



Technicolor TG788vn

CLI Reference Guide r8.C.M.0 SIP Server

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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.

Credits:

For this PDF, you can thank the work of *Luciddream* and *Alex Kemp*.

16 February 2013

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Router-Specific Note:

Luciddream reports that the flash-image for this firmware is r8.4.5.15.0. Clearly, 'r8.C.M.o' is a marketing construct, designed to deceive the innocent.

Version History:

16 February 2013: v2.0 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 `:help` command; other commands then follow in alphabetical order. Following the sentiment of the `help` 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, <i>or</i> Serial Number (printed on the product label, usually fixed to the base or side)
10.0.0.138		
dsldevice.lan	Admin	Pre-r8 : (blank) (no password)
speedtouch.lan	<i>or</i> admin	

The IP used for access via Telnet and/or HTTP/HTTPS and/or FTP can be changed within the router, as can the Username and/or Password, 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.

help Commands

Access via FTP:

CLI commands can also be issued via FTP (access defaults are generally identical to those via a web-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 under Windows XP:

```
C:\>ftp 192.168.1.254
Connected to 192.168.1.254.
220 Inactivity timer = 120 seconds. Use 'site idle <secs>' to change.
User (192.168.1.254:(none)): Administrator
331 SpeedTouch Password required.
Password:
230 OK
ftp> quote site help env
200- Following commands are available :
200-
200- set          : Sets an environment variable.
200- get          : Gets an environment variable.
200- unset       : Deletes an environment variable.
200- list        : List all environment variables.
200- flush       : Remove all non-system environment variables.
200-
200-
200 CLI command "help env" executed
ftp> bye
221 Goodbye. You uploaded 0 and downloaded 0 kbytes.
C:\>
```

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 different 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 [:mlp commands](#) for further information).

A note for Linux users: Telnet will *not* give access to the router file-system. What is provided is a pseudo-interface designed entirely for router setup/config/debugging via the CLI commands listed in this PDF. No OS commands whatsoever are available, even though the router has *busybox* installed.

help Commands

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”):

```

-----
                                         Technicolor TG788vn
                                         8.C.M.0
                                         Copyright (c) 1999-2012, Technicolor

-----
{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=0
```

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
menu          : Displays menu
?             : Displays this help information
exit          : Exits this shell.
..           : Exits group selection.
saveall       : Saves current configuration.
ping          : Send ICMP ECHO_REQUEST packets.
traceroute    : Send ICMP/UDP packets to trace the ip path.

Following command groups are available :

contentsharing firewall      printerssharing  pwr          service
connection          cwmpp          dsd           grp          led
config              debug          dhcp          dns          download
dyndns              env           eth           atm          expr
hostmgr             ids           igmp          interface    ip
ipqos               label         language      mbus         memm
mlp                 mobile        nat           ppp          pptp
ptrace              script        sipserver     sntp         software
statecheck          syslog        system        tls          upgrade
upnp                user          voice         wansensing   webserver
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

help Commands

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 back into the Group/Sub-Group help (in *italics*) whilst missing optional-parameters are added into the command help (shown as “Hidden”).

Important Note: You cannot rely on a ‘missing’ group or command appearing within future firmware updates. A good example is the :*adsl* group of commands. That group was superseded when the :*xdsl* 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 an 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 the 587nv2 example above).

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-useful-links 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

help Commands

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 its 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 > Thomson Gateway > 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.cfg* 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 fully-functioning 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 Commands

ar group member

Following commands are available :

add	:	add member
delete	:	delete member
list	:	members

ar group member add

add member

Syntax:

```
add username = <{Administrator|tech}>
```

Parameters:

username	Required
----------	----------

ar group member delete

delete member

Syntax:

```
delete username = <{Administrator|tech}>
```

Parameters:

username	Required
----------	----------

ar group member list

members

Syntax:

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

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|
WebsevUser|LAN_Admin|PowerUser|
WAN_Admin}>

atm Commands

atm

Following commands are available :

<code>ifadd</code>	: Create a new ATM interface.
<code>ifdelete</code>	: Delete an ATM interface.
<code>ifattach</code>	: Attach an ATM interface.
<code>ifdetach</code>	: Detach an ATM interface.
<code>ifconfig</code>	: Modify an ATM interface.
<code>iflist</code>	: Display the ATM interfaces.
<code>flush</code>	: Flush all ATM interfaces.

Following command groups are available :

<code>cac</code>	<code>debug</code>	<code>oam</code>	<code>phonebook</code>
<code>qos</code>	<code>qosbook</code>		

atm Commands

atm cac

Following commands are available :

<code>config</code>	: Configure ATM connection admission control.
<code>overbooking</code>	: Configure ATM overbooking parameters.
<code>list</code>	: List all CAC parameters.

atm Commands

atm cac config

Configure ATM connection admission control.

Syntax:

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

Parameters:

port	The port for which CAC is configured. Options: <{dsl0 dsl1 atm2 atm3 aal5 atm5} or number>	Required
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:

```
overbooking [nrt = <number{0-1000}>]  
            [rt = <number{0-1000}>]
```

Parameters:

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

atm Commands

atm debug

Following commands are available :

<code>traceconfig</code>	: Display/Modify AAL5 debug trace configuration.
<code>portstats</code>	: Display port specific atm statistics.
<code>vcstats</code>	: Display VC specific atm statistics.
<code>aal5stats</code>	: Display AAL5 port specific atm statistics.
<code>gstats</code>	: Display ATM global statistics.

atm Commands

atm debug aal5stats

Display AAL5 port specific atm statistics.

Syntax:

```
aal5stats port = <{(see Parameters)}>  
             vpi = <number{0-31}>  
             [clear = <{disabled|enabled}>]  
             [vci = <number{0-511}>]
```

Parameters:

port	The port number for which statistics will be retrieved. Options: <{dsl0 dsl1 atm2 atm3 aal5 atm5} or number>	Required
vpi	The VPI number for which statistics will be retrieved.	Required
clear	Clear the statistics after request.	Optional
vci	The VCI number for which statistics will be retrieved.	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:

```
portstats port = <{(see Parameters)}>  
[clear = <{disabled|enabled}>]
```

Parameters:

port	The port for which statistics will be retrieved. Options: <{dsl0 dsl1 atm2 atm3 aal5 atm5} or number>	Required
clear	Clear the statistics after the request.	Optional

atm debug traceconfig

Display/Modify AAL5 debug trace configuration.

Syntax:

```
traceconfig [intf = <{}>]
             [len = <number>]
             [state = <{disabled|enabled}>]
```

Parameters:

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 Commands

atm debug vcstats

Display VC specific atm statistics.

Syntax:

```
vcstats port = <{(see Parameters)}>  
          vpi = <number{0-31}>  
          [clear = <{disabled|enabled}>]  
          [vci = <number{0-511}>]
```

Parameters:

port	The port number for which statistics will be retrieved. Options: <{dsl0 dsl1 atm2 atm3 aal5 atm5} or number>	Required
vpi	The VPI number for which statistics will be retrieved.	Required
clear	Clear the statistics after request.	Optional
vci	The VCI number for which statistics will be retrieved.	Optional

atm Commands

atm flush

Flush all ATM interfaces.

Syntax:

```
flush
```

atm Commands

atm ifadd

Create a new ATM interface.

Syntax:

```
ifadd intf = <string>  
[priority = <{strict|cwrr|pwrr|wfq}>]  
[queues = <number{0-8}>]
```

Parameters:

intf	The name for the new ATM interface. If not specified, the destination will double as interface name.	Required
priority	The weight of this queue used for Strict Priority, WFQ, CWRR or PWRR. (default=strict priority)	Optional
queues	Number of Transmit Queue of the EFM Interface (default=1)	Optional

atm Commands

atm ifattach

Attach an ATM interface.

Syntax:

```
ifattach intf = <{}>
```

Parameters:

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

atm Commands

atm ifconfig

Modify an ATM interface.

Syntax:

```

ifconfig intf = <{}>
    [clp = <{0|1|classification}>]
    [clpthresh = <number{0-15}>]
    [dest = <{}>]
    [encaps = <{llc|vcmux}>]
    [fcs = <{disabled|enabled|auto}>]
    [qos = <{}>]
    [retry = <number{0-65535}>]
    [ulp = <{mac|ip|ppp}>]

```

Parameters:

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 0 (for all classes \geq 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 Commands

atm ifdelete

Delete an ATM interface.

Syntax:

```
ifdelete intf = <{}>
```

Parameters:

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

atm Commands

atm ifdetach

Detach an ATM interface.

Syntax:

```
ifdetach intf = <{}>
```

Parameters:

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

atm Commands

atm iflist

Display the ATM interfaces.

Syntax:

```
iflist [intf = <{}>]
```

Parameters:

intf	The name of an ATM interface.	Optional
------	-------------------------------	----------

atm Commands

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 Commands

atm oam cc

Following commands are available :

<code>modify</code>	: Modify CC on the connection.
<code>send</code>	: Send CC activate/deactivate to connection.
<code>list</code>	: Display CC configuration.

atm Commands

atm oam cc list

Display CC configuration.

Syntax:

```
list
```

atm Commands

atm oam cc modify

Modify CC on the connection.

Syntax:

```

modify port = <{(see Parameters)}>
          vpi = <number{0-31}>
          [auto = <{disabled|enabled}>]
          [receive = <{disabled|enabled}>]
          [span = <{segment|end2end}>]
          [transmit = <{disabled|enabled}>]
          [vci = <number{0-511}>]

```

Parameters:

port	The ATM port number. Options: <{dsl0 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 Commands

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}>]
```

Parameters:

port	The ATM port number. Options: <{dsl0 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>]
```

Parameters:

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

atm Commands

atm oam list

Display the ATM OAM settings.

Syntax:

```
list
```

atm Commands

atm oam modify

Modify the ATM OAM data blocking mode.

Syntax:

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

Parameters:

blocking	Enable/disable OAM blocking.	Required
port	The port for which OAM blocking is configured. Options: <{dsl0 dsl1 atm2 atm3 aal5 atm5} or number>	Required

atm Commands

atm oam ping

Send ATM loopback cells.

Syntax:

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

Parameters:

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 Commands

atm oam vclb

Following commands are available :

add	:	Create a loopback connection for VC
del	:	Delete a loopback connection for VC
list	:	List all VC loopback connections

atm Commands

atm oam vclb add

Create a loopback connection for VC

Syntax:

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

Parameters:

port	The ATM port number. Options: <{dsl0 dsl1 atm2 atm3 aal5 atm5} or number>	Required
vpi	The Virtual Path Identifier.	Required
vci	The Virtual Channel Identifier.	Optional

atm Commands

atm oam vclb del

Delete a loopback connection for VC

Syntax:

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

Parameters:

port	The ATM port number. Options: <{dsl0 dsl1 atm2 atm3 aal5 atm5} or number>	Required
vpi	The Virtual Path Identifier.	Required
vci	The Virtual Channel Identifier.	Optional

atm Commands

atm oam vclb list

List all VC loopback connections

Syntax:

```
list
```

atm Commands

atm phonebook

Following commands are available :

<code>list</code>	: Display the phonebook.
<code>add</code>	: Add a new phonebook entry.
<code>delete</code>	: Delete a phonebook entry.
<code>flush</code>	: Flush all phonebook entries.

atm Commands

atm phonebook add

Add a new phonebook entry.

Syntax:

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

Parameters:

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

atm Commands

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 Commands

atm qos

Following commands are available :

`list` : Display the Qos list.

Following command groups are available :

`queue`

atm Commands

atm qos list

Display the Qos list.

Syntax:

```
list [intf = <isabled|enabled> >]
```

Parameters:

intf	The name of the ATM interface to configure.	Optional
------	---	----------

atm Commands

atm qos queue

Following commands are available :

<code>config</code>	:	Configure TX Queue entry.
<code>list</code>	:	Display the Qos list.

atm qos queue config

Configure TX Queue entry.

Syntax:

```
config hiprio = <number{0-15}>
    loprio = <number{0-15}>
    maxpackets = <number{0-2500}>
    qname = <>
    weight = <number{0-64}>
```

Parameters:

hiprio	The highest internal priority boundary for entering this queue.	Required
loprio	The lowest internal priority boundary for entering this queue.	Required
maxpackets	The maximum number of packets in the queues.	Required
qname	The name of the Transmit Queue.	Required
weight	Weight value of the chosen weight algorithm.	Required

atm qos queue list

Display the Qos list.

