_to_Local}>	Required
addr	The DHCP server IP address.	Optional
giaddr	The giaddr field to be used in relayed DHCP packets.	Optional
intf	The name of the relay interface, 'None' to indicate no interface is specified. Options: <{None Hotspot O2_Static O2_ADSL2plus LocalNetwork O2_ADSL}>	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

Syntax:

```
ruleadd name = <{ (see Parameters) }>
    rulename = <>
    [key = <{or|and}>]
```

name	The name of the forward entry. Options: <{LocalNetwork_to_127.0.0.1 Hotspot_to_Local}>	Required
rulename	The name of the DHCP selection rule.	Required
key	The logical key of the selection rule.	Optional



dhcp relay ruledelete

Delete a selection rule from a DHCP forward entry

Syntax:

```
ruledelete name = <{(see Parameters)}>
    rulename = <>
```

name	The name of the forward entry. Options: <{LocalNetwork_to_127.0.0.1 Hotspot_to_Local}>	Required
rulename	The name of the DHCP selection rule.	Required



dhcp rule

Following commands are available:

add : Add a rule for DHCP conditional selection

deletelistList all DHCP rulesflushFlush all DHCP rules

Following command groups are available:

debug



dhcp rule add

Add a rule for DHCP conditional selection

Syntax:

Parameters:		
mac	The mac address. (Can optionally use "!=") Options: <hardware-address '00:9f:aa:*:*:"="" ex:="" wildcard="" with=""></hardware-address>	Required
name	The name of the DHCP rule.	Required
option	The name or number of the option. (Can optionally use "!=") Options: <{subnet-mask time-offset default-routers time-servers ien116-name-servers domain-name-servers log-servers cookie-servers lpr-servers 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 requested-ip dhcp-lease-time dhcp-overload-indication dhcp-msg-type dhcp-server-identifier dhcp-parameter-request-list dhcp-text-msg dhcp-max-msg-size dhcp-renewal-time dhcp-	Required

Comman	ds	helpel
	rebinding-time vendor-class-identifier client-identifier 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 finger-server irc-server streettalk-server streettalk-directory-assistance-server user-class-identifier slp-directory-agent slp-service-scope } or number>	
subrule	The name of the DHCP subrule.	Required
type	Specify the DHCP rule type.	Required
enterprise	The enterprise number (see http://www.iana.org/assignments/enterprise-numbers)	Optional
key	The logical key of the subrule.	Optional
match	The option value matching.	Optional
suboption	The suboption number	Optional
value	The value of the option. Options: <value (type)value;="" :="" addr,="" ascii,="" being="" byte_array,clientid,="" env="" type=""></value>	Optional



dhcp rule debug

Following commands are available:

traceconfig : Modify DHCP rule trace configuration



dhcp rule debug traceconfig

Modify DHCP rule trace configuration

Syntax:

traceconfig [state = <{disabled|enabled}>]

state	Enable/Disable tracing.	Optional
-------	-------------------------	----------



dhcp rule delete

Delete a DHCP rule

Syntax:

```
delete name = <>
  subrule = <>
```

name	The name of the DHCP rule.	Required
subrule	The name of the DHCP subrule.	Required

helpsyl

dhcp rule flush

Flush all DHCP rules

Syntax:			
flush			

helpell

dhcp rule list

List all DHCP rules

Synto	ax:			
lis	st			



dhcp server

Following commands are available:

config : Print DHCP server configuration settings

policy : Print DHCP server policy settings

: Flush all DHCP server pool and lease entries

Following command groups are available:

debug lease option pool



dhcp server config

Print DHCP server configuration settings

Syntax:

config [state = <{disabled|enabled}>]

Parameters:

state Enable/Disable the DHCP server. Optional



dhcp server debug

Following commands are available:

traceconfig : Modify DHCP server trace configuration

stats : Print DHCP server statistics clear : Clear DHCP server statistics



dhcp server debug clear

Clear DHCP server statistics

Syntax:			
clear			



dhcp server debug stats

Print DHCP server statistics

Syntax:			
stats			



dhcp server debug traceconfig

Modify DHCP server trace configuration

traceconfig [state = <{disabled|enabled}>]

state	Enable/Disable tracing.	Optional
-------	-------------------------	----------



dhcp server flush

Flush all DHCP server pool and lease entries

Syntax:		
flush		



dhcp server lease

Following commands are available:

add : Add a DHCP server lease
delete : Delete a DHCP server lease
flush : Flush all DHCP server leases
list : List all DHCP server leases



dhcp server lease add

Add a DHCP server lease

Syntax:

clientid	The DHCP client identification string.	Required
pool	The name of the DHCP server pool. Options: <{LAN_private LAN_Virt Hotspot_Pool}>	Required
addr	The IP address for this client.	Optional
allocation	Define the client IP address allocation method (tip: automatic means the lease can be recycled).	Optional
expirytime		Hidden
gateway	The IP address of the default router for this client.	Optional
leasetime	The time in seconds the client is allowed to use an address (tip: o means infinite leasetime).	Optional
lifetime	The time in seconds the DHCP server keeps the lease reserved (tip: o means infinite lifetime).	Optional
macaddr	The host MAC address.	Optional
offset	The IP address offset in the pool preserved for this client.	Optional



dhcp server lease delete

Delete a DHCP server lease

Syntax:

```
delete [clientid = <clientid>]
        [index = <number>]
```

clientid	The DHCP client identification string.	Optional
index	The DHCP server lease table index.	Optional



dhcp server lease flush

Flush all DHCP server leases

Syntax:

```
flush [pool = <{(see Parameters)}>]
```

pool	The name of the DHCP server pool. Only the leases belonging to this pool will be deleted. Options: <{LAN_private LAN_Virt	Optional
	Hotspot_Pool}>	



dhcp server lease list

List all DHCP server leases

Syntax:

```
list [clientid = <clientid>]
     [expand = <{disabled|enabled}>]
     [index = <number>]
```

clientid	The DHCP client identification string.	Optional
expand	Expand enabled/disabled.	Optional
index	The DHCP server lease table index.	Optional



dhcp server option

Following commands are available:

tmpladd
 Add a DHCP server option template
 tmpldelete
 Delete a DHCP server option template
 tmpllist
 List all DHCP server option templates
 add a DHCP server option instance
 instdelete
 Delete a DHCP server option instance
 instlist
 List all DHCP server option instances

ruleadd
 ruledelete
 flush
 Add a selection rule to a DHCP server option instance
 Delete a selection rule from a DHCP server option instance
 Flush all DHCP server option templates and instances



dhcp server option flush

Flush all DHCP server option templates and instances

Syntax:		
flush		



dhcp server option instadd

Add a DHCP server option instance

Syntax:

```
instadd name = <string>
    tmplname = <>
        value = <{ (see Parameters) }>
        [dynamic = <{disabled|enabled}>]
        [enterprise = <number{1-2147483647}>]
        [maxuse = <number{1-255}>]
        [policy = <{requested|always|rules}>]
        [suboption = <number{1-254}>]
```

name	The name of the DHCP server option instance.	Required
tmplname	The name of the DHCP server option template.	Required
value	The value of the DHCP server option instance. Options: <value (type)value;="" 16-bit,="" 32-bit,="" 8-bit,="" :="" addr,ascii,="" being="" byte_array,="" env="" type=""></value>	Required
dynamic	Enable/Disable option instance as dynamic.	Optional
enterprise	The enterprise number (see http://www.iana.org/assignments/enterprise-numbers)	Optional
maxuse	Maximum number of times an option instance can be used in DHCP pools	Optional
policy	The transmit policy type for the DHCP server option instance.	Optional
suboption	The suboption number	Optional



dhcp server option instdelete

Delete a DHCP server option instance

Syntax:

```
instdelete name = <>
   [enterprise = <number{1--1}>]
   [suboption = <number{1-254}>]
```

name	The name of the DHCP server option instance.	Required
enterprise	The enterprise number (see http://www.iana.org/assignments/enterprise-numbers)	Optional
suboption	The suboption number	Optional



dhcp server option instlist

List all DHCP server option instances

instlist [name = <>]

Parameters:

name The name of the DHCP server option instance. Optional



dhcp server option ruleadd

Add a selection rule to a DHCP server option instance

Syntax:

```
ruleadd name = <>
    rulename = <>
    [key = <{or|and}>]
```

name	The name of the DHCP server option instance.	Required
rulename	The name of the DHCP selection rule.	Required
key	The logical key of the selection rule.	Optional



dhcp server option ruledelete

Delete a selection rule from a DHCP server option instance

Syntax:

```
ruledelete name = <>
    rulename = <>
```

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

Syntax:

```
tmpladd name = <string>
  optionid = <number{1-254}>
  [dynamic = <{disabled|enabled}>]
    [type = <{ (missing) }>]
```

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
type		Hidden



dhcp server option tmpldelete

Delete a DHCP server option template

Syntax:		
tmpldelet	e name = <>	
Parameters:		
name	The name of the DHCP server option template.	Required



dhcp server option tmpllist

List all DHCP server option templates

Syntax:	
tmpllist	



dhcp server policy

Print DHCP server policy settings

Syntax:

```
policy [ackinform = <{disabled|enabled}>]
    [rtbehaviour = <{traditional|standard|msft}>]
    [trustclient = <{disabled|enabled}>]
    [verifyfirst = <{disabled|enabled}>]
```

Enable/Disable DHCP inform acknowledgement for an unknown lease	Optional
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
Whether or not the IP address suggested by a DHCP client should be taken into account.	Optional
Enable/Disable IP address conflict network probing before handing out an address to a client.	Optional
	for an unknown lease 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 Whether or not the IP address suggested by a DHCP client should be taken into account. Enable/Disable IP address conflict network



dhcp server pool

Following commands are available:

add : Add a DHCP server pool

config : Configure a DHCP server pool delete : Delete a DHCP server pool

rtaddAdd a route to the DHCP server poolrtdeleteDelete a route from the DHCP server pool

optadd : Add an option instance to the DHCP server pool optdelete : Delete an option instance from the DHCP server pool

ruleadd : Add a selection rule to the DHCP server poolruledelete : Delete a selection rule from the DHCP server pool

flush : Flush all DHCP server pools list : List all DHCP server pools



dhcp server pool add

Add a DHCP server pool

Syntax:

```
add name = <string>
  [index = <number>]
```

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:

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

name	The name of the DHCP server pool. Options: <{LAN_private LAN_Virt Hotspot_Pool}>	Required
allocation	Define the DHCP Server's pool allocation method (tip: automatic means the IP address becomes reserved for the lease).	Optional
dnsmetric		Hidden
gateway	The IP address of the default router for DHCP clients.	Optional
index	The number of the pool before which you want the new pool to be added.	Optional
intf	The interface for which the pool is allowed to lease IP addresses. Options: <{O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional

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



dhcp server pool delete

Delete a DHCP server pool

Syntax:

delete name = <{LAN_private|LAN_Virt|Hotspot_Pool}>

name	The name of the DHCP server pool.	Required
------	-----------------------------------	----------



dhcp server pool flush

Flush all DHCP server pools

Syntax:		
flush		



dhcp server pool list

List all DHCP server pools

Syntax:

list [name = <{LAN_private|LAN_Virt|Hotspot_Pool}>]

name	The name of the DHCP server pool.	Optional
------	-----------------------------------	----------



dhcp server pool optadd

Add an option instance to the DHCP server pool

Syntax:

```
optadd instname = <>
    name = <{ (see Parameters) }>
```

instname	The name of the DHCP server option instance.	Required
name	The name of the DHCP server pool. Options: <{LAN_private LAN_Virt Hotspot_Pool}>	Required



dhcp server pool optdelete

Delete an option instance from the DHCP server pool

Syntax:

```
optdelete instname = <>
    name = <{ (see Parameters) }>
```

instname	The name of the DHCP server option instance.	Required
name	The name of the DHCP server pool. Options: <{LAN_private LAN_Virt Hotspot_Pool}>	Required



dhcp server pool rtadd

Add a route to the DHCP server pool

Syntax:

```
rtadd dst = <ip-address>
    name = <{LAN_private|LAN_Virt|Hotspot_Pool}>
    [dstmsk = <ip-mask(dotted or cidr)>]
    [gateway = <ip-address|0>]
```

dst	The IP destination address of the route for DHCP clients.	Required
name	The name of the DHCP server pool.	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

Syntax:

```
rtdelete dst = <ip-address>
    name = <{ (see Parameters) }>
    [dstmsk = <ip-mask(dotted or cidr)>]
    [gateway = <ip-address|0>]
```

The IP destination address of the route for DHCP clients.	Required
The name of the DHCP server pool. Options: <{LAN_private LAN_Virt Hotspot_Pool}>	Required
The destination IP address mask.	Optional
The IP address of the next hop. Must be directly connected to the DHCP client	Optional
	clients. The name of the DHCP server pool. Options: <{LAN_private LAN_Virt Hotspot_Pool}> The destination IP address mask. The IP address of the next hop. Must be directly



dhcp server pool ruleadd

Add a selection rule to the DHCP server pool

Syntax:

```
ruleadd name = <{ (see Parameters) }>
    rulename = <>
    [key = <{or|and}>]
```

name	The name of the DHCP server pool. Options: <{LAN_private LAN_Virt Hotspot_Pool}>	Required
rulename	The name of the DHCP selection rule.	Required
key	The logical key of the selection rule.	Optional



dhcp server pool ruledelete

Delete a selection rule from the DHCP server pool

Syntax:

```
ruledelete name = <{(see Parameters)}>
    rulename = <>
```

name	The name of the DHCP server pool. Options: <{LAN_private LAN_Virt Hotspot_Pool}>	Required
rulename	The name of the DHCP selection rule.	Required



dhcp spoofing

Following commands are available:

config : Display/modify dhcp spoofing state

add
delete
Delete a Spoofing-Association
attach
Enable a Spoofing-Association
detach
Disable a Spoofing-Association

: List the available Spoofing-Associations

option-add : Add a DHCP Option Code to a Spoofing-Association.
option-delete : Delete a DHCP Option Code from a Spoofing-Association.

flush : Flush all the associations and the options.

Following command groups are available:

debug



dhcp spoofing add

Add a Spoofing-Association

Syntax:

```
add ifname = <{02_ADSL2plus|02_Static}>
    name = <string>
    pool_name = <{LAN_private|LAN_Virt|Hotspot_Pool}>
```

ifname	The name of the interface on which a DHCP Client is defined.	Required
name	The name of the Association.	Required
pool_name	The name of the pool to be associated.	Required



dhcp spoofing attach

Enable a Spoofing-Association

Syntax:

attach name = <{|||}>

Parameters:

name The name of the Association. Required



dhcp spoofing config

Display/modify dhcp spoofing state

Syntax:

config [state = <{enabled|disabled}>]

Parameters:

state Enable/Disable spoofing. Optional



dhcp spoofing debug

Following commands are available:

traceconfig : Display/modify DHCP spoofing trace configuratin



dhcp spoofing debug traceconfig

Display/modify DHCP spoofing trace configuratin

Syntax.	•
---------	---

traceconfig [state = <{disabled|enabled}>]

state	Enable/Disable tracing.	Optional
-------	-------------------------	----------



dhcp spoofing delete

Delete a Spoofing-Association

Syntax:

delete name = <{|||}>

Parameters:

name The name of the Association. Required



dhcp spoofing detach

Disable a Spoofing-Association

Syntax:

detach name = <{|||}>

Parameters:

name The name of the Association. Required



dhcp spoofing flush

Flush all the associations and the options.

Syntax:		
flush		



dhcp spoofing list

List the available Spoofing-Associations

Syntax:

name The name of the Association.	Optional
-----------------------------------	----------



dhcp spoofing option-add

Add a DHCP Option Code to a Spoofing-Association.

Syntax:

```
option-add name = <{|||}>
    option = <number>
```

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.

Syntax:

```
option-delete name = <{|||}>
    option = <number>
```

name	The name of the Association.	Required	
option	The option id.	Required	



diag

Following commands are available:

config: Configure diagnostics settingsifhide: Specify interfaces to hide

iflist : List (dynamically generated at webpage load) of all interfaces

to be diagnosed (debug command)

ifconfig : Configure pingoption and/or ip-address for connection

flush : Flush all hidden interfaces and ifconfigurations

Note: diag is missing from the ':help' group list



diag config

Configure diagnostics settings

Syntax:

pingpacketsize	ping packet size (in bytes incl.icmp header)	Optional
pingtimeout	pingtimeout (in msec.)	Optional



diag flush

Flush all hidden interfaces and ifconfigurations

Syntax:			
flush			



diag ifconfig

Configure pingoption and/or ip-address for connection

Syntax:

```
ifconfig ifname = <string>
    [ipaddress = <ip-address>]
        [ping = <{yes|no}>]
```

ifname	interfacename	Required
ipaddress	ping ipaddress	Optional
ping	pingoption	Optional



diag ifhide

Specify interfaces to hide

Syntax:

ifhide ifname = <string>

Parameters:

ifname interfacename Required



diag iflist

List (dynamically generated at webpage load) of all interfaces to be diagnosed (debug command)

Syntax:	
iflist	



dns

Following command groups are available:

client server



dns client

Following commands are available:

dnsadddnsdeletednslistAdd a DNS server.Delete a DNS server.List all DNS servers.

config : Modify the DNS resolver configuration.

nslookup : DNS lookup for a domain name or an address.

flush : Remove all DNS servers.



dns client config

Modify the DNS resolver configuration.

Syntax:

```
config [list = <string>]
    [retry = <number{0-10}>]
    [search = <{disabled|enabled}>]
    [state = <{disabled|enabled}>]
    [timeout = <number{1-900}>]
    [trace = <{disabled|enabled}>]
```

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



dns client dnsadd

Add a DNS server.

Syntax:

```
dnsadd addr = <string>
    [port = <number>]
```

addr	The DNS server IP address.	Required
port	The DNS server port number.	Optional



dns client dnsdelete

Delete a DNS server.

Syntax:

dnsdelete index = <number{1-99}>

index	The index number (shown by the 'list' command) of	Required
	the server to delete.	



dns client dnslist

List all DNS servers.

Syntax:		
dnslist		



dns client flush

Remove all DNS servers.

Syntax:		
flush		



dns client nslookup

DNS lookup for a domain name or an address.

Syntax:

nslookup host = <string>

Parameters:

host The DNS domain name string to query. Required



dns server

Following commands are available:

config : DNS server configuration settings flush : Flush all local DNS hosts and routes.

Following command groups are available:

debug host route



dns server config

DNS server configuration settings

Syntax:

```
config [domain = <string>]
        [state = <{disabled|enabled}>]
        [suppress = <number{0-400}>]
        [syslog = <{disabled|enabled}>]
        [timeout = <number{0-120}>]
        [trace = <{disabled|enabled}>]
[WANDownSpoofing = <{disabled|enabled}>]
[WDSpoofedIP = <ip-address>]
```

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



dns server debug

Following commands are available:

statsclearPrint the DNS server/forwarder statistics.Clear the DNS server/forwarder statistics.

Following command groups are available:

spoof



dns server debug clear

Clear the DNS server/forwarder statistics.

Syntax:	
clear	



dns server debug spoof

Following commands are available:

clear : Clear the intercept cache table list : List the intercept cache table.

getflags : Get the error flags for the given spoofed ip getaddress : Get the real ip for the given spoofed ip

update : update the intercept cache table



dns server debug spoof clear

Clear the intercept cache table

Syntax:		
clear		



dns server debug spoof getaddress

Get the real ip for the given spoofed ip

Su	nt	ax:
~ 9	,,,,	u.

getaddress addr = <ip-address>

addr	The spoofed ip to look up.	Required



dns server debug spoof getflags

Get the error flags for the given spoofed ip

Syntax:

getflags addr = <ip-address>

Parameters:

addr The spoofed ip to look up. Required



dns server debug spoof list

List the intercept cache table.

Syntax:	
list	



dns server debug spoof update

update the intercept cache table

Syntax:	
update	



dns server debug stats

Print the DNS server/forwarder statistics.

Syntax:			
stats			



dns server flush

Flush all local DNS hosts and routes.

Syntax:		
flush		



dns server host

Following commands are available:

add
delete
Delete a local DNS host
flush
Flush all local DNS hosts
list
List all local DNS hosts



dns server host add

Add a local DNS host

Syntax:

```
add name = <string>
  [addr = <ip-address>]
  [ttl = <number>]
```

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

ntax:	
	ntax:

delete name = <string>

Parameters:

name The name of an IP host to delete. Required



dns server host flush

Flush all local DNS hosts

Syntax:			
flush			



dns server host list

List all local DNS hosts

Syntax:			
list			



dns server route

Following commands are available:

addcreates a DNS forwarding entry or templatedeleteDeletes a DNS forwarding entry or template

flushRemoves all DNS forwarding entries and templatesLists all DNS forwarding entries and templates



dns server route add

Creates a DNS forwarding entry or template

Syntax:

```
add dns = <ip-address>
  [domain = <string>]
    [intf = <{ (see Parameters) }>]
    [label = <{ (see Parameters) }>]
  [metric = <number{0-100}>]
    [src = <ip-address>]
  [srcmask = <ip-mask(dotted or cidr)>]
```

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
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
intf	The interface associated with the DNS entry or DNS Template. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
label	The label associated with the DNS entry or DNS Template. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	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
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



dns server route delete

Deletes a DNS forwarding entry or template

Syntax:

```
delete dns = <ip-address>
  [domain = <string>]
  [intf = <{ (see Parameters) }>]
```

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. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional



dns server route flush

Removes all DNS forwarding entries and templates

Syntax:			
flush			

dns Commands



dns server route list

Lists all DNS forwarding entries and templates

Syntax:		
list		

dsd Commands



dsd

Following commands are available:

config : Display/modify DSD framework configuration

Following command groups are available:

debug intercept syslog urlfilter

dsd Commands



dsd config

Display/modify DSD framework configuration

Syntax:

config [state = <{disabled|enabled|automatic}>]

state	DSD framework operation mode	Optional
-------	------------------------------	----------



dsd debug

Following commands are available:

config : Display/modify DSD debug settings

stats : Display/clear DSD framework and module statistics

recycling : Display/modify HTTPI recycling settings proxy : Display/modify HTTPI fixed proxy settings

Following command groups are available:

connection



dsd debug config

Display/modify DSD debug settings

Syntax:

config [turbomode = <{disabled|enabled}>]

Parameters:

turbomode Enable/disable turbomode Optional



dsd debug connection

Following commands are available:

list : Display internal connection pool usage



dsd debug connection list

Display internal connection pool usage

Syn	tax:
$\sim 9^{11}$	·u.

list [expand = <{disabled|enabled}>]

expand Expanded fishing. Optional	expand	Expanded listing.	Optional
-----------------------------------	--------	-------------------	----------



dsd debug proxy

Display/modify HTTPI fixed proxy settings

Syntax:

```
proxy [dest = <ip-address>]
     [port = <{ (see Parameters) }>]
     [state = <{disabled|enabled}>]
```

dest	Destination IP where requests will be forwarded to	Optional
port	Port used for connecting to the proxy IP Options: <{undefined at-echo at-nbp at-rtmp at- zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
state	Enable/disable fixed proxy redirecting	Optional



dsd debug recycling

Display/modify HTTPI recycling settings

Syntax:

```
recycling [httpidle = <number>]
        [interval = <number>]
        [otheridle = <number>]
        [state = <{disabled|enabled}>]
```

httpidle	Minimal idle count for recycling (filtered) http streams	Optional
interval	Time between successive activity checks	Optional
otheridle	Minimal idle count for recycling other streams	Optional
state	Enable/disable stream recycling	Optional



dsd debug stats

Display/clear DSD framework and module statistics

Syntax:

clear	Clear the specified statistics	Optional
name	Specify the name of a module Options: <{intercept urlfilter recycling syslog all}>	Optional



dsd intercept

Following commands are available:

config : Display/modify HTTP Intercept configuration



dsd intercept config

Display/modify HTTP Intercept configuration

Syntax:

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

alwaysuseip	Always use ip address when redirecting to a local page	Optional
categoryerrorurl	Destination url when connection to category server failed	Optional
connecterrorurl	Destination url when connection to server failed	Optional
imageredirect	Enable/disable substituting blocked images	Optional
imageredirecturl	URL of image used when substituting blocked images	Optional
monitorintercept url	Destination url when request is intercepted by monitor thread	Optional
servertimeout	Server timeout for redirect action	Optional
unauthorizedreq url	Destination url when requested url is blocked by some rule or setting	Optional
WDSpoofedIP	IP address indicating unavailable WAN connection.	Optional
" Doposicum	ii address maleating anavanable with connection,	opti

dsd Commands



dsd syslog

Following commands are available:

config : Display/modify HTTPI logging configuration

list : Display HTTPI log file



dsd syslog config

Display/modify HTTPI logging configuration

Syntax:

```
config [syslog = <{(see Parameters)}>]
```

syslog	Define which type of events to log Options: <{none unauthorized errors intercepted	Optional
	all}>	

dsd Commands



dsd syslog list

Display HTTPI log file

Syntax:			
list			

dsd Commands



dsd urlfilter

Following commands are available:

config : Display/modify url filtering configuration

Following command groups are available:

rule



dsd urlfilter config

Display/modify url filtering configuration

Syntax:

```
config [blockipaddress = <{disabled|enabled}>]
    [blockobscuredip = <{disabled|enabled}>]
        [blockproxy = <{disabled|enabled}>]
        [defaultaction = <{block|accept}>]
        [state = <{disabled|enabled}>]
```

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
blockproxy	Block HTTP requests via a proxy server	Optional
defaultaction	Action to perform when no filter applicable.	Optional
state	Enable/disable url filtering	Optional



dsd urlfilter rule

Following commands are available:

add : Add a rule delete : Remove a rule

modify : Modify an existing rule list : Display a list of current rules flush : Remove all current rules



dsd urlfilter rule add

Add a rule

Syntax:

```
add action = <{block|accept|redirect}>
  redirect = <string>
    url = <string>
```

action	Action to perform when url matches url	Required
redirect	Redirection url	Required
url	Definition of the url filter	Required



dsd urlfilter rule delete

Remove a rule

Syntax:

```
delete index = <number>
    [url = <string>]
```

index	Insertion position in the list	Required
url	Definition of the url filter	Optional

dsd Commands



dsd urlfilter rule flush

Remove all current rules

Syntax:		
flush		

dsd Commands



dsd urlfilter rule list

Display a list of current rules

Syntax:		
list		



dsd urlfilter rule modify

Modify an existing rule

Syntax:

```
modify action = <{block|accept|redirect}>
    index = <number>
    redirect = <string>
    [newurl = <string>]
```

action	Action to perform when url matches url	Required
index	Insertion position in the list	Required
redirect	Redirection url	Required
newurl	Definition of the new url filter	Optional



dyndns

Following commands are available:

add : Add a dynamic DNS client.
modify : Modify a dynamic DNS client.
delete : Delete a dynamic DNS client.
flush : Delete all dynamic DNS clients.
list : List all dynamic DNS clients.

Following command groups are available:

host service



dyndns add

Add a dynamic DNS client.

Syı	nta:	x:
~ 9	iiu.	•

add name = <string>

name	The dynamic DNS client name.	Required
------	------------------------------	----------



dyndns delete

Delete a dynamic DNS client.

Syı	nta:	x:
~ 9	iiu.	•

delete name = <>

Parameters:

name The dynamic DNS client name. Required



dyndns flush

Delete all dynamic DNS clients.

Syntax:		
flush		



dyndns host

Following commands are available:

add : Add a fully qualified host name

deleteflushlistDelete a host nameDelete all host namesList all host names



dyndns host add

Add a fully qualified host name

Syntax:

```
add group = <> name = <string>
```

group	The dynamic DNS host group.	Required
name	The name of an IP host to add.	Required



dyndns host delete

Delete a host name

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וה	H	LU	ΙX	

delete name = <>

name	The name of an IP host to delete.	Required
------	-----------------------------------	----------



dyndns host flush

Delete all host names

Syntax:		
flush		



dyndns host list

List all host names

Syntax:			
list			



dyndns list

List all dynamic DNS clients.

Syntax:		
list		



dyndns modify

Modify a dynamic DNS client.

Syntax:

```
modify name = <>
    [backmx = <{disabled|enabled}>]
    [group = <>]
        [intf = <{02_ADSL|02_ADSL2plus|02_Static}>]
        [mx = <string>]
        [offline = <{disabled|enabled}>]
        [password = <password>]
        [service = <{ (see Parameters) }>]
        [status = <{disabled|enabled}>]
        [trace = <{disabled|enabled}>]
        [user = <string>]
        [wildcard = <{disabled|enabled}>]
```

name	The dynamic DNS client name.	Required
backmx	Set up the mail exchanger as a backup MX.	Optional
group	The dynamic DNS host group.	Optional
intf	The dynamic DNS client interface.	Optional
mx	The mail exchanger.	Optional
offline	Set the host to offline mode.	Optional
password	The password for dynamic DNS authentication.	Optional
service	The dynamic DNS service. Options: <{dyndns statdns custom No-IP DtDNS gnudip}>	Optional
status	Enable/Disable the dynamic DNS client.	Optional
trace	Enable/Disable the verbose console logging for the dynamic DNS client.	Optional
user	The username for dynamic DNS authentication.	Optional
wildcard	Allow use of hostname wildcards.	Optional



dyndns service

Following commands are available:

modify : Modify specific dynamic DNS service settings

: List all dynamic DNS services



dyndns service list

List all dynamic DNS services

Syntax:	
list	



dyndns service modify

Modify specific dynamic DNS service settings

Syntax:

I an anteter or		
name	The dynamic DNS service. Options: <{dyndns statdns custom No-IP DtDNS gnudip}>	Required
max_retry	The maximum number of retries if communication with the dynamic DNS server fails.	Optional
port	The dynamic DNS server port. Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
request	The dynamic DNS request string.	Optional
retryinterval	Number of seconds between retries if communication with the dynamic DNS server fails (The value o means disabled).	Optional
server	The dynamic DNS server hostname.	Optional
updateinterval	Number of seconds before a dynamic update is sent to the dynamic DNS server (The value o means disabled).	Optional



env

Following commands are available:

set
get
Gets an environment variable.
unset
Deletes an environment variable.
list
List all environment variables.

flush
 def
 hash
 Remove all non-system environment variables.
 Define an environment variable(command is hidden)
 transfer variable by hash algrithm.(command is hidden)

helpsyllin

env def

Define an environment variable(command is hidden)

Syntax:

```
def type = <{(see Parameters)}>
    var = <string>
    [alias = <translated string>]
    [calc = <quoted string>]
    [datias = <translated string>]
    [data = <quoted string>]
    [default = <quoted string>]
    [desc = <translated string>]
    [grp = <string>]
    [help = <translated string>]
    [linkvar = <string>]
    [max = <number>]
    [min = <number>]
    [req <{no|yes}>]
```

type	type of the variable Options: <{string passw integer combo list radioset bool ipaddr ipmask passwcheck label hex grp}>	Required
var	Variable name : name of variable or group	Required
alias	user friendly name for field or group	Optional
calc	host wizard related stuff, ignored here	Optional
dalias	user friendly names for data values	Optional
data	list of values, used in configuration file	Optional
default	a default value field for variable	Optional
desc	Description text, help text	Optional
grp	Group name in case variable is defined	Optional
help	Addtional help text (only for group description	Optional
linkvar	to which variable this variable is linked to (only for passwcheck)	Optional
max	maximum value in case type is integer	Optional
min	minumum value in case type is integer	Optional
req	parameter without value: to indicate a required field	Optional



env flush

Remove all non-system environment variables.

Syntax:		
flush		

helpsyl

env get

Gets an environment variable.