Syntax:

```
list [intf = <disabled|enabled>] >]
```

Parameters:

intf	The name of the ATM interface to configure.	Optional
------	---	----------

atm qosbook

Following commands are available :

<code>config</code>	: Modify the qosbook configuration.
<code>ctdlist</code>	: Display all connection traffic descriptors.
<code>ctdadd</code>	: Add a new connection traffic descriptor.
<code>ctddelete</code>	: Delete a connection traffic descriptor.
<code>list</code>	: Display the qosbook.
<code>add</code>	: Add a new qosbook entry.
<code>delete</code>	: Delete a qosbook entry.
<code>flush</code>	: Flush all qosbook entries.

atm qosbook add

Add a new qosbook entry.

Syntax:

```
add name = <string>  
    [rxctd = <>>]  
    [txctd = <>>]
```

Parameters:

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.

Syntax:

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

Parameters:

format	The input, output format of the qosbook.	Optional
--------	--	----------

atm Commands

atm qosbook ctdadd

Add a new connection traffic descriptor.

Syntax:

```

ctdadd conformance = <{(see Parameters)}>
                    name = <string>
                    [celldelay = <number>]
                    [framediscard = <{enabled|disabled}>]
                    [maxburst = <number{48-12240}>]
                    [maxframe = <number{0-255}>]
                    [minrate = <number{0-27786}>]
                    [peakrate = <number{0-27786}>]
                    [realtime = <{enabled|disabled}>]
                    [sustrate = <number{0-27786}>]

```

Parameters:

conformance	The ATM service conformance definition. Options: <{UBR CBR VBR UBR.1 UBR.2 UBR.mdc CBR.1 VBR.1 VBR.2 VBR.3 VBR.c VBR.nt VBR.t GFR.1 GFR.2}>	Required
name	The name for the new CTD entry.	Required
celldelay	Cell delay variation in tenths of microseconds.	Optional
framediscard	Enable/disable frame discard.	Optional
maxburst	The maximum burst size (in bytes). (VBR or GFR)	Optional
maxframe	The maximum frame size (in bytes). (GFR only)	Optional
minrate	The minimum rate (in kilobits per second). (UBR.m or GFR)	Optional
peakrate	The peak rate (in kilobits per second). Use 'o' to indicate linerate for UBR.	Optional
realtime	Enable/disable realtime traffic (VBR only).	Optional
sustrate	The sustainable rate (in kilobits per second). (VBR only)	Optional

atm qosbook ctddelete

Delete a connection traffic descriptor.

Syntax:

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

Parameters:

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

Parameters:

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 Commands

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 Commands

config delete

Delete a user configuration file.

Syntax:

```
delete [filename = <user configuration filename>]
```

Parameters:

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

config Commands

config dump

Show the saved configuration file

Syntax:

```
dump
```

config Commands

config flush

Flush the loaded configuration.

Syntax:

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

Parameters:

flush_ip	Flush IP settings or not.	Optional
----------	---------------------------	----------

config Commands

config list

Show the current configuration set

Syntax:

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

Parameters:

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

config Commands

config load

Load saved or default configuration.

Syntax:

```
load [defaults <{disabled|enabled}>]
      [echo = <{disabled|enabled}>]
      [filename = <string>]
      [flush = <{enabled|disabled}>]
      [load_ip = <{enabled|disabled}>]
      [persistent = <{(missing)}>]
```

Parameters:

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

config Commands

config save

Store current configuration to backup file

Syntax:

```
save filename = <user configuration filename>
```

Parameters:

filename	Filename for backupfile of current configuration	Required
----------	--	----------

connection Commands

connection

Following commands are available :

<code>config</code>	: Modify global connection configuration.
<code>timerconfig</code>	: Modify connection timeout handling.
<code>timerclear</code>	: Clear connection timeout to default.
<code>info</code>	: Display all modules with some info.
<code>list</code>	: Display the currently known connections.
<code>describe</code>	: Describe the streams of a connection.
<code>refresh</code>	: Invalidate all cached decisions.
<code>clear</code>	: Kill all connections.
<code>clean</code>	: Clean connection database by forcing timeouts.
<code>stats</code>	: Display connection and stream statistics.
<code>reserve</code>	: Reserve connections.
<code>release</code>	: Release connections.
<code>applist</code>	: Display the available CONN/NAT application helpers.
<code>appconfig</code>	: Modify a CONN/NAT application helper configuration
<code>appinfo</code>	: Display CONN/NAT application specific info
<code>bindlist</code>	: Display the CONN/NAT application helper/port bindings.
<code>bind</code>	: Create a CONN/NAT application helper/port binding.
<code>unbind</code>	: Delete a CONN/NAT application helper/port binding.
<code>flush</code>	: Flush the connection configuration.
<code>debug</code>	: Connection debug commands.

Following command groups are available :

`bindblacklist` `flow`

connection Commands

connection appconfig

Modify a CONN/NAT application helper configuration

Syntax:

```
appconfig application = <{(see Parameters)}>
    [childqos = <{(see Parameters)}>]
    [floating = <{disabled|enabled}>]
    [proxy = <{disabled|enabled}>]
    [SIP_ALG = <{(missing)}>]
    [snooping = <{disabled|enabled}>]
    [timeout = <number{0-32000}>]
    [trace = <{disabled|enabled}>]
    [tracelevel = <number{1-4}>]
    [translate-predict = <{disabled|enabled}>]
```

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 H323 IRC DHCP GAME(UDP) CONE(UDP) LOOSE(UDP) SNMP_TRAP FTP}>	Required
childqos	Used QOS label for the predicted child connections. Options: <{None DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	Optional
floating	Enable/disable 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 Commands

connection appinfo

Display CONN/NAT application specific info

Syntax:

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

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 H323 IRC DHCP GAME(UDP) CONE(UDP) LOOSE(UDP) SNMP_TRAP FTP}>	Required
-------------	--	----------

connection applist

Display the available CONN/NAT application helpers.

Syntax:

```
applist
```

connection Commands

connection bind

Create a CONN/NAT application helper/port binding.

Syntax:

```
bind application = <{(see Parameters)}>  
[port = <port-range>]
```

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 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 Commands

connection bindblacklist

Following commands are available :

<code>add</code>	: Add bind blacklist entry.
<code>delete</code>	: Delete bind blacklist entry.
<code>list</code>	: List all bind blacklist entries.

connection bindblacklist add

Add bind blacklist entry.

Syntax:

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

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)}>]
```

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 Commands

connection clean

Clean connection database by forcing timeouts.

Syntax:

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

Parameters:

level	Scrubbing level.	Optional
-------	------------------	----------

connection Commands

connection clear

Kill all connections.

Syntax:

```
clear
```

connection Commands

connection config

Modify global connection configuration.

Syntax:

```
config [configchangemode = <{immediate|delayed}>]  
      [probes = <{disabled|enabled}>]  
      [safepredicts = <{disabled|enabled}>]  
      [udptrackmode = <{strict|loose}>]
```

Parameters:

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 Commands

connection debug

Connection debug commands.

Syntax:

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

Parameters:

trace	Enable/disable traces.	Optional
-------	------------------------	----------

connection Commands

connection describe

Describe the streams of a connection.

Syntax:

```
describe id = <number{0-4095}>
```

Parameters:

id	The connection ID to describe.	Required
----	--------------------------------	----------

connection flow

Following commands are available :

<code>add</code>	: Add flow
<code>delete</code>	: Delete flow
<code>qoslabeladd</code>	: Assign qos label to flow
<code>qoslabeldel</code>	: Remove qos label from flow
<code>list</code>	: List all flows
<code>flush</code>	: Flush flow configuration

connection Commands

connection flow add

Add flow

Syntax:

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

Parameters:

name	Flow name.	Optional
------	------------	----------

connection flow delete

Delete flow

Syntax:

```
delete [flow = <{CWMP|VoIP-terminated|}>]
```

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:

```
qoslabeladd [flow = <{CWMP|VoIP-terminated|}>]  
            [qoslabel = <{(see Parameters)}>]
```

Parameters:

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

connection flow qoslabeldel

Remove qos label from flow

Syntax:

```
qoslabeldel [flow = <{CWMP|VoIP-terminated|}>]  
            [qoslabel = <{(see Parameters)}>]
```

Parameters:

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

connection Commands

connection flush

Flush the connection configuration.

Syntax:

```
flush
```

connection info

Display all modules with some info.

Syntax:

```
info
```

connection Commands

connection list

Display the currently known connections.

Syntax:

```
list [accelerated = <{false|true}>]
      [application = <{(see Parameters)}>]
      [history = <{disabled|enabled}>]
      [id = <number{0-4095}>]
      [intf = <{loop|Internet|LocalNetwork}>]
      [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)}>]
```

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.	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 DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	Optional

connection Commands

reserved	Filter on "R" connection flag .	Optional
routelabel	The route label name. Options: <{None DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	Optional

connection refresh

Invalidate all cached decisions.

Syntax:

```
refresh
```

connection release

Release connections.

Syntax:

```
release [flow = <{CWMP|VoIP-terminated|}>]
```

Parameters:

flow	Flow name.	Optional
------	------------	----------

connection reserve

Reserve connections.

Syntax:

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

Parameters:

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)}>]
```

Parameters:

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

connection timerconfig

Modify connection timeout handling.

Syntax:

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

Parameters:

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 Commands

connection unbind

Delete a CONN/NAT application helper/port binding.

Syntax:

```
unbind application = <{(see Parameters)}>  
[port = <port-range>]
```

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 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

contentsharing Commands

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.
- `list` : 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:

```
config [comment = <quoted string>]
      [name = <quoted string>]
      [state = <{enabled|disabled}>]
      [workgroup = <quoted string>]
```

Parameters:

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.

Syntax:

```
list
```

contentsharing Commands

contentsharing ftp

Following commands are available :

<code>config</code>	: To enable/disable FTP service.
<code>list</code>	: 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 Commands

contentsharing upnp

Following commands are available :

`config` : To enable/disable UPnP service, to set the friendly name.
`list` : To display UPnP 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 UPnP AV service, to set the friendly name.

Syntax:

```
config [friendlyname = <quoted string>]  
      [state = <{enabled|disabled}>]
```

Parameters:

friendlyname	upnpav friendly name.	Optional
state	Enable/disable UPnP AV service.	Optional

contentsharing upnp list

To display UPnP AV 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 upnp radiostation config

To enable/disable radiostations service.

Syntax:

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

Parameters:

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 :

<code>add</code>	: Add an option.
<code>delete</code>	: Delete an option.
<code>list</code>	: List all options.

contentsharing upnp radiostation station add

Add an option.

Syntax:

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

Parameters:

name	station name.	Required
url	station url	Required

**contentsharing upnp radiostation
station delete**

Delete an option.

Syntax:

```
delete name = <string>
```

Parameters:

name	station name.	Required
------	---------------	----------

contentsharing upnp radiostation station list

List all options.

Syntax:

```
list
```

contentsharing Commands

contentsharing upnpav

Following commands are available :

`config` : To enable/disable UPnP AV service, to set the friendly name.
`list` : To display UPnP AV service context.

Following command groups are available :

`radiostation`

contentsharing upnpav config

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

Syntax:

```
config [friendlyname = <quoted string>]  
      [state = <{enabled|disabled}>]
```

Parameters:

friendlyname	upnpav friendly name.	Optional
state	Enable/disable UPnP AV service.	Optional

contentsharing upnpav list

To display UPnP AV 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:

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 :

<code>add</code>	: Add an option.
<code>delete</code>	: Delete an option.
<code>list</code>	: List all options.

contentsharing upnpav radiostation station add

Add an option.

Syntax:

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

Parameters:

name	station name.	Required
url	station url	Required

contentsharing upnpav radiostation station delete

Delete an option.

Syntax:

```
delete name = <string>
```

Parameters:

name	station name.	Required
------	---------------	----------

contentsharing upnpav radiostation station list

List all options.

Syntax:

```
list
```

cwmp Commands

cwmp

Following commands are available :

<code>config</code>	:	Configure the cwmpd as seen from the ACS.
<code>cmd</code>	:	TR69 Methods. (command is hidden)
<code>runtimevar</code>	:	Runtime variable modifications. (command is hidden)

Following command groups are available :

<code>debug</code>	<code>notification</code>	<code>server</code>
--------------------	---------------------------	---------------------

cwmp Commands

cwmp cmd

TR69 Methods. (command is hidden)

Syntax:

```
cmd
```

cwmp Commands

cwmp config

Configure the cwmpd as seen from the ACS.

Syntax:

```
config      [am1Termination = <{disabled|enabled}>]
            [bootdelayrange = <number>]
            [connectionReqAuth = <{none|basic|digest}>]
            [connectionReqPath = <string>]
            [connectionReqPsswd = <password>]
            [connectionReqThrotNumber = <number>]
            [connectionReqThrotTime = <number>]
            [connectionRequest = <{disabled|enabled}>]
            [connectionReqUserName = <quoted string>]
            [delaytimeoutaction = <{force|cancel}>]
            [maxEnvelopes = <number>]
            [mode = <{read-only|full}>]
            [noIpTimeout = <number>]
            [periodicInfInt = <number>]
            [periodicInform = <{disabled|enabled}>]
            [periodicInfTime = <string>]
            [persistentSubscription = <{disabled|enabled}>]
            [rpcupload = <{(missing)}>]
            [sessionTimeout = <number>]
            [showPasswords = <{disabled|enabled}>]
            [state = <{disabled|enabled}>]
            [upgradedelay = <{disabled|enabled}>]
            [urlSource = <{none}>]
```

Parameters:

am1Termination	Set if am 1 session termination is enabled.	Optional
bootdelayrange	Set the delay on boot before inform is sent.	Optional
connectionReqAuth	Set the authentication type of modem CWMP server for asynchronous connects.	Optional
connectionReqPath	Set the path where the cwmp daemon can be reached.	Optional
connectionReqPsswd	Set the password the ACS must use to log in.	Optional
connectionReqThrotNumber	Set the connection request throttling maximum number of accepted requests within period.	Optional
connectionReqThrotTime	Set the connection request throttling period in seconds in which max requests is reached.	Optional
connectionRequest	Set connection request flag of the cwmp daemon.	Optional

cwmp Commands

connectionReq UserName	Set the username the ACS must use to log in.	Optional
delay timeoutaction	Set the action to perform when statecheck goes into timeout.	Optional
maxEnvelopes	Set the maximum number of SOAP envelopes send within one http-message.	Optional
mode	Set the operation mode of the cwmp daemon.	Optional
noIpTimeout	Set time (in seconds) ip may be 0 after uploading new config file. Modem will step back to old configuration when timeout is reached.	Optional
periodicInfInt	Set the interval between two periodicInform messages in seconds.	Optional
periodicInform	Set periodicInform flag of the cwmp daemon.	Optional
periodicInfTime	Set the UTC time the periodic inform will be synchronized upon.	Optional
persistent Subscription	The cwmp daemon has persistent subscriptions.	Optional
rpcupload		Hidden
sessionTimeout	Set HTTP session-timeout in seconds.	Optional
showPasswords	Show all passwords in IGD as plaintext. When 0 then will be empty string as the standard requests.	Optional
state	The state of the cwmp daemon.	Optional
upgradedelay	Set whether to delay upgrade if statecheck is active.	Optional
urlSource	The name of DHCP client which the URL comes from.	Optional

cwmp debug

Following commands are available :

`traceconfig` : Enable or disable tracing.

cwmp debug traceconfig

Enable or disable tracing.

Syntax:

```
traceconfig [level = <number>]
```

Parameters:

level	Set the tracelevel (0-2).	Optional
-------	---------------------------	----------

cwmp notification

Following commands are available :

`notifiedparameter` : a notified parameter waiting to be send (command is hidden)
`rule` : a rule which defines a notification (command is hidden)

cwmp notification notifiedparameter

a notified parameter waiting to be send (command is hidden)

Syntax:

`notifiedparameter [name = <quoted string>]`

Parameters:

name	Set the notification path	Optional
------	---------------------------	----------

cwmp notification rule

a rule which defines a notification (command is hidden)

Syntax:

```
rule [keystring = <number>]
    [name = <quoted string>]
    [notification = <{(see Parameters)}>]
```

Parameters:

keystring	The keystring_id of the notification rule	Optional
name	Set the notification path	Optional
notification	Set the type of notification Options: <{off passive active forced inform}>	Optional

cwmp runtimevar

Runtime variable modifications. (command is hidden)

Syntax:

```
runtimevar
```

cwmp Commands

cwmp server

Following commands are available :

`config` : Configure the cwmpd towards the ACS.

cwmp server config

Configure the cwmpd towards the ACS.

Syntax:

```
config [password = <password>]
      [url = <string>]
      [username = <string>]
```

Parameters:

password	Set the password for ACS Digest Authentication.	Optional
url	Set the HTTP URL used to contact the ACS server.	Optional
username	Set the username for ACS Digest Authentication.	Optional

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 string>
```

Parameters:

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

dhcp Commands

dhcp

Following command groups are available :

client relay rule server
spoofing

dhcp Commands

dhcp client

Following commands are available :

<code>ifadd</code>	: Create a DHCP client.
<code>ifattach</code>	: Activate a DHCP client.
<code>ifconfig</code>	: Configure a DHCP client.
<code>ifdelete</code>	: Delete a DHCP client.
<code>ifdetach</code>	: De-activate a DHCP client and releases its lease.
<code>iflist</code>	: List DHCP clients.
<code>ifrenew</code>	: Renew a DHCP lease.
<code>flush</code>	: Delete all DHCP clients.

Following command groups are available :

<code>debug</code>	<code>rqoptions</code>	<code>txoptions</code>
--------------------	------------------------	------------------------

dhcp Commands

dhcp client debug

Following commands are available :

<code>traceconfig</code>	: Modify DHCP client trace configuration
<code>stats</code>	: Print DHCP client statistics
<code>clear</code>	: 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}>]
```

Parameters:

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

dhcp Commands

dhcp client flush

Delete all DHCP clients.

Syntax:

```
flush
```

dhcp Commands

dhcp client ifadd

Create a DHCP client.

Syntax:

```
ifadd intf = <{Internet|LocalNetwork}>
```

Parameters:

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

dhcp client ifattach

Activate a DHCP client.

Syntax:

```
ifattach intf = <>
```

Parameters:

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

dhcp Commands

dhcp client ifconfig

Configure a DHCP client.

Syntax:

```

ifconfig intf = <>
    [addr = <{ (missing) }>]
    [broadcast = <{disabled|enabled}>]
    [clientid = <{ (missing) }>]
    [dns = <{ (missing) }>]
    [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) }>]

```

Parameters:

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 DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	Optional
leasetime		Hidden

dhcp Commands

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 Commands

dhcp client ifdelete

Delete a DHCP client.

Syntax:

```
ifdelete intf = <>
```

Parameters:

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

dhcp Commands

dhcp client ifdetach

De-activate a DHCP client and releases its lease.

Syntax:

```
ifdetach intf = <>
```

Parameters:

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

dhcp Commands

dhcp client iflist

List DHCP clients.

Syntax:

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

Parameters:

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 = <>
```

Parameters:

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

dhcp client rqoptions

Following commands are available :

<code>add</code>	: Add a DHCP Option Code to the Parameter Request List.
<code>delete</code>	: Delete a DHCP Option Code from the Parameter Request List.
<code>list</code>	: List all DHCP Option Codes in the Parameter Request List.
<code>optionlist</code>	: List all DHCP Option Codes that can be used in the Parameter Request List.

dhcp Commands

dhcp client roptions add

Add a DHCP Option Code to the Parameter Request List.

Syntax:

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

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 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-time ...} or number>	Required
index	The index of the option.	Optional

dhcp Commands

dhcp client roptions 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	<p>The name or number of the option.</p> <p>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-time ...} or number></p>	Required

dhcp client roptions list

List all DHCP Option Codes in the Parameter Request List.

Syntax:

```
list [intf = <>]
```

Parameters:

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

dhcp client rqoptions optionlist

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

Syntax:

```
optionlist
```

dhcp Commands

dhcp client txoptions

Following commands are available :

<code>add</code>	: Add an option.
<code>delete</code>	: Delete an option.
<code>list</code>	: List all options.
<code>optionlist</code>	: Lists all DHCP Option Codes that can be used.

dhcp Commands

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. 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	Required

dhcp Commands

	#89 ...} or number>	
value	The value of the option. Options: <Value : (type)value; type being 8-bit, 16-bit, 32-bit, addr,ascii, byte_array, clientid, env>	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 Commands

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 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	

dhcp Commands

	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 = <>]
```

Parameters:

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 Commands

dhcp relay

Following commands are available :

<code>ifconfig</code>	: Configure a relay interface.
<code>iflist</code>	: Show the configuration of the relay interfaces.
<code>add</code>	: Add an entry to the DHCP forward list.
<code>delete</code>	: Delete an entry from the DHCP forward list.
<code>modify</code>	: Modify an entry from the DHCP forward list.
<code>list</code>	: List the DHCP forward list.
<code>ruleadd</code>	: Add a selection rule to a DHCP forward entry
<code>ruledel</code>	: Delete a selection rule from a DHCP forward entry
<code>config</code>	: Sets the relay configuration settings.
<code>flush</code>	: Flushes the DHCP relay settings.

Following command groups are available :

`debug`

dhcp Commands

dhcp relay add

Add an entry to the DHCP forward list.

Syntax:

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

Parameters:

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

dhcp relay config

Sets the relay configuration settings.

Syntax:

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

Parameters:

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 Commands

dhcp relay debug

Following commands are available :

<code>traceconfig</code>	: Modify DHCP relay trace configuration
<code>stats</code>	: Print DHCP relay statistics.

dhcp relay debug stats

Print DHCP relay statistics.

Syntax:

```
stats
```

dhcp relay debug traceconfig

Modify DHCP relay trace configuration

Syntax:

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

Parameters:

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

dhcp relay delete

Delete an entry from the DHCP forward list.

Syntax:

```
delete name = <{LocalNetwork_to_127.0.0.1}>
```

Parameters:

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

dhcp relay flush

Flushes the DHCP relay settings.

Syntax:

```
flush
```

dhcp relay ifconfig

Configure a relay interface.

Syntax:

```
ifconfig intf = <{LocalNetwork|Internet}>  
    [maxhops = <number{0-16}>]  
    [relay = <{disabled|enabled}>]  
    [remoteid = <password>]  
    [trusted = <{disabled|enabled}>]
```

Parameters:

intf	The name of the relay interface to configure.	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 0 (RFC3046).	Optional

dhcp relay iflist

Show the configuration of the relay interfaces.

Syntax:

```
iflist [intf = <{LocalNetwork|Internet}>]
```

Parameters:

intf	The name of the relay interface.	Optional
------	----------------------------------	----------

dhcp relay list

List the DHCP forward list.

Syntax:

```
list [name = <{LocalNetwork_to_127.0.0.1}>]
```

Parameters:

name	The forward entry name.	Optional
------	-------------------------	----------

dhcp relay modify

Modify an entry from the DHCP forward list.