Syntax:

```
get var = <{(see Parameters)}>
```

var	The name of the variable.	Required
	Options: <{_SW_FLAG _ETHERNET	
	_COMPANY_NAME _COMPANY_URL	
	_PROD_NAME _BRAND_NAME _PROD_URL	
	_PROD_DESCRIPTION _PROD_NUMBER	
	_SSID_SERIAL_PREFIX	
	_BOARD_SERIAL_NBR _PROD_SERIAL_NBR	
	_FII _BUILD _BOOTLOADER_VERSION	
	_BUILDVARIANT _OUI _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_o	
	_WL_VERSION _WLo_WEPKEY_SERIAL	
	_WLo_WPAKEY_SERIAL _WLo_SSID_SERIAL	
	_WLo_SSID_PREFIX _WLo_BASE52_SERIAL _WLo_MAC_POSTFIX _WLo_PIN_SERIAL	
	_WLO_MAC_POSTFIX _WLO_PIN_SERIAL _WLo_UUID_E_SERIAL	
	_WLO_UUID_R_SERIAL	
	WL1 WEPKEY SERIAL	
	_WL1_WPAKEY_SERIAL _WL1_SSID_SERIAL	
	_WL1_BASE52_SERIAL _WL1_PIN_SERIAL	
	WL1 UUID E SERIAL	
	_WL1_UUID_R_SERIAL	
	WL2 WEPKEY SERIAL	
	WL2_WPAKEY_SERIAL _WL2_SSID_SERIAL	
	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|
CONF_COND_ENCRYPT|
_SNTPPOLL_POST_SYNC|
_SNTPPOLL_PRE_SYNC|
_ADSL_EOC_VERSION|_EOC_MSG|
CONF_REGION|CONF_PROVIDER|
CONF_DESCRIPTION|HOST_SETUP|
HOST_LANGUAGE|CONF_VERSION|
COLUMNS|ROWS|CONF_SERVICE|
@CWMPUSER|WLo_SSID_PREFIX_CUSTOM|
WL1_SSID_PREFIX_CUSTOM|
@WL2_SSID_PREFIX_CUSTOM|@WL3_SSID_PREFIX_CUSTOM|
@WL3_SSID_PREFIX_CUSTOM|@WL0_SSID|
@WL1_SSID|@WL2_SSID}>



env hash

Transfer variable by hash algrithm.(command is hidden)

Syntax:

```
hash crypto = <{MD2|MD5|SHA1|SHA256|SHA512}>
    dest = <string>
    len = <number{0-128}>
    src = <string>
```

crypto	The selection of encryption.	Required
dest	The name of the destinate variable.	Required
len	The length to get.	Required
src	The values of the source	Required



env list

List all environment variables.

Syntax:			
list			



env set

Sets an environment variable.

Syntax:

```
set value = <translated string>
   var = <string>
```

value	A translated quoted string defining the variable value.	Required
var	The name of the variable.	Required

helpsyl

env unset

Deletes an environment variable.

Syntax:

```
unset var = <{(see Parameters)}>
```

var	The name of the variable.	Required
vai	Options: <{ SW FLAG ETHERNET	required
	_COMPANY_NAME _COMPANY_URL	
	PROD NAME BRAND NAME PROD URL	
	_PROD_DESCRIPTION _PROD_NUMBER	
	_SSID_SERIAL_PREFIX	
	_BOARD_SERIAL_NBR _PROD_SERIAL_NBR	
	_FII _BUILD _BOOTLOADER_VERSION	
	_BUILDVARIANT _OUI _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_o	
	WL VERSION WLO 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	
	WL1 WEPKEY SERIAL	
	_WL1_WPAKEY_SERIAL _WL1_SSID_SERIAL	
	_WL1_UUID_E_SERIAL	
	_WL1_UUID_R_SERIAL	
	WL2 WEPKEY SERIAL	
	_WL2_WPAKEY_SERIAL _WL2_SSID_SERIAL	
	_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|
CONF_COND_ENCRYPT|
_SNTPPOLL_POST_SYNC|
_SNTPPOLL_PRE_SYNC|
_ADSL_EOC_VERSION|_EOC_MSG|
CONF_REGION|CONF_PROVIDER|
CONF_DESCRIPTION|HOST_SETUP|
HOST_LANGUAGE|CONF_VERSION|
COLUMNS|ROWS|CONF_SERVICE|
@CWMPUSER|WLo_SSID_PREFIX_CUSTOM|
WL1_SSID_PREFIX_CUSTOM|
@WL2_SSID_PREFIX_CUSTOM|
@WL3_SSID_PREFIX_CUSTOM|@WL0_SSID|
@WL1_SSID|@WL2_SSID}>

eth Commands



eth

Following commands are available:

ifadd
ifdelete
Delete an ETH interface.
ifattach
ifdetach
Detach an ETH interface.
ifconfig
Modify an ETH interface.
iflist
Display the ETH interfaces.
flush
Flush all ETH interfaces.

Following command groups are available:

device filter bridge switch vlan



eth bridge

Following commands are available:

config : Modify/Display the bridge configuration settings.

ippriomapippriomapresetReset the IP priority mappings to its defaults.

: Display the current bridge instances.

add : Add a new bridge instance.delete : Delete a bridge instance.

select : Select the default bridge for configuring interfaces from (if not

setting bridge name, for legacy purposes).

ifadd
ifdelete
ifattach
ifdetach
Delete a bridge interface.
Attach a bridge interface.
ifdetach
Detach a bridge interface.

ifconfig : Modify a bridge interface configuration.

ifflush : flush the bridge interfaces: detach/delete all interfaces.

iflist : Display the current bridge interfaces.

macadd : Add a static MAC address to a bridge interface.

maclist : Display the MAC address database.

macdelete : Remove a MAC address from the database.

clear : Clear bridge statistics.

: Flush all bridge instances with their interfaces and properties.

Following command groups are available:

dynvlanfilterigmpsnoopingruleunknownvlanvlanxtratagdyngroup

group



eth bridge add

Add a new bridge instance.

Syı	nta:	x:
~ 9	iiu.	•

add brname = <string>

brname	The name of the new bridge instance.	Required



eth bridge clear

Clear bridge statistics.

Syntax:

clear [brname = <{bridge}>]

Parameters:

brname The name of a bridge instance. Optional



eth bridge config

Modify/Display the bridge configuration settings.

Syntax:

```
config [age = <number{10-1000000}>]
    [brname = <{bridge}>]
    [filter = <{none|no_WAN_broadcast}>]
[precedencemap = <{ (missing) }>]
    [vlan = <{disabled|enabled}>]
```

age	The lifetime (in seconds) of a dynamically learned MAC address.	Optional
brname	The name of a bridge instance.	Optional
filter	The bridge filter to be applied for all WAN bridge interfaces.	Optional
precedencemap		Hidden
vlan	Enable/disable the use of the VLAN id of the received VLAN packets.	Optional



eth bridge delete

Delete a bridge instance.

Syntax:

delete brname = <{bridge}>

Parameters:

brname The name of a bridge instance. Required



eth bridge dyngroup

Following commands are available:

add : Add a dynamic group membership entry.

config : Modify the dynamic group membership configuration.

Note: eth bridge dyngroup is missing from the ':help eth bridge' group list



eth bridge dyngroup add

Add a dynamic group membership entry.

Syntax:

```
add group = <{default}>
  [dynamic = <{ (missing) }>]
  [rgroup = <{default}>]
```

group	group The group for the dynamic group membership entry.	
dynamic		Hidden
rgroup	The group that is to be removed from the port.	Optional



eth bridge dyngroup config

Modify the dynamic group membership configuration.

Syntax:

config [timeout = <number{0-100000}>]

Parameters:

timeout Timeout in seconds for the dynamic entries. Optional



eth bridge dynvlan

Following commands are available:

add
delete
Delete a dynamic VLAN membership entry.
list
Display a dynamic VLAN membership entry.
flush
Flush all dynamic VLAN membership entries.

config : Modify the dynamic VLAN membership configuration. actlist : Display the active MAC entries for the dynamic VLAN

membership.



eth bridge dynvlan actlist

Display the active MAC entries for the dynamic VLAN membership.

Syntax:			
actlist			



eth bridge dynvlan add

Add a dynamic VLAN membership entry.

Syntax:

```
add hwaddr = <masked-hardware-address>
    vlan = <{default}>
    [dynamic = <{ (missing) }>]
        [id = <number{0-100000}>]
        [mode = <{none|vid|prio|both}>]
        [prio = <number{0-7}>]
        [remvlan = <{ (missing) }>]
```

hwaddr	The (masked) ethernet MAC address of the dynamic VLAN membership entry.	Required
vlan	The VLAN for the dynamic VLAN membership entry.	Required
dynamic		Hidden
id	The id of the dynamic VLAN membership entry.	Optional
mode	The flexiport mode of operation.	Optional
prio	The new port priority to be set.	Optional
remvlan		Hidden



eth bridge dynvlan config

Modify the dynamic VLAN membership configuration.

config [timeout = <number{0-100000}>]

Parameters:

timeout Timeout in seconds for the dynamic entries. Optional

id



Required

eth bridge dynvlan delete

Delete a dynamic VLAN membership entry.

Syntax:	
delete id = <number{0-100000}></number{0-100000}>	
Parameters:	



eth bridge dynvlan flush

Flush all dynamic VLAN membership entries.

Syntax:		
flush		



eth bridge dynvlan list

Display a dynamic VLAN membership entry.

Syntax:			
list			



eth bridge filter

Following commands are available:

add : Add a filter.

list : Display the bridge filters.

delete : Delete a filter.

config : Change filter configuration

attach : Enable a filter.
detach : Disable a filter.

forwarding : Action: set forwarding configuration.
ifadd : Connect an interface with a filter.
ifdel : Remove an interface from a filter.

fwdintfaddfwdintfdelRemove Forwarding interface: filter action.



eth bridge filter add

Add a filter.

Syntax:

```
add brname = <{bridge}>
    name = <string>
    [filter = <{}>]
```

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.

Syntax:

```
attach brname = <{bridge}>
    name = <{}>
```

brname	The name of an bridge.	Required
name	The name of the filter to configure.	Required



eth bridge filter config

Change filter configuration

Syntax:

```
config brname = <{bridge}>
    name = <{}>
    [filter = <{}>]
```

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.

Syntax:

```
delete brname = <{bridge}>
    name = <{}>
```

brname	The name of an bridge.	Required
name	The name of the filter to configure.	Required



eth bridge filter detach

Disable a filter.

Syntax:

```
detach brname = <{bridge}>
    name = <{}>
```

brname	The name of an bridge.	Required
name	The name of the filter to configure.	Required



eth bridge filter forwarding

Action: set forwarding configuration.

Syntax:

```
forwarding brname = <{bridge}>
    mode = <{ (see Parameters) }>
    name = <{ }>
```

brname	The name of an bridge.	Required
mode	The forwarding type to set. Options: <{ToFwdIntfsOnly AlsoToFwdIntfs NotToFwdIntfs Drop}>	Required
name	The name of the filter to configure.	Required



eth bridge filter fwdintfadd

Add Forwarding interface: filter action.

Syntax:

```
fwdintfadd brname = <{bridge}>
    intf = <{ (see Parameters) }>
    name = <{ }>
```

brname	The name of an bridge.	Required
intf	The name of the bridge interface to add. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
name	The name of the filter to configure.	Required



eth bridge filter fwdintfdel

Remove Forwarding interface: filter action.

Syntax:

```
fwdintfdel brname = <{bridge}>
    intf = <{ (see Parameters) }>
    name = <{ }>
```

brname	The name of an bridge.	Required
intf	The name of the bridge interface to remove. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
name	The name of the filter to configure.	Required



eth bridge filter ifadd

Connect an interface with a filter.

Syntax:

```
ifadd brname = <{bridge}>
    intf = <{ (see Parameters) }>
    name = <{ }>
```

brname	The name of an bridge.	Required
intf	The name of the bridge interface to add. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
name	The name of the filter to configure.	Required



eth bridge filter ifdel

Remove an interface from a filter.

Syntax:

```
ifdel brname = <{bridge}>
    intf = <{ (see Parameters) }>
    name = <{ }>
```

brname	The name of an bridge.	Required
intf	The name of the bridge interface to remove. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
name	The name of the filter to configure.	Required



eth bridge filter list

Display the bridge filters.

Syntax:

```
list brname = <{bridge}>
    [expand = <{disabled|enabled}>]
    [name = <{}>]
```

brname	The name of an bridge.	Required
expand	Expanded listing.	Optional
name	The name of an filter.	Optional



eth bridge flush

Flush all bridge instances with their interfaces and properties.

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brname	The name of a bridge instance.	Optional
--------	--------------------------------	----------



eth bridge group

Following commands are available:

add : Add a new bridge group.

move : Move a bridge interface to a specified bridge group.

Note: eth bridge group is missing from the ':help eth bridge' group list



eth bridge group add

Add a new bridge group.

Syntax:

```
add id = <number{2-4094}>
[brname = <{bridge}>]
  [name = <string>]
```

id	The bridge group id.	Required
brname	The name of a bridge instance.	Optional
name	The new group name. If left blank, a default name will be used.	Optional



eth bridge group move

Move a bridge interface to a specified bridge group.

Syntax:

```
move intf = <{ (see Parameters) }>
    name = <{ (see Parameters) }>
    [brname = <{bridge}>]
```

intf	The name of the bridge interface to move to the bridge group. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
name	The name of the bridge group. Options: <bc ethport1 ethport2 ethport3 ethport4 wlan virt}="">></bc ethport1 ethport2 ethport3 >	Required
brname	The name of a bridge instance.	Optional



eth bridge ifadd

Add a new bridge interface.

Syntax:

```
ifadd intf = <string>
   [brname = <{bridge}>]
```

intf	The new bridge interface name.	Required
brname	The name of a bridge instance.	Optional



eth bridge ifattach

Attach a bridge interface.

Syntax:

```
ifattach intf = <{}>
   [brname = <{bridge}>]
```

intf	The name of the bridge interface.	Required
brname	The name of a bridge instance.	Optional



eth bridge ifconfig

Modify a bridge interface configuration.

Syntax:

```
ifconfig
              intf = <{ (see Parameters) }>
  [acceptvlanonly = <{disabled|enabled}>]
   [bpdufiltering = <{disabled|enabled}>]
           [brname = <{bridge}>]
             [dest = <{}>]
        [dyngroup = <{ (missing) }>]
         [dynvlan = <{disabled|enabled|switched}>]
    [igmpsnooping = <{disabled|enabled}>]
[ingressfiltering = <{disabled|enabled}>]
           [ipprec = <{disabled|precedence|dscp}>]
     [mcastfilter = <{disabled|enabled}>]
       [portstate = <{ (see Parameters) }>]
      [prioconfig = <{(see Parameters)}>]
        [priority = \langle number\{0-7\} \rangle]
         [priotag = <{disabled|enabled}>]
 [priotransparent = <{disabled|enabled}>]
       [regenprio = <string>]
            [retry = \langle number\{0-65535\} \rangle]
             [vlan = <{default}>]
              [wan = <{disabled|enabled}>]
     [xtratagging = <{none|c-vlan|s-vlan}>]
```

intf	The name of the bridge interface to configure. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
acceptvlanonly	Enable/disable receipt of tagged ingress packets.	Optional
bpdufiltering	Enable/disable BPDU filtering for this interface.	Optional
brname	The name of a bridge instance.	Optional
dest	The destination for this interface. Typically an ATM or a physical interface name.	Optional
dyngroup		Hidden
dynvlan	Change dynamic VLAN membership checking mechanism for this interface.	Optional
igmpsnooping	Enable/disable IGMP snooping for this interface.	Optional
ingressfiltering	Enable/disable discard of tagged ingress packets if the interface is not part of the VLAN.	Optional
ipprec	The IP precedence for this interface.	Optional

eth Commands

ommands		help
mcastfilter	Enable/disable discard of multicast packets for this interface.	Optional
portstate	The bridge portstate for this interface. Options: <{disabled learning forwarding}>	Optional
prioconfig	The priority configuration for this interface. Options: <{disabled overwrite increase}>	Optional
priority	The default priority for untagged ingress packets.	Optional
priotag	Enable/Disable priority tagging.	Optional
priotransparent	Enable/disable priority preservation for this interface.	Optional
regenprio	The priority regeneration table for tagged ingress packets.	Optional
retry	The number of WAN connection setup retries before giving up.	Optional
vlan	The default VLAN.	Optional
wan	Enable/disable WAN 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.

Syntax:

```
ifdelete intf = <{(see Parameters)}>
   [brname = <{bridge}>]
```

intf	The name of the bridge interface. Options: <{ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
brname	The name of a bridge instance.	Optional



eth bridge ifdetach

Detach a bridge interface.

Syntax:

```
ifdetach intf = <{ (see Parameters) }>
    [brname = <{bridge}>]
```

intf	The name of the bridge interface. Options: <{ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
brname	The name of a bridge instance.	Optional



eth bridge ifflush

flush the bridge interfaces: detach/delete all interfaces.

Syntax:

ifflush [brname = <{bridge}>]

Parameters:

brname The name of a bridge instance. Optional



eth bridge iflist

Display the current bridge interfaces.

Syntax:

```
iflist [brname = <{bridge}>]
     [intf = <{ (see Parameters) }>]
```

brname	The name of a bridge instance.	Optional
intf	The name of a bridge interface. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Optional



eth bridge igmpsnooping

Following commands are available:

config : Configure bridge instance IGMP Snooping flags.

: Display bridge instance snooped groups.

ifconfig : Configure bridge interface IGMP snooping flags and mode.

iflist : Display bridge interface IGMP status.

clear : Clear snooping statistics.



eth bridge igmpsnooping clear

Clear snooping statistics.

Syntax:

```
clear [brname = <{bridge}>]
     [intf = <{ (see Parameters) }>]
```

brname	The name of a bridge instance.	Optional
intf	The bridge interface currently to be cleared. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Optional



eth bridge igmpsnooping config

Configure bridge instance IGMP Snooping flags.

Syntax:

```
config [brname = <{bridge}>]
  [floodmcast = <{disabled|enabled}>]
    [floodrp = <{disabled|enabled}>]
    [queryto = <number{0-31744}>]
    [state = <{disabled|enabled}>]
```

brname	The name of a bridge instance.	Optional
floodmcast	Enable/Disable flooding unregistered multicasts.	Optional
floodrp	Enable/Disable flooding reports to all ports.	Optional
queryto	IGMP Snooping Query Interval.	Optional
state	Enable/Disable the IGMP Snooping.	Optional



eth bridge igmpsnooping ifconfig

Configure bridge interface IGMP snooping flags and mode.

Syntax:

```
ifconfig intf = <{ (see Parameters) }>
    [brname = <{bridge}>]
    [exptrack = <{disabled|enabled}>]
    [fastleave = <{disabled|enabled}>]
        [mrdp = <{disabled|enabled}>]
        [portmode = <{Host|Router|Auto|None}>]
        [rgmp = <{disabled|enabled}>]
```

intf	The bridge interface currently to be configured. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
brname	The bridge instance currently to be configured.	Optional
exptrack	Enable/Disable Explicit Host Tracking.	Optional
fastleave	Enable/Disable Fast Immediate Leave.	Optional
mrdp	Enable/Disable MRDP support.	Optional
portmode	Mode of the bridge port.	Optional
rgmp	Enable/Disable RGMP support.	Optional



eth bridge igmpsnooping iflist

Display bridge interface IGMP status.

Syntax:

```
iflist [brname = <{bridge}>]
     [intf = <{ (see Parameters) }>]
```

brname	The name of a bridge instance.	Optional
intf	The name of the bridge interface. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Optional



eth bridge igmpsnooping list

Display bridge instance snooped groups.

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list [brname = <{bridge}>]

Parameters:

brname The name of a bridge instance. Optional



eth bridge ippriomap

Modify the IP priority mappings for a bridge.

Syntax:

```
ippriomap dscpidx = <{ (see Parameters) }>
    precedencemap = <string>
    tostable = <{ (see Parameters) }>
        type = <{tos|dscp}>
    [brname = <{bridge}>]
```

dscpidx	Index in the DSCP table to edit. Options: <{dscp_o_7 dscp_8_15 dscp_16_23 dscp_24_31 dscp_32_39 dscp_40_47 dscp_48_55 dscp_56_63}>	Required
precedencemap	The IP priority precedence mapping values.	Required
tostable	TOS table type to edit. Options: <{Default MinimizeDelay MaximizeThroughput MaximizeReliability MinimizeCost}>	Required
type	For which IP priority type to adapt the precedencemap.	Required
brname	The name of a bridge instance.	Optional



eth bridge ippriomapreset

Reset the IP priority mappings to its defaults.

Syntax:

```
ippriomapreset type = <{tos|dscp}>
    [brname = <{bridge}>]
```

type	For which IP priority type to reset the precedencemap.	Required
brname	The name of a bridge instance.	Optional



eth bridge list

Display the current bridge instances.

Syntax:

list [brname = <{bridge}>]

Parameters:

brname The name of a bridge instance. Optional



eth bridge macadd

Add a static MAC address to a bridge interface.

Syntax:

```
macadd hwaddr = <hardware-address>
    intf = <{ (see Parameters) }>
    [brname = <{bridge}>]
    [vlan = <{default}>]
```

hwaddr	The ethernet MAC address of the new entry.	Required
intf	The name of the bridge interface. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
brname	The name of a bridge instance.	Optional
vlan	The VLAN.	Optional



eth bridge macdelete

Remove a MAC address from the database.

Syntax:

```
macdelete hwaddr = <hardware-address>
    [brname = <{bridge}>]
    [vlan = <{default}>]
```

hwaddr	The ethernet MAC address of the entry.	Required
brname	The name of a bridge instance.	Optional
vlan	The VLAN.	Optional



eth bridge maclist

Display the MAC address database.

Syntax:

maclist [brname = <{bridge}>]

Parameters:

brname The name of a bridge instance. Optional



eth bridge rule

Following commands are available:

add
 delete
 Delete a constraint from the VLAN learning system.
 list
 Display all constraints from the VLAN learning system.
 flush
 Flush all constraints from the VLAN learning system.



eth bridge rule add

Add a new constraint to the VLAN learning system.

Syntax:

```
add type = <{shared|independant}>
  vlan = <{default}>
  [isi = <number{0-32}>]
  [vlan2 = <{default}>]
```

type	Type of constraint.	Required
vlan	The VLAN where the constraint belongs to.	Required
isi	The indenpendent set id for an independent constraint.	Optional
vlan2	The second VLAN for a shared constraint.	Optional



eth bridge rule delete

Delete a constraint from the VLAN learning system.

Syntax:

delete index = <number{0-32}>

Parameters:

index Index of the constraint. Required



eth bridge rule flush

Flush all constraints from the VLAN learning system.

Syntax:		
flush		



eth bridge rule list

Display all constraints from the VLAN learning system.

Syntax:			
list			



eth bridge select

Select the default bridge for configuring interfaces from (if not setting bridge name, for legacy purposes).

Syntax:

select brname = <{bridge}>

Parameters:

brname The name of a bridge instance. Required



eth bridge unknownvlan

Following commands are available:

ifadd
 ifdelete
 ifconfig
 iflist
 Add bridge interface to unknown 'VLAN'.
 Delete bridge interface from unknown 'VLAN'.
 iflist
 Display all interfaces of the unknown 'VLAN'.



eth bridge unknownvlan ifadd

Add bridge interface to unknown 'VLAN'.

Syntax:

```
ifadd intf = <{(see Parameters)}>
   [brname = <{bridge}>]
   [untagged = <{disabled|enabled}>]
```

intf	The name of the bridge interface to add to the unknown 'VLAN'. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
brname	The name of a bridge instance.	Optional
untagged	Enable/disable interface as untagged for this unknown 'VLAN'.	Optional



eth bridge unknownvlan ifconfig

Modify bridge interface from unknown 'VLAN'.

Syntax:

```
ifconfig intf = <{ (see Parameters) }>
    [brname = <{bridge}>]
    [untagged = <{disabled|enabled}>]
```

intf	The bridge interface from the unknown 'VLAN' to configure. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
brname	The name of a bridge instance.	Optional
untagged	Enable/disable interface as untagged for this unknown 'VLAN'.	Optional



eth bridge unknownvlan ifdelete

Delete bridge interface from unknown 'VLAN'.

Syntax:

```
ifdelete intf = <{(see Parameters)}>
   [brname = <{bridge}>]
```

intf	The name of the bridge interface to remove from the unknown 'VLAN'. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
brname	The name of a bridge instance.	Optional



eth bridge unknownvlan iflist

Display all interfaces of the unknown 'VLAN'.

Syntax:	
iflist	



eth bridge vlan

Following commands are available:

ifadd
ifdelete
ifconfig
Add bridge interface to virtual LAN.
Delete bridge interface from virtual LAN.
Modify bridge interface from virtual LAN.

iflist : Display all vitual LAN's.



eth bridge vlan ifadd

Add bridge interface to virtual LAN.

Syntax:

```
ifadd intf = <{(see Parameters)}>
    name = <{default}>
[untagged = <{disabled|enabled}>]
```

intf	The name of the bridge interface to add to the VLAN. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
name	The VLAN name.	Required
untagged	Enable/disable interface as untagged for this VLAN.	Optional



eth bridge vlan ifconfig

Modify bridge interface from virtual LAN.

Syntax:

```
ifconfig intf = <{ (see Parameters) }>
    name = <{default}>
    untagged = <{disabled|enabled}>
```

intf The bridge interface from the VLAN to configure. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>		Required
name	The VLAN name.	Required
untagged	Enable/disable interface as untagged for this VLAN.	Required



eth bridge vlan ifdelete

Delete bridge interface from virtual LAN.

Syntax:

```
ifdelete intf = <{ (see Parameters) }>
    name = <{default}>
```

intf	The name of the bridge interface to remove from the VLAN. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
name	The VLAN name.	Required

eth Commands



eth bridge vlan iflist

Display all vitual LAN's.

Syntax:	
iflist	



eth bridge xtratag

Following commands are available:

add
delete
Delete an extra tag mapping entry.
config
Configure an extra tag mapping entry.
list
Display all extra tag mapping entries.
flush
Flush all extra tag mapping entries.



eth bridge xtratag add

Add an extra tag mapping entry.

Syntax:

```
add innervid = <{[1-4094]|all|}>
    intf = <{(see Parameters)}>
    outervid = <{[1-4094]|notag|transparent|}>
    [brname = <{bridge}>]
```

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



eth bridge xtratag config

Configure an extra tag mapping entry.

Syntax:

```
config innervid = <{[1-4094]|all|}>
    intf = <{(see Parameters)}>
    outervid = <{[1-4094]|notag|transparent|}>
    [brname = <{bridge}>]
```

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



eth bridge xtratag delete

Delete an extra tag mapping entry.

Syntax:

```
delete innervid = <{[1-4094]|all|}>
    intf = <{(see Parameters)}>
    [brname = <{bridge}>]
```

innervid	The inner VLAN id [all,1-4094] (all = all inner vid will be translated to the outer vid).	Required
intf	The name of the bridge interface. Options: <{OBC ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
brname	The name of a bridge instance.	Optional



eth bridge xtratag flush

Flush all extra tag mapping entries.

Syntax:			
flush			



eth bridge xtratag list

Display all extra tag mapping entries.

Syntax:			
list			



eth device

Following commands are available:

: Configure an Ethernet port's type setting (disable/enable

autonegotiation).

ifrestart : Reset an Ethernet port and restart autonegotiation.

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

autonegotiation is enabled).

iflist : Show all Ethernet ports' operational status.



eth device ifautoneg

Adapt/list an Ethernet port's autonegotiation parameters (if autonegotiation is enabled).

Syntax:

```
ifautoneg intf = <{ethif1|ethif2|ethif3|ethif4|}>
    [duplex = <{auto|half|full}>]
    [pause = <{none|asym|sym|both}>]
    [speed = <{auto|10Mb|100Mb|1Gb}>]
```

intf	The Ethernet port's name to adapt or show info from.	Required
duplex	The duplex mode.	Optional
pause	The flow-control mode.	Optional
speed	The speed mode.	Optional



eth device ifconfig

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

Syntax:

```
ifconfig intf = <{ethif1|ethif2|ethif3|ethif4|}>
        [mtu = <number{1518-1534}>]
        [state = <{enabled|disabled}>]
        [type = <{ (see Parameters) }>]
```

intf	The Ethernet port's name.	Required
mtu	The MTU for this Ethernet port.	Optional
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! Options: <{auto 10BaseTHD 10BaseTFD 100BaseTHD 100BaseTFD}>	Optional

eth Commands



eth device iflist

Show all Ethernet ports' operational status.

Syntax:	
iflist	



eth device ifrestart

Reset an Ethernet port and restart autonegotiation.

Syntax:

ifrestart intf = <{ethif1|ethif2|ethif3|ethif4|}>

intf	The Ethernet port's to be reset (restart	Required
	autonegotiation).	

eth Commands



eth filter

Following command groups are available:

operand template



eth filter operand

Following commands are available:

add : Add a filter operand.

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

delete : Delete a filter operand.

reset : Reset an operand to its default initial state (removes all

content, set to undefined type).

listvidaddAdd another VID in the set.viddeleteDelete a VID from the set.

frameclassadd
 frameclassdelete
 ipprotoadd
 ipprotodelete
 pelete a frameclasse from the set.
 ipprotocol in the set.
 ipprotocol from the set.
 priorityadd
 Add another priority in the set.
 prioritydelete
 Delete a ip priority from the set.
 Delete a ip priority from the set.

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

use: flush filters first).



eth filter operand add

Add a filter operand.

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add operand = <string>

operand	The name of the new operand operand.	Required
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eth filter operand config

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

Syntax:

```
config action = <{Delete|Insert|Modify}>
      daclass = <{Unicast|Multicast|Broadcast}>
       length = <number>
         mask = <string>
       offset = <number>
      operand = <{}>
     operator = <{Equal|Less|LessEqual|InSet}>
     protocol = <{IP|UpperLayer}>
protocollevel = <{(see Parameters)}>
         size = <number>
         type = <{ (see Parameters) }>
        value = <string>
  [frameclass = <{ (see Parameters) }>]
  [ipprotocol = < number {0-254}>]
    [priority = \langle number\{0-7\} \rangle]
          [vid = < number \{1-4095\} > ]
```

action	The action to undertake with matching filter	Required
daclass	The destination address class.	Required
length	The length of the compare value/mask combination in bytes	Required
mask	The mask to be used on the value.	Required
offset	At which offset from protocol level in bytes the Match/Modify action should start (in bytes).	Required
operand	The name of an operand.	Required
operator	The compare operator.	Required
protocol	The protocol level of the checksum.	Required
protocollevel	The protocol level from where to start offset/size calculations. Options: <{EthernetFrame Protocol EthernetPayload ULPHeader ULPPayload}>	Required
size	The size of the frame at this protocol level.	Required
type	The type to set. Options: <{CheckDAClass CheckFrameClass CheckVLANPriority CheckVID CheckIPProto CheckSize Match Modify CheckCheckSum	Required

eth Commands

	helps	n n
UpdateCheckSum}>		N
The value.	Required	
The Ethernet frame class to filter on. Options: <{Eth2 SNAPEType SNAP8021H SNAPOther LLCNLPID LLCOther}>	Optional	
The IP protocol to filter on.	Optional	
The VLAN priority to filter on.	Optional	
The VID to filter on.	Optional	
	The value. The Ethernet frame class to filter on. Options: <{Eth2 SNAPEType SNAP8021H SNAPOther LLCNLPID LLCOther}> The IP protocol to filter on. The VLAN priority to filter on.	The value. Required The Ethernet frame class to filter on. Options: <{Eth2 SNAPEType SNAP8021H SNAPOther LLCNLPID LLCOther}> The IP protocol to filter on. Optional The VLAN priority to filter on. Optional



eth filter operand delete

Delete a filter operand.

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delete operand = <{}>

Parameters:

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 filters first).

Syntax:			
flush			



eth filter operand frameclassadd

Add another frameclass in the set.

Syntax:

frameclass	The frame class to add. Options: <{Eth2 SNAPEType SNAP8021H SNAPOther LLCNLPID LLCOther}>	Required
operand	The name of an operand.	Required



eth filter operand frameclassdelete

Delete a frameclasse from the set.

Syntax:

frameclass	The frameclass to remove. Options: <{Eth2 SNAPEType SNAP8021H SNAPOther LLCNLPID LLCOther}>	Required
operand	The name of an operand.	Required



eth filter operand ipprotoadd

Add another ip protocol in the set.

Syntax:

ipprotocol	The IP protocol to add.	Required
operand	The name of an operand.	Required



eth filter operand ipprotodelete

Delete a ip protocol from the set.

Syntax:

ipprotocol	The IP protocol to remove.	Required
operand	The name of an operand.	Required



eth filter operand list

Display the filter operands.

Syntax:

```
list [expand = <{disabled|enabled}>]
  [operand = <{}>]
```

expand	Expanded listing.	Optional
operand	The name of an operand.	Optional



eth filter operand priorityadd

Add another priority in the set.

Syntax:

```
priorityadd operand = <{}>
    priority = <number{0-7}>
```

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.

Syntax:

```
prioritydelete operand = <{}>
    priority = <{}>
```

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 undefined type).

The name of an operand.	Required
	The name of an operand.



eth filter operand vidadd

Add another VID in the set.