Syntax:

```
modify name = <{LocalNetwork_to_127.0.0.1}>  
    [addr = <ip-address>]  
    [giaddr = <ip-address>]  
    [intf = <{None|LocalNetwork|Internet}>]  
    [script = <>]
```

Parameters:

name	The forward entry name.	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.	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 = <{LocalNetwork_to_127.0.0.1}>  
    rulename = <>  
    [key = <{or|and}>]
```

Parameters:

name	The name of the forward entry.	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 = <{LocalNetwork_to_127.0.0.1}>  
            rulename = <>
```

Parameters:

name	The name of the forward entry.	Required
rulename	The name of the DHCP selection rule.	Required

dhcp Commands

dhcp rule

Following commands are available :

<code>add</code>	: Add a rule for DHCP conditional selection
<code>delete</code>	: Delete a DHCP rule
<code>list</code>	: List all DHCP rules
<code>flush</code>	: Flush all DHCP rules

Following command groups are available :

`debug`

dhcp Commands

dhcp rule add

Add a rule for DHCP conditional selection

Syntax:

```
add      mac  [!]= <{(see Parameters)}>
         name  = <string>
         option [!]= <{(see Parameters)}>
         subrule = <>
         type   = <{option|mac|root}>
[enterprise = <number{1-2147483647}>]
  [key      = <{or|and}>]
  [match    = <{exactly|as_substring}>]
[suboption  = <number{1-254}>]
[value     = <{(see Parameters)}>]
```

Parameters:

mac	The mac address. (Can optionally use “!=”) Options: <hardware-address with wildcard ex: '00:9f:aa:*.*:.*'>	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

dhcp Commands

	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 streetwork-server streetwork-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; type being addr, ascii, byte_array, clientid, env>	Optional

dhcp Commands

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}>]
```

Parameters:

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

dhcp rule delete

Delete a DHCP rule

Syntax:

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

Parameters:

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

dhcp Commands

dhcp rule flush

Flush all DHCP rules

Syntax:

```
flush
```

dhcp Commands

dhcp rule list

List all DHCP rules

Syntax:

```
list
```

dhcp Commands

dhcp server

Following commands are available :

<code>config</code>	:	Print DHCP server configuration settings
<code>policy</code>	:	Print DHCP server policy settings
<code>flush</code>	:	Flush all DHCP server pool and lease entries

Following command groups are available :

<code>debug</code>	<code>lease</code>	<code>option</code>	<code>pool</code>
--------------------	--------------------	---------------------	-------------------

dhcp server config

Print DHCP server configuration settings

Syntax:

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

Parameters:

state	Enable/Disable the DHCP server.	Optional
-------	---------------------------------	----------

dhcp Commands

dhcp server debug

Following commands are available :

<code>traceconfig</code>	: Modify DHCP server trace configuration
<code>stats</code>	: Print DHCP server statistics
<code>clear</code>	: Clear DHCP server statistics

dhcp Commands

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

Syntax:

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

Parameters:

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 :

<code>add</code>	: Add a DHCP server lease
<code>delete</code>	: Delete a DHCP server lease
<code>flush</code>	: Flush all DHCP server leases
<code>list</code>	: List all DHCP server leases

dhcp Commands

dhcp server lease add

Add a DHCP server lease

Syntax:

```
add clientid = <clientid>
    pool = <{LAN_private}>
    [addr = <ip-address>]
    [allocation = <{automatic|manual}>]
    [expirytime = <{(missing)}>]
    [gateway = <ip-address|0|none>]
    [leasetime = <number>]
    [lifetime = <number>]
    [macaddr = <hardware-address>]
    [offset = <number>]
```

Parameters:

clientid	The DHCP client identification string.	Required
pool	The name of the DHCP server 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: 0 means infinite leasetime).	Optional
lifetime	The time in seconds the DHCP server keeps the lease reserved (tip: 0 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>]
```

Parameters:

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 = <{LAN_private}>]
```

Parameters:

pool	The name of the DHCP server pool. Only the leases belonging to this pool will be deleted.	Optional
------	---	----------

dhcp server lease list

List all DHCP server leases

Syntax:

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

Parameters:

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 :

<code>tmpladd</code>	: Add a DHCP server option template
<code>tmpldelete</code>	: Delete a DHCP server option template
<code>tmpllist</code>	: List all DHCP server option templates
<code>instadd</code>	: Add a DHCP server option instance
<code>instdelete</code>	: Delete a DHCP server option instance
<code>instlist</code>	: List all DHCP server option instances
<code>ruleadd</code>	: Add a selection rule to a DHCP server option instance
<code>ruledeldelete</code>	: Delete a selection rule from a DHCP server option instance
<code>flush</code>	: 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>
    tplname = <>
        value = <{(see Parameters)}>
    [dynamic = <{disabled|enabled}>]
    [enterprise = <number{1-2147483647}>]
    [maxuse = <number{1-255}>]
    [policy = <{requested|always|rules}>]
    [suboption = <number{1-254}>]
```

Parameters:

name	The name of the DHCP server option instance.	Required
tplname	The name of the DHCP server option template.	Required
value	The value of the DHCP server option instance. Options: <Value : (type)value; type being 8-bit, 16-bit, 32-bit, addr,ascii, byte_array, env>	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}>]
```

Parameters:

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

Syntax:

```
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}>]
```

Parameters:

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 ruledetelete

Delete a selection rule from a DHCP server option instance

Syntax:

```
ruledetelete name = <>  
               rulename = <>
```

Parameters:

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) }>]
```

Parameters:

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:

```
tmpldelete name = <>
```

Parameters:

name	The name of the DHCP server option template.	Required
------	--	----------

dhcp server option tmpplist

List all DHCP server option templates

Syntax:

```
tmpplist
```

dhcp server policy

Print DHCP server policy settings

Syntax:

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

Parameters:

ackinform	Enable/Disable DHCP inform acknowledgement for an unknown lease	Optional
rtbehaviour	Define the DHCP Server's route options behaviour. The options that are involved are: 3, 33, 121 and 249. "Traditional" will return 3 and/or 33; "standard" will return 3 and/or 33 or 121; "msft" will return 3 and/or 33 or 121 or 249	Optional
trustclient	Whether or not the IP address suggested by a DHCP client should be taken into account.	Optional
verifyfirst	Enable/Disable IP address conflict network probing before handing out an address to a client.	Optional

dhcp server pool

Following commands are available :

<code>add</code>	: Add a DHCP server pool
<code>config</code>	: Configure a DHCP server pool
<code>delete</code>	: Delete a DHCP server pool
<code>rtadd</code>	: Add a route to the DHCP server pool
<code>rtdelete</code>	: Delete a route from the DHCP server pool
<code>optadd</code>	: Add an option instance to the DHCP server pool
<code>optdelete</code>	: Delete an option instance from the DHCP server pool
<code>ruleadd</code>	: Add a selection rule to the DHCP server pool
<code>ruledel</code>	: Delete a selection rule from the DHCP server pool
<code>flush</code>	: Flush all DHCP server pools
<code>list</code>	: List all DHCP server pools

dhcp server pool add

Add a DHCP server pool

Syntax:

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

Parameters:

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 = <{LAN_private}>
[allocation = <{dynamic|automatic}>]
[dnsmetric = <{ (missing) }>]
[gateway = <ip-address|0|none>]
[index = <number>]
[intf = <{Internet|LocalNetwork}>]
[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}>]
```

Parameters:

name	The name of the DHCP server 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.	Optional
leasetime	The time in seconds a client is allowed to use an address (tip: 0 means infinite lease).	Optional
localdns	Enable/Disable the transmission of the local DNS server in the DNS server option.	Optional

dhcp Commands

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: 0 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}>
```

Parameters:

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}>]
```

Parameters:

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 = <{LAN_private}>
```

Parameters:

instname	The name of the DHCP server option instance.	Required
name	The name of the DHCP server pool.	Required

dhcp server pool optdelete

Delete an option instance from the DHCP server pool

Syntax:

```
optdelete instname = <>  
                name = <{LAN_private}>
```

Parameters:

instname	The name of the DHCP server option instance.	Required
name	The name of the DHCP server pool.	Required

dhcp server pool rtadd

Add a route to the DHCP server pool

Syntax:

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

Parameters:

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

Parameters:

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 ruleadd

Add a selection rule to the DHCP server pool

Syntax:

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

Parameters:

name	The name of the DHCP server 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 = <{LAN_private}>  
            rulename = <>
```

Parameters:

name	The name of the DHCP server pool.	Required
rulename	The name of the DHCP selection rule.	Required

dhcp Commands

dhcp spoofing

Following commands are available :

<code>config</code>	: Display/modify dhcp spoofing state
<code>add</code>	: Add a Spoofing-Association
<code>delete</code>	: Delete a Spoofing-Association
<code>attach</code>	: Enable a Spoofing-Association
<code>detach</code>	: Disable a Spoofing-Association
<code>list</code>	: List the available Spoofing-Associations
<code>option-add</code>	: Add a DHCP Option Code to a Spoofing-Association.
<code>option-delete</code>	: Delete a DHCP Option Code from a Spoofing-Association.
<code>flush</code>	: Flush all the associations and the options.

Following command groups are available :

`debug`

dhcp spoofing add

Add a Spoofing-Association

Syntax:

```
add ifname = <>
    name = <string>
    pool_name = <{LAN_private}>
```

Parameters:

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 Commands

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}>]
```

Parameters:

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:

```
list [name = <{|||}>]
```

Parameters:

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>
```

Parameters:

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>
```

Parameters:

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

diag Commands

diag

Following commands are available :

<code>config</code>	: Configure diagnostics settings
<code>ifhide</code>	: Specify interfaces to hide
<code>iflist</code>	: List (dynamically generated at webpage load) of all interfaces to be diagnosed (debug command)
<code>ifconfig</code>	: Configure pingoption and/or ip-address for connection
<code>flush</code>	: Flush all hidden interfaces and ifconfigurations

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

diag Commands

diag config

Configure diagnostics settings

Syntax:

```
config [pingpacketsize = <number>]  
      [pingtimeout = <number>]
```

Parameters:

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

diag Commands

diag flush

Flush all hidden interfaces and ifconfigurations

Syntax:

```
flush
```

diag Commands

diag ifconfig

Configure pingoption and/or ip-address for connection

Syntax:

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

Parameters:

ifname	interfacename	Required
ipaddress	ping ipaddress	Optional
ping	pingoption	Optional

diag Commands

diag ifhide

Specify interfaces to hide

Syntax:

```
ifhide ifname = <string>
```

Parameters:

ifname	interfacename	Required
--------	---------------	----------

diag Commands

diag iflist

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

Syntax:

```
iflist
```

dns Commands

dns

Following command groups are available :

`client`

`server`

dns Commands

dns client

Following commands are available :

<code>dnsadd</code>	: Add a DNS server.
<code>dnsdelete</code>	: Delete a DNS server.
<code>dnslist</code>	: List all DNS servers.
<code>config</code>	: Modify the DNS resolver configuration.
<code>nslookup</code>	: DNS lookup for a domain name or an address.
<code>flush</code>	: 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}>]
```

Parameters:

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>]
```

Parameters:

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}>
```

Parameters:

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

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 Commands

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

```

Parameters:

domain	The DNS server domain name.	Optional
filter	Enable/disable filtering of private address space and local IP addresses from forwarded replies.	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
WANDownSpoofing	Enable/disable DNS spoofing when no applicable forwarding route present.	Optional
WDSpoofedIP	IP address used for spoofing when WANDownSpoofing enabled.	Optional

dns Commands

dns server debug

Following commands are available :

<code>stats</code>	: Print the DNS server/forwarder statistics.
<code>clear</code>	: 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 :

<code>clear</code>	: Clear the intercept cache table
<code>list</code>	: List the intercept cache table.
<code>getflags</code>	: Get the error flags for the given spoofed ip
<code>getaddress</code>	: Get the real ip for the given spoofed ip
<code>update</code>	: 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

Syntax:

```
getaddress addr = <ip-address>
```

Parameters:

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 :

<code>add</code>	:	Add a local DNS host
<code>delete</code>	:	Delete a local DNS host
<code>flush</code>	:	Flush all local DNS hosts
<code>list</code>	:	List all local DNS hosts

dns server host add

Add a local DNS host

Syntax:

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

Parameters:

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

Syntax:

```
delete name = <string>  
          [domain = <string>]
```

Parameters:

name	The name of an IP host to delete.	Required
domain	The domian of an IP host to delete.	Optional

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 :

<code>add</code>	: Creates a DNS forwarding entry or template
<code>delete</code>	: Deletes a DNS forwarding entry or template
<code>flush</code>	: Removes all DNS forwarding entries and templates
<code>list</code>	: Lists all DNS forwarding entries and templates

dns Commands

dns server route add

Creates a DNS forwarding entry or template

Syntax:

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

Parameters:

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.	Optional
label	The label associated with the DNS entry or DNS Template. Options: <{None DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	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 = <{loop|Internet|LocalNetwork}>]
```

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.	Optional

dns server route flush

Removes all DNS forwarding entries and templates

Syntax:

```
flush
```

dns server route list

Lists all DNS forwarding entries and templates

Syntax:

```
list
```

download Commands

download

Following commands are available :

<code>config</code>	: Change the upgrade daemon configuration
<code>start</code>	: Start a new upgrade
<code>ifadd</code>	: Add a download interface
<code>ifattach</code>	: Attach a download interface
<code>ifdetach</code>	: Detach a download interface
<code>ifdelete</code>	: Delete a download interface
<code>ifconfig</code>	: Configure a download interface
<code>iflist</code>	: List download interfaces

Following command groups are available :

<code>debug</code>	<code>profile</code>
--------------------	----------------------

download Commands

download config

Change the upgrade daemon configuration

Syntax:

```
config [protocol = <{tftp|ftp|http|https}>]  
      [state = <{disabled|enabled}>]
```

Parameters:

protocol	The transfer protocol to be used for file download	Optional
state	The upgrade daemon state	Optional

download Commands

download debug

Following commands are available :

<code>traceconfig</code>	: Enable/disable upgrade daemon tracing
<code>sesslist</code>	: Display the list of sessions

download debug sesslist

Display the list of sessions

Syntax:

```
sesslist
```

download debug traceconfig

Enable/disable upgrade daemon tracing

Syntax:

```
traceconfig state = <{disabled|enabled}>
```

Parameters:

state	The upgrade daemon trace state	Required
-------	--------------------------------	----------

download Commands

download ifadd

Add a download interface

Syntax:

```
ifadd intf = <string>
```

Parameters:

intf	A download interface	Required
------	----------------------	----------

download Commands

download ifattach

Attach a download interface

Syntax:

```
ifattach intf = <>
```

Parameters:

intf	A download interface.	Required
------	-----------------------	----------

download Commands

download ifconfig

Configure a download interface

Syntax:

```
ifconfig intf = <>
    [dest = <{loop|Internet|LocalNetwork}>]
    [file = <string>]
    [protocol = <{tftp|ftp|http|https}>]
    [server = <string>]
    [time = <number>]
```

Parameters:

intf	A download interface.	Required
dest	An network interface name.	Optional
file	The servername	Optional
protocol	The transfer protocol	Optional
server	The servername	Optional
time	download cycle time (in secs)	Optional

download Commands

download ifdelete

Delete a download interface

Syntax:

```
ifdelete intf = <>
```

Parameters:

intf	A download interface.	Required
------	-----------------------	----------

download Commands

download ifdetach

Detach a download interface

Syntax:

```
ifdetach intf = <>
```

Parameters:

intf	A download interface.	Required
------	-----------------------	----------

download Commands

download iflist

List download interfaces

Syntax:

```
iflist
```

download Commands

download profile

Following commands are available :

<code>add</code>	: Add a new file profile description
<code>modify</code>	: Modify a file profile description
<code>delete</code>	: Delete a file profile description
<code>list</code>	: Display a list of the file profile descriptions

download Commands

download profile add

Add a new file profile description

Syntax:

```
add          action = <{(see Parameters)}>
              extension = <{sts|ini|bin}>
              [destdir = <{(missing)}>]
              [maxsize(KBytes) = <number>]
```

Parameters:

action	The action to be done when the file with the extension of this profile is downloaded Options: <{none config_load script_load reboot upgrade}>	Required
extension	The extension of the new file profile	Required
destdir		Hidden
maxsize(KBytes)	The maximum filesize (in KBytes) allowed for files with the extension of this profile	Optional

download profile delete

Delete a file profile description

Syntax:

```
delete extension = <{sts|ini|bin}>
```

Parameters:

extension	The extension of the file profile to be deleted	Required
-----------	---	----------

download profile list

Display a list of the file profile descriptions

Syntax:

```
list
```

download Commands

download profile modify

Modify a file profile description

Syntax:

```
modify      action = <{(see Parameters)}>  
            extension = <{sts|ini|bin}>  
            [destdir = <{(missing)}>]  
            [maxsize(KBytes) = <number>]
```

Parameters:

action	The action to be done when the file with the extension of this profile is downloaded Options: <{none config_load script_load reboot upgrade}>	Required
extension	The extension of the new file profile	Required
destdir		Hidden
maxsize(KBytes)	The maximum filesize (in KBytes) allowed for files with the extension of this profile	Optional

download Commands

download start

Start a new upgrade

Syntax:

```
start protocol = <{tftp|ftp|http|https}>  
    [filename = <string>]  
    [server = <string>]
```

Parameters:

protocol	The protocol to be used for the download	Required
filename	The file to be downloaded	Optional
server	The server name or IP address	Optional

dsd Commands

dsd

Following commands are available :

`config` : Display/modify DSD framework configuration

Following command groups are available :

`debug` `intercept` `syslog` `urlfilter`
`webfilter`

dsd Commands

dsd config

Display/modify DSD framework configuration

Syntax:

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

Parameters:

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

dsd Commands

dsd debug

Following commands are available :

<code>config</code>	: Display/modify DSD debug settings
<code>stats</code>	: Display/clear DSD framework and module statistics
<code>recycling</code>	: Display/modify HTTPPI recycling settings
<code>proxy</code>	: Display/modify HTTPPI 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

Syntax:

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

Parameters:

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

dsd Commands

dsd debug proxy

Display/modify HTTPPI fixed proxy settings

Syntax:

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

Parameters:

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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat 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 HTTPPI recycling settings

Syntax:

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

Parameters:

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:

```
stats [clear = <{no|yes}>]  
      [name = <{(see Parameters)}>]
```

Parameters:

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

dsd Commands

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>]

```

Parameters:

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

dsd Commands

dsd syslog

Following commands are available :

<code>config</code>	: Display/modify HTTPPI logging configuration
<code>list</code>	: Display HTTPPI log file

dsd syslog config

Display/modify HTTPPI logging configuration

Syntax:

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

Parameters:

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

dsd syslog list

Display HTTPPI 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}>]
```

Parameters:

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 :

<code>add</code>	: Add a rule
<code>delete</code>	: Remove a rule
<code>modify</code>	: Modify an existing rule
<code>list</code>	: Display a list of current rules
<code>flush</code>	: Remove all current rules

dsd urlfilter rule add

Add a rule

Syntax:

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

Parameters:

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>]
```

Parameters:

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

dsd urlfilter rule flush

Remove all current rules

Syntax:

```
flush
```

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>]
```

Parameters:

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

dsd Commands

dsd webfilter

Following commands are available :

`config` : Configure web filter
`list` : Display web filter license state

Following command groups are available :

`cache` `professional` `server` `standard`

dsd webfilter cache

Following commands are available :

<code>stats</code>	: Display cache statistics
<code>flush</code>	: Empty internal cache

dsd webfilter cache flush

Empty internal cache

Syntax:

```
flush
```

dsd webfilter cache stats

Display cache statistics

Syntax:

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

Parameters:

expand	More detailed statistics.	Optional
--------	---------------------------	----------

dsd webfilter config

Configure web filter

Syntax:

```
config [serverunreachable = <{(see Parameters)}>]
      [sessionkey = <string>]
      [state = <{enabled|disabled}>]
      [uncategorized = <{block|accept}>]
```

Parameters:

server unreachable	Block or allow requests when the categorization server is unreachable Options: <{block-all accept-all}>	Optional
sessionkey		Optional
state	Enable or disable the web filter	Optional
uncategorized	Block or allow requests for which no category is available	Optional

dsd webfilter list

Display web filter license state

Syntax:

```
list
```

dsd webfilter professional

Following commands are available :

`config` :

Following command groups are available :

`category` `level` `rule`

dsd webfilter professional category

Following commands are available :

<code>create</code>	: Create a category or group
<code>add</code>	: Add a category to a group
<code>remove</code>	: Remove a category from a group
<code>delete</code>	: Delete a category or group
<code>list</code>	: List all categories and groups
<code>flush</code>	: Delete all categories and groups

dsd webfilter professional category add

Add a category to a group

Syntax:

```
add destid = <number>  
    srcid = <number>
```

Parameters:

destid	Destination category or group	Required
srcid	Category ID to add	Required

dsd webfilter professional category create

Create a category or group

Syntax:

```
create id = <number>  
      name = <quoted string>  
      type = <{category|group}>
```

Parameters:

id	Unique local ID for the category/group	Required
name	Friendly name	Required
type		Required

dsd webfilter professional category delete

Delete a category or group

Syntax:

```
delete id = <number>
```

Parameters:

id	Unique local ID for the category/group	Required
----	--	----------

***dsd webfilter professional category
flush***

Delete all categories and groups

Syntax:

```
flush
```

dsd webfilter professional category list

List all categories and groups

Syntax:

```
list [type = <{category|group}>]
```

Parameters:

type	Optional
------	----------

dsd webfilter professional category remove

Remove a category from a group

Syntax:

```
remove destid = <number>  
        srcid = <number>
```

Parameters:

destid	Destination category or group	Required
srcid	Category ID to add	Required

dsd webfilter professional config**Syntax:**

```
config [validcatmask = <string>]
```

Parameters:

validcatmask	Optional
--------------	----------

dsd webfilter professional level

Following commands are available :

set	:	Set current web filtering level
add	:	Add a new web filtering level
modify	:	Modify a web filtering level
delete	:	Delete a web filtering level
list	:	Display levels
flush	:	Delete all levels

dsd webfilter professional level add

Add a new web filtering level

Syntax:

```
add index = <number>
    name = <string>
[otherurls = <{block|accept}>]
    [text = <quoted string>]
```

Parameters:

index	Level index (-1 for next available)	Required
name	Content category level name	Required
otherurls	Block or allow requests that do not belong to a specific category	Optional
text	Friendly description	Optional

dsd webfilter professional level delete

Delete a web filtering level

Syntax:

```
delete index = <number>
           name = <string>
           [otherurls = <{block|accept}>]
           [text = <quoted string>]
```

Parameters:

index	Level index (-1 for next available)	Required
name	Content category level name	Required
otherurls	Block or allow requests that do not belong to a specific category	Optional
text	Friendly description	Optional

dsd webfilter professional level flush

Delete all levels

Syntax:

```
flush
```

dsd webfilter professional level list

Display levels

Syntax:

```
list
```

dsd webfilter professional level modify

Modify a web filtering level

Syntax:

```
modify index = <number>
          name = <string>
    [otherurls = <{block|accept}>]
    [text = <quoted string>]
```

Parameters:

index	Level index (-1 for next available)	Required
name	Content category level name	Required
otherurls	Block or allow requests that do not belong to a specific category	Optional
text	Friendly description	Optional

dsd webfilter professional level set

Set current web filtering level

Syntax:

```
set name = <string>
```

Parameters:

name	Name of the current category level	Required
------	------------------------------------	----------

dsd webfilter professional rule

Following commands are available :

<code>modify</code>	: Modify a rule
<code>list</code>	: List all rules
<code>clear</code>	: Reset level to default rule

dsd webfilter professional rule clear

Reset level to default rule

Syntax:

```
clear level = <string>
```

Parameters:

level	Level name	Required
-------	------------	----------

dsd webfilter professional rule list

List all rules

Syntax:

```
list [level = <string>]
```

Parameters:

level	Level name	Optional
-------	------------	----------

dsd webfilter professional rule modify

Modify a rule

Syntax:

```
modify action = <{block|accept}>
           level = <string>
           [id = <number>]
```

Parameters:

action		Required
level	Level name	Required
id	Server category ID	Optional

dsd webfilter server

Following commands are available :

<code>config</code>	: Configure web filter server
<code>add</code>	: Add a web filter server
<code>modify</code>	: Modify a web filter server
<code>delete</code>	: Delete a web filter server
<code>list</code>	: List all web filter servers
<code>flush</code>	: Flush server list

dsd webfilter server add

Add a web filter server

Syntax:

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

Parameters:

address	Server IP address	Required
port	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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>	Required
index	Server index	Optional

dsd webfilter server config

Configure web filter server

Syntax:

```
config [proxyport = <{(see Parameters)}>]
      [proxyserver = <ip-address>]
      [renewfrequency = <number>]
      [retries = <number>]
      [servertimeout = <number>]
      [timeoutmultiplier = <number>]
      [useproxy = <{disabled|enabled}>]
```

Parameters:

proxyport	Proxy server port to be used 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>	Optional
proxyserver	Proxy server to be used	Optional
renewfrequency	Frequency (in hours) to check license and list versions	Optional
retries	Number of server contact retries	Optional
servertimeout	Cobion server timeout in seconds	Optional
timeout multiplier	Timeout for reporting server error to client (timeout * multiplier)	Optional
useproxy	Enable or disable the use of a proxy server	Optional

dsd webfilter server delete

Delete a web filter server

Syntax:

```
delete address = <ip-address>
           index = <number>
           port = <{(see Parameters)}>
```

Parameters:

address	Server IP address	Required
index	Server index	Required
port	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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfsd nickname 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>	Required

dsd webfilter server flush

Flush server list

Syntax:

```
flush
```

dsd webfilter server list

List all web filter servers

Syntax:

```
list
```

dsd webfilter server modify

Modify a web filter server

Syntax:

```

modify address = <ip-address>
           index = <number>
           port = <{(see Parameters)}>

```

Parameters:

address	Server IP address	Required
index	Server index	Required
port	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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfsd nickname 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows}> or number>	Required

dsd webfilter standard

Following commands are available :

`config` :

Following command groups are available :

`category` `level` `rule`

dsd webfilter standard category

Following commands are available :

<code>create</code>	: Create a category or group
<code>add</code>	: Add a category to a group
<code>remove</code>	: Remove a category from a group
<code>delete</code>	: Delete a category or group
<code>list</code>	: List all categories and groups
<code>flush</code>	: Delete all categories and groups

dsd webfilter standard category add

Add a category to a group

Syntax:

```
add destid = <number>  
    srcid = <number>
```

Parameters:

destid	Destination category or group	Required
srcid	Category ID to add	Required

dsd webfilter standard category create

Create a category or group

Syntax:

```
create id = <number>  
      name = <quoted string>  
      type = <{category|group}>
```

Parameters:

id	Unique local ID for the category/group	Required
name	Friendly name	Required
type		Required

dsd webfilter standard category delete

Delete a category or group

Syntax:

```
delete id = <number>
```

Parameters:

id	Unique local ID for the category/group	Required
----	--	----------

dsd webfilter standard category flush

Delete all categories and groups

Syntax:

```
flush
```

dsd webfilter standard category list

List all categories and groups

Syntax:

```
list [type = <{category|group}>]
```

Parameters:

type	Optional
------	----------

dsd webfilter standard category remove

Remove a category from a group

Syntax:

```
remove destid = <number>  
        srcid = <number>
```

Parameters:

destid	Destination category or group	Required
srcid	Category ID to add	Required

dsd webfilter standard config**Syntax:**

```
config [validcatmask = <string>]
```

Parameters:

validcatmask	Optional
--------------	----------

dsd webfilter standard level

Following commands are available :

set	:	Set current web filtering level
add	:	Add a new web filtering level
modify	:	Modify a web filtering level
delete	:	Delete a web filtering level
list	:	Display levels
flush	:	Delete all levels

dsd webfilter standard level add

Add a new web filtering level

Syntax:

```
add  index = <number>
      name  = <string>
[otherurls = <{block|accept}>]
      [text = <quoted string>]
```

Parameters:

index	Level index (-1 for next available)	Required
name	Content category level name	Required
otherurls	Block or allow requests that do not belong to a specific category	Optional
text	Friendly description	Optional

dsd webfilter standard level delete

Delete a web filtering level

Syntax:

```
delete index = <number>  
           name = <string>  
           [otherurls = <{block|accept}>]  
           [text = <quoted string>]
```

Parameters:

index	Level index (-1 for next available)	Required
name	Content category level name	Required
otherurls	Block or allow requests that do not belong to a specific category	Optional
text	Friendly description	Optional

dsd webfilter standard level flush

Delete all levels

Syntax:

```
flush
```

dsd webfilter standard level list

Display levels

Syntax:

```
list
```

dsd webfilter standard level modify

Modify a web filtering level

Syntax:

```
modify index = <number>
           name = <string>
           [otherurls = <{block|accept}>]
           [text = <quoted string>]
```

Parameters:

index	Level index (-1 for next available)	Required
name	Content category level name	Required
otherurls	Block or allow requests that do not belong to a specific category	Optional
text	Friendly description	Optional

dsd webfilter standard level set

Set current web filtering level

Syntax:

```
set name = <string>
```

Parameters:

name	Name of the current category level	Required
------	------------------------------------	----------

dsd webfilter standard rule

Following commands are available :

<code>modify</code>	:	Modify a rule
<code>list</code>	:	List all rules
<code>clear</code>	:	Reset level to default rule

dsd webfilter standard rule clear

Reset level to default rule

Syntax:

```
clear level = <string>
```

Parameters:

level	Level name	Required
-------	------------	----------

dsd webfilter standard rule list

List all rules

Syntax:

```
list [level = <string>]
```

Parameters:

level	Level name	Optional
-------	------------	----------

dsd webfilter standard rule modify

Modify a rule

Syntax:

```
modify action = <{block|accept}>  
          level = <string>  
          [id = <number>]
```

Parameters:

action		Required
level	Level name	Required
id	Server category ID	Optional

dyndns Commands

dyndns

Following commands are available :

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

Following command groups are available :

<code>host</code>	<code>service</code>
-------------------	----------------------

dyndns Commands

dyndns add

Add a dynamic DNS client.

Syntax:

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

Parameters:

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

dyndns delete

Delete a dynamic DNS client.

Syntax:

```
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 :

<code>add</code>	:	Add a fully qualified host name
<code>delete</code>	:	Delete a host name
<code>flush</code>	:	Delete all host names
<code>list</code>	:	List all host names

dyndns host add

Add a fully qualified host name

Syntax:

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

Parameters:

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

dyndns host delete

Delete a host name

Syntax:

```
delete name = <>
```

Parameters:

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 = <{Internet}>]
    [mx = <string>]
    [offline = <{disabled|enabled}>]
    [password = <password>]
    [service = <{(see Parameters)}>]
    [status = <{disabled|enabled}>]
    [trace = <{disabled|enabled}>]
    [user = <string>]
    [wildcard = <{disabled|enabled}>]

```

Parameters:

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 Commands

dyndns service

Following commands are available :

<code>modify</code>	: Modify specific dynamic DNS service settings
<code>list</code>	: List all dynamic DNS services

dyndns service list

List all dynamic DNS services

Syntax:

```
list
```


dyndns Commands

dyndns service modify

Modify specific dynamic DNS service settings

Syntax:

```

modify      name = <{(see Parameters)}>
            [max_retry = <number{1-5}>]
            [port = <{(see Parameters)}>]
            [request = <string>]
            [retryinterval = <number{0-600}>]
            [server = <string>]
            [updateinterval = <number{0-2097120}>]

```

Parameters:

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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat 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 0 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 0 means disabled).	Optional

env Commands

env

Following commands are available :

set	: Sets an environment variable.
get	: Gets an environment variable.
unset	: Deletes an environment variable.
list	: List all environment variables.
flush	: Remove all non-system environment variables.
def	: Define an environment variable (command is hidden)
hash	: Transfer variable by hash algorithm. (command is hidden)

env Commands

env def

Define an environment variable (command is hidden)

Syntax:

```
def type = <{(see Parameters)}>
    var = <string>
    [alias = <translated string>]
    [calc = <quoted string>]
    [dalias = <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}>]
```

Parameters:

type	type of the variable Options: <{string passwd integer combo list radioset bool ipaddr ipmask passwdcheck 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	Additional help text (only for group description	Optional
linkvar	to which variable this variable is linked to (only for passwdcheck)	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 Commands

env flush

Remove all non-system environment variables.

Syntax:

```
flush
```

env Commands

env get

Gets an environment variable.

Syntax:

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

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 _BUILD_PASSIVEBANK _CUSTOVARIANT _PHYSLAYERTYPE _BUILDNAME _BUILD_FILENAME _BUILD_PASSIVEFILENAME _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_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	

env Commands

```
_WL3_UUID_R_SERIAL|  
_SSID_WL_MACADDR_POSTFIX|  
_SSID_POSTFIX_LEGACY_OR_MAC|  
_WL_MACADDR|_LWL_MACADDR|  
_VOICE_CAPABLE|_VOIP_TYPE|  
_MODEMLABEL|_ADSL_EOC_VERSION|  
_EOC_MSG|_WIZ_AUTOPOPUP|  
_SNTPOLL_POST_SYNC|  
_SNTPOLL_PRE_SYNC|CONF_DEVICE|  
CONF_REGION|CONF_PROVIDER|  
CONF_DESCRIPTION|CONF_SERVICE|  
CONF_DATE|CONF_DATETIME|HOST_SETUP|  
HOST_LANGUAGE|UPGRADE_URL|  
IS_NOT_DSL_DEVICE|ST_PPP_USER|  
TPL_VERSION|GEO}>
```

env Commands

env hash

Transfer variable by hash algorithm. (command is hidden)

Syntax:

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

Parameters:

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 Commands

env list

List all environment variables.

Syntax:

```
list
```


env Commands

env set

Sets an environment variable.

Syntax:

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

Parameters:

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

env Commands

env unset

Deletes an environment variable.

Syntax:

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

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 _BUILD_PASSIVEBANK _CUSTOVARIENT _PHYSLAYERTYPE _BUILDNAME _BUILD_FILENAME _BUILD_PASSIVEFILENAME _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_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	

env Commands

```
_WL3_UUID_R_SERIAL|  
_SSID_WL_MACADDR_POSTFIX|  
_SSID_POSTFIX_LEGACY_OR_MAC|  
_WL_MACADDR|_LWL_MACADDR|  
_VOICE_CAPABLE|_VOIP_TYPE|  
_MODEMLABEL|_ADSL_EOC_VERSION|  
_EOC_MSG|_WIZ_AUTOPOPUP|  
_SNTPOLL_POST_SYNC|  
_SNTPOLL_PRE_SYNC|CONF_DEVICE|  
CONF_REGION|CONF_PROVIDER|  
CONF_DESCRIPTION|CONF_SERVICE|  
CONF_DATE|CONF_DATETIME|HOST_SETUP|  
HOST_LANGUAGE|UPGRADE_URL|  
IS_NOT_DSL_DEVICE|ST_PPP_USER|  
TPL_VERSION|GEO}>
```

eth Commands

eth

Following commands are available :

<code>ifadd</code>	: Create a new ETH interface.
<code>ifdelete</code>	: Delete an ETH interface.
<code>ifattach</code>	: Attach an ETH interface.
<code>ifdetach</code>	: Detach an ETH interface.
<code>ifconfig</code>	: Modify an ETH interface.
<code>iflist</code>	: Display the ETH interfaces.
<code>flush</code>	: Flush all ETH interfaces.

Following command groups are available :

<code>device</code>	<code>filter</code>	<code>bridge</code>	<code>efm</code>
<code>oam</code>	<code>switch</code>	<code>vlan</code>	

eth Commands

eth bridge

Following commands are available :

<code>config</code>	: Modify/Display the bridge configuration settings.
<code>ippriomap</code>	: Modify the IP priority mappings for a bridge.
<code>ippriomapreset</code>	: Reset the IP priority mappings to its defaults.
<code>list</code>	: Display the current bridge instances.
<code>add</code>	: Add a new bridge instance.
<code>delete</code>	: Delete a bridge instance.
<code>select</code>	: Select the default bridge for configuring interfaces from (if not setting bridge name, for legacy purposes).
<code>ifadd</code>	: Add a new bridge interface.
<code>ifdelete</code>	: Delete a bridge interface.
<code>ifattach</code>	: Attach a bridge interface.
<code>ifdetach</code>	: Detach a bridge interface.
<code>ifconfig</code>	: Modify a bridge interface configuration.
<code>ifflush</code>	: flush the bridge interfaces: detach/delete all interfaces.
<code>iflist</code>	: Display the current bridge interfaces.
<code>macadd</code>	: Add a static MAC address to a bridge interface.
<code>maclist</code>	: Display the MAC address database.
<code>macdelete</code>	: Remove a MAC address from the database.
<code>clear</code>	: Clear bridge statistics.
<code>flush</code>	: Flush all bridge instances with their interfaces and properties.

Following command groups are available :

<code>dynvlan</code>	<code>filter</code>	<code>igmpsnooping</code>	<code>rule</code>
<code>unknownvlan</code>	<code>vlan</code>	<code>xtrntag</code>	<code>dyngroup</code>

eth Commands

eth bridge add

Add a new bridge instance.

Syntax:

```
add brname = <string>
```

Parameters:

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}>]
```

Parameters:

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 Commands

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|WAN|VOIP}>  
[dynamic = <{ (missing) }>]  
[rgroup = <{default|WAN|VOIP}>]
```

Parameters:

group	The group for the dynamic group membership entry.	Required
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 :

<code>add</code>	: Add a dynamic VLAN membership entry.
<code>delete</code>	: Delete a dynamic VLAN membership entry.
<code>list</code>	: Display a dynamic VLAN membership entry.
<code>flush</code>	: Flush all dynamic VLAN membership entries.
<code>config</code>	: Modify the dynamic VLAN membership configuration.
<code>actlist</code>	: 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|WAN|VOIP}>
    [dynamic = <{ (missing) }>]
    [id = <number{0-100000}>]
    [mode = <{none|vid|prio|both}>]
    [prio = <number{0-7}>]
    [remvlan = <{ (missing) }>]
```

Parameters:

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.