Syntax:

```
vidadd operand = <{}>
    vid = <number{1-4095}>
```

operand	The name of an operand.	Required
vid	The VID to add.	Required



eth filter operand viddelete

Delete a VID from the set.

Syntax:

```
viddelete operand = <{}>
    vid = <{}>
```

operand	The name of an operand.	Required
vid	The VID to remove.	Required



eth filter template

Following commands are available:

add : Add a filter.

listdeleteconfigDisplay the filters.Delete a filter.Config a filter.

setvid : Action: enable/disable VID derivation setpriority : Action: enable/disable priority derivation ruleadd : Connect an operand rule with a filter. rulemodify : Modify an operand rule from a filter. ruledel : Remove an operand rule from a filter.

flush : Remove all filters.



eth filter template add

Add a filter.

Syntax:

```
add filter = <string>
    [level = <number{0-65535}>]
    [location = <{Ingress|Egress|VID|Priority}>]
        [mark = <{disabled|enabled}>]
    [tracing = <{disabled|enabled}>]
```

filter	The name of the filter.	Required
level	The filter level (lower level is processed first = priority)	Optional
location	The filter location.	Optional
mark	Enable/disabled marking of packets	Optional
tracing	Enable/disabled tracing of packets	Optional



eth filter template config

Config a filter.

Syntax:

```
config filter = <{}>
    [level = <number{0-65535}>]
    [location = <{Ingress|Egress|VID|Priority}>]
        [mark = <{disabled|enabled}>]
    [tracing = <{disabled|enabled}>]
```

filter	The name of an filter.	Required
level	The filter level (lower level is processed first = priority)	Optional
location	The filter location.	Optional
mark	Enable/disabled marking of packets	Optional
tracing	Enable/disabled tracing of packets	Optional



eth filter template delete

Delete a filter.

Syntax:

delete filter = <{}>

Parameters:

filter The name of an filter. Required



eth filter template flush

Remove all filters.

Syntax:		
flush		



eth filter template list

Display the filters.

Syntax:

```
list [expand = <{disabled|enabled}>]
  [filter = <{}>]
```

expand	Expanded listing.	Optional
filter	The name of an filter.	Optional



eth filter template ruleadd

Connect an operand rule with a filter.

Syntax:

```
ruleadd filter = <{}>
    operand = <{}>
        [negate = <{disabled|enabled}>]
        [operator = <{Ignore|AND|OR}>]
        [order = <number{-100-100}>]
```

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
operator	Operand operator.	Optional
order	The operand order in thes filter (lower order is processed first = priority)	Optional



eth filter template ruledel

Remove an operand rule from a filter.

Syntax:

```
ruledel filter = <{}>
    ruleid = <{}>
```

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:

```
rulemodify filter = <{}>
    ruleid = <{}>
        [negate = <{disabled|enabled}>]
        [operand = <{}>]
        [operator = <{Ignore|AND|OR}>]
        [order = <number{-100-100}>]
```

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



eth filter template setpriority

Action: enable/disable priority derivation

Syntax:

```
setpriority filter = <{}>
    priority = <number{0-15}>
    [state = <{disabled|enabled}>]
```

filter	The name of an filter.	Required
priority	The priority to set in the derivation.	Required
state	Enable/disabled priority derivation for this filters	Optional



eth filter template setvid

Action: enable/disable VID derivation

Syntax:

```
setvid filter = <{}>
    vid = <number{1-4095}>
    [state = <{disabled|enabled}>]
```

filter	The name of an filter.	Required
vid	The VID to set in the derivation.	Required
state	Enable/disabled VID derivation for this filters	Optional



eth flush

Flush all ETH interfaces.

Syntax:		
flush		



eth ifadd

Create a new ETH interface.

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~ 9	iiu.	•

ifadd intf = <string>

intf	The name for the new ETH interface.	Required
------	-------------------------------------	----------



eth ifattach

Attach an ETH interface.

Syntax:

ifattach intf = <{}>

Parameters:

intf The name of the ETH interface. Required



eth ifconfig

Modify an ETH interface.

Syntax:

```
ifconfig intf = <{eth_dyn|eth_static|eth_WLAN2}>
      [dest = <{ (see Parameters) }>]
      [group = <{ (missing) }>]
      [priotag = <{disabled|enabled}>]
      [retry = <number{0-65535}>]
      [vlan = <{default}>]
      [wan = <{disabled|enabled}>]
```

The name of the ETH interface to configure.	Required
The destination interface for this ETH interface. Options: <{bridge eth_dyn eth_static eth_WLAN2}>	Optional
	Hidden
Enable/Disable VLAN priority tagging.	Optional
The number of times the ETH connection setup should retry before giving up.	Optional
The VLAN for this ETH interface.	Optional
Enable/Disable WAN for this ETH interface.	Optional
	The destination interface for this ETH interface. Options: <{bridge eth_dyn eth_static eth_WLAN2}> Enable/Disable VLAN priority tagging. The number of times the ETH connection setup should retry before giving up. The VLAN for this ETH interface.



eth ifdelete

Delete an ETH interface.

Syntax:

ifdelete intf = <{eth_dyn|eth_static|eth_WLAN2}>

intf	The name of the ETH interface.	Required
------	--------------------------------	----------



eth ifdetach

Detach an ETH interface.

Syntax:

ifdetach intf = <{eth_dyn|eth_static|eth_WLAN2}>

Parameters:

intf The name of the ETH interface. Required



eth iflist

Display the ETH interfaces.

Syntax:

iflist [intf = <{eth_dyn|eth_static|eth_WLAN2}>]

Parameters:

intf The name of an ETH interface. Optional



eth switch

Following commands are available:

info : Display switch capabilities

Following command groups are available:

group mirror qos shaper

share storm



eth switch group

Following commands are available:

list : List all configured groups.

move : Move a specified port to a specified group.
delete : Delete a specified port from a specified group.

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



eth switch group delete

Delete a specified port from a specified group.

Syntax:

```
delete group = <number{0-3}>
    port = <number{1-4}>
```

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 o).

Syntax:		
flush		



eth switch group list

List all configured groups.

Syntax:		
list		



eth switch group move

Move a specified port to a specified group.

Syntax:

```
move group = <number{0-3}>
    port = <number{1-4}>
```

group	The group id.	Required
port	The port.	Required



eth switch info

Display switch capabilities

Syntax:		
info		



eth switch mirror

Following commands are available:

capture	:	Define the specified port to be the Mirror Capture Port.
ingress	:	Enable or disable the specified port to be a Received Port

Mirroring.

egress : Enable or disable the specified port to be a Transmitted Port

Mirroring.



eth switch mirror capture

Define the specified port to be the Mirror Capture Port.

Syntax:

capture port = <number{1-4}>

Parameters:

port The port. Required



eth switch mirror egress

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

Syntax:

```
egress port = <number{1-4}>
  [state = <{enabled|disabled}>]
```

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.

Syntax:

```
ingress port = <number{1-4}>
   [state = <{enabled|disabled}>]
```

port	The port.	Required
state	Enable/disable state.	Optional



eth switch qos

Following commands are available:

config : Configure common qos parameters.

weights : Configure the queue weights.

ifconfig : Configure per port qos parameters.

list : Display qos configuration.



eth switch qos config

Configure common qos parameters.

Syntax:

```
config state = <{enabled|disabled}>
  [nbrOfQueues = <number{0-4}>]
     [realtime = <{enabled|disabled}>]
[rxbackpressure = <{ (missing) }>]
     [threshold = <number{0-15}>]
[txbackpressure = <{ (missing) }>]
```

state	Enable/disable QoS.	Required
nbrOfQueues	Number of queues.	Optional
realtime	Enable/disable realtime.	Optional
rxbackpressure		Hidden
threshold	Tx Qos threshold.	Optional
txbackpressure		Hidden



eth switch qos ifconfig

Configure per port qos parameters.

Syntax:

mode	Classifier. Options: <[+/-]flag[+/-flag]{802.1p high diffserv tos}>	Required
port	The port.	Required
flowcontrol	Enable/disable flow-control.	Optional



eth switch qos list

Display qos configuration.

Syntax:		
list		



eth switch qos weights

Configure the queue weights.

Syntax:

```
weights queue0 = <number{0-100}>
    queue1 = <number{0-100}>
    queue2 = <number{0-100}>
    queue3 = <number{0-100}>
```

queueo	Weight of queue o 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

Following commands are available:

config : Configure common ingress shaper parameters.

ifconfigiflistConfigure per port shaper parameters.iplistDisplay shaper configuration per port.



eth switch shaper config

Configure common ingress shaper parameters.

Syntax:

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

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



eth switch shaper ifconfig

Configure per port shaper parameters.

Syntax:

ingress	Ingress port = enabled; egress port = disabled.	Required
port	The port.	Required
shaper	The shaper instance.	Required
burstsize	Burst size in KBytes.	Optional
speed	Speed in bits/sec.	Optional
state	Enable/disable shaping.	Optional



eth switch shaper iflist

Display shaper configuration per port.

Syntax:	
iflist	



eth switch share

Following commands are available:

add : Add a port to be shared.delete : Delete a shared port.list : Display shared ports.



eth switch share add

Add a port to be shared.

Syntax:

```
add port = <number{1-4}>
shared = <number{1-4}>
```

port	The port.	Required
shared	The shared port.	Required



eth switch share delete

Delete a shared port.

Syntax:

```
delete port = <number{1-4}>
    shared = <number{1-4}>
```

port	The port.	Required
shared	The shared port.	Required



eth switch share list

Display shared ports.

Syntax:		
list		



eth switch storm

Following commands are available:

ifconfigiflistConfigure per port storm control parameters.ipliestDisplay storm control configuration per port.



eth switch storm ifconfig

Configure per port storm control parameters.

Syntax:

```
ifconfig port = <number{1-4}>
  [broadcast = <{enabled|disabled}>]
  [burstsize = <{2|4|6|8}>]
  [multicast = <{enabled|disabled}>]
      [rate = <{100|200|300|400}>]
      [state = <{enabled|disabled}>]
      [unknown = <{enabled|disabled}>]
```

port	The port.	Required
broadcast	Storm control for broadcast traffic.	Optional
burstsize	Burst size in KBytes.	Optional
multicast	Storm control for multicast traffic.	Optional
rate	Rate in 10ths of percent.	Optional
state	Enable/disable storm control.	Optional
unknown	Storm control for traffic with unknown destination address.	Optional



eth switch storm iflist

Display storm control configuration per port.

Syntax:		
iflist		



eth vlan

Following commands are available:

add : Add a new virtual LAN.
delete : Delete a virtual LAN.
list : Display all virtual LAN's.
flush : Flush all virtual LAN's.

Following command groups are available:

priomap



eth vlan add

Add a new virtual LAN.

Syntax:

```
add name = <string>
    vid = <number{2-4094}>
[addrule = <{disabled|enabled}>]
```

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.

Syntax:

delete name = <{default}>

Parameters:

name The VLAN name. Required



eth vlan flush

Flush all virtual LAN's.

Syntax:		
flush		



eth vlan list

Display all virtual LAN's.

Syntax:			
list			



eth vlan priomap

Following commands are available:

config : Change a VLAN/DE to/from internal priority mapping.
list : Display the VLAN/DE to/from internal priority mappings.



eth vlan priomap config

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

Syntax:

```
config entry = <{(see Parameters)}>
   priomap = <string>
```

entry	Which prioritymap entry to edit. Options: <{prio_0_7_2vlan prio_8_15_2vlan prio_0_7_2de prio_8_15_2de vlan2prio_de_0 vlan2prio_de_1}>	Required
priomap	The 8 priority mapping values.	Required



eth vlan priomap list

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

Syntax:			
list			



expr

Following commands are available:

add
delete
Delete an expression.
modify
Modify an expression.
list
List expressions.
flush
Flush all expressions.



expr add

Add an expression.

Syntax:

```
add
             addr [!]= <ip-range>
     iplengthmin [!] = <number>
             mac [!] = <hardware-address>
             name = <{ (see Parameters) }>
eport = <{ (missing) }>]
     [bridgeport
            [dscp [!] = <{ (see Parameters) }>]
         [dstport [!] = <{ (see Parameters) }>]
     [dstportend = <{(see Parameters)}>]
        [icmpcode [!] = \langle number\{0-15\} \rangle]
    [icmpcodeend = \langle number\{0-15\} \rangle]
        [icmptype [!] = <{ (see Parameters) }>]
            [intf [!] = <{ (see Parameters) }>]
       [intfgroup [!] = <{ (see Parameters) }>]
    [iplengthmax = <number>]
                     = <{ (missing) }>]
            [mask
            [mask [ <ip-mask(dotted or cidr)>]]
     [precedence [!] = <{ (see Parameters) }>]
           [proto [!]= <{(see Parameters)}>]
         [srcport [!] = <{ (see Parameters) }>]
     [srcportend = <{(see Parameters)}>]
             [tos [!] = < number {0-255}>]
            [type
                    = <{intf|ip|serv|mac|length}>]
```

addr	The IP address or range. (Can optionally use "!=")	Required
iplengthmin	The minimum IP length in bytes (header inclusive). (Can optionally use "!=")	Required
mac	The MAC address. (Can optionally use "!=")	Required
name	The name of an expression to add. Options: <{wan local lan tunnel dmz guest private ssdp_ip mdap_ip 192.68.1.253 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}>	Required
bridgeport		Hidden

Command	ls —	Optional
dscp	The diffserv code point in the IP packet (part of tos). (Can optionally use "!=") Options: <{ef af11 af12 af13 af21 af22 af23 af31 af32 af33 af41 af42 af43 cs0 cs1 cs2 cs3 cs4 cs5 cs6 cs7} or number>	Optional
dstport	The TCP/UDP destination port number or range begin. (Can optionally use "!=") Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
dstportend	The TCP/UDP destination port range end. Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
icmpcode	The ICMP code or range begin. (Can optionally use "!=")	Optional
icmpcodeend	The ICMP code range end. (inclusive)	Optional
icmptype	The ICMP type (name or number) of the packet. (Can optionally use "!=") Options: <{echo-reply destination-unreachable source-quench redirect echo-request router- advertisement router-solicitation time-exceeded parameter-problems timestamp-request timestamp-reply information-request information- reply address-mask-request address-mask-reply} or number>	Optional

Command	ds	Optional
intf	The IP interface name. (Can optionally use "!=") Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
intfgroup	The IP interface group. (Can optionally use "!=") Options: <{wan local lan tunnel dmz guest} or number>	Optional
iplengthmax	The maximum IP length including header in bytes (header inclusive).	Optional
mask		Hidden
mask	The IP mask (ignored if an IP range is provided).	Optional
precedence	The precedence in the IP packet (part of tos). (Can optionally use "!=") Options: <{routine priority immediate flash flash-override CRITIC-ECP internetwork-control network-control} or number>	Optional
proto	The IP protocol (name or number) in the IP packet. (Can optionally use "!=") Options: <{icmp igmp ipinip tcp udp ah esp ipcomp} or number>	Optional
srcport	The TCP/UDP source port number or range begin. (Can optionally use "!=") Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
srcportend	The source TCP/UDP source port range end. (inclusive) Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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	Optional

Commands		helpellen
	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>	
tos	The Type Of Service specification in the IP packet. (Can optionally use "!=")	Optional
type	The type of an expression.	Optional



expr delete

Delete an expression.

Syntax:

```
delete name = <{ (see Parameters) }>
  [index = <number>]
```

name	The name of an expression to delete. Options: <{wan local lan tunnel dmz guest private ssdp_ip mdap_ip 192.68.1.253 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}>	Required
index	The index of a subexpression.	Optional



expr flush

Flush all expressions.

Syntax:		
flush		



expr list

List expressions.

Syntax:

```
list [dynamic = <{ (missing) }>]
        [format = <{ pretty|cli}>]
        [name = <{ (see Parameters) }>]
        [type = <{ intf|ip|serv|mac|length}>]
```

dynamic		Hidden
format	The format of the expression list.	Optional
name	The name of an expression to list. Options: <{_intf_o _intf_1 _intf_2 _intf_3 _intf_4 _intf_5 DHCP-R_if_o wan local lan tunnel dmz guest DNS-S_if_o MDAP_if_o PPTPD_if_o PPTPGRE_if_o HTTP_if_o FTP_if_o TELNET_if_o DHCP-S_if_o PING_RESPONDER_if_o SSDP_if_o UPnP- HTTP_if_o _addr_127_o_o_1 _addr_192_168_10_254 _addr_10_o_o_138 _addr_192_168_1_254 private ssdp_ip mdap_ip 192.68.1.253 _addr_188_222_212_205 DHCP- R_sv_o 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 IGMP-Proxy_sv_o DNS-S_sv_o MDAP_sv_o PPTPD_sv_o PPTPGRE_sv_o HTTP_sv_o FTP_sv_o TELNET_sv_o DHCP-S_sv_o PING_RESPONDER_sv_o SSDP_sv_o UPnP-HTTP_sv_o}>	Optional
type	The type of an expression.	Optional



expr modify

Modify an expression.

Syntax:

```
modify
            addr [!] = <ip-range>
            index = < number >
     iplengthmin [!]= <number>
              mac [!] = <hardware-address>
             name = <{ (see Parameters) }>
     [bridgeport = <{ (missing) }>]
            [dscp [!] = <{ (see Parameters) }>]
         [dstport [!]= <{ (see Parameters) }>]
     [dstportend = <{ (see Parameters) }>]
       [icmpcode [!] = \langle number\{0-15\} \rangle]
    [icmpcodeend = \langle number\{0-15\} \rangle]
       [icmptype [!] = <{ (see Parameters) }>]
            [intf [!] = <{ (see Parameters) }>]
      [intfgroup [!]= <{ (see Parameters) }>]
                     = <number>]
    [iplengthmax
            [mask
                    = < \{ (missing) \} > ]
            [mask [ <ip-mask(dotted or cidr)>]]
     [precedence [!] = <{ (see Parameters) }>]
           [proto [!] = <{ (see Parameters) }>]
         [srcport [!] = <{ (see Parameters) }>]
     [srcportend = <{(see Parameters)}>]
            [tos [!] = < number {0-255}>]
            [type = <{intf|ip|serv|mac|length}>]
```

addr	The IP address or range. (Can optionally use "!=")	Required
index	The index of a subexpression.	Required
iplengthmin	The minimum IP length in bytes (header inclusive). (Can optionally use "!=")	Required
mac	The MAC address. (Can optionally use "!=")	Required
name	The name of an expression to modify. Options: <{wan local lan tunnel dmz guest private ssdp_ip mdap_ip 192.68.1.253 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}>	Required

Command	's	Hidden
bridgeport		Hidden
dscp	The diffserv code point in the IP packet (part of tos). (Can optionally use "!=") Options: <{ef af11 af12 af13 af21 af22 af23 af31 af32 af33 af41 af42 af43 cs0 cs1 cs2 cs3 cs4 cs5 cs6 cs7} or number>	Optional
dstport	The TCP/UDP destination port number or range begin. (Can optionally use "!=") Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
dstportend	The TCP/UDP destination port range end. Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
icmpcode	The ICMP code or range begin. (Can optionally use "!=")	Optional
icmpcodeend	The ICMP code range end. (inclusive)	Optional
icmptype	The ICMP type (name or number) of the packet. (Can optionally use "!=") Options: <{echo-reply destination-unreachable source-quench redirect echo-request router- advertisement router-solicitation time-exceeded parameter-problems timestamp-request timestamp-reply information-request information- reply address-mask-request address-mask-reply}	Optional

Command	ds	he
	or number>	4
intf	The IP interface name. (Can optionally use "!=") Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
intfgroup	The IP interface group. (Can optionally use "!=") Options: <{wan local lan tunnel dmz guest} or number>	Optional
iplengthmax	The maximum IP length including header in bytes (header inclusive).	Optional
mask		Hidden
mask	The IP mask (ignored if an IP range is provided).	Optional
precedence	The precedence in the IP packet (part of tos). (Can optionally use "!=") Options: <{routine priority immediate flash flash-override CRITIC-ECP internetwork-control network-control} or number>	Optional
proto	The IP protocol (name or number) in the IP packet. (Can optionally use "!=") Options: <{icmp igmp ipinip tcp udp ah esp ipcomp} or number>	Optional
srcport	The TCP/UDP source port number or range begin. (Can optionally use "!=") Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
srcportend	The source TCP/UDP source port range end. (inclusive) Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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	Optional

Commands		helpellen
	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>	
tos	The Type Of Service specification in the IP packet. (Can optionally use "!=")	Optional
type	The type of an expression.	Optional



firewall

Following commands are available:

config : Display/Modify firewall configuration.

clear : Clear firewall configuration.
list : Display firewall configuration.

Following command groups are available:

chain debug level rule



firewall chain

Following commands are available:

add : Add a chain.
delete : Delete a chain.

list : Display a list of chains.

flush : Flush all chains.

modify : Modify a chain.(command is hidden)



firewall chain add

Add a chain.

Syntax:

```
add chain = <string>
  [policy = <{ (missing) }>]
```

chain	The name of the chain to add.	Required
policy		Hidden



firewall chain delete

Delete a chain.

ntax:	
	ntax:

delete chain = <chain name>

chain	The name of the chain to delete.	Required
-------	----------------------------------	----------



firewall chain flush

Flush all chains.

Syntax:			
flush			



firewall chain list

Display a list of chains.

Syntax:

list [format = <{pretty|cli}>]

Parameters:

format The format of the chain list. Optional



firewall chain modify

Modify a chain.(command is hidden)

Syntax:

```
modify chain = <chain name>
    [policy = <{ (missing) }>]
```

chain	The name of the chain to modify.	Required
policy		Hidden



firewall clear

Clear firewall configuration.

Syntax:		
clear		



firewall config

Display/Modify firewall configuration.

Syntax:

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



firewall debug

Following commands are available:

traceconfig : Display/Modify firewall trace configuration.

statsclearDisplay firewall statistics.Clear firewall statistics.



firewall debug clear

Clear firewall statistics.

Syntax:		
clear		



firewall debug stats

Display firewall statistics.

Syntax:			
stats			



firewall debug traceconfig

Display/Modify firewall trace configuration.

Syntax:

```
traceconfig [forward = <{ (see Parameters) }>]
    [icmpchecks = <{ disabled|enabled}>]
        [sink = <{ (see Parameters) }>]
        [source = <{ (see Parameters) }>]
        [tcpchecks = <{ disabled|enabled}>]
        [udpchecks = <{ disabled|enabled}>]
```

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forward	The action the firewall traces for forward traffic. Options: <{none all accept deny drop reset} or number>	Optional
icmpchecks	Disable/Enable icmpchecks traces.	Optional
sink	The action the firewall traces for sink traffic. Options: <{none all accept deny drop reset} or number>	Optional
source	The action the firewall traces for source traffic. Options: <{none all accept deny drop reset} or number>	Optional
tcpchecks	Disable/Enable tcpchecks traces.	Optional
udpchecks	Disable/Enable udpchecks traces.	Optional



firewall level

Following commands are available:

add : Add a new security level.
delete : Delete a security level.
modify : Modify a security level.
list : List all security levels.

setflushSet/Display active security level.Flush security level configuration.



firewall level add

Add a new security level.

Syntax:

```
add    name = <string>
    [index = <number>]
    [policy = <{ (see Parameters) }>]
        [proxy = <{disabled|enabled}>]
        [readonly = <{disabled|enabled}>]
        [service = <{disabled|enabled}>]
        [text = <quoted string>]
[udptrackmode = <{strict|loose}>]
```

, , , , , , , , , , , , , , , , , , ,	otional otional
	tional
policy Select default policy of this security level. Op Options: <{default drop accept strict loose}>	
proxy Enable/Disable proxy system services for this security level. Op	otional
readonly Select whether the security level is readonly. Op	tional
service Enable/Disable host service definitions for this security level.	otional
text The description of this security level. Op	tional
udptrackmode Select UDP connection tracking mode. Op	tional



firewall level delete

Delete a security level.

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ЮU	ın	LU	X.	

delete name = <security level name>

Parameters:

name The name of the security level to delete. Required



firewall level flush

Flush security level configuration.

Syntax:			
flush			



firewall level list

List all security levels.

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list [format = <{pretty|cli}>]

Parameters:

format The format of the security level list. Optional



firewall level modify

Modify a security level.

Syntax:

```
modify name = <security level name>
    [index = <number>]
    [policy = <{ (see Parameters) }>]
    [proxy = <{disabled|enabled}>]
    [readonly = <{disabled|enabled}>]
    [service = <{disabled|enabled}>]
    [text = <quoted string>]
[udptrackmode = <{strict|loose}>]
```

The name of the security level to modify.	Required
The index of this security level.	Optional
Select default policy of this security level. Options: <{default drop accept strict loose}>	Optional
Enable/Disable proxy system services for this security level.	Optional
Select whether the security level is readonly.	Optional
Enable/Disable service definitions for this security level.	Optional
The description of this security level.	Optional
Select UDP connection tracking mode.	Optional
	The index of this security level. Select default policy of this security level. Options: <{default drop accept strict loose}> Enable/Disable proxy system services for this security level. Select whether the security level is readonly. Enable/Disable service definitions for this security level. The description of this security level.



firewall level set

Set/Display active security level.

set [name = <security level name>]

Parameters:

name The name of the security level to set active. Optional



firewall list

Display firewall configuration.

Syntax:

list [format = <{pretty|cli}>]

Parameters:

format The format of the firewall list. Optional



firewall rule

Following commands are available:

add : Add a rule.delete : Delete a rule.modify : Modify a rule.

list : Display a list of rules.

flush : Flush all rules.

Following command groups are available:

debug



firewall rule add

Add a rule.

Syntax:

```
add action = <{(see Parameters)}>
    chain = <chain name>
    [clink = <chain name>]
[connstate = <{(missing)}>]
    [dstintf [!] = <{wan|local|lan|tunnel|dmz|guest}>]
    [dstip [!] = <{(see Parameters)}>]
    [index = <number>]
    [length [!] = <{}>]
    [log = <{disabled|enabled}>]
    [name = <string>]
    [newindex = <{(missing)}>]
    [serv [!] = <{(see Parameters)}>]
    [srcintf [!] = <{wan|local|lan|tunnel|dmz|guest}>]
    [srcip [!] = <{(see Parameters)}>]
    [srcmac = <{(missing)}>]
    [srcmac = <{(disabled|enabled}>]
```

action	The action to be taken when this rule applies ('link' when clink is used). Options: <{accept deny drop reset count link}>	Required
chain	The name of the chain which contains the rule.	Required
clink	The name of the chain to be parsed when this rule applies.	Optional
connstate		Hidden
dstintf	The name of the destination interface expression. (Can optionally use "!=")	Optional
dstip	The name of the destination ip expression. (Can optionally use "!=") Options: <{private ssdp_ip mdap_ip 192.68.1.253}>	Optional
index	The index of the rule in the chain.	Optional
length	The name of the length expression. (Can optionally use "!=")	Optional
log	Disable/Enable logging when this rule applies.	Optional
name	The name of the new rule.	Optional
newindex		Hidden

all Comi	mands	helpsy
serv	The name of the service expression. (Can optionally use "!=") Options: <{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}>	Optional
srcintf	The name of the source interface expression. (Can optionally use "!=")	Optional
srcip	The name of the source ip expression. (Can optionally use "!=") Options: <{private ssdp_ip mdap_ip 192.68.1.253}>	Optional
srcmac		Hidden
state	Disable/Enable this rule.	Optional



firewall rule debug

Following commands are available:

traceconfig : Display/Modify rule trace configuration.

stats : Display rule statistics. clear : Clear rule statistics.



firewall rule debug clear

Clear rule statistics.

Syntax:

```
clear [chain = <chain name>]
    [index = <number>]
```

chain	The name of the chain.	Optional
index	The index of the rule in the chain.	Optional



firewall rule debug stats

Display rule statistics.

Syntax:

```
stats [chain = <chain name>]
    [index = <number>]
```

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.

Syntax:

traceconfig [state = <{disabled|enabled}>]

state	Disable/Enable rule traces.	Optional
-------	-----------------------------	----------



firewall rule delete

Delete a rule.

Syntax:

```
delete chain = <chain name>
    index = <number>
```

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.

Syntax:		
flush	[chain = <chain n<="" th=""><th>name>]</th></chain>	name>]

chain	The name of the chain to flush.	Optional
-------	---------------------------------	----------



firewall rule list

Display a list of rules.

Syntax:

```
list [chain = <chain name>]
   [format = <{pretty|cli}>]
```

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.

Syntax:

```
modify chain = <chain name>
     [action = <{(see Parameters)}>]
      [clink = <chain name>]
  [connstate = <{ (missing) }>]
 [[!]dstintf]
   [[!]dstip]
      [index = <number>]
  [[!]length]
        [log = <{disabled|enabled}>]
       [name = <string>]
   [newindex = <number>]
    [[!]serv]
 [[!]srcintf]
   [[!]srcip]
     [srcmac = <{ (missing) }>]
      [state = <{disabled|enabled}>]
```

chain	The name of the chain which contains the rule.	Required
action	The action to be taken when this rule applies ('link' when clink is used). Options: <{accept deny drop reset count link}>	Optional
clink	The name of the chain to be parsed when this rule applies.	Optional
connstate		Hidden
dstintf	The name of the destination interface expression. (Optionally prepend a "!" to mean NOT)	Optional
dstip	The name of the destination ip expression. (Optionally prepend a "!" to mean NOT)	Optional
index	The index of the rule in the chain.	Optional
length	The name of the length expression. (Optionally prepend a "!" to mean NOT)	Optional
log	Disable/Enable logging when this rule applies.	Optional
name	The name of the new rule.	Optional
newindex	The new index of the rule in the chain.	Optional
serv	The name of the service expression. (Optionally prepend a "!" to mean NOT)	Optional

mands	helps
The name of the source interface expression. (Optionally prepend a "!" to mean NOT)	Optional
The name of the source ip expression. (Optionally prepend a "!" to mean NOT)	Optional
	Hidden
Disable/Enable this rule.	Optional
	The name of the source interface expression. (Optionally prepend a "!" to mean NOT) The name of the source ip expression. (Optionally prepend a "!" to mean NOT)



grp

Following commands are available:

rtlist : Show the current routes in the grp routing table.

config : Set the grp configuration settings.

flush : Flush grp interface settings and parameters.

Following command groups are available:

rip



grp config

Set the grp configuration settings.

Syntax:

```
config [cdistance = <number{0-255}>]
    [kdistance = <number{0-255}>]
    [rdistance = <number{0-255}>]
    [trace = <{disabled|enabled}>]
```

cdistance	Set the distance of the connected route type. Default distance is o.	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

helpell

grp flush

Flush grp interface settings and parameters.

Syntax:			
flush			



grp rip

Following commands are available:

ifconfig : Configure a RIP interface.

config : Set the RIP configuration settings.

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

flush : Flush RIP interface settings and global parameters.



grp rip config

Set the RIP configuration settings.

Syntax:

```
config state = <{disabled|enabled}>
  [updatetime = <number{1-3600}>]
   [version = <{rip_unspec|rip_v1|rip_v2}>]
```

state	Enable/Disable the RIP daemon.	Required
updatetime	Set the routing table update timer value. Default is 30 seconds.	Optional
version	Set the RIP version.	Optional

helpell

grp rip flush

Flush RIP interface settings and global parameters.

Syntax:			
flush			



grp rip ifconfig

Configure a RIP interface.

Syntax:

```
ifconfig intf = <{ (see Parameters) }>
    [authmode = <{none|cleartext}>]
    [authstr = <password>]
        [rip = <{disabled|enabled}>]
        [rxversion = <{ (see Parameters) }>]
[splithorizon = <{disabled|enabled}>]
```

intf	The name of the RIP interface to configure. Options: <{Hotspot O2_Static O2_ADSL2plus LocalNetwork O2_ADSL}>	Required
authmode	Set the RIP authentication mode.	Optional
authstr	Set the RIP authentication password.	Optional
rip	Enable/Disable the RIP status.	Optional
rxversion	Set the RIP receive version. Options: <{rip_unspec rip_v1 rip_v2 rip_v1-2}>	Optional
splithorizon	Enable/Disable the split horizon status.	Optional



grp rip show

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

Syntax:	
show	



grp rtlist

Show the current routes in the grp routing table.

Syntax:

```
rtlist [dst = <ip-address>]
    [dstmsk = <ip-mask(dotted or cidr)>]
```

dst The destination IP address using this route. Supports ip/mask notation.		Optional
dstmsk	The destination IP address mask.	Optional

hostmgr Commands



hostmgr

Following commands are available:

: Remove all host devices

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

config : Configure Device Discovery deamon

add : Add host device

update : Update host device parameters

delete : Delete host device list : List all host devices

hostmgr Commands



hostmgr add

Add host device

Syntax:

```
add mac_addr = <hardware-address>
        [dns_name = <string>]
        [host_name = <string>]
        [host_type = <{ (see Parameters) }>]
        [interface = <string>]
        [ip_intf = <string>]
        [type = <{ (see Parameters) }>]

        [user_friendly_name = <quoted string>]
        [user_set = <{ (missing) }>]
```

mac_addr	Host MAC address	Required
dns_name	Host DNS name	Optional
host_name	Host name	Optional
host_type	Host type Options: <{Generic Desktop Laptop STB PDA GS Phone GSM Printer MassStorage None}>	Optional
interface	Host Ethernet interface XREF	Optional
ip_intf	Host IP interface XREF	Optional
type	Host connection type Options: <{Unknown L2-FXS L2-USB L2-BT L3-IP L7-UPNP L2-PPPOERELAY L2-WLAN}>	Optional
user_friendly_n ame	Host user friendly name	Optional
user_set		Hidden



hostmgr clear

Remove all host devices

Syntax:		
clear		



hostmgr config

Configure Device Discovery deamon

Syntax:

```
config [autosave = <{ (missing) }>]
    [scantime = <{ (missing) }>]
        [state = <{ disabled | enabled }>]
        [trace = <{ disabled | enabled }>]
```

autosave		Hidden
autosave		muuch
scantime		Hidden
state	Enable/disable Device Discovery deamon	Optional
trace	Enable/disable Device Discovery traces	Optional



hostmgr delete

Delete host device

Syntax:

```
delete mac_addr = <hardware-address>
    [index = <number>]
    [type = <{ (see Parameters) }>]
```

mac_addr	Host MAC address	Required
index	Host index	Optional
type	Host connection type Options: <{Unknown L2-FXS L2-USB L2-BT L3-IP L7-UPNP L2-PPPOERELAY L2-WLAN}>	Optional



hostmgr flush

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

Syntax:		
flush		



hostmgr list

List all host devices

Su	nt	ax:
\sim 9		

list [expand = <{disabled|enabled}>]

expand Expanded fishing. Optional	expand	Expanded listing.	Optional
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hostmgr update

Update host device parameters

Syntax:

```
update    mac_addr = <hardware-address>
        [dns_name = <string>]
        [host_name = <string>]
        [host_type = <{ (see Parameters) }>]
        [interface = <string>]
        [ip_intf = <string>]
        [type = <{ (see Parameters) }>]
        [user_friendly_name = <quoted string>]
        [user_set = <{ (missing) }>]
```

mac_addr	Host MAC address	Required
dns_name	Host DNS name	Optional
host_name	Host name	Optional
host_type	Host type Options: <{Generic Desktop Laptop STB PDA GS Phone GSM Printer MassStorage None}>	Optional
interface	Host Ethernet interface XREF	Optional
ip_intf	Host IP interface XREF	Optional
type	Host connection type Options: <{Unknown L2-FXS L2-USB L2-BT L3-IP L7-UPNP L2-PPPOERELAY L2-WLAN}>	Optional
user_friendly_ name	Host user friendly name	Optional
user_set		Hidden



ids

Following commands are available:

config : Display/Modify IDS configuration.

clear Clear IDS statistics.

Following command groups are available:

parser pattern signature threshold

conntrack



ids clear

Clear IDS statistics.

Syntax:		
clear		



ids config

Display/Modify IDS configuration.

Syntax:

```
config [state = <{disabled|enabled}>]
    [trace = <{disabled|enabled}>]
```

state	Enable/Disable ids checks.	Optional
trace	Enable/Disable ids traces.	Optional



ids conntrack

Following commands are available:

: Display connections in connection tracker.

stats : Display connection tracker statistics.

clear : Reset connection tracker.

Note: ids conntrack is missing from the ':help ids' group list



ids conntrack clear

Reset connection tracker.

Syntax:		
clear		



ids conntrack list

Display connections in connection tracker.

Syntax:

list [size = <{10|100|full} or number>]

Parameters:

size Modify the size of connection tracker list. Optional



ids conntrack stats

Display connection tracker statistics.

Syntax:			
stats			



ids parser

Following commands are available:

listmodifyDisplay ids parser configuration.Modify ids parser configuration.



ids parser list

Display ids parser configuration.

Syntax:

list [parser = <parser>]

Parameters:

parser The name of the parser. Optional



ids parser modify

Modify ids parser configuration.

Syntax:

```
modify state = <{disabled|enabled}>
    [parser = <parser>]
```

state	The state of the parser.	Required
parser	The name of the parser.	Optional



ids pattern

Following commands are available:

listbisplay patterns in pattern tracker.Display pattern tracker statistics.

clear : Reset pattern tracker.



ids pattern clear

Reset pattern tracker.

Syntax:			
clear			



ids pattern list

Display patterns in pattern tracker.

Syntax:

list [size = <{10|100|full} or number>]

Parameters:

size Modify the size of pattern tracker list. Optional



ids pattern stats

Display pattern tracker statistics.

Syntax:			
stats			



ids signature

Following commands are available:

listmodifyis Display ids signature configuration.Modify ids signature configuration.



ids signature list

Display ids signature configuration.

Syntax:

```
list [signature = <{ (see Parameters) }>]
```

signature	The name of the signature.	Optional
	Options: <fragment_sweep zero-< td=""><td>_</td></fragment_sweep zero-<>	_
	length_fragment_size small_fragment_size	
	fragment_size_overrun fragment_overlap	
	fragment_out-of-order ip_protocol_scan	
	tcp_port_scan tcp_syn_scan	
	stealth_tcp_null_scan stealth_tcp_fin_scan	
	stealth_tcp_xmas_scan	
	stealth_tcp_full_xmas_scan	
	stealth_tcp_vecna_scan stealth_tcp_syn-	
	fin_scan udp_port_scan ping_sweep_scan	
	tcp_syn_flood udp_flood ping_flood	
	icmp_unreachable_storm	
	smurf_broadcast_attack 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}>	



ids signature modify

Modify ids signature configuration.

Syntax:

```
modify state = <{disabled|enabled}>
  [signature = <{ (see Parameters) }>]
```

state	The state of the sign.	Required
signature	The name of the signature. Options: <fragment_sweep zero-< td=""><td>Optional</td></fragment_sweep zero-<>	Optional
	length_fragment_size small_fragment_size	
	fragment_size_overrun fragment_overlap	
	fragment_out-of-order ip_protocol_scan	
	tcp_port_scan tcp_syn_scan	
	stealth_tcp_null_scan stealth_tcp_fin_scan	
	stealth_tcp_xmas_scan	
	stealth_tcp_full_xmas_scan	
	stealth_tcp_vecna_scan stealth_tcp_syn-	
	fin_scan udp_port_scan ping_sweep_scan	
	tcp_syn_flood udp_flood ping_flood	
	icmp_unreachable_storm	
	smurf_broadcast_attack smurf_storm_attack	
	fraggle_broadcast_attack fraggle_storm_attack land_attack spoofed_packet tcp_null_port	
	tcp_data_on_syn_segment	
	tcp_uata_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}>	



ids threshold

Following commands are available:

listmodifyclearDisplay IDS thresholds.Modify IDS threshold.Reset IDS thresholds.



ids threshold clear

Reset IDS thresholds.

Syntax:		
clear		



ids threshold list

Display IDS thresholds.

Syntax:			
list			



ids threshold modify

Modify IDS threshold.

Syntax:

```
modify index = <number>
    [limit = <number>]
    [scaling = <{disabled|enabled}>]
    [window = <number>]
```

index	The index of the threshold.	Required
limit	The limit of the threshold.	Optional
scaling	Scaling of the threshold window.	Optional
window	The time window of the threshold.	Optional

helpell

igmp

Following command groups are available:

host proxy



igmp host

Following commands are available:

config : Display/Modify global IGMP configuration.

ifconfig : Configure an IGMP interface.

: Show the configuration of the IGMP interfaces.

: Show the IGMP groups.flush: Flush the IGMP settings.

Following command groups are available:

debug



igmp host config

Display/Modify global IGMP configuration.

Syntax:

config [requirera = <{disabled|enabled}>]

Parameters:

requirera Enable/Disable the router alert IP option check. Optional



igmp host debug

Following commands are available:

statsclearclear IGMP statistics.



igmp host debug clear

Clear IGMP statistics.

Syntax:		
clear		



igmp host debug stats

Print IGMP statistics.

Syntax:	
stats	



igmp host flush

Flush the IGMP settings.

Syntax:		
flush		



igmp host ifconfig

Configure an IGMP interface.

Syntax:

```
ifconfig intf = <{(see Parameters)}>
    version = <{none|IGMPv1|IGMPv2|IGMPv3}>
```

intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
version	The IGMP version of the IP interface.	Required



igmp host iflist

Show the configuration of the IGMP interfaces.

Syntax:

iflist [expand = <{disabled|enabled}>]

expand	Expanded listing.	Optional



igmp host list

Show the IGMP groups.

Syntax:

```
list [expand = <{disabled|enabled}>]
    [intf = <{(see Parameters)}>]
```

expand	Expanded listing.	Optional
intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional



igmp proxy

Following commands are available:

config : Configure the IGMP proxy.

ifconfig : Configure an IGMP proxy interface.

iflistgrouplistShow the configuration of an IGMP proxy interface.Show the learned groups on an IGMP proxy interface.

mbslist : Show the IGMP proxy membership database (merge of all

learned groups).

flush : Flush all IGMP proxy settings and learned groups

Following command groups are available:

debug



igmp proxy config

Configure the IGMP proxy.

Syntax:

```
config [advinter = <number{4-180}>]
  [initadvcount = <number{1-10}>]
  [initadvinter = <number{1-4}>]
        [lmqi = <number{1-3175}>]
        [localgroup = <{disabled|enabled}>]
        [qi = <number{1-31744}>]
        [qri = <number{1-3175}>]
        [requirera = <{disabled|enabled}>]
        [rv = <number{2-7}>]
        [state = <{disabled|enabled}>]
```

advinter	The interval in seconds for unsolicited MRD advertisements (see rfc4286).	Optional
initadvcount	The maximum number of initial unsolicited MRD advertisements (see rfc4286).	Optional
initadvinter	The interval in seconds for initial unsolicited MRD advertisements (see rfc4286).	Optional
lmqi	The maximum response time in seconds for an IGMP client in reply to group specific queries.	Optional
localgroup	Enable/Disable the processing of a local multicast group in an IGMP packet.	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
requirera	Enable/Disable the router alert IP option check.	Optional
rv	The robustness variable allows tuning for expected IGMP packet loss.	Optional
state	Enable/Disable the IGMP proxy.	Optional



igmp proxy debug

Following commands are available:

traceconfig : Modify IGMP proxy trace configuration

statsclearPrint IGMP proxy statisticsClear IGMP proxy statistics



igmp proxy debug clear

Clear IGMP proxy statistics

Syntax:		
clear		



igmp proxy debug stats

Print IGMP proxy statistics

Syntax:		
stats		



igmp proxy debug traceconfig

Modify IGMP proxy trace configuration

Syntax:

traceconfig [state = <{disabled|enabled}>]

state	Enable/Disable tracing.	Optional
-------	-------------------------	----------



igmp proxy flush

Flush all IGMP proxy settings and learned groups

Syntax:		
flush		



igmp proxy grouplist

Show the learned groups on an IGMP proxy interface.

Syntax:

expand	Expanded listing.	Optional
intf	The name of the IGMP proxy interface to be listed.	Optional



igmp proxy ifconfig

Configure an IGMP proxy interface.

Syntax:

```
ifconfig intf = <{ (see Parameters) }>
    [exptrack = <{disabled|enabled}>]
    [fastleave = <{disabled|enabled}>]
        [mrd = <{disabled|enabled}>]
        [spoofing = <{disabled|enabled}>]
        [state = <{inactive|downstream|upstream}>]
        [version = <{IGMPv1|IGMPv2|IGMPv3}>]
```

fastleave Enable/Disable the immediate deletion of a group when a leave is received. mrd Enable/Disable sending multicast router advertisements (rfc 4286). spoofing Enable/Disable spoofing of IGMP packets on upstream interfaces. state The state of the IGMP proxy interface. Option	intf	The name of the IGMP proxy interface to be configured. Options: <{Hotspot O2_Static O2_ADSL2plus LocalNetwork O2_ADSL}>	Required
when a leave is received. mrd Enable/Disable sending multicast router advertisements (rfc 4286). spoofing Enable/Disable spoofing of IGMP packets on upstream interfaces. state The state of the IGMP proxy interface. Option	exptrack	Enable/Disable explicit host tracking.	Optional
advertisements (rfc 4286). spoofing Enable/Disable spoofing of IGMP packets on upstream interfaces. State The state of the IGMP proxy interface. Option	fastleave	,	Optional
upstream interfaces. state The state of the IGMP proxy interface. Option	mrd	, 0	Optional
1 1	spoofing	, 1	Optional
version The IGMP version of the IGMP proxy interface. Option	state	The state of the IGMP proxy interface.	Optional
	version	The IGMP version of the IGMP proxy interface.	Optional



igmp proxy iflist

Show the configuration of an IGMP proxy interface.

Syntax:

iflist [expand = <{disabled|enabled}>]

expand	Expanded listing.	Optional



igmp proxy mbslist

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

Syntax:	
mbslist	

interface Commands



interface

Following commands are available:

list : Display interfaces.

interface Commands



interface list

Display interfaces.

Syntax:

```
list [expand = <{disabled|enabled}>]
  [reverse = <{disabled|enabled}>]
```

expand	Expanded listing.	Optional
reverse	Reverse listing (lower layer iso. upper layer).	Optional



ip

Following commands are available:

ifadd
ifdelete
ifattach
ifdetach
Create an IP interface.
Attach an IP interface.
ifdetach
Detach an IP interface.

ifconfig : Modify an IP interface configuration.

iflist : Display all IP interfaces.

ifwait
 ipadd
 Assign an IP address to an IP interface.
 ipdelete
 Remove an IP address from an IP interface.

ipconfig
 Modify an IP address configuration.
 iplist
 Display all configured IP addresses.
 rtadd
 Add a route to the routing table.
 rtconfig
 Modify a route of the routing table.
 rtdelete
 Delete a route from the routing table.

rtlist : Display the routing table.

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

arpdeletebelete an ARP entry.arplistDisplay the ARP cache.

config : Display/Modify global IP stack configuration.

: Flush all static IP parameters. Dynamic info (e.g. from PPP

links) remains.

Following command groups are available:

auto debug mcast



ip arpadd

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

Syntax:

```
arpadd intf = <{ (see Parameters) }>
    ip = <ip-range>
    [hwaddr = <hardware-address>]
```

intf	The IP interface name. Options: <{LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	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.

Syntax:

intf	The IP interface name. Options: <{LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	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.

Synt	tax:
------	------

arplist



ip auto

Following commands are available:

ifadd
ifdelete
ifattach
ifdetach
ifconfig
iflist
Shows the autoIP interfaces.
iFlushes autoIP interfaces.

Creates a new autoIP interface.
is Deletes an existing autoIP interface.
is Select and assign a link-local address to an autoIP interface.
if link-local address for the given autoIP interface.
if link-local address for the given autoIP interfaces.

Following command groups are available:

debug



ip auto debug

Following commands are available:

traceconfig : Modify autoIP trace configuration



ip auto debug traceconfig

Modify autoIP trace configuration

Su	nt	ax:
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traceconfig [state = <{disabled|enabled}>]

state	Enable/Disable verbose logging.	Optional
-------	---------------------------------	----------



ip auto flush

Flushes autoIP interfaces.

Syntax:			
flush			



ip auto ifadd

Creates a new autoIP interface.

Syntax:

```
ifadd intf = <{ (see Parameters) }>
    [addr = <ip-address>]
```

intf	The name of the IP interface for which a link-local address has to be allocated. Options: <{LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
addr	The preferred link-local IP address.	Optional

intf



Required

ip auto ifattach

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

Syntax:	
ifattach intf = <>	
	_
Parameters:	

The name of the autoIP interface.



ip auto ifconfig

Configures an autoIP interface.

Syntax:

```
ifconfig intf = <>
        [addr = <ip-address>]
        [claim = <number{0-65535}>]
        [defence = <number{0-65535}>]
        [interval = <number{1-65535}>]
        [netmask = <ip-mask(dotted or cidr)>]
        [poolend = <ip-address>]
        [poolstart = <ip-address>]
        [probe = <number{0-65535}>]
```

intf	The name of the autoIP interface to configure.	Required
addr	The preferred link-local IP address.	Optional
claim	The number of link-local address selection retries before giving up.	Optional
defence	The number of times the link-local address is defended before releasing the address.	Optional
interval	The time interval between two ARP probe transmissions.	Optional
netmask	The netmask of the link-local IP address pool.	Optional
poolend	The end IP address of the link-local address pool.	Optional
poolstart	The start IP address of the link-local address pool.	Optional
probe	The number of ARP probes to be sent before accepting a link-local address.	Optional



ip auto ifdelete

Deletes an existing autoIP interface.

Su	ntax:	•
~ 9	iiu.	

ifdelete intf = <>

Parameters:

intf The name of the autoIP interface. Required



ip auto ifdetach

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

Syntax:		
ifdetach intf = <>		

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_	u_{I}	u_{II}	$\iota \iota \iota$	$\cdot \cdot \cdot$	J .

intf The name of the autoIP interfa	ce. Required
-------------------------------------	--------------



ip auto iflist

Shows the autoIP interfaces.

Syntax:

iflist [intf = <>]

Parameters:

intf The name of a autoIP interface. Optional



ip config

Display/Modify global IP stack configuration.

Syntax:

```
config [acceleration = <{disabled|enabled}>]
        [addrcheck = <{off|own|static|dynamic}>]
        [arpcachetimeout = <number{10-7200}>]
        [arpclass = <{(see Parameters)}>]
[bitrate-window(sec) = <{(missing)}>]
        [checkoptions = <{(see Parameters)}>]
        [defragmode = <{disabled|enabled}>]
        [forwarding = <{disabled|enabled}>]
        [fraglimit = <number{1-1024}>]
        [mssclamping = <{disabled|enabled}>]
        [natloopback = <{disabled|enabled}>]
        [netbroadcasts = <{disabled|enabled}>]
        [randomdatagramids = <{disabled|enabled}>]
        [redirects = <{disabled|enabled}>]
        [redirects = <{disabled|enabled}>]
        [ttl = <number{0-255}>]
```

acceleration	Disable/Enable IP acceleration.	Optional
addrcheck	Sets the level of ip address checks.	Optional
arpcachetimeout	Set the global ARP cache timeout.	Optional
arpclass	The prio class of the ARP packets. Options: <{0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15}>	Optional
bitrate- window(sec)		Hidden
checkoptions	Disallow/Allow packets with IP options. Options: <{disabled enabled transparent}>	Optional
defragmode	Disallow/Allow defragmenting IP fragments.	Optional
forwarding	Disable/Enable IP routing functionality.	Optional
fraglimit	Set the maximum number of IP fragments waiting for completion. (Avoids buffer depletion).	Optional
mssclamping Disable/Enable mss clamping for low mtu interfaces.		Optional
natloopback	Disable/Enable NAT loopback.	Optional
netbroadcasts	Disallow/Allow net directed broadcasts.	Optional

mmands		help	Pdem
random datagramids	Disable/Enable random datagram IDs for packets generated locally.	Optional	
redirects	Disable/Enable sending of ICMP redirect messages.	Optional	
ttl	Set the default time-to-live for locally generated IP packets.	Optional	

helpsik

ip debug

Following commands are available:

stats : Display statistics.

traceconfig : Display/Modify IP stack trace configuration.

sendto : Send UDP packets.

httpprobe : Send HTTP probe to measure the round trip time taken to

connect and access data from a HTTP server



ip debug httpprobe

Send HTTP probe to measure the round trip time taken to connect and access data from a HTTP server

Syntax:

```
httpprobe url = <string>
  [version = <{1.0|1.1}>]
```

url	The Uniform Resource Locator identifying the HTTP server.	Required
version	The version of the HTTP server.	Optional



ip debug sendto

Send UDP packets.

Syntax:

```
sendto addr = <ip-address>
   dstport = <number{1-65535}>
   [count = <number{1-1000000}>]
   [dffield = <{disabled|enabled}>]
   [dstintf = <{ (see Parameters) }>]
   [interval = <number{1-1000000}>]
   [listen = <{disabled|enabled}>]
    [size = <number{0-20000}>]
   [srcaddr = <ip-address>]
   [srcport = <number{1-65535}>]
```

addr	The destination IP address.	Required
dstport	The UDP destination port number to send to.	Required
count	The number of datagrams to send.	Optional
dffield	Enables setting of the don't fragment flag in the IP headers of the ping packet(s).	
dstintf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	
interval	The interval in milliseconds between datagrams.	Optional
listen	Don't send, just listen for incoming datagrams.	Optional
size	The size of the datagram.	Optional
srcaddr	The IP source address to use.	Optional
srcport	The UDP source port number to use.	Optional



ip debug stats

Display statistics.

Syntax:

stats proto = <{ip|udp|tcp|icmp}>

Parameters:

proto The protocol for which to display the statistics. Required



ip debug traceconfig

Display/Modify IP stack trace configuration.

Syntax:

```
traceconfig [arp = <{none|all}>]
        [drop = <{ (see Parameters) }>]
        [forward = <{ (see Parameters) }>]
        [input = <{ (see Parameters) }>]
        [mode = <{line|dump}>]
        [output = <{ (see Parameters) }>]
        [path = <{ (see Parameters) }>]
```

arp	Define the arp packets that will be traced.	Optional
drop	Define the packet drops that will be traced. Options: <{none label -telnet -host -broadcast all}>	Optional
forward	Define the packets that will be traced. Options: <{none label -telnet -host -broadcast all}>	Optional
input	Define the packets that will be traced. Options: <{none label -telnet -host -broadcast all}>	Optional
mode	Packet dump method.	Optional
output	Define the packets that will be traced. Options: <{none label -telnet -host -broadcast all}>	
path	Define the packet that will be path-traced. Options: <{none label -telnet -host -broadcast all}>	Optional



ip flush

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

Syntax:		
flush		



ip ifadd

Create an IP interface.

Syntax:

```
ifadd dest = <{}>
  intf = <string>
```

dest	An network interface name.	Required
intf	An IP interface name.	Required



ip ifattach

Attach an IP interface.

Syntax:

ifattach intf = <{}>

Parameters:

intf An IP interface name. Required



ip ifconfig

Modify an IP interface configuration.

Syntax:

```
ifconfig intf = <{ (see Parameters) }>
[arpcachetimeout = <number{0-7200}>]
        [arpprobe = <{unicast|broadcast}>]
        [group = <{ (see Parameters) }>]
        [hwaddr = <hardware-address>]
        [linksensing = <{disabled|enabled}>]
        [mcastmode = <{ (missing) }>]
        [mcastpromisc = <{disabled|enabled}>]
        [mtu = <number{68-65535}>]
        [primary = <{disabled|enabled}>]
        [status = <{down|up}>]
        [symmetric = <{disabled|enabled}>]
```

intf	An IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
arpcachetimeout	Set the ARP cache timeout to be used for this interface (o = use global ARP cache timeout).	Optional
arpprobe	The ARP mode of the interface.	Optional
group	The group this interface belongs to. Can be used by e.g. firewalling. Options: <{wan local lan tunnel dmz guest} or number>	Optional
hwaddr	The hardware address (e.g. Ethernet MAC address) of this interface.	Optional
linksensing	The IP interface's awareness of link state transitions.	Optional
mcastmode		Hidden
mcastpromisc	Make the IP interface multicast promiscuous.	Optional
mtu	The maximum packet size (including IP header) to use on this interface.	Optional
primary	Make the IP interface the primary interface.	Optional
status	The administrative state of the interface.	Optional
symmetric	The routing mode of the IP interface.	Optional



ip ifdelete

Delete an IP interface.

Syntax:

```
ifdelete intf = <{(see Parameters)}>
```

intf	An IP interface name.	Required
	Options: <{LocalNetwork O2_ADSL2plus	-
	O2_Static Hotspot}>	



ip ifdetach

Detach an IP interface.

Syntax:

```
ifdetach intf = <{(see Parameters)}>
```

intf	An IP interface name.	Required
	Options: <{loop LocalNetwork O2_ADSL2plus	
	O2_Static Hotspot}>	



ip iflist

Display all IP interfaces.

Syntax:

```
iflist [expand = <{disabled|enabled}>]
    [legend = <{disabled|enabled}>]
```

expand	Expanded listing.	Optional
legend	Expanded Legend listing.	Optional



ip ifwait

Wait for a status change of an IP interface.

Syntax:

```
ifwait intf = <{(see Parameters)}>
[adminstatus = <{down|up}>]
[linkstatus = <{down|up}>]
[operstatus = <{down|up}>]
[timeout = <number{1-600000}>]
```

intf	An IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
adminstatus	The administrative state of the interface.	Optional
linkstatus	The link state of the interface.	Optional
operstatus	The operational state of the interface.	Optional
timeout	The timeout in seconds.	Optional



ip ipadd

Assign an IP address to an IP interface.

Syntax:

```
ipadd addr = <ip-address>
    intf = <{ (see Parameters) }>
    [addroute = <{disabled|enabled}>]
    [netmask = <ip-mask(dotted or cidr)>]
[pointopoint = <ip-address>]
    [type = <{ (missing) }>]
```

addr	The new IP address to add.	Required
intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
addroute	Add typical net/subnet routes automatically.	Optional
netmask	The subnetmask associated with this address.	Optional
pointopoint	The remote address in case of a point-to-point link.	Optional
type		Hidden



ip ipconfig

Modify an IP address configuration.

Syntax:

```
ipconfig addr = <ip-address>
   [preferred = <{disabled|enabled}>]
    [primary = <{disabled|enabled}>]
```

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.

Syntax:

ipdelete addr = <ip-address>

Parameters:

addr The IP address to delete. Required



ip iplist

Display all configured IP addresses.

Syntax:

iplist [expand = <{disabled|enabled}>]

expand	Expanded listing.	Optional



ip mcast

Following commands are available:

: Add a multicast route to the multicast routing table.

rtdelete : Delete a multicast route from the multicast routing table.

rtlist : Display the multicast routing table. flush : Flush the multicast routing table.



ip mcast flush

Flush the multicast routing table.

Syntax:			
flush			



ip mcast rtadd

Add a multicast route to the multicast routing table.

Syntax:

```
rtadd dstintf = <{ (see Parameters) }>
    grp = <ip-address>
    srcintf = <{ (see Parameters) }>
    [src = <ip-address>]
    [ttl = <number{1-255}>]
    [ttlincr = <{disabled|enabled}>]
```

dstintf	The destination IP interface. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
grp	The multicast group IP address.	Required
srcintf	The source IP interface. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
src	The source IP address.	Optional
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.

Syntax:

dstintf	The destination IP interface. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
grp	The multicast group IP address.	Required
srcintf	The source IP interface. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
src	The source IP address.	Optional



ip mcast rtlist

Display the multicast routing table.

Syntax:

rtlist [expand = <{disabled|enabled}>]

expand Expanded fishing. Optional	expand	Expanded listing.	Optional
-----------------------------------	--------	-------------------	----------



ip rtadd

Add a route to the routing table.

Syntax:

```
rtadd dst = <ip-address>
  [dstmsk = <ip-mask(dotted or cidr)>]
  [gateway = <ip-address>]
    [intf = <{ (see Parameters) }>]
    [label = <{ (see Parameters) }>]
    [metric = <number{0-255}>]
  [srcintf = <{ (see Parameters) }>]
  [static = <{enabled|disabled}>]
  [status = <{up|down}>]
    [type = <{ (missing) }>]
```

dst	The destination IP address(es) using this route. Supports ip/mask notation.	Required
dstmsk	The destination IP address mask.	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. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
label	The name of a label. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional
metric	The metric for this route (weight factor).	Optional
srcintf	Use this interface for source address selection. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
static	Route persistency: static or dynamic (note that not all routes can be changed).	Optional
status	The administrative state of the route.	Optional
type		Hidden



ip rtconfig

Modify a route of the routing table.

Syntax:

```
rtconfig dst = <ip-address>
    [dstmsk = <ip-mask(dotted or cidr)>]
    [gateway = <ip-address>]
        [intf = <{(see Parameters)}>]
        [label = <{(see Parameters)}>]
        [metric = <number{0-255}>]
        [srcintf = <{(see Parameters)}>]
        [static = <{disabled|enabled}>]
        [status = <{down|up}>]
```

dst	The destination IP address(es) using this route. Supports ip/mask notation.	Required
dstmsk	The destination IP address mask.	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. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
label	The name of a label. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional
metric	The metric for this route (weight factor).	Optional
srcintf	Use this interface for source address selection. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot None}>	Optional
static	Route persistency: static or dynamic (note that not all routes can be changed).	Optional
status	The administrative state of the route.	Optional



ip rtdelete

Delete a route from the routing table.

Syntax:

```
rtdelete dst = <ip-address>
    [dstmsk = <ip-mask(dotted or cidr)>]
    [gateway = <ip-address>]
        [intf = <{ (see Parameters) }>]
        [label = <{ (see Parameters) }>]
```

dst	The destination IP address specification of the route to delete. Supports ip/mask notation.	Required
dstmsk	The destination IP address mask.	Optional
gateway	The IP address of the next hop.	Optional
intf	The outgoing IP interface name. (For special interface routes only). Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
label	The name of a label. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional



ip rtlist

Display the routing table.

Syntax:

rtlist [expand = <{disabled|enabled}>]

expand	Expanded listing.	Optional



ipqos

Following commands are available:

: Modify the IP QoS configuration for a given destination of an

interface.

: Display the IP QoS configuration.

Following command groups are available:

ef queue



ipqos config

Modify the IP QoS configuration for a given destination of an interface.

Syntax:

```
config
               dest = <{pvc ppp|pvc dyn|pvc static}>
  [backgroundqueue = <{disabled|enabled}>]
         [burstsize = \langle number\{1-64\} \rangle]
           [discard = <{tail|early}>]
      [ecnthreshold = \langle number\{1-99\} \rangle]
          [maxbytes = < number {0-256}>]
        [maxpackets = < number {0-500}>]
          [priority = <{wfq|strict|wrr}>]
[qtyrealtimequeues = <number{1-3}>]
      [realtimerate = <number{1-100}>]
             [state = <{disabled|enabled}>]
           [weight1 = < number\{1-99\}>]
           [weight2 = <number\{1-99\}>]
           [weight3 = <number\{0-98\}>]
           [weight4 = <number\{0-97\}>]
           [weight5 = <number\{0-96\}>]
```

dest	The destination of the interface. Typically, a phonebook entry.	Required
background queue	Enable, disable the best effort background queue.	Optional
burstsize	Burstsize in kilo bytes (KB).	Optional
discard	The packet discard strategy in case of congestion.	Optional
ecnthreshold	The ECN marking threshold.	Optional
maxbytes	The maximum size in kilo bytes (KB) in all queues.	Optional
maxpackets	The maximum number of packets in all queues.	Optional
priority	The subqueue priority algorithm.	Optional
qty realtimequeues	Number of real-time priority queues.	Optional
realtimerate	The percentage of the bandwith.	Optional
state	Enable, disable IP QoS for the interface.	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

s Commands			Pden
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	



ipqos ef

Following commands are available:

config : Modify an IP QoS EF timer configuration for an interface.

list : Display the IP QoS EF timers.

stats : Display the IP QoS EF timer statistics.



ipqos ef config

Modify an IP QoS EF timer configuration for an interface.

Syntax:

```
config intf = <{ (see Parameters) }>
        [mtu = <number{68-65535}>]
        [state = <{disabled|enabled}>]
        [timeout = <number{100-10000}>]
```

intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
mtu	The MTU of the IP interface in case of EF data.	Optional
state	Enable, disable IP QoS EF timer for the interface.	Optional
timeout	The timeout in mili seconds.	Optional



ipqos ef list

Display the IP QoS EF timers.

Syntax:		
list		



ipqos ef stats

Display the IP QoS EF timer statistics.

Syntax:		
stats		



ipqos list

Display the IP QoS configuration.

Syntax:			
list			



ipqos queue

Following commands are available:

config
ist
bisplay the IP QoS subqueue configuration.
stats
Display the IP QoS subqueue statistics.

: Clear the IP QoS statistics.



ipqos queue clear

Clear the IP QoS statistics.