Syntax:

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

Parameters:

timeout	Timeout in seconds for the dynamic entries.	Optional
---------	---	----------

eth bridge dynvlan delete

Delete a dynamic VLAN membership entry.

Syntax:

```
delete id = <number{0-100000}>
```

Parameters:

id	Required
----	----------

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 :

<code>add</code>	: Add a filter.
<code>list</code>	: Display the bridge filters.
<code>delete</code>	: Delete a filter.
<code>config</code>	: Change filter configuration
<code>attach</code>	: Enable a filter.
<code>detach</code>	: Disable a filter.
<code>forwarding</code>	: Action: set forwarding configuration.
<code>ifadd</code>	: Connect an interface with a filter.
<code>ifdel</code>	: Remove an interface from a filter.
<code>fw dintfadd</code>	: Add Forwarding interface: filter action.
<code>fw dintfdel</code>	: Remove Forwarding interface: filter action.

eth bridge filter add

Add a filter.

Syntax:

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

Parameters:

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 = <{}>
```

Parameters:

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 = <{}>]
```

Parameters:

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 = <{}>
```

Parameters:

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 = <{}>
```

Parameters:

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 = <{ }>
```

Parameters:

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 = <{}>
```

Parameters:

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 = <{}>
```

Parameters:

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 = <{}>
```

Parameters:

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 = <{}>
```

Parameters:

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 = <{}>]
```

Parameters:

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.

Syntax:

```
flush [brname = <{bridge}>]
```

Parameters:

brname	The name of a bridge instance.	Optional
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eth bridge ifadd

Add a new bridge interface.

Syntax:

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

Parameters:

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}>]
```

Parameters:

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 = <{}>]
[dynngroup = <{(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 = <number{0-7}>]
[priotag = <{disabled|enabled}>]
[priotransparent = <{disabled|enabled}>]
[regenprio = <string>]
[retry = <number{0-65535}>]
[vlan = <{default|WAN|VOIP}>]
[wan = <{disabled|enabled}>]
[xtratatagging = <{none|c-vlan|s-vlan}>]

```

Parameters:

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
dynngroup		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

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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
xtrntagging	The 'extra tagging mode' for this interface (none, c-vlan or s-vlan).	Optional

eth Commands

eth bridge ifdelete

Delete a bridge interface.

Syntax:

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

Parameters:

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}>]
```

Parameters:

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

eth Commands

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)}>]
```

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 :

<code>config</code>	: Configure bridge instance IGMP Snooping flags.
<code>list</code>	: Display bridge instance snooped groups.
<code>ifconfig</code>	: Configure bridge interface IGMP snooping flags and mode.
<code>iflist</code>	: Display bridge interface IGMP status.
<code>clear</code>	: Clear snooping statistics.

eth bridge igmpsnooping clear

Clear snooping statistics.

Syntax:

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

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}>]
```

Parameters:

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}>]  
    [mrpd = <{disabled|enabled}>]  
    [portmode = <{Host|Router|Auto|None}>]  
    [rgmp = <{disabled|enabled}>]
```

Parameters:

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
mrpd	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)}>]
```

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.

Syntax:

```
list [brname = <{bridge}>]
```

Parameters:

brname	The name of a bridge instance.	Optional
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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}>]
```

Parameters:

dscpidx	Index in the DSCP table to edit. Options: <{dscp_0_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}>]
```

Parameters:

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|WAN|VOIP}>]
```

Parameters:

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|WAN|VOIP}>]
```

Parameters:

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 :

- | | |
|---------------------|--|
| <code>add</code> | : Add a new constraint to the VLAN learning system. |
| <code>delete</code> | : Delete a constraint from the VLAN learning system. |
| <code>list</code> | : Display all constraints from the VLAN learning system. |
| <code>flush</code> | : 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|WAN|VOIP}>  
    [isi = <number{0-32}>]  
    [vlan2 = <{default|WAN|VOIP}>]
```

Parameters:

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 Commands

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 :

<code>ifadd</code>	: Add bridge interface to unknown 'VLAN'.
<code>ifdelete</code>	: Delete bridge interface from unknown 'VLAN'.
<code>ifconfig</code>	: Modify bridge interface from unknown 'VLAN'.
<code>iflist</code>	: 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}>]
```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

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 :

<code>ifadd</code>	: Add bridge interface to virtual LAN.
<code>ifdelete</code>	: Delete bridge interface from virtual LAN.
<code>ifconfig</code>	: Modify bridge interface from virtual LAN.
<code>iflist</code>	: Display all virtual LAN's.

eth bridge vlan ifadd

Add bridge interface to virtual LAN.

Syntax:

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

Parameters:

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|WAN|VOIP}>  
             untagged = <{disabled|enabled}>
```

Parameters:

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|WAN|VOIP}>
```

Parameters:

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 bridge vlan iflist

Display all virtual LAN's.

Syntax:

```
iflist
```

eth bridge xtrntag

Following commands are available :

<code>add</code>	: Add an extra tag mapping entry.
<code>delete</code>	: Delete an extra tag mapping entry.
<code>config</code>	: Configure an extra tag mapping entry.
<code>list</code>	: Display all extra tag mapping entries.
<code>flush</code>	: Flush all extra tag mapping entries.

eth bridge xtrntag add

Add an extra tag mapping entry.

Syntax:

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

Parameters:

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 xtrntag config

Configure an extra tag mapping entry.

Syntax:

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

Parameters:

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 xtrntag delete

Delete an extra tag mapping entry.

Syntax:

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

Parameters:

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 xtrntag flush

Flush all extra tag mapping entries.

Syntax:

```
flush
```

eth bridge xtrntag list

Display all extra tag mapping entries.

Syntax:

```
list
```

eth device

Following commands are available :

- `ifconfig` : 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}>]
```

Parameters:

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)}>]
```

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 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|}>
```

Parameters:

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

eth Commands

eth efm

Following commands are available :

<code>iflist</code>	: Display the EFM interfaces.
<code>ifreset</code>	: Delete all configuration related to this EFM interface.
<code>flush</code>	: Flush all EFM interfaces.

Following command groups are available :

`qos`

eth Commands

eth efm flush

Flush all EFM interfaces.

Syntax:

```
flush
```

eth Commands

eth efm iflist

Display the EFM interfaces.

Syntax:

```
iflist [intf = <{efmif1}>]
```

Parameters:

intf	The name of an EFM interface.	Optional
------	-------------------------------	----------

eth efm ifreset

Delete all configuration related to this EFM interface.

Syntax:

```
ifreset intf = <{efmif1}>
```

Parameters:

intf	The name of an EFM interface to be reset.	Required
------	---	----------

eth Commands

eth efm qos

Following commands are available :

`config` : Configure Qos entry of EFM interface.
`list` : Display the Qos list.

Following command groups are available :

`queue`

eth efm qos config

Configure Qos entry of EFM interface.

Syntax:

```
config intf = <{efmif1}>  
  [priority = <{strict|cwrr|pwrr|wfq}>]  
  [queues = <number{0-8}>]
```

Parameters:

intf	The name of the EFM Interface.	Required
priority	The weight of this queue used for Strict Priority, WFQ, CWRR or PWRR. (default=strict priority)	Optional
queues	Number of Transmit Queue of the EFM Interface (default=1)	Optional

eth efm qos list

Display the Qos list.

Syntax:

```
list [intf = <{shp_efmif1}>]
```

Parameters:

intf	The name of the EFM Interface.	Optional
------	--------------------------------	----------

eth efm qos queue

Following commands are available :

<code>config</code>	: Configure TX Queue entry.
<code>list</code>	: Display the Qos list.

eth efm qos queue config

Configure TX Queue entry.

Syntax:

```

config intf = <{(see Parameters)}>
    [hiprio = <number{0-15}>]
    [loprio = <number{0-15}>]
    [maxpackets = <number{0-2500}>]
    [subprio = <number{0-8}>]
    [weight = <number{0-64}>]

```

Parameters:

intf	The name of the Transmit Queue. Options: <{queue_e0 queue_e1 queue_e2 queue_e3 queue_e4 queue_e5}>	Required
hiprio	The highest internal priority boundary for entering this queue.	Optional
loprio	The lowest internal priority boundary for entering this queue.	Optional
maxpackets	The maximum number of packets in the queues.	Optional
subprio	Sub Priority of the queue, evaluated against other channels when strict priority is chosen.	Optional
weight	Weight value of the chosen weight algorithm.	Optional

eth efm qos queue list

Display the Qos list.

Syntax:

```
list [intf = <{shp_efmif1}>]
```

Parameters:

intf	The name of the EFM Interface.	Optional
------	--------------------------------	----------

eth Commands

eth filter

Following command groups are available :

`operand`

`template`

eth filter operand

Following commands are available :

<code>add</code>	: Add a filter operand.
<code>config</code>	: Set the operand to a certain type (will reset content first).
<code>delete</code>	: Delete a filter operand.
<code>reset</code>	: Reset an operand to its default initial state (removes all content, set to undefined type).
<code>list</code>	: Display the filter operands.
<code>vidadd</code>	: Add another VID in the set.
<code>viddelete</code>	: Delete a VID from the set.
<code>frameclassadd</code>	: Add another frameclass in the set.
<code>frameclassdelete</code>	: Delete a frameclasse from the set.
<code>ipprotoadd</code>	: Add another ip protocol in the set.
<code>ipprotodelete</code>	: Delete a ip protocol from the set.
<code>priorityadd</code>	: Add another priority in the set.
<code>prioritydelete</code>	: Delete a ip priority from the set.
<code>flush</code>	: Remove all filter operands (this will only delete the ones not in use: flush filters first).

eth filter operand add

Add a filter operand.

Syntax:

```
add operand = <string>
```

Parameters:

operand	The name of the new operand operand.	Required
---------	--------------------------------------	----------

eth filter operand config

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

Syntax:

```
config action = <{Delete|Insert|Modify}>
  daiclass = <{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 = <number{0-7}>]
[vid = <number{1-4095}>]
```

Parameters:

action	The action to undertake with matching filter..	Required
daiclass	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

	UpdateChecksum}>	
value	The value.	Required
frameclass	The Ethernet frame class to filter on. Options: <{Eth2 SNAPEType SNAP8021H SNAPOther LLCNLPID LLCOther}>	Optional
ipprotocol	The IP protocol to filter on.	Optional
priority	The VLAN priority to filter on.	Optional
vid	The VID to filter on.	Optional

eth filter operand delete

Delete a filter operand.

Syntax:

```
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:

```
frameclassadd frameclass = <{(see Parameters)}>  
operand = <{}>
```

Parameters:

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 frameclass from the set.

Syntax:

```
frameclassdelete frameclass = <{(see Parameters)}>  
operand = <{}>
```

Parameters:

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:

```
ipprotoadd ipprotocol = <number{0-255}>  
operand = <{ }>
```

Parameters:

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:

```
ipprotodelete ipprotocol = <{}>  
                operand = <{}>
```

Parameters:

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 = <{}>]
```

Parameters:

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}>
```

Parameters:

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 = <{}>
```

Parameters:

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).

Syntax:

```
reset operand = <{}>
```

Parameters:

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

eth filter operand vidadd

Add another VID in the set.

Syntax:

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

Parameters:

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 = <{}>
```

Parameters:

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

eth filter template

Following commands are available :

<code>add</code>	: Add a filter.
<code>list</code>	: Display the filters.
<code>delete</code>	: Delete a filter.
<code>config</code>	: Config a filter.
<code>setvid</code>	: Action: enable/disable VID derivation
<code>setpriority</code>	: Action: enable/disable priority derivation
<code>ruleadd</code>	: Connect an operand rule with a filter.
<code>rulemodify</code>	: Modify an operand rule from a filter.
<code>ruledel</code>	: Remove an operand rule from a filter.
<code>flush</code>	: 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}>]
```

Parameters:

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}>]
```

Parameters:

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 = <{}>]
```

Parameters:

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}>]
```

Parameters:

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 = <{}>
```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

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 Commands

eth flush

Flush all ETH interfaces.