5	Syntax:			
	clear			



ipqos queue config

Modify the IP QoS subqueue configuration.

Syntax:

```
config
         dest = <{pvc ppp|pvc dyn|pvc static}>
        queue = <number\{0-5\}>
[ackfiltering = <{disabled|enabled}>]
     [discard = <{tail|early}>]
  [ecnmarking = <{disabled|enabled}>]
      [hiprio = < number {0-15}>]
         [hold = <number>]
      [loprio = < number {0-15}>]
    [markprob = < number{1-1000}>]
    [maxburst = < number\{1-64\}>]
    [maxbytes = < number {0-256}>]
  [maxpackets = < number {0-500}>]
     [maxrate = < number{1-100}>]
   [propagate = <{disabled|enabled}>]
    [resbytes = \langle number\{0-256\} \rangle]
  [respackets = <number{0-500}>]
```

dest	The destination of the interface. Typically, a phonebook entry.	Required
queue	The number of the subqueue.	Required
ackfiltering	Enable filtering of TCP ACK packets.	Optional
discard	The packet discard strategy in case of congestion.	Optional
ecnmarking	Enable Explicit Congestion Notification for IP packets in this subqueue.	Optional
hiprio	The highest internal priority boundary for entering this queue.	Optional
hold	The hold time in microseconds for early discard strategy.	Optional
loprio	The lowest internal priority boundary for entering this queue.	Optional
markprob	The maximum packet marking probability in parts per mille for early discard strategy.	Optional
maxburst	Burstsize in kilo bytes (KB).	Optional
maxbytes	The maximum subqueue size in kilo bytes (KB).	Optional
maxpackets	The maximum number of packets in the subqueue.	Optional

maxrate	The percentage of the bandwith.	Optional
propagate	Propagate the packets in lower priority queue iso. dropping.	Optional
resbytes	The reserved subqueue size in kilo bytes (KB).	Optional
respackets	The reserved number of packets in the subqueue.	Optional



ipqos queue list

Display the IP QoS subqueue configuration.

Syntax:

list [dest = <{pvc_ppp|pvc_dyn|pvc_static}>]

dest	The destination of the interface. Typically, a phonebook entry.	Optional
	r	



ipqos queue stats

Display the IP QoS subqueue statistics.

Syntax:

dest	The destination of the interface. Typically, a phonebook entry.	Optional
	1	

koa Commands



koa

Following commands are available:

a : Add atomic object key information

Note: koa is missing from the ':help' group list

koa Commands



koa a

Add atomic object key information

Syntax:

```
a d = <string>
[l = <{no|yes}>]
```

d	Data blob	Required
1	Last line in koi list	Optional

koi Commands



koi

Following commands are available:

a : Add igd object key information

Note: koi is missing from the ':help' group list

koi Commands



koi a

Add igd object key information

Syntax:

```
a d = <string>
[l = <{no|yes}>]
```

d	Data blob	Required
1	Last line in koi list	Optional

kta Commands



kta

Following commands are available:

a : Add atomic type key information

Note: kta is missing from the ':help' group list

kta Commands



kta a

Add atomic type key information

Syntax:

```
a d = <string>
 [l = <{no|yes}>]
```

d	Data blob	Required
1	Last line in koi list	Optional

kti Commands



kti

Following commands are available:

a : Add igd type key information

Note: kti is missing from the ':help' group list

kti Commands



kti a

Add igd type key information

Syntax:

```
a d = <string>
  [l = <{no|yes}>]
```

d	Data blob	Required
l	Last line in koi list	Optional



<u>label</u>

Following commands are available:

add : Add a label.

modify : Modify a label configuration.

deletelistbisplay the labels.flushFlush all label.

Following command groups are available:

chain rule



label add

Add a label.

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add name = <string>

Required



label chain

Following commands are available:

add : Add a chain.
delete : Delete a chain.

list : Display a list of chains.

flush : Flush all chains.

modify : Modify a chain.(command is hidden)



label chain add

Add a chain.

Syntax:

```
add chain = <string>
  [policy = <{ (missing) }>]
```

chain	The name of the chain to add.	Required
policy		Hidden



label chain delete

Delete a chain.

Su	nt	ax:
~ 9	,,,,	u.

delete chain = <chain name>

chain The name of the chain to delete.	Required
--	----------



label chain flush

Flush all chains.

Syntax:		
flush		



label chain list

Display a list of chains.

Syntax:

list [format = <{pretty|cli}>]

Parameters:

format The format of the chain list. Optional



label chain modify

Modify a chain.(command is hidden)

Syntax:

```
modify chain = <chain name>
    [policy = <{ (missing) }>]
```

chain	The name of the chain to modify.	Required
policy		Hidden



label delete

Delete a label.

Syntax:

```
delete name = <{ (see Parameters) }>
```

name	The name of a label.	Required
	Options: <{Blank DSCP Interactive Management	-
	Video VoIP-RTP VoIP-Signal default}>	



label flush

Flush all label.

Syntax:		
flush		



label list

Display the labels.

Syntax:

```
list [name = <{ (see Parameters) }>]
```

name	The name of a label.	Optional
	Options: <{Blank DSCP Interactive Management	_
	Video VoIP-RTP VoIP-Signal default}>	



label modify

Modify a label configuration.

Syntax:

```
modify    name = <{(see Parameters)}>
        [ackclass = <{(see Parameters)}>]
        [bidirectional = <{disabled|enabled}>]
        [classification = <{ignore|overwrite|increase}>]
        [defclass = <{(see Parameters)}>]
        [dscp = <{(see Parameters)}>]
        [inheritance = <{disabled|enabled}>]
        [precedence = <{(see Parameters)}>]
        [tos = <number{0-255}>]
        [tosmarking = <{disabled|enabled}>]
        [trace = <{disabled|enabled}>]
```

name	The name of a label to modify. Options: <{Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Required
ackclass	The class of ACK segments of TCP connection. Options: <{0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 prioritize defclass}>	Optional
bidirectional	The label is also valid for returning stream.	Optional
classification	The Method of classification.	Optional
defclass	The default class of assigned connection. Options: $<\{0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 $ dscp default}>	Optional
dscp	The diffserv code point (part of tos, used for tosmarking). Options: <{ef af11 af12 af13 af21 af22 af23 af31 af32 af33 af41 af42 af43 cs0 cs1 cs2 cs3 cs4 cs5 cs6 cs7} or number>	Optional
inheritance	The label is also valid for corresponding stream of child connection.	Optional
precedence	The precedence (part of tos, used for tos-marking). Options: <{routine priority immediate flash flash- override CRITIC-ECP internetwork-control network-control} or number>	Optional
tos	The Type Of Service specification in the IP packet (used for tos- marking).	Optional
tosmarking	Enable/disable TOS marking.	Optional

trace

Enable/disable IP tracing for this label.

Optional



label rule

Following commands are available:

add : Add a rule.delete : Delete a rule.modify : Modify a rule.

list : Display a list of rules.

flush : Flush all rules.

Following command groups are available:

debug



label rule add

Add a rule.

Syntax:

```
add chain = <chain name>
  label = <{(see Parameters)}>
  [clink = <chain name>]

[connstate = <{(missing)}>]
  [dstintf = <{(missing)}>]
  [dstip [!] = <{(see Parameters)}>]
  [index = <number>]
  [length [!] = <{}>]
  [log = <{disabled|enabled}>]
  [name = <string>]
  [newindex = <{(missing)}>]
  [serv [!] = <{(see Parameters)}>]
  [srcintf [!] = <{wan|local|lan|tunnel|dmz|guest}>]
  [srcip [!] = <{(see Parameters)}>]
  [srcmac = <{(missing)}>]
  [srcmac = <{(disabled|enabled}>]
```

chain	The name of the chain which contains the rule.	Required
label	None, link (when clink is used) or label name. Options: <{None link Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Required
clink	The name of the chain to be parsed when this rule applies.	Optional
connstate		Hidden
dstintf		Hidden
dstip	The name of the destination ip expression. (Can optionally use "!=") Options: <{private ssdp_ip mdap_ip 192.68.1.253}>	Optional
index	The index of the rule in the chain.	Optional
length	The name of the length expression. (Can optionally use "!=")	Optional
log	Disable/Enable logging when this rule applies.	Optional
name	The name of the new rule.	Optional
newindex		Hidden

Comma	nds	helpsy	
serv	The name of the service expression. (Can optionally use "!=") Options: <{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}>	Optional	
srcintf	The name of the source interface expression. (Can optionally use "!=")	Optional	
srcip	The name of the source ip expression. (Can optionally use "!=") Options: <{private ssdp_ip mdap_ip 192.68.1.253}>	Optional	
srcmac		Hidden	
state	Disable/Enable this rule.	Optional	



label rule debug

Following commands are available:

traceconfig : Display/Modify rule trace configuration.

stats : Display rule statistics. clear : Clear rule statistics.



label rule debug clear

Clear rule statistics.

Syntax:

```
clear [chain = <chain name>]
    [index = <number>]
```

chain	The name of the chain.	Optional
index	The index of the rule in the chain.	Optional



label rule debug stats

Display rule statistics.

Syntax:

```
stats [chain = <chain name>]
   [index = <number>]
```

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.

Syntax:

traceconfig [state = <{disabled|enabled}>]

state	Disable/Enable rule traces.	Optional
-------	-----------------------------	----------



label rule delete

Delete a rule.

Syntax:

```
delete chain = <chain name>
    index = <number>
```

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.

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flush [chain = <chain name>]

Parameters:

chain The name of the chain to flush. Optional



label rule list

Display a list of rules.

Syntax:

```
list [chain = <chain name>]
   [format = <{pretty|cli}>]
```

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.

Syntax:

```
modify chain = <chain name>
      [clink = <chain name>]
  [connstate = <{ (missing) }>]
    [dstintf = <{ (missing) }>]
   [[!]dstip]
      [index = <number>]
      [label = <{(see Parameters)}>]
  [[!]length]
        [log = <{disabled|enabled}>]
       [name = <string>]
   [newindex = <number>]
    [[!]serv]
 [[!]srcintf]
   [[!]srcip]
     [srcmac = <{ (missing) }>]
      [state = <{disabled|enabled}>]
```

chain	The name of the chain which contains the rule.	Required
clink	The name of the chain to be parsed when this rule applies.	Optional
connstate		Hidden
dstintf		Hidden
dstip	The name of the destination ip expression. (Optionally prepend a "!" to mean NOT)	Optional
index	The index of the rule in the chain.	Optional
label	None, link (when clink is used) or label name. Options: <{None link Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional
length	The name of the length expression. (Optionally prepend a "!" to mean NOT)	Optional
log	Disable/Enable logging when this rule applies.	Optional
name	The name of the new rule.	Optional
newindex	The new index of the rule in the chain.	Optional
serv	The name of the service expression. (Optionally prepend a "!" to mean NOT)	Optional

Commands		helps
srcintf	The name of the source interface expression. (Optionally prepend a "!" to mean NOT)	Optional
srcip	The name of the source ip expression. (Optionally prepend a "!" to mean NOT)	Optional
srcmac		Hidden
state	Disable/Enable this rule.	Optional



language

Following commands are available:

config : Select a language.

listdeleteList available languages archives.Delete one or all language archives.

exclude : Exclude a file from translation(command is hidden)
flush : Flush list of files excluded from translation(command is

hidden)

: Setting language definition context(command is hidden)

t : Add a translation record.(command is hidden)



language config

Select a language.

Syntax:

```
config [complete = <{yes|no}>]
    [language = <string>]
```

complete	Enable translation for expert pages.	Optional
language	Language code : OSI language code (2 chars) for language (en=English)	Optional



language delete

Delete one or all language archives.

Syntax:

```
delete [all <{yes|no}>]
    [file = <string>]
```

all	Deletes all languages archives.	Optional
file	Filename: name of language archive to delete	Optional



language exclude

Exclude a file from translation(command is hidden)

Syntax:

exclude file = <string>

Parameters:

file Filename: name of file to exclude from translation Required



language flush

Flush list of files excluded from translation(command is hidden)

Syntax:		
flush		

language Commands



language langdef

Setting language definition context(command is hidden)

Syntax:

```
langdef lang = <string>
  [charset = <{ (missing) }>]
```

lang	Language code : OSI language code (2 chars) for language (en=English)	Required
charset		Hidden

language Commands



language list

List available languages archives.

Syntax:		
list		

language Commands



language t

Add a translation record.(command is hidden)

Syntax:

t r = <quoted string>

r Translation record string "number,text"	Required
---	----------



mbus

Following commands are available:

: Display the registered enumtypes listenums : Display the registered objecttypes listtypes : Display the object instances listobjects : Display the context instances listcontexts listsubscriptions: Display the subscription instances

: Simulate event from plugin pluginevent

: Unregister a client/plugin context unregister

: Dump the registered datamodel to an XML file xmldump

Following command groups are available:

client debug



mbus client

Following commands are available:

register : Register cli client to mbus

unregister : Unregister cli client from mbus

config : Modify client parameters

exec : Execute mbus command authenticate : Authenticate a session

termsession : Terminate a session



mbus client authenticate

Authenticate a session

Syntax:

Authentication type Options: <{cleartext crypt digest defaultuser}>	Required
IP address of peer who inititated the authentication request.	Optional
password	Optional
User name	Optional
	Options: <{cleartext crypt digest defaultuser}> IP address of peer who inititated the authentication request. password



mbus client config

Modify client parameters

Syntax:

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



mbus client exec

Execute mbus command

Syntax:

```
cmd = <{ (see Parameters) }>
exec
     [accesslist = <quoted string>]
         [action = <{(see Parameters)}>]
      [attribute = <{ (see Parameters) }>]
          [depth = <number>]
         [filter = <quoted string>]
          [flags = <{(see Parameters)}>]
        [gettype = <{parameter|path|object}>]
       [modifier = <{ (see Parameters) }>]
      [no output = <{disabled|enabled}>]
[onerrorrollback = <{enabled|disabled}>]
          [param = <quoted string>]
           [path = <quoted string>]
     [processcmd = <{enabled|disabled}>]
      [replytype = <{(see Parameters)}>]
         [timing = <{disabled|enabled}>]
    [usecallback = <{enabled|disabled}>]
          [value = <quoted string>]
```

cmd	Mbus command name Options: <{getpath getcount getnames getvalues setvalue addobject deleteobject subscribe unsubscribe getaccessrights setaccessrights}>	Required
accesslist	Comma separated names of accessrights groups	Optional
action	Type of accessright action Options: <[+/-]flag[+/-flag]{read write attrchg}>	Optional
attribute	Requested attribute-type Options: <\{ar_archg ar_read ar_write param_cached param_enums param_eventable param_key param_min param_mandatory param_max param_readable param_type param_writable param_xrefs objtype_cached objtype_max objtype_writable object_clean object_dynamic type}>	Optional
depth	Number of levels to recurse, default=-1 (all)	Optional
filter	The filter should be formatted as '(operator operand operand)'. Possible operators are ==, !=, <, <=, >, >=, and, or, not. The left operand is a	Optional

Command	ls	he
	parameter name. The right operand is a parameter value. For boolean operators the operands are filters. Example: '(== Name etho)'.	
lags	Client command data flags Options: <[+/-]flag[+/-flag]{indexpath keystrpath uncommitted dynamicsynchronize sub_addobj sub_delobj sub_update firstnextxref_localidx xref_keypath exact_depth noparamvalue applyonparamsapplyrecursive typetreepath non_persistent}>	Optional
ettype	Get type elements (default=param)	Optional
difier	Accessrights modifier Options: <{add delete allow_only allow_except}>	Optional
_output	Discard the output of the command (default=disabled)	Optional
errorrollback	on error rollback flag (default=enabled)	Optional
am	Parameter name	Optional
:h	Fully qualified mbus path	Optional
ocesscmd	Process SET_VALUE command flag (default=enabled)	Optional
plytype	Type of accessrights reply Options: <{getallowed getdisallowed getasconfigured}>	Optional
ning	Print duration of command invocation (default=disabled)	Optional
secallback	Use result callback function (default=enabled)	Optional
lue	Parameter value to set	Optional



mbus client register

Register cli client to mbus

Syntax:

```
register [dlink = <{local_ipc|remote_inet}>]
        [dmtree = <{igd|atomic|system}>]
        [mbusd_addr = <quoted string>]
        [refresolv = <{disabled|enabled}>]
        [state_events = <{disabled|enabled}>]
        [type = <{indexpath|keystrpath}>]
```

dlink	Daemon link (default = local_ipc)	Optional
dmtree	Select mbusd datamodel tree.	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 (default=disabled)	Optional
type	Path type (default = indexpath)	Optional



mbus client termsession

Terminate a session

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termsession id = <number>

id	id of session	to terminate	Required
----	---------------	--------------	----------



mbus client unregister

Unregister cli client from mbus

Syntax:		
unregister		



mbus debug

Following commands are available:

statsclearstatsDisplay mbus statistics.Reset mbus statistics.

traceconfig : Modify mbus trace settings.

loadobjects : Load/sync object instances from plugins

unloadobjects : Unload object instances

commconfig : Modify communication settings.



mbus debug clearstats

Reset mbus statistics.

Syntax.	
---------	--

clearstats



mbus debug commconfig

Modify communication settings.

commconfig [pong-to = <number>]

Parameters:

pong-to MBus message communication pong time-out. Optional



mbus debug loadobjects

Load/sync object instances from plugins

Syntax:

dmtree	Select mbusd datamodel tree.	Optional
eventing		Hidden
flush	Flush objects before load (default=disabled)	Optional
notifyplugin		Hidden
path	Fully qualified mbus path	Optional
type	Path type (default = indexpath	Optional



mbus debug stats

Display mbus statistics.

Syntax:		
stats		



mbus debug traceconfig

Modify mbus trace settings.

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traceconfig [level = <number{0-4}>]

Parameters:

level Select mbus trace level (0-4). Optional



mbus debug unloadobjects

Unload object instances

Syntax:

dmtree	Select mbusd datamodel tree.	Optional
eventing		Hidden
flush	Flush objects before load (default=disabled)	Optional
notifyplugin		Hidden
path	Fully qualified mbus path	Optional
type	Path type	Optional



mbus listcontexts

Display the context instances

Syntax:

dmtree	Select mbusd datamodel tree.	Optional
expand	Details enabled/disabled	Optional



mbus listenums

Display the registered enumtypes

Syntax:

dmtree	Select mbusd datamodel tree.	Optional
expand	Details enabled/disabled	Optional
name	Filter enumtypes by (part of) the name	Optional



mbus listobjects

Display the object instances

Syntax:

dmtree	Select mbusd datamodel tree.	Optional
output	List output type	Optional
path	Fully qualified mbus path to list.	Optional
showflags	Display object flags (Clean or Dirty / Persistent or Volatile)	Optional
type	Path type (default = indexpath)	Optional



mbus listsubscriptions

Display the subscription instances

Syntax:

listsubscriptions [dmtree = <{igd|atomic|system}>]

dmtree Select mbusd datamodel tree.	Optional
-------------------------------------	----------



mbus listtypes

Display the registered objecttypes

Syntax:

dmtree	Select mbusd datamodel tree.	Optional
expand	Details enabled/disabled	Optional
path	Fully qualified mbus path to list.	Optional



mbus pluginevent

Simulate event from plugin

Syntax:

ctxid	Plugin context id	Required
path	Plugin event subpath	Required
type	Event type	Required
flags	Plug-in event flags Options: <[+/-]flag[+/-flag]{dynamic save}>	Optional
name	Plugin event name	Optional
orivalue	Plugin event orivalue	Optional
value	Plugin event value	Optional



mbus unregister

Unregister a client/plugin context

ntax:	
	ntax:

unregister id = <number>

Parameters:

id Select message-based client/plugin context id. Required



mbus xmldump

Dump the registered datamodel to an XML file

Syntax:

```
xmldump filename = <string>
    [format = <{unix|mac|windows}>]
```

filename	Filename.	Required
format	Select output file format.	Optional



memm

Following commands are available:

stats : Display memm statistics.

listobjects : Display objects.

Following command groups are available:

debug



memm debug

Following commands are available:

stats : Display memm time statistics.

clear states : Clear time statistics.

traceconfig : Modify memm trace settings.

: (Un)tag memory manager objects.

Following command groups are available:

lock



memm debug clearstats

Clear time statistics.

Syntax:	
clearstats	



memm debug lock

Following commands are available:

statstraceconfigDisplay lock statistics.Modify lock trace settings.



memm debug lock stats

Display lock statistics.

Syntax:		
stats		



memm debug lock traceconfig

Modify lock trace settings.

Syntax:

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)	Optional



memm debug stats

Display memm time statistics.

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stats [name = <quoted string>]

name Select typename(s) to list (supports parti typename)	rtial Optional
---	----------------



memm debug tag

(Un)tag memory manager objects.

Syntax:

```
tag [name = <quoted string>]
   [tag = <{enabled|disabled}>]
```

name	Select typename(s) to list (supports partial typename)	Optional
tag	Set (or unset) the tag	Optional



memm debug traceconfig

Modify memm trace settings.

Syntax:

traceconfig [level = <number{0-4}>]

Parameters:

level Select memm trace level (0-4). Optional



memm listobjects

Display objects.

Syntax:

hidedeldynstr	Hide (yes) / show (no) deleted dynstrings (default = show)	Optional
name	Select typename(s) to list (supports partial typename)	Optional
tagged	Show only tagged (yes) or untagged (no) objects	Optional

memm Commands



memm stats

Display memm statistics.

Syntax:

stats [name = <quoted string>]

typename)	name	Select typename(s) to list (supports partial typename)	Option
-----------	------	--	--------



mlp

Following commands are available:

import : Import all scores.

flush : Flush all mlp structures.

Following command groups are available:

debug privilege role interaction

zone



mlp debug

Following commands are available:

export : Export all scores.
stats : Display mlp statistics.
traceconfig : Modify mlp trace settings.



mlp debug export

Export all scores.

Syntax:			
export			



mlp debug stats

Display mlp statistics.

,	Syntax:			
	stats			



mlp debug traceconfig

Modify mlp trace settings.

Syntax:

traceconfig [trace = <{disabled|enabled|full}>]

trace	Select mlp trace	level.	Optional	
-------	------------------	--------	----------	--

helpell

mlp flush

Flush all mlp structures.

Syntax:			
flush			



mlp import

Import all scores.

Syntax:

```
import [allow_dl = <{no|yes}>]
        [trace = <{disabled|enabled|full}>]
```

allow_dl	Enable/disable support for /dl/ folder	Optional
trace	Select import trace level.	Optional



mlp interaction

Following commands are available:

list : Display the interactions.

config : Display/Modify the interaction score.
addzone : Add the zone to the interaction score.
removezone : Remove the zone from interaction score.

Note: mlp interaction is missing from the ':help mlp' group list



mlp interaction addzone

Add the zone to the interaction score.

Syntax:

```
addzone name = <quoted string>
    type = <{cli|cgi|file|mdap|ftp}>
    zone = <>
    [scorenr = <number{1-2}>]
```

Required
Required
Required
Optional



mlp interaction config

Display/Modify the interaction score.

Syntax:

```
config name = <quoted string>
  [recurse = <{disabled|enabled}>]
    [score = <{ (see Parameters) }>]
    [score2 = <{ (see Parameters) }>]
    [type = <{cli|cgi|file|mdap|ftp|*}>]
    [verbose = <{minimal|medium|all}>]
```

name	Select the interaction name.	Required
recurse	Recursive config (cli only).	Optional
score	Set the score. Options: <{hex-word}[:{hex-word}] ex: 'a12:c30f'>	Optional
score2	Set the score2. Options: <{hex-word}[:{hex-word}] ex: 'a12:c30f'>	Optional
type	Select the interaction type.	Optional
verbose	Limit the output list.	Optional



mlp interaction list

Display the interactions.

Syntax:

```
list [name = <quoted string>]
    [type = <{cli|cgi|file|mdap|ftp}>]
    [verbose = <{minimal|medium|all}>]
```

name	Select a subgroup to list.	Optional
type	Select the interaction type.	Optional
verbose	Limit the output list.	Optional



mlp interaction removezone

Remove the zone from interaction score.

Syntax:

```
removezone name = <quoted string>
          type = <{cli|cgi|file|mdap|ftp}>
          zone = <>
          [scorenr = <number{1-2}>]
```

name	Select the interaction name.	Required
type	Select the interaction type.	Required
zone	Zone to add.	Required
scorenr	Select score number to change.	Optional



mlp privilege

Following commands are available:

add : Add a privilege.
delete : Delete a privilege.

addzone : Add a zone to a privilege.

removezone : Remove a zone from a privilege.

listconfigDisplay the privileges.Modify the privilege.



mlp privilege add

Add a privilege.

Syntax:

```
add name = <string>
    type = <{access|service}>
    [descr = <quoted string>]
```

name	Privilege name.	Required
type	Privilege type.	Required
descr	Privilege description.	Optional



mlp privilege addzone

Add a zone to a privilege.

Syntax:

```
addzone name = <>
    zone = <{ (see Parameters) }>
```

name	Privilege name.	Required
zone	Zone name.	Required
	Options: <{Read/LAN/WAN/Local	
	Write/LAN/WAN/Local r_lan r_wan r_fs_view	
	r_fs_retrieve r_rtg r_fwdg r_nat r_frwl	
	r_ipsec_norm r_ipsec_adv 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}>	



mlp privilege config

Modify the privilege.

Syntax:

```
config name = <>
    [descr = <quoted string>]
    [score = <{ (see Parameters) }>]
```

name	Select the privilege by name.	Required
descr	Set the description.	Optional
score	Set the score. Options: <{hex-word}[:{hex-word}] ex: 'a12:c30f'>	Optional



mlp privilege delete

Delete a privilege.

ntax:	
	ntax:

delete name = <>

Parameters:

name Privilege name. Required



mlp privilege list

Display the privileges.

Syntax:

```
list [name = <{ (see Parameters) }>]
    [type = <{access|service}>]
    [verbose = <{minimal|medium|all}>]
```

name	Privilege name. Options: <{anyaccess anyservice AP1 AP2 AP3 AP4 AP5 AP6 AP7 AP8 AP9 SP1 SP10 SP11 SP12 SP13 SP14 SP15 SP16 SP17 SP18 SP19 SP2 SP21 SP22 SP23 SP24 SP25 SP3 SP4 SP5 SP6 SP7 SP8 SP9}>	Optional
type	Privilege type.	Optional
verbose	Limit the output list.	Optional



mlp privilege removezone

Remove a zone from a privilege.

Syntax:

```
removezone name = <>
    zone = <{ (see Parameters) }>
```

name	Privilege name.	Required
zone	Zone name. Options: <{Read/LAN/WAN/Local Write/LAN/WAN/Local r_lan r_wan r_fs_view r_fs_retrieve r_rtg r_fwdg r_nat r_frwl r_ipsec_norm r_ipsec_adv 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}>	Required



mlp role

Following commands are available:

add : Add a role.

delete : Delete a role.

addpriv : Add a privilege.

removepriv : Remove a privilege.

list : Display the roles.

config : Modify the role.



mlp role add

Add a role.

Syntax:

```
add name = <string>
  parent = <>
  [descr = <quoted string>]
```

name	Role name.	Required
parent	Parent role name.	Required
descr	Role description.	Optional



mlp role addpriv

Add a privilege.

Syntax:

```
addpriv access = <>
    name = <>
    service = <{ (see Parameters) }>
```

access	Access privilege to add.	Required
name	Role name.	Required
service	Privilege name to add. Options: <{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}>	Required



mlp role config

Modify the role.

Syntax:

```
config name = <>
    [descr = <quoted string>]
    [parent = <>]
```

name	Role name.	Required
descr	Role description.	Optional
parent	Parent role name.	Optional



mlp role delete

Delete a role.

ntax:	
	ntax:

delete name = <>

Parameters:

name Role name. Required



mlp role list

Display the roles.

Syntax:

```
list [name = <>]
  [verbose = <{minimal|medium|all}>]
```

name	Role name.	Optional
verbose	Limit the output list.	Optional



mlp role removepriv

Remove a privilege.

Syntax:

```
removepriv access = <>
    name = <>
    [service = <>]
```

access	Access privilege to delete.	Required
name	Role name.	Required
service	Privilege name to delete.	Optional



mlp zone

Following commands are available:

add : Add a zone.
delete : Delete a zone.
list : Display zones.
config : Modify a zone.

 $\verb|configintfgroup| : Modify interface group zone numbers.\\$

configchannelsconfigoriginModify channel zone numbers.Modify origin zone numbers.

configsecconn : Modify secure connection zone number.

configsecfile : Modify secure files zone number.

configtrace : Modify trace zone number.

Note: mlp zone is missing from the ':help mlp' group list



mlp zone add

Add a zone.

Syntax:

```
add name = <string>
  zonenr = <number>
  [descr = <quoted string>]
```

name	Zone name	Required
zonenr	Zone number	Required
descr	Zone description	Optional



mlp zone config

Modify a zone.

Syntax:

```
config zonenr = <number>
  [descr = <quoted string>]
  [name = <string>]
```

zonenr	Zone number	Required
descr	Zone description	Optional
name	Zone name	Optional



mlp zone configchannels

Modify channel zone numbers.

Syntax:

```
configchannels [ftp = <number>]
        [http = <number>]
        [mdap = <number>]
        [serial = <number>]
        [telnet = <number>]
```

ftp	Ftp application zone number	Optional
http	Http application zone number	Optional
mdap	Mdap application zone number	Optional
serial	Serial application zone number	Optional
telnet	Telnet application zone number	Optional



mlp zone configintfgroup

Modify interfacegroup zone numbers.

Syntax:

lan	Lan zone number	Optional
local	Local zone number	Optional
rw	Read/write config action	Optional
target	Target dynamic zone number	Optional
wan	Wan zone number	Optional



mlp zone configorigin

Modify origin zone numbers.

Syntax:

```
configorigin [lan = <number>]
        [local = <number>]
        [wan = <number>]
```

lan	Lan origin zone number	Optional
local	Local origin zone number	Optional
wan	Wan origin zone number	Optional



mlp zone configsecconn

Modify secure connection zone number.

Syntax:		
configsed	cconn [zonenr = <number>]</number>	
Parameters:		
zonenr	Secure connection zone number	Optional



mlp zone configsecfile

Modify secure files zone number.

Syntax:		
configsed	cfile [zonenr = <number>]</number>	
Parameters:	•	
zonenr	Secure files zone number	Optional

mlp Commands



mlp zone configtrace

Modify trace zone number.

Syntax:

configtrace [zonenr = <number>]

Parameters:

zonenr Trace zone number Optional



mlp zone delete

Delete a zone.

Syntax:

```
delete name = <{(see Parameters)}>
```

name	Zone name	Required
	Options: <{Read/LAN/WAN/Local	-
	Write/LAN/WAN/Local r_lan r_wan r_fs_view	
	r_fs_retrieve r_rtg r_fwdg r_nat r_frwl	
	r_ipsec_norm r_ipsec_adv 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}>	

mlp Commands



mlp zone list

Display zones.

Syntax:		
list		



mobile

Following commands are available:

ifadd
: Create a new Mobile interface.
ifdelete
: Delete an Mobile interface.
ifconfig
: Configure an Mobile interface.
ifattach
: Attach an Mobile interface.
ifdetach
: Detach an Mobile interface.
iflist
: Display the Mobile interfaces.
simcard
: Get a state of the SIM card.

Following command groups are available:

debug device



mobile debug

Following commands are available:

showsq
 Shows the currently selected operator.
 Shows signal quality (RSSI & BER).
 sendat
 Send AT command to the modem card.

 ${\tt trace config} \qquad \qquad : \ \ {\tt Modify \, trace \, configuration}$



mobile debug operator

Shows the currently selected operator.

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operator [list = <{current|all}>]

Parameters:

list List only the current or all Optional



mobile debug sendat

Send AT command to the modem card.

Syntax:				
sendat	command =	= <quoted< th=""><th>string></th><th></th></quoted<>	string>	

Required



mobile debug showsq

Shows signal quality (RSSI & BER).

Syntax:	
showsq	



mobile debug traceconfig

Modify trace configuration

Su	nt	ax:
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traceconfig [state = <{disabled|enabled}>]

state	Enable/disable tracing.	Optional
-------	-------------------------	----------



mobile device

Following commands are available:

list : List mobile devices

adddeletedeletedeletedeletedeletedeletedeletedevice(command is hidden)



mobile device add

Add a mobile device(command is hidden)

Syntax:

```
add atinterface = <number>
  datainterface = <number>
    modempid = <string>
    modemvid = <string>
    name = <quoted string>
    [forceusb11 = <{yes|no}>]

[modeswitchparam = <quoted string>]
  [storagepid = <string>]
  [storagevid = <string>]
```

atinterface	AT Port USB Interface	Required
datainterface	AT Port USB Interface	Required
modempid	Modem PID (hex)	Required
modemvid	Modem VID (hex)	Required
name	Name	Required
forceusb11	Force USB 1.1	Optional
modeswitch param	Modeswitch parameters	Optional
storagepid	Storage PID (hex)	Optional
storagevid	Storage VID (hex)	Optional



mobile device delete

Delete a mobile device(command is hidden)

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delete name = <quoted string>

name	Name	Required
------	------	----------



mobile device list

List mobile devices

Syntax:		
list		



mobile ifadd

Create a new Mobile interface.

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ifadd intf = <string>

intf The name of the new mobile interface	Required
---	----------



mobile ifattach

Attach an Mobile interface.

Su	nta.	γ.
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ifattach intf = <>

Parameters:

intf The name of the Mobile interface. Required



mobile ifconfig

Configure an Mobile interface.

Syntax:

```
ifconfig intf = <>
        [apn = <string>]
    [initcommand = <string>]
        [mode = <{automatic|manual}>]
        [operator = <number{0-99999}>]
        [pin = <password>]
        [puk = <string>]
        [technology = <{2G|3G}>]
```

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



mobile ifdelete

Delete an Mobile interface.

Su	nta.	γ.
ν_g	iiiu.	л.

ifdelete intf = <>

Parameters:

intf The name of the Mobile interface. Required



mobile ifdetach

Detach an Mobile interface.

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ifdetach intf = <>

Parameters:

intf The name of the Mobile interface. Required



mobile iflist

Display the Mobile interfaces.

Syntax:

iflist [intf = <>]

Parameters:

intf The name of the Mobile interface. Optional



mobile simcard

Get a state of the SIM card.

Syntax:			
simcard			



nat

Following commands are available:

ifconfig : Modify address translation on an IP interface.

iflist : Display all interfaces.

mapadd : Add an address mapping to a nat enabled interface.

mapdelete : Delete an address mapping from a nat enabled interface.

maplist : Display address mappings.

tmpladd
 tmpldelete
 tmpllist
 Add an address mapping template.
 Delete an address mapping template.
 tmpllist
 Display address mapping templates.

tmplinst : Instantiate address mapping templates for a given dynamic

address.

configflushModify global NAT configuration.Flush current NAT configuration.



nat config

Modify global NAT configuration.

Syntax:

randomports	Enable/disable randomization of port translations.	Optional
trace	Enable/disable traces.	Optional



nat flush

Flush current NAT configuration.

Syntax:		
flush		



nat ifconfig

Modify address translation on an IP interface.

Syntax:

```
ifconfig intf = <{(see Parameters)}>
  translation = <{disabled|enabled|transparent}>
```

intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
translation	Disabled, enabled or tranparent address translation.	Required



nat iflist

Display all interfaces.

Syntax:		
iflist		



nat mapadd

Add an address mapping to a nat enabled interface.

Syntax:

```
mapadd intf = <{(see Parameters)}>
  [access_list = <ip-range>]
  [foreign_addr = <ip-range>]
      [inbound = <{(missing)}>]
  [inside_addr = <ip-range>]
  [inside_port = <port-range>]
      [mode = <{auto|inbound|outbound}>]
  [outside_addr = <ip-range>]
  [outside_port = <port-range>]
  [outside_port = <port-range>]
  [protocol = <{(see Parameters)}>]
  [status = <{up|down}>]
      [type = <{napt|nat}>]
      [weight = <number{0-255}>]
```

intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
access_list	The range of inside addresses the mapping is restricted to.	Optional
foreign_addr	dr The range of destination addresses the mapping is restricted to.	
inbound		Hidden
inside_addr	The inside (typically private) IP address (range for NAT).	Optional
inside_port	The inside port number or range (only for NAPT).	Optional
mode	The mode to create the portmap.	Optional
outside_addr	outside_addr The outside (typically public) IP address (range for NAT).	
outside_port	The outside port number or range (only for NAPT).	Optional
protocol	The IP protocol. Options: <{ah egp esp ggp gre hmp icmp igmp pup rdp rsvp tcp udp vines xns-idp 6to4 ipip} or number>	Optional
status	The administrative state of mapping.	Optional
type	The type of mapping.	Optional

weight The weight for the portmap. Optional



nat mapdelete

Delete an address mapping from a nat enabled interface.

Syntax:

```
mapdelete index = <number>
    intf = <{(see Parameters)}>
```

index	The map index as listed by ':nat maplist'.	Required
intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required



nat maplist

Display address mappings.

Syntax:

```
maplist [expand = <{disabled|enabled}>]
        [intf = <{ (see Parameters) }>]
        [sort_s = <{ (missing) }>]
```

expand	Expanded listing.	Optional
intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
sort_s		Hidden



nat tmpladd

Add an address mapping template.

Syntax:

```
tmpladd outside_addr = <ip-range>
        [access_list = <ip-range>]
        [foreign_addr = <ip-range>]
        [group = <{(see Parameters)}>]
        [inbound = <{(missing)}>]
        [inside_addr = <ip-range>]
        [inside_port = <port-range>]
        [intf = <{(see Parameters)}>]
        [mode = <{auto|inbound|outbound}>]
        [outside_port = <port-range>]
        [protocol = <{(see Parameters)}>]
        [status = <{up|down}>]
        [timeout = <number{0-65535}>]
        [type = <{napt|nat}>]
        [weight = <number{0-255}>]
```

outside_addr	outside_addr The outside (typically public) IP address or index (range for NAT).	
access_list	The range of inside addresses the template is restricted to.	
foreign_addr	The range of destination addresses the template is restricted to.	Optional
group	The IP interface group scope for this template. Options: <{wan local lan tunnel dmz guest} or number>	Optional
inbound		Hidden
inside_addr The inside (typically private) IP address or index (range for NAT).		Optional
inside_port	nside_port The inside port number or range (only for NAPT).	
intf	The IP interface name scope for this template. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
mode	The mode to create the portmap.	Optional
outside_port	The outside port number or range (only for NAPT).	Optional
protocol	The IP protocol. Options: <{ah egp esp ggp gre hmp icmp igmp	Optional

ommands		hel
	pup rdp rsvp tcp udp vines xns-idp 6to4 ipip} or number>	
status	The administrative state of template.	Optional
timeout	Lifetime (seconds) for this template.	Optional
type	The type of template.	Optional
weight	The weight to be used for the template instance(s).	Optional



nat tmpldelete

Delete an address mapping template.

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tmpldelete index = <number>

Parameters:

index The template index as listed by ':nat tmpllist'. Required



nat tmplinst

Instantiate address mapping templates for a given dynamic address.

Syntax:

addr_index	The outside IP address index/key to instantiate for.	Required
dynamic_addr	The dynamic address to substitute the index/key with.	Required
intf	The IP interface name. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required



nat tmpllist

Display address mapping templates.

Syntax:

```
tmpllist [expand = <{disabled|enabled}>]
```

expand	Expanded listing.	Optional
--------	-------------------	----------

ppp Commands



ppp

Following commands are available:

ifaddifdeleteifattachCreate a new PPP interface.Delete a PPP interface.ifattachAttach a PPP interface.

: Scan a PPP interface for available interfaces.

ifdetachifconfigModify a PPP interface.iflistDisplay the PPP interfaces.

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

rtdelete : Delete the route for a PPP link.

flush : Flush all PPP interfaces.

simlock : Show allowed list(command is hidden)

Following command groups are available:

relay

ppp Commands



ppp flush

Flush all PPP interfaces.

Syntax:		
flush		



ppp ifadd

Create a new PPP interface.

Syntax:

ifadd intf = <string>

intf	The name for the new PPP interface. If not specified, the destination will double as interface name.	Required
------	--	----------



ppp ifattach

Attach a PPP interface.

Syntax:

ifattach intf = <{}>

Parameters:

intf The name of the PPP interface. Required



ppp ifconfig

Modify a PPP interface.

Syntax:

```
ifconfig intf = <{}>
       [accomp = <{enabled|disabled|negotiate}>]
       [acname = <quoted string>]
         [auth = <{pap|chap|auto}>]
        [class = <{ (see Parameters) }>]
 [concentrator = <{disabled|enabled}>]
   [demanddial = <{disabled|enabled}>]
         [dest = <{ (see Parameters) }>]
    [dnsmetric = \langle number\{0-100\} \rangle]
     [doddelay = < number \{0-3600\} >]
         [echo = <number>]
[echotolerance = <number{1-100}>]
       [format = <{cidr|dotted|none}>]
     [idletime = < number {0-1000000}>]
  [idletrigger = <{RxTx|Rx|Tx}>]
        [laddr = <ip-address>]
          [mru = < number \{256-1500\} > ]
      [netmask = <ip-mask(dotted or cidr)>]
      [passive = <{disabled|enabled}>]
     [password = <password>]
        [pcomp = <{ (missing) }>]
         [pool = < \{none\}>]
      [poolend = <{ (missing) }>]
    [poolstart = <{ (missing) }>]
      [primdns = <ip-address>]
        [raddr = <ip-address>]
      [restart = <{disabled|enabled}>]
[retryinterval = < number {0-65535}>]
      [savepwd = <{disabled|enabled}>]
       [secdns = <ip-address>]
  [servicename = <quoted string>]
       [silent = <{disabled|enabled}>]
       [status = <{ (missing) }>]
[subnetfirstip = <{disabled|enabled}>]
        [trace = <{disabled|enabled}>]
   [unnumbered = <{disabled|enabled}>]
         [user = <string>]
```

intf	The name of the PPP interface to configure.	Required
accomp	Try to negotiate PPP address & control field	Optional

ommands		he
Ommanas		
	compression (LCP ACCOMP).	
acname	The access concentrator name for a PPP session.	Optional
auth	Authentication protocol to be used.	Optional
class	The prio class of the PPP packets. Options: <{0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15}>	Optional
concentrator	The access concentrator is on this side of the PPP connection.	Optional
demanddial	Enable dial-on-demand feature. Nothing happens until packets are sent to this PPP interface.	Optional
dest	The destination interface for this PPP interface. Options: <{bridge RELAY eth_dyn eth_static eth_WLAN2}>	Optional
dnsmetric	DNS route metric to be used for the negotiated DNS servers.	Optional
doddelay	During this initial interval (seconds) packets do not trigger PPP interface.	Optional
echo	LCP echo request interval.	Optional
echotolerance	Number of failed LCP echo requests needed to trigger a link failure.	Optional
format	The format used to represent the IP subnet.	Optional
idletime	Maximum time the link may be idle (seconds).	Optional
idletrigger	Consider the link being idle if no traffic is sent and/or received during the idle time.	Optional
laddr	Negotiate this IP address at our side of the link.	Optional
mru	Negotiate maximum packet size we can handle.	Optional
netmask	Negotiate IP subnet mask at remote side of the link.	Optional
passive	When LCP times out, put link in a listening state.	Optional
password	The password for remote PAP/CHAP authentication.	Optional
pcomp		Hidden
pool	Acquire IP subnet and assign it to a free DHCP pool.	Optional
poolend		Hidden
poolstart		Hidden
primdns	Negotiate this IP address as primary DNS server.	Optional
raddr	Negotiate this IP address at remote side of the link.	Optional
restart	Automatically restart when LCP link goes down.	Optional
retryinterval	The number of seconds between retries.	Optional
savepwd	Select whether or not password is saved.	Optional

ommands		helps
secdns	Negotiate this IP address as secondary DNS server.	Optional
servicename	The service name for a PPP session.	Optional
silent	Do not send anything at startup, just listen for incoming LCP messages.	Optional
status		Hidden
subnetfirstip	Take the first ip address out of the received IP as local address.	Optional
trace	Enable verbose console logging.	Optional
unnumbered	Take local IP address from 'laddr' field and remote IP address from the pool. SVC only.	Optional
user	The username for remote PAP/CHAP authentication.	Optional



ppp ifdelete

Delete a PPP interface.

Syntax:

ifdelete intf = <{O2_ADSL}>

Parameters:

intf The name of the PPP interface. Required



ppp ifdetach

Detach a PPP interface.

Syntax:

ifdetach intf = <{O2_ADSL}>

Parameters:

intf The name of the PPP interface. Required



ppp iflist

Display the PPP interfaces.

Syntax:

intf	The name of a PPP interface.	Optional
------	------------------------------	----------



ppp ifscan

Scan a PPP interface for available interfaces.

Syntax:

```
ifscan intf = <{}>
  [time = <number{0-36000}>]
```

intf	The name of the PPP interface to scan.	Required
time	The time to scan for services (in seconds).	Optional



ppp relay

Following commands are available:

ifadd	: Add an ethernet interface to the PPP relay list.
ifdelete	: Delete an ethernet interface from the PPP relay agent list.
ifconfig	: Modify an ethernet interface from the PPP relay agent list.
iflist	: Display all ethernet interfaces added to the PPP relay agent list.
sesslist	: Display all active PPP relay sessions.
flush	: Remove all ethernet interfaces from the PPP relay agent list

and terminate all sessions.



ppp relay flush

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

Syntax:			
flush			



ppp relay ifadd

Add an ethernet interface to the PPP relay list.

Syntax:

ifadd intf = <{bridge|eth_dyn|eth_static|eth_WLAN2}>

intf	The ethernet intf to be added to the PPP relay agent	Required
	list.	



ppp relay ifconfig

Modify an ethernet interface from the PPP relay agent list.

Syntax:

```
ifconfig hwaddr = <hardware-address>
    intf = <{}>
```

hwaddr	The hardware address (e.g. Ethernet MAC address) of this interface.	
intf	The ethernet intf to be added to the PPP relay agent list.	Required



ppp relay ifdelete

Delete an ethernet interface from the PPP relay agent list.

Syntax:

ifdelete intf = <{}>

intf	The ethernet intf to be added to the PPP relay agent	Required
	list.	



ppp relay iflist

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

Syntax:	
iflist	



ppp relay sesslist

Display all active PPP relay sessions.

٤	Syntax:		
	sesslist		



ppp rtadd

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

Syntax:

```
rtadd dst = <ip-address>
   intf = <{02_ADSL}>
   [dstmsk = <ip-mask(dotted or cidr)>]
   [label = <{(see Parameters)}>]
   [metric = <number{0-100}>]
     [src = <ip-address>]
   [srcmsk = <ip-mask(dotted or cidr)>]
```

dst	The IP destination address specification for the route to be added when the link comes up.	Required
intf	The name of a PPP interface.	Required
dstmsk	The IP destination mask. Special values : 1 = remote net; 32 = remote host;	Optional
label	The name of the label. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional
metric	The route metric.	Optional
src	The IP source address specification. i.e. who can use this link.	Optional
srcmsk	The IP source mask.	Optional



ppp rtdelete

Delete the route for a PPP link.

Syntax:

rtdelete intf = <{O2_ADSL}>

intf	The PPP interface name for which to delete the	Required
	route settings.	

helpell

ppp simlock

Show allowed list(command is hidden)

Syntax:		
simlock		



pptp

Following commands are available:

: Shows PPTP configuration.
profadd : Defines a new PPTP profile.
profdelete : Deletes a PPTP profile.

proflist : Lists PPTP profiles.

flush : Flushes the PPTP configuration.

: Adds a PPTP profile (backwards compatible with previous

release, use profiles instead).



pptp flush

Flushes the PPTP configuration.

Syntax:		
flush		



pptp ifadd

Adds a PPTP profile (backwards compatible with previous release, use profiles instead).

Syntax:

```
ifadd dest = <string>
        [ac = <{never|always|keep}>]
        [encaps = <{vcmux|nlpid}>]
        [rate = <number{10-10000}>]
```

dest	The WAN destination for this PPTP tunnel. Typically a phonebook name.	Required
ac	Enable/disable sending address and control field (oxFFo3) on the WAN link.	Optional
encaps	The WAN protocol encapsulation.	Optional
rate	Transmit speed in kbits/s for the WAN link.	Optional



pptp list

Shows PPTP configuration.

Syntax:		
list		



pptp profadd

Defines a new PPTP profile.

Syntax:

The name for the new PPTP profile.	Required
Enable/disable sending address and control field (oxFFo3) on the WAN link.	Optional
The WAN protocol encapsulation to be used with this profile.	Optional
The name of the qosbook entry, containing the settings for this profile.	Optional
	Enable/disable sending address and control field (oxFFo3) on the WAN link. The WAN protocol encapsulation to be used with this profile. The name of the qosbook entry, containing the



pptp profdelete

Deletes a PPTP profile.

Su	nt	ax:
~ 9	,,,,	u.

profdelete name = <>

Parameters:

name The name of the profile to delete. Required



pptp proflist

Lists PPTP profiles.

Sy	ntax	

proflist

helpell

printersharing

Following command groups are available:

LPD



printersharing LPD

Following commands are available:

config: To enable/disable LPD service.list: To display LPD service context.

Following command groups are available:

queue



printersharing LPD config

To enable/disable LPD service.

α	4		
.511	m	11X	•

config [state = <{disabled|enabled}>]

Parameters:

state Enabled/disabled LPD printer service. Optional



printersharing LPD list

To display LPD service context.

Syntax:		
list		



printersharing LPD queue

Following commands are available:

add : Add an option.delete : Delete an option.list : List all options.



printersharing LPD queue add

Add an option.

Syntax:

```
add name = <string>
[default = <{no|yes}>]
  [type = <{Feed|Raw}>]
```

name	LPD queue name.	Required
default	Set default queue	Optional
type	Queue Type	Optional



printersharing LPD queue delete

Delete an option.

Syntax.	:
---------	---

delete name = <string>

Parameters:

name LPD queue name. Required



printersharing LPD queue list

List all options.

Syntax:			
list			

ptrace Commands



ptrace

Following commands are available:

add : Add a filter/action pair (=rule)

delete
flush
list
modify

: Delete a rule
Flush all settings
: List all rules
modify a rule

Following command groups are available:

action debug filter

ptrace Commands



ptrace action

Following commands are available:

adddeleteDelete an actionlistList all actionsmodifyModify an action



ptrace action add

Add an action

Syntax:

add name = <string>

Parameters:

name Action name Required



ptrace action delete

Delete an action

Su	nt	ax:
~ 9	,,,,	u.

delete name = <>

Parameters:

name Action name Required



ptrace action list

List all actions

Syntax:		
list		



ptrace action modify

Modify an action

Syntax:

```
modify intf = <{}>
    len = <number>
    name = <>
    type = <{dump|mirror|}>
```

intf	Device on which to mirror frames	Required
len	Nbr of bytes to dump	Required
name	Action name	Required
type	Action type	Required



ptrace add

Add a filter/action pair (=rule)

Syntax:

```
add action = <>
  filter = <>
  name = <string>
```

action	Action	Required
filter	Filter	Required
name	Rule name	Required



ptrace debug

Following commands are available:

traceconfig : Modify trace configuration



ptrace debug traceconfig

Modify trace configuration

Su	nt	ax:
~ 9	,,,,	u.

traceconfig [state = <{disabled|enabled}>]

state	Enable/Disable tracing.	Optional
-------	-------------------------	----------



ptrace delete

Delete a rule

Syntax:

delete name = <>

Parameters:

name Rule name Required



ptrace filter

Following commands are available:

add : Add a filter
delete : Delete a filter
list : List all filters
modify : Modify a filter



ptrace filter add

Add a filter

Syntax:

add name = <string>

Parameters:

name Filter name Required



ptrace filter delete

Delete a filter

Su	nt	ax:
~ 9	,,,,	u.

delete name = <>

Parameters:

name Filter name Required



ptrace filter list

List all filters

Syntax:			
list			



ptrace filter modify

Modify a filter

Syntax:

```
modify intf = <{ (see Parameters) }>
    name = <>
```

intf	Interface on which to trace frames Options: <{bridge OBC ethport1 RELAY ethport2 ethport3 ethport4 WLAN virt eth_dyn eth_static eth_WLAN2}>	Required
name	Filter name	Required



ptrace flush

Flush all settings

Syntax:			
flush			



ptrace list

List all rules

Syntax:			
list			



ptrace modify

Modify a rule

Syntax:

```
modify name = <>
   [state = <{disabled|enabled}>]
```

name	Rule name	Required
state	Rule enable/disable	Optional

pwr Commands



pwr

Following commands are available:

configModify/Display ECO-manager configurationwlan-pwr-optionsModify/Display the WLAN power control options

Following command groups are available:

debug

pwr Commands



pwr config

Modify/Display ECO-manager configuration

Syntax:

```
config [cpu-lowspeed = <{disabled|enabled}>]
    [cpu-microsleep = <{disabled|enabled}>]
        [eco-manager = <{disabled|enabled}>]
        [usb-controller = <{disabled|enabled}>]
        [wlan-pwrcontrol = <{disabled|enabled}>]
```

cpu-lowspeed	(Allows the CPU to adjust its internal clock).	Optional
cpu-microsleep	(Allows the CPU to use low power instructions).	Optional
eco-manager	(Enables / Disables the ECO-manager).	Optional
usb-controller	(Enables / Disables the USB-Controller)	Optional
wlan-pwrcontrol	(Enables / Disables Wireless LAN (WLAN) power control).	Optional

pwr Commands



pwr debug

Following commands are available:

traceconfig : Enable/disable the ECO manager traces



pwr debug traceconfig

Enable/disable the ECO manager traces

Syntax:

traceconfig [state = <{disabled|enabled}>]

Parameters:

state enable/disable the ECO manager traces Optional



pwr wlan-pwr-options

Modify/Display the WLAN power control options

Syntax:

t-ext	Wireless subsystem On-time Extension (s)	Optional
t-off	Wireless subsystem Off-time(s)	Optional
t-on	Wireless subsystem On-time (s)	Optional



script

Following commands are available:

add : Add line to script.

delete : Delete complete script or line from script.

list : List script.
flush : Flush scripts.
run : Run script.

: Trace toggle.(command is hidden)



script add

Add line to script.

Syntax:

```
add command = <quoted string>
    name = <string>
    [index = <number>]
```

command	Command.	Required
name	Name of script.	Required
index	Line number ($o = add$).	Optional



script delete

Delete complete script or line from script.

Syntax:

```
delete name = <{}>
  [index = <number>]
```

name	Name of script.	Required
index	Line number.	Optional

helpell

script flush

Flush scripts.

Syntax:		
flush		



script list

List script.

Syntax:

name	Name of script.	Optional
------	-----------------	----------



script run

Run script.

Syntax:

```
run name = <{}>
pars = <quoted string>
```

name	Name of script.	Required
pars	Parameters separated with comma e.q. a,b,c.	Required



script trace

Trace toggle.(command is hidden)

Syntax:			
trace			



service

Following command groups are available:

host

system



service host

Following commands are available:

list : Display list of services.

add : Add a service.
delete : Delete a service.

assign : Assign a service to a host.

disable : Disable a service.
stats : Service statistics.
triggerlist : List all triggers.
flush : Flush all services.

config : Modify/Display global service configuration options.

(command is hidden)

Following command groups are available:

category rule



service host add

Add a service.

Syntax:

```
add name = <quoted string>
[category = <>]
   [mode = <{server|client|custom}>]
```

name	The name of the service.	Required
category	The category to which the service belongs.	Optional
mode	server, client or custom service?	Optional



service host assign

Assign a service to a host.

Syntax:

```
assign name = <{ (see Parameters) }>
    [host = <ip-address>]
    [log = <{disabled|enabled}>]
```

name The name of the service. Options: <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike DirectX 7 DirectX 8 DirectX 9 DNS 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 PS3		Required
	Remote Play Secure Shell Server (SSH) Steam Games Telnet Server VNC Xbox Live}>	
host	The IP address of the host.	Optional
log	Enable/disable logging.	Optional



service host category

Following commands are available:

add : Create/define service category.

delete : Delete a service category.
rename : Rename a service category.

: List the available service categories.



service host category add

Create/define service category.

Syntax:
add name = <string></string>

name	The name of the category.	Required
------	---------------------------	----------



service host category delete

Delete a service category.

Syntax:	•
---------	---

delete name = <>

Parameters:

name The name of the category. Required



service host category list

List the available service categories.

Syntax:			
list			



service host category rename

Rename a service category.

Syntax:

```
rename name = <>
  new_name = <string>
```

name	The name of the existing category.	Required
new_name	The new name of the category.	Required



service host config

Modify/Display global service configuration options.(command is hidden)

Sun	tax:

config [trace = <{disabled|enabled}>]

Parameters:

trace Enable/disable traces. Optional



service host delete

Delete a service.

Syntax:

```
delete name = <{ (see Parameters) }>
```

name	The name of the service.	Required
	Options: <{AIM Talk BearShare BitTorrent	_
	Checkpoint FW1 VPN Counter Strike DirectX 7	
	DirectX 8 DirectX 9 DNS 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 PS3	
	Remote Play Secure Shell Server (SSH) Steam	
	Games Telnet Server VNC Xbox Live}>	



service host disable

Disable a service.

Syntax:

```
disable [name = <{ (see Parameters) }>]
```

name	The name of the service.	Optional
	Options: <{AIM Talk BearShare BitTorrent	_
	Checkpoint FW1 VPN Counter Strike DirectX 7	
	DirectX 8 DirectX 9 DNS 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 PS3	
	Remote Play Secure Shell Server (SSH) Steam	
	Games Telnet Server VNC Xbox Live}>	



service host flush

Flush all services.

Syntax:		
flush		



service host list

Display list of services.

Syntax:

```
list [name = <{(see Parameters)}>]
```

name	The name of the service.	Optional
	Options: <{AIM Talk BearShare BitTorrent	_
	Checkpoint FW1 VPN Counter Strike DirectX 7	
	DirectX 8 DirectX 9 DNS 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 PS3	
	Remote Play Secure Shell Server (SSH) Steam	
	Games Telnet Server VNC Xbox Live}>	



service host rule

Following commands are available:

add : Create/define service portmap.

delete : Delete a service portmap.



service host rule add

Create/define service portmap.

Syntax:

Parameters:		
name	The name of the service. Options: <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike DirectX 7 DirectX 8 DirectX 9 DNS 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 PS3 Remote Play Secure Shell Server (SSH) Steam Games Telnet Server VNC Xbox Live}>	Required
portrange	The outbound portrange.	Required
baseport	Inbound base port. Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
mode	Port map mode.	Optional
protocol	Protocol type.	Optional
triggerport	Defines outbound trigger port. Options: <{undefined at-echo at-nbp at-rtmp at-	Optional



zis|auth|bgp|biff|bootpc|bootps|chargen|
clearcase|daytime|discard|dns|domain|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}
ornumber>

triggerprotocol

Protocol of the trigger port.

Optional



service host rule delete

Delete a service portmap.

Syntax:

```
delete    name = <{(see Parameters)}>
    portrange = <port-range>
    [baseport = <{(see Parameters)}>]
        [mode = <{inbound|outbound|auto}>]
        [protocol = <{any|tcp|udp}>]
        [triggerport = <{(see Parameters)}>]
        [triggerprotocol = <{any|tcp|udp}>]
```

Parameters:		
name	The name of the service. Options: <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike DirectX 7 DirectX 8 DirectX 9 DNS 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 PS3 Remote Play Secure Shell Server (SSH) Steam Games Telnet Server VNC Xbox Live}>	Required
portrange	The outbound portrange.	Required
baseport	Inbound base port. Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Optional
mode	Port map mode.	Optional
protocol	Protocol type.	Optional
triggerport	Defines outbound trigger port. Options: <{undefined at-echo at-nbp at-rtmp at-	Optional



zis|auth|bgp|biff|bootpc|bootps|chargen|
clearcase|daytime|discard|dns|domain|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}
ornumber>

triggerprotocol

Protocol of the trigger port.

Optional



service host stats

Service statistics.

Syntax:		
stats		



service host triggerlist

List all triggers.

triggerlist



service system

Following commands are available:

list : Display services. modify : Modify a service.

mapadd : Add a port map for a service.

mapdelete : Delete a port map for a service.

ifadd : Add an interface to the access list.

ifdelete : Delete an interface from the access list.

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

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

Following command groups are available:

debug



service system debug

Following commands are available:

stats : Display system service statistics.

Note: service system debug is missing from the ':help service system' group list



service system debug stats

Display system service statistics.

Syntax:			
stats			



service system ifadd

Add an interface to the access list.

Syntax:

```
ifadd name = <{ (see Parameters) }>
   [group = <{ (see Parameters) }>]
   [intf = <{ (see Parameters) }>]
```

The name of the service for this access list. Options: <{PPTP HTTP HTTPs webservice FTP TELNET RIP-Query DNS-S MDAP SSDP PING_RESPONDER}>	Required
The interface group for this access list. Options: <{wan local lan tunnel dmz guest} or number>	Optional
The interface for this access list. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
	Options: <{PPTP HTTP HTTPs webservice FTP TELNET RIP-Query DNS-S MDAP SSDP PING_RESPONDER}> The interface group for this access list. Options: <{wan local lan tunnel dmz guest} or number> The interface for this access list. Options: <{loop O2_ADSL LocalNetwork



service system ifdelete

Delete an interface from the access list.

Syntax:

```
ifdelete name = <{ (see Parameters) }>
    [group = <{ (see Parameters) }>]
    [intf = <{ (see Parameters) }>]
```

The name of the service for this access list. Options: <{PPTP HTTP HTTPs webservice FTP TELNET RIP-Query DNS-S MDAP SSDP PING_RESPONDER}>	Required
The interface group for this access list. Options: <{wan local lan tunnel dmz guest} or number>	Optional
The interface for this access list. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
	Options: <{PPTP HTTP HTTPs webservice FTP TELNET RIP-Query DNS-S MDAP SSDP PING_RESPONDER}> The interface group for this access list. Options: <{wan local lan tunnel dmz guest} or number> The interface for this access list. Options: <{loop O2_ADSL LocalNetwork



service system ipadd

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

Syntax:

```
ipadd ip = <ip-range>
   name = <{ (see Parameters) }>
```

ip	The IP address (range) for this access list.	Required
name	The name of the service for this access list. Options: <{PPTP HTTP HTTPs webservice FTP TELNET RIP-Query DNS-S MDAP SSDP PING_RESPONDER}>	Required



service system ipdelete

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

Syntax:

```
ipdelete ip = <ip-range>
    name = <{ (see Parameters) }>
```

ip	The IP address (range) for this access list.	Required
name	The name of the service for this access list. Options: <{PPTP HTTP HTTPs webservice FTP TELNET RIP-Query DNS-S MDAP SSDP PING_RESPONDER}>	Required



service system list

Display services.

Syntax:

```
list [dynamics = <{disabled|enabled}>]
    [expand = <{disabled|enabled}>]
    [members = <{disabled|enabled}>]
    [name = <{ (see Parameters) }>]
```

dynamics	Display dynamic sevices.	Optional
expand	Expanded listing.	Optional
members	Display sevice group members.	Optional
name	The name of the service. Options: <{Remote-MBus PPTP PPTPD PPTPGRE SNTP SLA_ICMP_PING SLA_UDP_PING SYSLOG HTTP HTTPs webservice UPnP-HTTP HTTPI WEBF FTP TELNET RIP RIP-Query IGMP-Proxy DNS-S DNS-C DYNAMIC_DNS dyndns statdns custom No-IP DtDNS gnudip DHCP-S DHCP-R MDAP CWMP-C CWMP-S SSDP IP_COMMANDS ICMP_PING SENDTO PING_RESPONDER ICMP_TRACEROUTE UDP_TRACEROUTE HTTPPROBE}>	Optional



service system mapadd

Add a port map for a service.

Syntax:

```
mapadd intf = <{ (see Parameters) }>
    name = <{ (see Parameters) }>
    port = <{ (see Parameters) }>
```

intf	The interface for this map. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
name	The name of the service for this map. Options: <{PPTP HTTP HTTPs webservice HTTPI FTP TELNET DNS-S MDAP SSDP}>	Required
port	The port for this map. Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Required



service system mapdelete

Delete a port map for a service.

Syntax:

```
mapdelete intf = <{ (see Parameters) }>
    name = <{ (see Parameters) }>
    port = <{ (see Parameters) }>
```

intf	The interface for this map. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Required
name	The name of the service for this map. Options: <{PPTP HTTP HTTPs webservice HTTPI FTP TELNET DNS-S MDAP SSDP}>	Required
port	The port for this map. Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Required



service system modify

Modify a service.

Syntax:

```
modify name = <{ (see Parameters) }>
  [dynportrange = <port-range>]
       [forward = <{disabled|enabled}>]
       [log = <{disabled|enabled}>]
       [natpmweight = <number{0-255}>]
       [port = <{ (see Parameters) }>]
       [qoslabel = <{ (see Parameters) }>]
       [routelabel = <{ (see Parameters) }>]
       [srcintf <{ (see Parameters) }>]
       [state = <{disabled|enabled}>]
```

name	The name of the service. Options: <{Remote-MBus PPTP PPTPD PPTPGRE SNTP SLA_ICMP_PING SLA_UDP_PING SYSLOG HTTP HTTPs webservice UPnP-HTTP HTTPI WEBF FTP TELNET RIP RIP-Query IGMP-Proxy DNS-S DNS-C DHCP-S DHCP-R MDAP CWMP-C CWMP-S SSDP IP_COMMANDS PING_RESPONDER}>	Required
dynportrange	The dynamic port range for this service.	Optional
forward	Disable/Enable service forwarding.	Optional
log	Disable/Enable service logging.	Optional
natpmweight	The nat portmap weight for this service.	Optional
port	The port of the service. Options: <{undefined at-echo at-nbp at-rtmp at-zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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	Optional

ce Commands		helps
	number>	
qoslabel	QOS label for service data. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional
routelabel	Route label for service data. Options: <{None Blank DSCP Interactive Management Video VoIP-RTP VoIP-Signal default}>	Optional
srcintf	The primary IP interface for this service. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
state	Disable/Enable this service.	Optional



sntp

Following commands are available:

add : Add NTP serverlist : List the NTP servers

delete : Delete NTP server from list

: Flush NTP server list and SNTP client configuration

config : Modify/Display configuration

Following command groups are available:

debug



sntp add

Add NTP server

Syntax:

```
add [addr = <ip-address>]
    [name = <string>]
    [version = <number{1-4}>]
```

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



sntp config

Modify/Display configuration

Syntax:

```
config [poll = <number{1-10080}>]
  [pollpresync = <number{1-60}>]
      [state = <{enabled|disabled}>]
[wanSubscribe = <{enabled|disabled}>]
```

poll	polling interval (1 min,,10080min(=7days))	Optional
pollpresync	polling interval before first sync (1 min,, 60min)	Optional
state	Enable/Disable SNTP client	Optional
wanSubscribe	Enable/Disable subscribe wan connection	Optional



sntp debug

Following commands are available:

traceconfig : Modify SNTP client trace configuration



sntp debug traceconfig

Modify SNTP client trace configuration

Syntax:

traceconfig [state = <{disabled|enabled}>]

state	Enable/Disable tracing.	Optional
-------	-------------------------	----------



sntp delete

Delete NTP server from list

Syntax:

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

Syntax:		
flush		



sntp list

List the NTP servers

Syntax:	
list	

software Commands



software

Following commands are available:

version : Displays the software version.

upgrade : Reboots the modem to initiate the SW upgrade. New software available on a remote LAN host will be uploaded to the modem.

software Commands



software upgrade

Reboots the modem to initiate the SW upgrade. New software available on a remote LAN host will be uploaded to the modem.

Syntax:	
upgrade	

software Commands



software version

Displays the software version.

Syntax:	
version	



statecheck

Following commands are available:

config : Configure checkd parameters.

statecheckaddstatecheck object.belete a statecheck object.

groupadd : Add a group object.
groupdelete : Delete a group object.
checkadd : Add a check object.
checkdelete : Delete a check object.

list : List checks.



statecheck checkadd

Add a check object.

Syntax:

```
checkadd group = <{}>
    match = <quoted string>
    matchtype = <{equal|differ|statdelta}>
        name = <string>
        object = <string>
        paramname = <string>
        paramtype = <{string|uint|bool}>
        [conschecks = <number>]
        [paramop = <{and|or|single}>]
        [statecheck = <{}>]
```

group	The name of the group.	Required
match	The match value.	Required
matchtype	The match type.	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
conschecks	The number of consecutuve checks the result has to be inactive before the inactive parameter changes	Optional
paramop	The parameter operator type.	Optional
statecheck	The name of the statecheck.	Optional



statecheck checkdelete

Delete a check object.

Syntax:

```
checkdelete group = <{}>
    name = <{}>
    statecheck = <{}>
```

group	The name of the group.	Required
name	The name of the check.	Required
statecheck	The name of the statecheck.	Required



statecheck config

Configure checkd parameters.

Syntax:

```
config interval = <number>
    timeout = <number>
    [dmtree = <{igd|atomic}>]
    [groupop = <{and|or}>]
    [statecheck = <{}>]
```

interval	The interval seconds between checks.	Required
timeout	The Timeout seconds after which checking stops.	Required
dmtree	Client type.	Optional
groupop	Group operator type.	Optional
statecheck	The name of the statecheck.	Optional



statecheck groupadd

Add a group object.

Syntax:

```
groupadd name = <string>
    [checkop = <{and|or}>]
    [statecheck = <{}>]
```

name	The name of the group.	Required
checkop	Check operator type.	Optional
statecheck	The name of the statecheck.	Optional



statecheck groupdelete

Delete a group object.

Syntax:

```
groupdelete name = <{ }>
    statecheck = <{ }>
```

name	The name of the group.	Required
statecheck	The name of the statecheck.	Required



statecheck list

List checks.

Syntax:		
list		



statecheck statecheckadd

Add a statecheck object.

C-		.		
\mathcal{I}	ın	LC	LX	:

statecheckadd name = <string>

name	The name of the statecheck.	Required
------	-----------------------------	----------



statecheck statecheckdelete

Delete a statecheck object.

Syntax:

statecheckdelete statecheck = <{}>

statecheck	The name of the statecheck.	Required
Buttericen	The name of the statecheck.	required



syslog

Following commands are available:

config : Set/Display configuration

ruleaddruledeleteDelete a rule in the syslog configuration

flush : Flushes syslog rules.

: List the current syslog configuration

bootup : Disable bootmode flag(command is hidden)

Following command groups are available:

msgbuf



syslog bootup

Disable bootmode flag(command is hidden)

Syntax:	
bootup	



syslog config

Set/Display configuration

Syntax:

```
config [activate = <{disabled|enabled}>]
        [format = <{standard|welf}>]
        [timeout = <number{0-60}>]
```

activate	Syslog send to collectors enabled.	Optional
format	Syslog contents format	Optional
timeout	Syslog flooding timeout (in secs) to collectors.	Optional



syslog flush

Flushes syslog rules.

Syntax:			
flush			



syslog list

List the current syslog configuration

Syntax:	
list	



syslog msgbuf

Following commands are available:

showsendShow messages in the syslog message buffer.Send messages to remote syslog server.

flush : Flush all messages in syslog message buffer.



syslog msgbuf flush

Flush all messages in syslog message buffer.

Syntax:			
flush			



syslog msgbuf send

Send messages to remote syslog server.

Syntax:

```
send dest = <ip-address>
    [fac = <{ (see Parameters) }>]
    [hist = <{disabled|enabled}>]
    [sev = <{ (see Parameters) }>]
```

dest	Remote syslog server destination: an ip-address.	Required
fac	Syslog facility level. Options: <{kern user mail daemon auth syslog lpr news uucp cron security ftp ntp audit logalert clock localo local1 local2 local3 local4 local5 local6 local7}>	Optional
hist	Syslog display message history (over several bootups)	Optional
sev	Syslog severity level. Options: <{emerg alert crit err warning notice info debug}>	Optional



syslog msgbuf show

Show messages in the syslog message buffer.

Syntax:

```
show [fac = <{ (see Parameters) }>]
    [hist = <{ disabled | enabled }>]
    [sev = <{ (see Parameters) }>]
```

fac	Syslog facility level. Options: <{kern user mail daemon auth syslog lpr news uucp cron security ftp ntp audit logalert clock localo local1 local2 local3 local4 local5 local6 local7}>	Optional
hist	Syslog display message history (over several bootups)	Optional
sev	Syslog severity level. Options: <{emerg alert crit err warning notice info debug}>	Optional



syslog ruleadd

Add a new rule to the syslog configuration.

Syntax:

```
ruleadd dest = <ip-address>
    fac = <{ (see Parameters) }>
    sev = <{ (see Parameters) }>
```

dest	Syslog rule destination: an ip-address.	Required
fac	Syslog rule facility. Options: <{kern user mail daemon auth syslog lpr news uucp cron security ftp ntp audit logalert clock localo local1 local2 local3 local4 local5 local6 local7 all or comma-seperated }>	Required
sev	Syslog rule severity. Options: <{emerg alert crit err warning notice info debug}>	Required



syslog ruledelete

Delete a rule in the syslog configuration

Syntax:

ruledelete rule_index = <number{1-16}>

Parameters:

rule_index Syslog rule index. Required



system

Following commands are available:

settime : Set/Get date, time, timezone, daylight savings time, uptime.

dst : Set daylight saving values

reboot : Reboot the modem.

flush : Flush system configuration.

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

cleared!

config
 Set or change system config parameters.
 timedreboot
 Set or change editing mode timed reboot
 locale
 Set/Get regional settings.(command is hidden)

Following command groups are available:

debug ipc ra qual



system config

Set or change system config parameters.

Syntax:

```
config
       [autosave = <{enabled|disabled}>]
    [autosavedelay = \langle number\{0-600\}\rangle]
[defaultconnection = <{ (see Parameters) }>]
        [digestauth = <{ (missing) }>]
              [drst = \langle (missing) \rangle \rangle]
    [dualinterface = <{ (missing) }>]
               [led = <{(see Parameters)}>]
              [mdap = <{disabled|enabled}>]
       [resetbutton = <{disabled|enabled}>]
              [tr64 = <{disabled|enabled}>]
          [tr64auth = <{disabled|enabled}>]
              [upnp = <{disabled|enabled}>]
        [WANEthPort = <{ (see Parameters) }>]
           [WANMode = <{ADSL|VDSL|SHDSL|ETH|UMTS}>]
                [wps = <{ (missing) }>]
```

autosave	Enable/Disable autosaves	Optional
autosavedelay	Autosave delay in seconds (o for immediate save)	Optional
default connection	The name of the default internet connection. Options: <{loop O2_ADSL LocalNetwork O2_ADSL2plus O2_Static Hotspot}>	Optional
digestauth		Hidden
drst		Hidden
dualinterface		Hidden
led	Set system LED color Options: <{green red orange flash off}>	Optional
mdap	Enable/Disable mdap discovery	Optional
resetbutton	Enable/Disable reset-to-factory-defaults pushbutton	Optional
tr64	Enable/Disable TR-64 discovery	Optional
tr64auth	Enable/Disable TR-64 digest authentication	Optional
upnp	Enable/Disable upnp discovery	Optional
WANEthPort	Set autosensing eth wan port Options: <{ethif1 ethif2 ethif3 ethif4}>	Optional
WANMode	Set autosensing wan mode	Optional

wps



system debug

Following commands are available:

cpu : CPU usage statistics mem : Memory usage statistics

autosave : Autosave debugging commands



system debug autosave

Autosave debugging commands

Syntax.	:
---------	---

autosave [trace = <{disabled|enabled}>]

trace	Enable/Disable autosave traces	Optional
-------	--------------------------------	----------



system debug cpu

CPU usage statistics

Syntax:

```
cpu [delay = <number{1-60}>]
[iterations = <number{1-4000000}>]
     [tasks = <{disabled|enabled}>]
```

delay	Delay between stats updates	Optional
iterations	Number of iteration before ending	Optional
tasks	Show active tasks	Optional



system debug mem

Memory usage statistics

Syntax.	:
---------	---

mem [expand = <{disabled|enabled}>]

expand	Dump of /proc/meminfo	Optional
--------	-----------------------	----------



system dst

Set daylight saving values

Syntax:

```
dst [enddate = <dd/mm/yyyy>]
    [endhour = <number{0-23}>]
    [endmonth = <number{1-12}>]
    [endtime = <hh:mm:ss>]
    [endweek = <number{1-5}>]
    [endweekday = <{(see Parameters)}>]
        [mode = <{Absolute|Relative}>]
    [startdate = <dd/mm/yyyy>]
    [starthour = <number{0-23}>]
    [starttime = <hh:mm:ss>]
    [starttime = <hh:mm:ss>]
    [startweek = <number{1-5}>]
[startweekday = <{(see Parameters)}>]
    [startweekday = <{(see Parameters)}>]
```

enddate	Set the end date of the daylight saving in the absolute mode	Optional
endhour	Set the end hour of the daylight saving in the relative mode	Optional
endmonth	Set the end month of the daylight saving in the relative mode	Optional
endtime	Set the end time of the daylight saving in the absolute mode	Optional
endweek	Set the end week of the daylight saving in the relative mode	Optional
endweekday	Set the end weekday of the daylight saving in the relative mode Options: <{Sunday Monday Tuesday Wednesday Thursday Friday Saturday}>	Optional
mode	Set daylight saving mode	Optional
startdate	Set the start date of the daylight saving in the absolute mode	Optional
starthour	Set the start hour of the daylight saving in the relative mode	Optional
startmonth	Set the start month of the daylight saving in the ralative mode	Optional

m Comma	ands	helps
starttime	Set the start time of the daylight saving in the absolute mode	Optional
startweek	Set the start week of the daylight saving in the relative mode	Optional
startweekday	Set the start weekday of the daylight saving in the relative mode Options: <{Sunday Monday Tuesday Wednesday Thursday Friday Saturday}>	Optional
status		Hidden



system flush

Flush system configuration.

Syntax:	
flush	



system ipc

Following commands are available:

config : IPC configuration



system ipc config

IPC configuration

Syntax:

config [prio-level = <number{0-255}>]

Parameters:

prio-level IPC priority traffic level Optional



system locale

Set/Get regional settings.(command is hidden)

Syntax:

```
locale [date_format = <{ (see Parameters) }>]
    [date_separator = <{ / |-|.}>]
    [datetime_format = <{ iso|date+time|time+date}>]
        [dec_symbol = <{ , |.}>]
    [duration_format = <{ dhmmss|hmmss}>]
        [group_symbol = <{ . | , }>]
        [time_format = <{ iso|hmmss}>]
```

date_format	Set date format Options: <{iso ddmmyyyy ddmmyy mmddyyyy mmddyy}>	Optional
date_separator	Set date separator	Optional
datetime_format	Set date-time format	Optional
dec_symbol	Set decimal symbol	Optional
duration_format	Set duration format	Optional
group_symbol	Set digit grouping symbol	Optional
time_format	Set time format	Optional



system qual

Following commands are available:

led : Led configuration

Note: system qual is missing from the ':help system' group list



system qual led

Led configuration

Syntax:

led [value = <{(see Parameters)}>]

value	Set system LED color	Optional
	Options: <{green red orange flash off allon alloff	-
	allgreen allred unlock}>	



system ra

Following commands are available:

listinstaddinstdeleteList remote access instances.Add a remote access instances.Delete remote access instances.

config : Configure remote access parameters.

startstopStarts temporary mode.Stops temporary mode.



system ra config

Configure remote access parameters.

Syntax:

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

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



system ra instadd

Add a remote access instances.

Syı	nta:	x:
~ 9	iiu.	•

instadd name = <string>

name Instance name Re	quired
-----------------------	--------



system ra instdelete

Delete remote access instances.

Syntax.	:
---------	---

instdelete name = <{}>

Parameters:

name Instance name Required



system ra list

List remote access instances.

Syntax:

name The name of the instance.	Optional
--------------------------------	----------



system ra start

Starts temporary mode.

Syntax:

name	Instance name	Required
------	---------------	----------



system ra stop

Stops temporary mode.

Syntax:

name	Instance name	Required
------	---------------	----------



system reboot

Reboot the modem.

Syntax:		
reboot		



system reset

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

Syntax:

```
reset factory = <{yes|no}>
    proceed = <{no|yes}>
```

factory	Option to reset to factory	Required
proceed	Confirmation for resetting the modem.	Required



system settime

Set/Get date, time, timezone, daylight savings time, uptime.

Syntax:

```
settime [date = <dd/mm/yyyy>]
  [daylightsaving = <{disabled|enabled}>]
      [geotimezone = <{ (missing) }>]
  [geotimezonename = <{ (see Parameters) }>]
      [gtzn = <{ (missing) }>]
      [rtc = <{disabled|enabled}>]
      [time = <hh:mm:ss>]
      [timezone = <(+ or -)hh:mm>]
```

2 4. 4		
date	Set the system date	Optional
daylightsaving	Enable/Disable daylight saving	Optional
geotimezone		Hidden
geotimezone name	Set the geographical timezone by name Options: <{(UTC-12:00) (UTC-11:00) (UTC-10:00) (UTC-09:00) (UTC-08:00) (UTC-07:00) (UTC-06:00) (UTC-05:00) (UTC-04:00) (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)	Optional
gtzn		Hidden
rtc	Enable/Disable the real time clock	Optional
time	Set the system time	Optional
timezone	Set the system timezone(-12:00+14:00 / 15 minute resolution)	Optional



system timedreboot

Set or change editing mode timed reboot

Syntax:

```
timedreboot [date = <string>]
    [state = <{disabled|enabled}>]
    [time = <number{0-983040}>]
```

date	Set date/time to reboot (DD/MM/YYYY/HH:MM).	Optional
state	Enable/Disable timed reboot	Optional
time	Change default countdown time (Min).	Optional



threshold

Following commands are available:

enable : Enables a threshold definition.
disable : Disables a threshold definition.
config : Configures a threshold definition.

reset : Reset threshold period.
clear : Clears threshold statistics.
list : Lists all threshold definitions.
stats : Lists threshold resources.

Note: threshold is missing from the ':help' group list



threshold clear

Clears threshold statistics.

ntax:	
	ntax:

clear [id = <threshold id>]

Parameters:

id Threshold identifier. Optional



threshold config

Configures a threshold definition.

Syntax:

```
config [count = <number{1-10000}>]
        [id = <threshold id>]
        [period = <number{1-100000}>]
        [state = <{disabled|enabled}>]
        [type = <{limit|threshold|trigger}>]
```

count	Threshold event count.	Optional
id	Threshold identifier.	Optional
period	Threshold period.	Optional
state	Threshold state.	Optional
type	Type of threshold.	Optional



threshold disable

Disables a threshold definition.

Su	nt	ax:
~ 9	,,,,	u.

disable [id = <threshold id>]

Parameters:

id Threshold identifier. Optional



threshold enable

Enables a threshold definition.

ntax:	
	ntax:

enable [id = <threshold id>]

Parameters:

id Threshold identifier. Optional



threshold list

Lists all threshold definitions.

Syntax:			
list			



threshold reset

Reset threshold period.

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reset [id = <threshold id>]

Parameters:

id Threshold identifier. Optional



threshold stats

Lists threshold resources.

Syntax:		
stats		

tls Commands



tls

Following command groups are available:

acs-client https-server

tls Commands



tls acs-client

Following commands are available:

config : Display/modify tls settings

Following command groups are available:

cert



tls acs-client cert

Following commands are available:

add : Add a new certificatedelete : Delete a certificatelist : List certificates

tls Commands



tls acs-client cert add

Add a new certificate

Syn	tax:
$\sim 9^{11}$	·u.

add filename = <string>

filename	name of the certificate file	Required
----------	------------------------------	----------



tls acs-client cert delete

Delete a certificate

Su	nt	ax:
~ 9	,,,,	u.

delete index = <number>

Parameters:

index Certificate index Required

tls Commands



tls acs-client cert list

List certificates

Syntax:

```
list [expand = <{disabled|enabled}>]
   [index = <number>]
```

expand	Display more information	Optional
index	Certificate index	Optional



tls acs-client config

Display/modify tls settings

Syntax:

```
config [auth-serv = <{disabled|enabled}>]
        [state = <{disabled|enabled}>]
        [valid-date = <{disabled|enabled}>]
        [valid-domain = <{disabled|enabled}>]
```

auth-serv	Request server authentication	Optional
state	SSL/TLS client for ACS state	Optional
valid-date	Check certificate validity date	Optional
valid-domain	Check certificate domain	Optional



tls https-server

Following commands are available:

config : Display/modify tls settings

Following command groups are available:

cert



tls https-server cert

Following commands are available:

add : Add a new certificate
delete : Delete a certificate
list : List certificates



tls https-server cert add

Add a new certificate

Syntax:

add filename = <string>

Parameters:

filename name of the certificate file Required



tls https-server cert delete

Delete a certificate

Su	nt	ax:
~ 9	,,,,	u.

delete index = <number>

Parameters:

index Certificate index Required



tls https-server cert list

List certificates

Syntax:

```
list [expand = <{disabled|enabled}>]
    [index = <number>]
```

expand	Display more information	Optional
index	Certificate index	Optional



tls https-server config

Display/modify tls settings

Syntax:

auth-client	Request client authentication	Optional
state	SSL/TLS server for HTTPS state	Optional
valid-date	Check certificate validity date	Optional
valid-domain		Hidden



tod

Following commands are available:

config : Configure tod parameters.

list : List config.

Following command groups are available:

action schedule

Note: tod is missing from the ':help' group list



tod action

Following commands are available:

add
delete
Delete an action object.
setvaladd
Add a setvalue object.
setvaldelete
Delete a setvalue object.
paramadd
Add a setvalue parameter.
paramdelete
Delete a setvalue parameter.

list : List actions.



tod action add

Add an action object.

Syntax:

add [id = <number>]

Parameters:

id The id of the actiom. Optional



tod action delete

Delete an action object.

Syn	tax:
$\sim 9^{11}$	·u.

delete actionid = <number>

Required



tod action list

List actions.

Syntax:	
list	



tod action paramadd

Add a setvalue parameter.

Syntax:

```
paramadd actionid = <number>
    setvalueid = <number>
        [id = <number>]
        [object = <string>]
        [on = <{active|inactive}>]
        [param = <string>]
        [value = <string>]
```

actionid	The id of the action.	Required
setvalueid	The id of the setvalue action.	Required
id	The id of the setvalue param.	Optional
object	Mbus object path.	Optional
on	Active/inactive.	Optional
param	Mbus parameter name.	Optional
value	Parameter value.	Optional



tod action paramdelete

Delete a setvalue parameter.

Syntax:

actionid	The id of the action.	Required
paramid	The id of the setvalue param.	Required
setvalueid	The id of the setvalue action.	Required



tod action setvaladd

Add a setvalue object.

Syntax:

```
setvaladd actionid = <number>
    [id = <number>]
    [on = <{ (missing) }>]
```

actionid	The id of the action.	Required
id	The id of the setvalue actiom.	Optional
on		Hidden



tod action setvaldelete

Delete a setvalue object.

Syntax:

```
setvaldelete actionid = <number>
    setvalueid = <number>
```

actionid	The id of the action.	Required
setvalueid	The id of the setvalue action.	Required

tod Commands



tod config

Configure tod parameters.

Syntax:

```
config [acchain = <string>]
        [state = <{enabled|disabled}>]
```

acchain	firewall chain name	Optional
state	enable/disable ToD	Optional

tod Commands



tod list

List config.

Syntax:		
list		



tod schedule

Following commands are available:

add : Add a schedule object.

modify : Modify schedule parameters.

start : Start a schedule.

delete : Delete a schedule object.

dayadd
daydelete
belete a day object.
timeadd
Add a timerange object.
timedelete
belete a timerange object.
timeabsadd
Add a timerange_abs object.

timeabsdelete : Delete a timerange_abs object.

list : List schedules.

tod Commands



tod schedule add

Add a schedule object.

Syntax:

```
add type = <{none|accesscontrol|action}>
   [id = <number>]
```

type	The schedule type.	Required
id	The id of the schedule.	Optional



tod schedule dayadd

Add a day object.

Syntax:

```
dayadd scheduleid = <number>
    weekday = <{ (see Parameters) }>
    [id = <number>]
```

scheduleid	The id of the schedule.	Required
weekday	The day of the week Options: <{mo tu we th fr sa su all weekend workweek}>	Required
id	The id of the day.	Optional



tod schedule daydelete

Delete a day object.

Syntax:

```
daydelete dayid = <number>
    scheduleid = <number>
```

dayid	The id of the day.	Required
scheduleid	The id of the schedule.	Required



tod schedule delete

Delete a schedule object.

Syntax:

delete scheduleid = <number>

scheduleid	The id of the schedule.	Required

tod Commands



tod schedule list

List schedules.

Syr	ıtax:		
li	.st		



tod schedule modify

Modify schedule parameters.

Syntax:

scheduleid	The id of the schedule.	Required
action	Action.	Optional
count	The timer count (o=periodical)	Optional
expiretime	The absolute expire time.	Optional
mode	The mode. Options: <{timerange timeout timerangeabs timerangeedge}>	Optional
name	Friendly name.	Optional
nrofminutes	The number of minutes.	Optional
reference	Access control reference.	Optional
state	Enable/disable	Optional



tod schedule start

Start a schedule.

Syntax:

```
start scheduleid = <number>
    start = <{enabled|disabled}>
```

scheduleid	The id of the schedule.	Required
start	Start the schedule	Required



tod schedule timeabsadd

Add a timerange_abs object.

Syntax:

scheduleid	The id of the schedule.	Required
endtime	The absolute end time of the range.	Optional
rangeid	The id of the timerange_abs.	Optional
starttime	The absolute start time of the range.	Optional



tod schedule timeabsdelete

Delete a timerange_abs object.

Syntax:

```
timeabsdelete rangeid = <number>
    scheduleid = <number>
```

rangeid	The id of the timerange_abs.	Required
scheduleid	The id of the schedule.	Required



tod schedule timeadd

Add a timerange object.

Syntax:

```
timeadd dayid = <number>
    endhour = <number>
    endminute = <number>
    scheduleid = <number>
    starthour = <number>
    startminute = <number>
    [action = <string>]
    [id = <number>]
```

dayid	The id of the day.	Required
endhour	The end hour of the range.	Required
endminute	The end minute of the range.	Required
scheduleid	The id of the schedule.	Required
starthour	The start hour of the range.	Required
startminute	The start minute of the range.	Required
action	Action.	Optional
id	The id of the timerange.	Optional



tod schedule timedelete

Delete a timerange object.

Syntax:

```
timedelete dayid = <number>
    scheduleid = <number>
    timeid = <number>
```

dayid	The id of the day.	Required
scheduleid	The id of the schedule.	Required
timeid	The id of the timerange.	Required

helps h

trigger

Following commands are available:

list : Display the triggers.

Following command groups are available:

rule chain

Note: trigger is missing from the ':help ' group list



trigger chain

Following commands are available:

add : Add a chain.
delete : Delete a chain.

list : Display a list of chains.

flush : Flush all chains.

modify : Modify a chain.(command is hidden)

Note: trigger chain is missing from the ':help trigger' group list



trigger chain add

Add a chain.

Syntax:

```
add chain = <string>
  [policy = <{ (missing) }>]
```

chain	The name of the chain to add.	Required
policy		Hidden



trigger chain delete

Delete a chain.

ntax:	
	ntax:

delete chain = <chain name>

chain The name of	the chain to delete.	Required
-------------------	----------------------	----------



trigger chain flush

Flush all chains.

Syntax:			
flush			



trigger chain list

Display a list of chains.

Syn	tax:
$\sim 9^{11}$	·u.

list [format = <{pretty|cli}>]

Parameters:

format The format of the chain list. Optional



trigger chain modify

Modify a chain.(command is hidden)

Syntax:

```
modify chain = <chain name>
    [policy = <{ (missing) }>]
```

chain	The name of the chain to modify.	Required
policy		Hidden



trigger list

Display the triggers.

Syntax:

name	The name of a trigger.	Optional
------	------------------------	----------



trigger rule

Following commands are available:

list : Display a list of rules.

add
delete
Delete a rule.(command is hidden)
flush
modify
Add a rule.(command is hidden)
Flush all rules.(command is hidden)
modify a rule.(command is hidden)

Following command groups are available:

debug



trigger rule add

Add a rule.(command is hidden)

Syntax:

```
trigger = <{None|link}>
[clink = <chain name>]
add chain
             = <chain name>
[connstate = <{ (missing) }>]
  [dstintf [!] = <{wan|local|lan|tunnel|dmz|guest}>]
    [dstip [!] = <{ (see Parameters) }>]
    [index = <number>]
   [length [!] = <{}>]
      [log = <{disabled|enabled}>]
     [name
             = <string>]
 [newindex = <{ (missing) }>]
     [serv [!] = <{ (see Parameters) }>]
  [srcintf [!] = <{wan|local|lan|tunnel|dmz|guest}>]
    [srcip [!]= <{ (see Parameters) }>]
             = <{ (missing) }>]
   [srcmac
    [state
              = <{disabled|enabled}>]
```

chain	The name of the chain which contains the rule.	Required
trigger	None, link (when clink is used) or trigger name.	Required
clink	The name of the chain to be parsed when this rule applies.	Optional
connstate		Hidden
dstintf	The name of the destination interface expression. (Can optionally use "!=")	Optional
dstip	The name of the destination ip expression. (Can optionally use "!=") Options: <{private ssdp_ip mdap_ip 192.68.1.253}>	Optional
index	The index of the rule in the chain.	Optional
length	The name of the length expression. (Can optionally use "!=")	Optional
log	Disable/Enable logging when this rule applies.	Optional
name	The name of the new rule.	Optional
newindex		Hidden
serv	The name of the service expression. (Can optionally use "!=")	Optional

er Comn	nands	helpen
	Options: <\[icmp igmp ftp telnet http httpproxy \] 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}>	
srcintf	The name of the source interface expression. (Can optionally use "!=")	Optional
srcip	The name of the source ip expression. (Can optionally use "!=") Options: <{private ssdp_ip mdap_ip 192.68.1.253}>	Optional
srcmac		Hidden
state	Disable/Enable this rule.	Optional



trigger rule debug

Following commands are available:

traceconfig : Display/Modify rule trace configuration.

stats : Display rule statistics. clear : Clear rule statistics.



trigger rule debug clear

Clear rule statistics.

Syntax:

```
clear [chain = <chain name>]
    [index = <number>]
```

chain	The name of the chain.	Optional
index	The index of the rule in the chain.	Optional



trigger rule debug stats

Display rule statistics.

Syntax:

```
stats [chain = <chain name>]
   [index = <number>]
```

chain	The name of the chain.	Optional
index	The index of the rule in the chain.	Optional



trigger rule debug traceconfig

Display/Modify rule trace configuration.

Syntax:

traceconfig [state = <{disabled|enabled}>]

state	Disable/Enable rule traces.	Optional
-------	-----------------------------	----------



trigger rule delete

Delete a rule.(command is hidden)

Syntax:

```
delete chain = <chain name>
    index = <number>
```

chain	The name of the chain in which to delete the rule.	Required
index	The number of the rule in the chain.	Required



trigger rule flush

Flush all rules.(command is hidden)

Su	ntax:	
~ 9	iiu.	

flush [chain = <chain name>]

Parameters:

chain The name of the chain to flush. Optional



trigger rule list

Display a list of rules.

Syntax:

```
list [chain = <chain name>]
   [format = <{pretty|cli}>]
```

chain	The name of the chain to list the rules of.	Optional
format	The format of the rule list.	Optional



trigger rule modify

Modify a rule.(command is hidden)

Syntax:

```
modify chain = <chain name>
      [clink = <chain name>]
  [connstate = <{ (missing) }>]
 [[!]dstintf]
   [[!]dstip]
      [index = <number>]
  [[!]length]
        [log = <{disabled|enabled}>]
       [name = <string>]
   [newindex = <number>]
   [[!]serv]
 [[!]srcintf]
   [[!]srcip]
     [srcmac = <{ (missing) }>]
      [state = <{disabled|enabled}>]
    [trigger = <{None|link}>]
```

chain	The name of the chain which contains the rule.	Required
clink	The name of the chain to be parsed when this rule applies.	Optional
connstate		Hidden
dstintf	The name of the destination interface expression. (Optionally prepend a "!" to mean NOT)	Optional
dstip	The name of the destination ip expression. (Optionally prepend a "!" to mean NOT)	Optional
index	The index of the rule in the chain.	Optional
length	The name of the length expression. (Optionally prepend a "!" to mean NOT)	Optional
log	Disable/Enable logging when this rule applies.	Optional
name	The name of the new rule.	Optional
newindex	The new index of the rule in the chain.	Optional
serv	The name of the service expression. (Optionally prepend a "!" to mean NOT)	Optional
srcintf	The name of the source interface expression. (Optionally prepend a "!" to mean NOT)	Optional

trigger Commands

er Comn	nands	help	dem
srcip	The name of the source ip expression. (Optionally prepend a "!" to mean NOT)	Optional	
srcmac		Hidden	
state	Disable/Enable this rule.	Optional	
trigger	None, link (when clink is used) or trigger name.	Optional	



upnp

Following commands are available:

config : Config upnp parameter(s)

flush : Flushes upnp config (i.e. to defaults)

list : List all registered devices

listmask : List all mask and security devices

Following command groups are available:

debug



upnp config

Config upnp parameter(s)

Syntax:

```
config [autosavedelay = <number{30-45}>]
        [dslfautosave = <{disabled|enabled}>]
        [httpport = <{ (missing) }>]
        [maxage = <number{60-9999999}>]
        [onlydefault = <{disabled|enabled}>]
        [preferredaddresses = <string>]
        [safenat = <{disabled|enabled}>]
        [upnpautosave = <{disabled|enabled}>]
        [writemode = <{full|natonly|readonly}>]
```

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

helpsyl

upnp debug

Following commands are available:

traceconfig : Enable or disable tracing.

nonce : To re-generate the nonce string.



upnp debug nonce

To re-generate the nonce string.

ntax:	
	ntax:

nonce [type = <{upnp|tr64|wfa}>]

Parameters:

type Specify device type for nonce string Optional



upnp debug traceconfig

Enable or disable tracing.

traceconfig [level = <number>]

Parameters:

level Set the tracelevel (0-2) Optional

helpell

upnp flush

Flushes upnp config (i.e. to defaults)

Syntax:		
flush		



upnp list

List all registered devices

Syntax:

```
list [verbose = <number{0-2}>]
```

verbose	Verbose level (default = 1)	Optional
---------	-----------------------------	----------

helpsyl

upnp listmask

List all mask and security devices

Syntax:	
listmask	



user

Following commands are available:

add : Add a user.

delete : Delete a user.

list : Display the users.

config : Modify the user.

flush : Flush the users.

rights : Display session rights.



user add

Add a user.

Syntax:

```
add    name = <string>
    password = <password>
        role = <>
        [crypt = <string>]
[deflocadmin = <{disabled|enabled}>]
[defremadmin = <{disabled|enabled}>]
[defuser = <{disabled|enabled}>]
[descr = <quoted string>]
[hash2 = <string>]
[hash3 = <{ (missing) }>]
[lm = <{ (missing) }>]
[ntlm = <{ (missing) }>]
```

name	User name.	Required
password	User password.	Required
role	Role name.	Required
crypt	The crypt password.	Optional
deflocadmin	Set this user as the default local administrator.	Optional
defremadmin	Set this user as the default remote administrator.	Optional
defuser	Set this user as the default user.	Optional
descr	User description.	Optional
hash2	The MD5 hash.	Optional
hash3		Hidden
lm		Hidden
ntlm		Hidden



user config

Modify the user.

Syntax:

```
config name = <{npr}>
[deflocadmin = <{disabled|enabled}>]
[defremadmin = <{disabled|enabled}>]
    [defuser = <{disabled|enabled}>]
    [descr = <quoted string>]
    [password = <password>]
    [role = <>]
```

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



user delete

Delete a user.

Syntax:

delete name = <{npr}>

Parameters:

name User name. Required



user flush

Flush the users.

Syntax:		
flush		



user list

Display the users.

Syntax:

channel	The selected channel.	Optional
name	User name.	Optional
origin	The selected origin.	Optional
secure	The selected security level.	Optional



user rights

Display session rights.

Syntax:

rights

vfs Commands



vfs

Following command groups are available:

upnpavcontrolpoint



vfs upnpavcontrolpoint

Following commands are available:

config : To enable/disable UPnPAV Control Point FS service.

: To display UPnPAV Control Point FS context.



vfs upnpavcontrolpoint config

To enable/disable UPnPAV Control Point FS service.

Syn	tax:
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config [state = <{enabled|disabled}>]

Parameters:

state Enable/disable UPnPAV Control Point FS service. Optional



vfs upnpavcontrolpoint list

To display UPnPAV Control Point FS context.

Syntax:		
list		



wansensing

Following commands are available:

configflushlistConfigure parametersClean configurationDisplay parameters

requestmode : Request to enter certain mode

Following command groups are available:

debug mode



wansensing config

Configure parameters

Syntax:

errorinterval Error interval value		Optional
errorscript	Error script name	Optional
state	Enable/disable	Optional



wansensing debug

Following commands are available:

traceconfig : Tracing settings



wansensing debug traceconfig

Tracing settings

Syntax.	•
---------	---

traceconfig [state = <{disabled|enabled}>]

state Enable/disable	Optional
----------------------	----------



wansensing flush

Clean configuration

Syntax:	
flush	



wansensing list

Display parameters

Syntax:		
list		



wansensing mode

Following commands are available:

listadddeleteList all modesAdd modeDelete mode



wansensing mode add

Add mode

Syntax:

maininterval	Main interval value	Required
name	Mode name	Required
scriptname	Script name	Required
redirectgui	Redirect GUI	Optional



wansensing mode delete

Delete mode

Syntax.	:
---------	---

delete name = <string>

Required



wansensing mode list

List all modes

Syntax:		
list		



wansensing requestmode

Request to enter certain mode

Su	nt	ax:
~ 9	,	u.

requestmode mode = <string>

mode	Mode to enter (its name)	Required
------	--------------------------	----------

webserver Commands



webserver

Following command groups are available:

ssl

webserver Commands



webserver ssl

Following command groups are available :

commonname

webserver Commands



webserver ssl commonname

Following commands are available:

add : Add an CommonName

delete : Delete an option.
list : List all options.



webserver ssl commonname add

Add an CommonName

Syntax:		
add commonname = <string></string>		
Parameters:		
commonname	CommonName	Required



webserver ssl commonname delete

Delete an option.

Su	ntax.	•
\sim 9	. cc care	,

delete id = <string>

id	id	Required
----	----	----------

webserver Commands



webserver ssl commonname list

List all options.

Synta	ıx:		
list	5		



wireless

Following commands are available:

: Configures radio settings.

reset : Reset Wireless interface settings to defaults

flush : Flush all wireless dynamic contextes(command is hidden)

ifconfig : Configures wireless settings.(command is hidden)

Following command groups are available:

acs	debug	macacl	mssid
qos	stations	wds	wps
eco	multiuni	qual	secmode



wireless acs

Following commands are available:

Following command groups are available:

debug



wireless acs config

ACS configuration

Syntax:

```
config [autoscanreport = <{no|yes}>]
        [ccathreshold = <number>]
        [channelscantime = <number>]
        [failiteration = <number>]
        [glitchthreshold = <number>]
        [lockoutperiod = <number>]
        [maxiteration = <number>]
        [periodicscantime = <number>]
        [radio_id = <number{0-9999}>]
        [scanmode = <{(see Parameters)}>]
```

autoscanreport	ACS auto scan report generation	Optional
ccathreshold	ACS cca threshold	Optional
channelscantime	ACS channelscantime	Optional
failiteration	ACS failiteration	Optional
glitchthreshold	ACS glitsch threshold	Optional
lockoutperiod	ACS lockout period	Optional
maxiteration	ACS maxiteration	Optional
periodicscan time	ACS periodic scan	Optional
radio_id	radio	Optional
scanmode	ACS scan mode Options: <{disabled detect detect+act}>	Optional



wireless acs debug

Following commands are available:

: ACS perform automatic channel selection

scanACS netowrk scanscanreportACS scanresults

triggerdump : driver detailed counter stats



wireless acs debug rescan

ACS perform automatic channel selection

Syntax:

radio_id	radio	Optional
----------	-------	----------



wireless acs debug scan

ACS netowrk scan

Syntax:

radio_id	radio	Optional
----------	-------	----------



wireless acs debug scanreport

ACS scanresults

Syntax:

scanreport [radio_id = <number{0-9999}>]

radio_id	radio	Optional
----------	-------	----------



wireless acs debug triggerdump

driver detailed counter stats

Su	nt	ax:
\sim 9		

triggerdump [radio_id = <number{0-9999}>]

radio_id	radio	Optional
----------	-------	----------



wireless acs scanhistory

ACS scanhistory

Syntax:

scanhistory [radio_id = <number{0-9999}>]

radio_id	radio	Optional
----------	-------	----------



wireless debug

Following commands are available:

stats : Transfer statistics

hwdump : Shows the settings in hw(command is hidden)



wireless debug hwdump

Shows the settings in hw(command is hidden)

Syntax:	
hwdump	



wireless debug stats

Transfer statistics

Syntax:		
stats		



wireless eco

Following commands are available:

config
dump
ECO dump config
suspend
ECO suspend
resume
ECO resume
traceconfig
ECO trace
stats
ECO stats

Note: wireless eco is missing from the ':help wireless' group list



wireless eco config

ECO configuration

Syntax:

```
config [radio_id = <number{0-9999}>]
        [state = <{enabled|disabled}>]
        [text = <number{2-600}>]
        [toff = <number{4-600}>]
        [ton = <number{4-600}>]
```

radio_id	radio	Optional
state	ECO SM configuration	Optional
text	text	Optional
toff	ton	Optional
ton	ton	Optional



wireless eco dump

ECO dump config

Syntax:

radio_id	radio	Optional
----------	-------	----------



wireless eco resume

ECO resume

Syntax:

radio_id	radio	Optional
----------	-------	----------



wireless eco stats

ECO stats

Syntax:

radio_id	radio	Optional
----------	-------	----------



wireless eco suspend

ECO suspend

Syntax:

radio_id	radio	Optional
----------	-------	----------



wireless eco traceconfig

ECO trace

Syntax:

smtrace	tracing	Required
radio_id	radio	Optional



wireless flush

Flush all wireless dynamic contextes(command is hidden)

Syntax:		
flush		



wireless ifconfig

Configures wireless settings.(command is hidden)

Syntax:

```
ifconfig
              [any = <{enabled|disabled}>]
          [channel = <{ (see Parameters) }>]
          [country = <{ (missing) }>]
              [dtim = \langle (missing) \rangle \rangle]
             [flags = <{ (missing) }>]
[frameaggregation = <{ (missing) }>]
       [frameburst = <{disabled|enabled}>]
          [interop = <{802.11b/g|802.11b/g/n}>]
            [locale = <{ (missing) }>]
               [lrl = \langle (missing) \rangle \rangle]
       [protection = <{ (missing) }>]
         [protmode = <{ (missing) }>]
      [prottrigger = <{ (missing) }>]
          [rateset = <{ (missing) }>]
               [rts = <{ (missing) }>]
        [shortslot = <{ (missing) }>]
               [srl = \langle (missing) \rangle \rangle]
              [ssid = <quoted string>]
             [state = <{enabled|disabled}>]
```

any	Make SSID public	Optional
channel	Communication channel number Options: <{auto 1 2 3 4 5 6 7 8 9 10 11 12 13}>	Optional
country		Hidden
dtim		Hidden
flags		Hidden
frame aggregation		Hidden
frameburst	Framebursting	Optional
interop	Interoperability mode	Optional
locale		Hidden
lrl		Hidden
protection		Hidden
protmode		Hidden
prottrigger		Hidden

rateset		Hidden
rts		Hidden
shortslot		Hidden
srl		Hidden
ssid	SSID	Optional
state	Interface operational status of wireless access point	Optional



wireless macacl

Following commands are available:

config : Access Control List configuration

register : Start a registration process (only for register mode)

add : Add an ACL MAC entrymodify : Modify an ACL entrydelete : Delete an ACL MAC entry

: Shows a list of all configured ACL entries

flush : Flushes ACL entries



wireless macacl add

Add an ACL MAC entry

Syntax:

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
radio_id	radio	Optional
ssid_id	ssid id	Optional



wireless macacl config

Access Control List configuration

Syntax:

```
config [control = <{lock|unlock|register}>]
    [radio_id = <number{0-9999}>]
    [regtime = <number{15-3600}>]
    [ssid_id = <number{0-9999}>]
```

control	Access Control List mode	Optional
radio_id	radio	Optional
regtime	Registration time	Optional
ssid_id	ssid id	Optional



wireless macacl delete

Delete an ACL MAC entry

Syntax:

```
delete hwaddr = <hardware-address>
   [radio_id = <number{0-9999}>]
   [ssid_id = <number{0-9999}>]
```

hwaddr	hardware address of the ACL entry	Required
radio_id	radio	Optional
ssid_id	ssid id	Optional



wireless macacl flush

Flushes ACL entries

Syntax:

```
flush proceed = <{disabled|enabled}>
   [radio_id = <number{0-9999}>]
   [ssid_id = <number{0-9999}>]
```

proceed	Confirmation required	Required
radio_id	radio	Optional
ssid_id	ssid id	Optional



wireless macacl list

Shows a list of all configured ACL entries

Syntax:

```
list [radio_id = <number{0-9999}>]
     [ssid_id = <number{0-9999}>]
```

radio_id	radio	Optional
ssid_id	ssid id	Optional



wireless macacl modify

Modify an ACL entry

Syntax:

hwaddr	The Ethernet MAC address of the ACL entry	Required
name	The name of the station	Optional
permission	The action to be performed on ACL entry	Optional
radio_id	radio	Optional
ssid_id	ssid id	Optional



wireless macacl register

Start a registration process (only for register mode)

Syntax:

```
register proceed = <{disabled|enabled}>
    [radio_id = <number{0-9999}>]
    [ssid_id = <number{0-9999}>]
```

proceed	Confirmation required	Required
radio_id	radio	Optional
ssid_id	ssid id	Optional



wireless mssid

Following commands are available:

iflist
 ifadd
 ifdelete
 ifconfig
 ifattach
 ifdetach
 Multiple ssid configuration
 Add an extra ssid context
 Delete a ssid context
 Configure a ssid context
 Attach a ssid context
 Detach a ssid context



wireless mssid ifadd

Add an extra ssid context

Syntax:

radio_id	radio	Optional
ssid	ssid	Optional



wireless mssid ifattach

Attach a ssid context

Syntax:

```
ifattach ssid_id = <number{0-9999}>
    [radio_id = <number{0-9999}>]
```

ssid_id	ssid	Required
radio_id	radio	Optional



wireless mssid ifconfig

Configure a ssid context

Syntax:

```
ifconfig ssid_id = <number{0-9999}>
    [addscript = <{ (missing) }>]
        [any = <{disabled|enabled}>]
    [apisolation = <{disabled|enabled}>]
    [delscript = <{ (missing) }>]
    [radio_id = <number{0-9999}>]
    [secmode = <{disable|wep|wpa-psk}>]
    [ssid = <quoted string>]
    [trace = <{ (missing) }>]
    [WEPkey = <quoted string>]
    [WPAPSKkey = <quoted string>]
[WPAPSKversion = <{WPA|WPA2|WPA+WPA2}>]
```

ssid_id	ssid id	Required
addscript		Hidden
any	public network	Optional
apisolation	ap isolation	Optional
delscript		Hidden
radio_id	radio	Optional
secmode	security mode	Optional
ssid	ssid	Optional
trace		Hidden
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



wireless mssid ifdelete

Delete a ssid context

Syntax:

```
ifdelete ssid_id = <number{0-9999}>
    [radio_id = <number{0-9999}>]
```

ssid_id	ssid	Required
radio_id	radio	Optional



wireless mssid ifdetach

Detach a ssid context

Syntax:

```
ifdetach ssid_id = <number{0-9999}>
    [radio_id = <number{0-9999}>]
```

ssid_id	ssid	Required
radio_id	radio	Optional



wireless mssid iflist

Multiple ssid configuration

Syntax:

```
iflist [radio_id = <number{0-9999}>]
    [ssid_id = <number{0-9999}>]
```

radio_id	radio	Optional
ssid_id	ssid	Optional



wireless multiuni

Following commands are available:

scanresults : display detected multicast mac addresses

add : add a multicast to unicast mapping

delete : delete all multicast mappings

: show configured multicast to unicast mappings

flush : flush all multicast to unicast mappings

Note: wireless multiuni is missing from the ':help wireless' group list



wireless multiuni add

add a multicast to unicast mapping

Syntax:

```
add multicast = <hardware-address>
    unicast = <hardware-address>
```

multicast	Multicast MAC	Required
unicast	Unicast MAC	Required



wireless multiuni delete

delete all multicast mappings

Syntax:

delete multicast = <hardware-address>

multicast	Multicast MAC	Required
-----------	---------------	----------



wireless multiuni flush

flush all multicast to unicast mappings

Syntax:		
flush		



wireless multiuni list

show configured multicast to unicast mappings

Syntax:			
list			



wireless multiuni scanresults

display detected multicast mac addresses

Syntax:

scanresults [rescan = <{no|yes}>]

Parameters:

rescan rescan for new multicast addresses Optional



wireless qos

Following commands are available:

config : configure QoS settings

apacconfig : configure AP EDCA parameters : configure STA EDCA parameters



wireless qos apacconfig

configure AP EDCA parameters

Syntax:

```
apacconfig [acm = <{(missing)}>]
        [aifsn = <number{1-15}>]
        [class = <{AC_BE|AC_BK|AC_VI|AC_VO}>]
        [cwmax = <{(see Parameters)}>]
        [cwmin = <{0|1|3|7|15|31|63|127|255}>]
        [ecwmax = <{(missing)}>]
        [ecwmin = <{(missing)}>]
        [radio_id = <number{0-9999}>]
        [txop = <number>]
```

acm		Hidden
aifsn	Aifsn configuration	Optional
class	AC class	Optional
cwmax	CWmax configuration Options: <{0 1 3 7 15 31 63 127 255 511 1023 2047 4095 8191 16383 32767}>	Optional
cwmin	CWmin configuration	Optional
ecwmax		Hidden
ecwmin		Hidden
radio_id	radio	Optional
txop	txoplimit [us] configuration	Optional



wireless qos config

configure QoS settings

Syntax:

ackpolicy		Hidden
apsd		Hidden
mode	WMM active	Optional
radio_id	radio	Optional



wireless qos staacconfig

configure STA EDCA parameters

Syntax:

```
staacconfig [acm = <{ (missing) }>]
        [aifsn = <number{1-15}>]
        [class = <{AC_BE|AC_BK|AC_VI|AC_VO}>]
        [cwmax = <{ (see Parameters) }>]
        [cwmin = <{0|1|3|7|15|31|63|127|255}>]
        [ecwmax = <{ (missing) }>]
        [ecwmin = <{ (missing) }>]
        [radio_id = <number{0-9999}>]
        [txop = <number>]
```

acm		Hidden
aifsn	Aifsn configuration	Optional
class	AC class	Optional
cwmax	CWmax configuration Options: <{0 1 3 7 15 31 63 127 255 511 1023 2047 4095 8191 16383 32767}>	Optional
cwmin	CWmin configuration	Optional
ecwmax		Hidden
ecwmin		Hidden
radio_id	radio	Optional
txop	txoplimit [us] configuration	Optional



wireless qual

Following commands are available:

up
down
out
renewssid
txant
antdiv
fqacursy
: wl up
wl down
: wl down
cut
renew ssid
: renew ssid
t renew ssid
: wl txant
: wl txant
: wl antdiv
: wl fqacursy

Note: wireless qual is missing from the ':help wireless' group list



wireless qual antdiv

wl antdiv

Syntax:

radio_id	radio	Optional
value	Value	Optional



wireless qual down

wl down

Syntax:

radio_id	radio	Optional
----------	-------	----------



wireless qual fqacursy

wl fqacursy

Syntax:

```
fqacursy channum = <number{0-13}>
    [radio_id = <number{0-9999}>]
```

channum	channum	Required
radio_id	radio	Optional



wireless qual out

wl out

Syntax:

radio_id	radio	Optional
----------	-------	----------



wireless qual renewssid

renew ssid

Syntax:

renewssid [radio_id = <number{0-9999}>]

Parameters:

radio_id radio Optional



wireless qual txant

wl txant

Syntax:

```
txant [radio_id = <number{0-9999}>]
        [value = <{0|1|auto}>]
```

radio_id	radio	Optional
value	Value	Optional



wireless qual up

wl up

Syntax:

up $[radio_id = < number(0-9999)>]$

Parameters:

radio_id radio Optional



wireless radio

Configures radio settings.

Syntax:

```
radio
              [channel = <{(see Parameters)}>]
               [country = <{ (missing) }>]
                  [dtim = \langle \{(missing)\} \rangle]
                 [flags = <{ (missing) }>]
    [frameaggregation = <{off|ampdu|amsdu}>]
           [frameburst = <{disabled|enabled}>]
[interferencechannel = <{ (missing) }>]
    [interferencemode = <{ (missing) }>]
               [interop = <{802.11b/g|802.11b/g/n}>]
                [locale = <{ (missing) }>]
                   [lrl = \langle \{(missing)\} \rangle]
           [protection = <{ (missing) }>]
             [protmode = <{ (missing) }>]
          [prottrigger = <{ (missing) }>]
             [radio id = \langle number\{0-9999\} \rangle]
               [rateset = <{ (missing) }>]
                   [rts = \langle \{(missing)\} \rangle]
            [shortslot = <{ (missing) }>]
                   [srl = \langle (missing) \rangle \rangle]
                 [state = <{enabled|disabled}>]
```

channel	Communication channel number Options: <{auto 1 2 3 4 5 6 7 8 9 10 11 12 13}>	Optional
country		Hidden
dtim		Hidden
flags		Hidden
frame aggregation	Frame aggregation method	Optional
frameburst	Framebursting	Optional
interference channel		Hidden
interference mode		Hidden
interop	Interoperability mode	Optional
locale		Hidden
lrl		Hidden

protection		Hidden
protmode		Hidden
prottrigger		Hidden
radio_id	radio	Optional
rateset		Hidden
rts		Hidden
shortslot		Hidden
srl		Hidden
state	Interface operational status of wireless access point	Optional



wireless reset

Reset Wireless interface settings to defaults

Syntax:

reset proceed = <{disabled|enabled}>

Parameters:

proceed Confirmation required Required



wireless secmode

Following commands are available:

config : Configure/Show the security mode.

wepwpa-pskconfigure WEP settings.configure WPA-PSK settings.

Note: wireless secmode is missing from the ':help wireless' group list



wireless secmode config

Configure/Show the security mode.

Syn	tax:
$\sim 9^{11}$	·u.

config [mode = <{disable|wep|wpa-psk}>]

mode	security mode	Optional
------	---------------	----------



wireless secmode wep

Configure WEP settings.

Syntax:	$S\iota$	ın	ta	x:
---------	----------	----	----	----

wep [encryptionkey = <quoted string>]

encryptionkey	WEP key: expected format 5 or 13 ASCII	Optional
	characters, or 10 or 26 HEX digits	



wireless secmode wpa-psk

Configure WPA-PSK settings.

Syntax:

encryption		Hidden
encryption		Hidden
presharedkey	WPA-PSK key: expected format 8 to 63 ASCII characters or 64 HEX digits.	Optional
rekeysec		Hidden
version	wpa version	Optional



wireless stations

Following commands are available:

list : List of the currently associated stations



wireless stations list

List of the currently associated stations

Syntax:

```
list [radio_id = <number{0-9999}>]
    [ssid_id = <number{0-9999}>]
```

radio_id	radio	Optional
ssid_id	Selected BSS	Optional



wireless wds

Following commands are available:

config : WDS configuration parameters

scanresults : scan all networks add : add WDS station delete : delete WDS station list : list WDS stations flush : Flush all wds stations



wireless wds add

add WDS station

Syntax:

```
add bssid = <hardware-address>
    [name = <quoted string>]
```

bssid	The WDS bssid	Required
name	A user specified reference name	Optional



wireless wds config

WDS configuration parameters

Syntax:

config [state = <{disabled|enabled}>]

Parameters:

state WDS functionality Optional



wireless wds delete

delete WDS station

Su	nt	ax:
\sim 9		

delete bssid = <hardware-address>

bssid	The WDS bssid	Required
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wireless wds flush

Flush all wds stations

Syntax:	
flush	



wireless wds list

list WDS stations

Syntax:		
list		



wireless wds scanresults

scan all networks

Su	nt	ax:
\sim 9		

scanresults [rescan = <{disabled|enabled}>]

rescan	perform a new scan	Optional
--------	--------------------	----------



wireless wps

Following commands are available:

config : Configure/Show the WPS settings pin : Set the ENROLLEE pin value

ap pin : Set/Show the AP pin value

mode : Set/Show the configuration mode value



wireless wps ap_pin

Set/Show the AP pin value

Syntax:

radio_id	radio	Optional
ssid_id	ssid id	Optional
value	pin number	Optional



wireless wps config

Configure/Show the WPS settings

Syntax:

```
config [radio_id = <number{0-9999}>]
    [ssid_id = <number{0-9999}>]
        [state = <{disabled|enabled}>]
```

radio_id	radio	Optional
ssid_id	ssid id	Optional
state	WPS state	Optional



wireless wps mode

Set/Show the configuration mode value

Syntax:

```
mode [radio_id = <number{0-9999}>]
    [ssid_id = <number{0-9999}>]
        [state = <{unconfigured|configured}>]
        [value = <{ (missing) }>]
```

radio_id	radio	Optional
ssid_id	ssid id	Optional
state	configuration mode	Optional
value		Hidden



wireless wps pin

Set the ENROLLEE pin value

Syntax:

```
pin [radio_id = <number{0-9999}>]
    [ssid_id = <number{0-9999}>]
        [value = <number>]
```

radio_id	radio	Optional
ssid_id	ssid id	Optional
value	pin number	Optional



wizard

Following commands are available:

config : configuration of embedded wizard

defflushviewProfile definition.Clear active profileView active profile

: Load a profile(command is hidden)

Note: wizard is missing from the ':help' group list



wizard config

configuration of embedded wizard

Syntax:

allow_factory_ tpl	Option to indicate if factory templates may be loaded	Optional
autopopup	Generate wizard popup if factory defaults are active	Optional
configtime	Time in between 'please wait' page and 'complete' page(in seconds)	Optional
trace	Trace during loading	Optional



wizard def

Profile definition.

Syntax:

```
def type = <{(see Parameters)}>
    var = <string>
    [alias = <translated string>]
    [calc = <quoted string>]
    [data = <translated string>]
    [data = <quoted string>]
    [default = <quoted string>]
    [derault = <quoted string>]
    [grp = <string>]
    [grp = <string>]
    [help = <translated string>]
[linkvar = <string>]
    [max = <number>]
    [min = <number>]
    [req <{no|yes}>]
```

type	type of the variable Options: <{string passw integer combo list radioset bool ipaddr ipmask passwcheck label hex grp}>	Required
var	Variable name : name of variable or group	Required
alias	user friendly name for field or group	Optional
calc	host wizard related stuff, ignored here	Optional
dalias	user friendly names for data values	Optional
data	list of values, used in configuration file	Optional
default	a default value field for variable	Optional
desc	Description text, help text	Optional
grp	Group name in case variable is defined	Optional
help	Addtional help text (only for group description	Optional
linkvar	to which variable this variable is linked to (only for passwcheck)	Optional
max	maximum value in case type is integer	Optional
min	minumum value in case type is integer	Optional
req	parameter without value: to indicate a required field	Optional



wizard flush

Clear active profile

Syntax:		
flush		



wizard load

Load a profile(command is hidden)

Syntax:

load [profile = profile filename>]

Parameters:

profile Profile name to load Optional



wizard view

View active profile

Syntax:		
view		



xdsl

Following commands are available:

info : Displays status information about modem

configwersionModify/Display dsl configurationDisplay xdsl version information.

maxspeed : Set ATM Default Maximum Speed.(command is hidden)

Following command groups are available:

debug qual



xdsl config

Modify/Display dsl configuration

Syntax:

adslmultimode	Set/Show selected multimode type of the modem Options: <{disable adsl adsl2 adsl2plus}>	Optional
detect-lop	Detect Loss Of Power	Optional
status	configure adsl line up or down (setting can't be saved!)	Optional
syslog	Log in syslog during showtime	Optional



xdsl debug

Following commands are available:

bitloadinginfo : Displays # bits per tone

deltconfig
 deltinfo
 modemoptioninfo
 Dual Ended Line Testing interface
 Dual Ended Line Test result display
 The modem options bitmap display

multimode : Config custom multimode

traceconfig : Config the adsl tracelevel



xdsl debug bitloadinginfo

Displays # bits per tone

Syntax.

bitloadinginfo



xdsl debug deltconfig

Dual Ended Line Testing interface

Syntax:

deltconfig [state = <{disabled|enabled}>]

state Enable/Disable dual ended line testing	Optional
--	----------



xdsl debug deltinfo

Dual Ended Line Test result display

Syntax:		
deltinfo		



xdsl debug modemoptioninfo

The modem options bitmap display

Syntax:	
modemoptioninfo	



xdsl debug multimode

Config custom multimode

Syntax:

```
multimode [config = <{ (see Parameters) }>]
```

config	The custom multimode bitmap Options: <[+/-]flag[+/-flag]{default t1.413issue2 g992.1_annex_a g992.2g992.3_annex_a g992.3_annex_l g992.3_annex_m	Optional
	g992.5_annex_ag992.5_annex_m}>	



xdsl debug traceconfig

Config the adsl tracelevel

Syntax:

traceconfig level = $<{0|1|2|3|4}>$

level	Trace Level (o=disable tracing; 1=enable dsl	Required
	manager tracing; 2=enable dsl driver tracing)	



xdsl info

Displays status information about modem

Syntax:

counter_period_ filter	Specify the statistics period Options: <{current 15_minutes 24_hours}>	Optional
counters_reset	Reset all counters	Optional
expand	Condensed / Expanded listing link information	Optional
g.997.1	Condensed / Expanded listing link information	Optional



xdsl maxspeed

Set ATM Default Maximum Speed.(command is hidden)

Syntax:

```
maxspeed [rx = <number>]
    [tx = <number>]
```

rx	A predefined Maximum ADSL Speed in Downstream direction	Optional
tx	A predefined Maximum ADSL Speed in Upstream direction	Optional



xdsl qual

Following commands are available:

alb : Analog front end LoopBack Test Mode

bitloadinginfo : Displays # bits per tone

: Longitudinal Balance (LOV) Test Mode -continuously sending-

: Longitudinal Balance (LCL) Test Mode -online quiet-

gln : Quiet Line Noise Test Mode

aisf : Set modem's ATU Impedance State Force

freeze-showtime : freeze showtime (no auto retrain)

mib : Retreive extra adsl info Test Mode(command is hidden)

Note: xdsl qual is missing from the ':help xdsl' group list



xdsl qual aisf

Set modem's ATU Impedance State Force

Syntax:

aisf state = <{disable|inactive|active}>

Parameters:

state aisf state Required



xdsl qual alb

Analog front end LoopBack Test Mode

Syntax:

```
alb address = <string>
    port = <{ (see Parameters) }>
    type = <{adsl}>
```

address	remote IP Address or string "modem" to store on the board	Required
port	Remote IP Port Options: <{undefined at-echo at-nbp at-rtmp at- zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Required
type	Type of Test Mode	Required



xdsl qual bitloadinginfo

Displays # bits per tone

Sy	nt	ax	

bitloadinginfo



xdsl qual freeze-showtime

freeze showtime (no auto retrain)

Syntax:

freeze-showtime [state = <{disabled|enabled}>]

state	Enable/Disable freeze showtime testing	Optional
-------	--	----------



xdsl qual lcl

Longitudinal Balance (LCL) Test Mode -online quiet-

Syntax:			
lcl		·	



xdsl qual lov

Longitudinal Balance (LOV) Test Mode -continuously sending-

Syntax:

```
lov type = <{ (see Parameters) }>
[signal_type = <{ (missing) }>]
```

type	Type of (LOV) Test Mode Options: <{adsl_annex_a adsl_annex_l_wide adsl_annex_l_narrow}>	
signal_type		Hidden



xdsl qual mib

Retreive extra adsl info Test Mode(command is hidden)

Syntax:

```
mib address = <string>
    port = <{ (see Parameters) }>
    type = <{adsl}>
```

address	remote IP Address or string "modem" to store on the board	Required
port	Remote IP Port Options: <{undefined at-echo at-nbp at-rtmp at- zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Required
type	Type of Test Mode	Required



xdsl qual qln

Quiet Line Noise Test Mode

Syntax:

```
qln address = <string>
    port = <{ (see Parameters) }>
    type = <{adsl}>
```

address	remote IP Address or string "modem" to store on the board	Required
port	Remote IP Port Options: <{undefined at-echo at-nbp at-rtmp at- zis auth bgp biff bootpc bootps chargen clearcase daytime discard dns domain 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>	Required
type	Type of Test Mode	Required



xdsl version

Display xdsl version information.

S	Syntax:	
	version	