Syntax:

```
flush
```

eth Commands

eth ifadd

Create a new ETH interface.

Syntax:

```
ifadd intf = <string>
```

Parameters:

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

eth Commands

eth ifattach

Attach an ETH interface.

Syntax:

```
ifattach intf = <{}>
```

Parameters:

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

eth Commands

eth ifconfig

Modify an ETH interface.

Syntax:

```
ifconfig intf = <{eth_DEFAULT|eth_WAN|eth_VOIP}>
               [dest = <{(see Parameters)}>]
               [priotag = <{disabled|enabled}>]
               [retry = <number{0-65535}>]
               [vlan = <{default|WAN|VOIP}>]
               [wan = <{disabled|enabled}>]
```

Parameters:

intf	The name of the ETH interface to configure.	Required
dest	The destination interface for this ETH interface. Options: <{bridge eth_DEFAULT eth_WAN eth_VOIP}>	Optional
priotag	Enable/Disable VLAN priority tagging.	Optional
retry	The number of times the ETH connection setup should retry before giving up.	Optional
vlan	The VLAN for this ETH interface.	Optional
wan	Enable/Disable WAN for this ETH interface.	Optional

eth Commands

eth ifdelete

Delete an ETH interface.

Syntax:

```
ifdelete intf = <{eth_DEFAULT|eth_WAN|eth_VOIP}>
```

Parameters:

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

eth Commands

eth ifdetach

Detach an ETH interface.

Syntax:

```
ifdetach intf = <{eth_DEFAULT|eth_WAN|eth_VOIP}>
```

Parameters:

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

eth Commands

eth iflist

Display the ETH interfaces.

Syntax:

```
iflist [intf = <{eth_DEFAULT|eth_WAN|eth_VOIP}>]
```

Parameters:

intf	The name of an ETH interface.	Optional
------	-------------------------------	----------

eth Commands

eth oam

Following commands are available :

<code>add</code>	: Enable Ethernet OAM (E-OAM) on an interface.
<code>config</code>	: Modify global E-OAM configuration.
<code>configlist</code>	: Display global E-OAM configuration.
<code>delete</code>	: Disable E-OAM on an interface.
<code>ef-event</code>	: Configure Errored Frame Event.
<code>efp-event</code>	: Configure Errored Frame Period Event.
<code>efss-event</code>	: Configure Errored Frame Seconds Summary Event.
<code>esp-event</code>	: Configure Errored Symbol Period Event.
<code>linkmonitor</code>	: Configure the link monitor.
<code>list</code>	: Display the E-OAM configuration of an interface(s).
<code>loopback</code>	: Enable/disable E-OAM remote loopback for an interface.
<code>loopback-tg</code>	: Generate traffic for the E-OAM loopback.
<code>modify</code>	: Modify E-OAM configuration for an interface.
<code>stats</code>	: Display the E-OAM statistics of an interface.
<code>varname</code>	: Retrieve a variable by name from the remote node.
<code>varnbr</code>	: Retrieve a variable by Branch/Leaf from the remote node.

Following command groups are available :

`debug`

eth Commands

eth oam add

Enable Ethernet OAM (E-OAM) on an interface.

Syntax:

```
add ifname = <{(see Parameters)}>
```

Parameters:

ifname	The interface for which to add E-OAM support. Options: <{eth_DEFAULT ethport1 ethport2 ethport3 ethport4 WLAN virt}>	Required
--------	---	----------

eth oam config

Modify global E-OAM configuration.

Syntax:

```

config [link-event = <{disabled|enabled}>]
      [ll-timeout = <number{1-86400}>]
      [loopback = <{disabled|enabled}>]
      [max-pdu-rate = <number{1-100}>]
      [mode = <{passive|active}>]
      [mru = <number{64-1518}>]
      [oui = <string>]
      [state = <{disabled|enabled}>]
      [tx-timeout = <number{1-86400}>]
      [unidirectional = <{disabled|enabled}>]
      [var-response = <{disabled|enabled}>]
      [vendor-code = <number or string>]

```

Parameters:

link-event	E-OAM link event capability.	Optional
ll-timeout	Local Lost Link timeout.	Optional
loopback	E-OAM loopback capability.	Optional
max-pdu-rate	Maximum number of PDUs per second.	Optional
mode	E-OAM operational mode.	Optional
mru	Maximum Receive Unit.	Optional
oui	OUI to be used in Information OAM PDUs (system OUI if left blank).	Optional
state	Enable/disable E-OAM.	Optional
tx-timeout	Transmission timeout.	Optional
unidirectional	E-OAM unidirectional capability.	Optional
var-response	E-OAM variable response capability.	Optional
vendor-code	Vendor Specific Information.	Optional

eth oam configlist

Display global E-OAM configuration.

Syntax:

```
configlist
```

eth oam debug

Following commands are available :

<code>configlist</code>	: Display E-OAM debug configuration.
<code>nc-events</code>	: Generate non critical event errors.
<code>traceconfig</code>	: Modify E-OAM trace level.

eth oam debug configlist

Display E-OAM debug configuration.

Syntax:

```
configlist
```

eth oam debug nc-events

Generate non critical event errors.

Syntax:

```
nc-events state = <{disabled|enabled}>
```

Parameters:

state	Enable/disable the nc-event-error generator.	Required
-------	--	----------

eth oam debug traceconfig

Modify E-OAM trace level.

Syntax:

```
traceconfig level = <number{0-15}>
```

Parameters:

level	E-OAM trace level.	Required
-------	--------------------	----------

eth oam delete

Disable E-OAM on an interface.

Syntax:

```
delete ifname = <{}>
```

Parameters:

ifname	The interface for which to remove E-OAM support.	Required
--------	--	----------

eth oam ef-event

Configure Errored Frame Event.

Syntax:

```
ef-event ifname = <{}>  
    [threshold = <number{0-65535}>]  
    [window = <number{10-65535}>]
```

Parameters:

ifname	The interface for which to configure link event.	Required
threshold	Errored Frame Event threshold.	Optional
window	Errored Frame Event window (x 100ms) - standardized range: 100 - 600.	Optional

eth oam efp-event

Configure Errored Frame Period Event.

Syntax:

```
efp-event ifname = <{}>
               [threshold = <number{0-65535}>]
               [window = <number{15-65535}>]
```

Parameters:

ifname	The interface for which to configure link event.	Required
threshold	Errored Frame Period Event threshold.	Optional
window	Errored Frame Period Event window (x10E+4 frames) - standardized range: 1 - 900 (100Base-T).	Optional

eth oam efss-event

Configure Errored Frame Seconds Summary Event.

Syntax:

```
efss-event ifname = <{}>  
    [threshold = <number{0-65535}>]  
    [window = <number{10-65535}>]
```

Parameters:

ifname	The interface for which to configure link event.	Required
threshold	Errored Frame Seconds Summary Event threshold.	Optional
window	Errored Frame Seconds Summary Event window (x 100ms) - standardized range: 100 - 9000.	Optional

eth oam esp-event

Configure Errored Symbol Period Event.

Syntax:

```
esp-event ifname = <{}>  
            [threshold = <number{0-65535}>]  
            [window = <number{25-65535}>]
```

Parameters:

ifname	The interface for which to configure link event.	Required
threshold	Errored Symbol Period Event threshold.	Optional
window	Errored Symbol Period Event window (x10E+6 symbols) - standardized range: 25 - 1500 (100Base-T).	Optional

eth oam linkmonitor

Configure the link monitor.

Syntax:

```
linkmonitor [ef-threshold = <number{0-65535}>]
            [ef-window = <number{10-65535}>]
            [efp-threshold = <number{0-65535}>]
            [efp-window = <number{15-65535}>]
            [efss-threshold = <number{0-65535}>]
            [efss-window = <number{10-65535}>]
            [esp-threshold = <number{0-65535}>]
            [esp-window = <number{25-65535}>]
            [poll-period = <number{1-60}>]
            [retransmit-count = <number{0-5}>]
            [state = <{disabled|enabled}>]
```

Parameters:

ef-threshold	Errored Frame Event threshold.	Optional
ef-window	Errored Frame Event window (x 100ms) - standardized range: 100 - 600.	Optional
efp-threshold	Errored Frame Period Event threshold.	Optional
efp-window	Errored Frame Period Event window (x10E+4 frames) - standardized range: 1 - 900 (100Base-T).	Optional
efss-threshold	Errored Frame Seconds Summary Event threshold.	Optional
efss-window	Errored Frame Seconds Summary Event window (x 100ms) - standardized range: 100 - 9000.	Optional
esp-threshold	Errored Symbol Period Event threshold.	Optional
esp-window	Errored Symbol Period Event window (x10E+6 symbols) - standardized range: 25 - 1500 (100Base-T).	Optional
poll-period	Link polling period (in seconds).	Optional
retransmit-count	Notification events retransmit count.	Optional
state	Enable/disable Link Monitor.	Optional

eth oam list

Display the E-OAM configuration of an interface(s).

Syntax:

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

Parameters:

expand	Expand enabled/disabled.	Optional
ifname	The interface for which to list E-OAM information.	Optional

eth oam loopback

Enable/disable E-OAM remote loopback for an interface.

Syntax:

```
loopback ifname = <{}>  
[state = <{disabled|enabled}>]
```

Parameters:

ifname	The interface for which to enable/disable E-OAM loopback.	Required
state	Enable/disable E-OAM remote loopback.	Optional

eth oam loopback-tg

Generate traffic for the E-OAM loopback.

Syntax:

```
loopback-tg ifname = <{}>  
              size = <number{46-1500}>  
              [count = <number{0-1000}>]  
              [interval = <number{100-10000}>]
```

Parameters:

ifname	The interface on which to generate E-OAM loopback traffic.	Required
size	The payload size of the loopback frames.	Required
count	The number of loopback frames to generate.	Optional
interval	The interval in milliseconds between frames.	Optional

eth oam modify

Modify E-OAM configuration for an interface.

Syntax:

```

modify    ifname = <{}>
          [link-event = <{disabled|enabled}>]
          [ll-timeout = <number{1-86400}>]
          [loopback = <{disabled|enabled}>]
          [max-pdu-rate = <number{1-100}>]
          [mode = <{passive|active}>]
          [mru = <number{64-1518}>]
          [oui = <string>]
          [state = <{disabled|enabled}>]
          [tx-timeout = <number{1-86400}>]
          [unidirectional = <{disabled|enabled}>]
          [var-response = <{disabled|enabled}>]
          [vendor-code = <number or string>]

```

Parameters:

ifname	The interface for which to configure E-OAM.	Required
link-event	E-OAM link event capability.	Optional
ll-timeout	Local Lost Link timeout.	Optional
loopback	E-OAM loopback capability.	Optional
max-pdu-rate	Maximum number of PDUs per second.	Optional
mode	E-OAM operational mode.	Optional
mru	Maximum Receive Unit.	Optional
oui	OUI to be used in Information OAM PDUs (system OUI if left blank).	Optional
state	Enable/disable E-OAM.	Optional
tx-timeout	Transmission timeout.	Optional
unidirectional	E-OAM unidirectional capability.	Optional
var-response	E-OAM variable response capability.	Optional
vendor-code	Vendor Specific Information.	Optional

eth oam stats

Display the E-OAM statistics of an interface.

Syntax:

```
stats ifname = <{}>
```

Parameters:

ifname	The interface for which to display E-OAM statistics.	Required
--------	--	----------

eth oam varname

Retrieve a variable by name from the remote node.

Syntax:

```
varname ifname = <{}>  
              name = <{(see Parameters)}>
```

Parameters:

ifname	The interface on which to request the variable.	Required
name	Variable name. Options: <{macid frames-tx-ok frames-rx-ok fcs-errors alignment-errors octets-tx-ok int-mac-tx-error octets-rx-ok int-mac-rx-error mcast-tx-ok bcast-tx-ok mcast-rx-ok bcast-rx-ok frame-too-long-errors symbol-errors}>	Required

eth oam varnbr

Retrieve a variable by Branch/Leaf from the remote node.

Syntax:

```
varnbr branch = <number>  
        ifname = <{}>  
        leaf = <number>
```

Parameters:

branch	Branch.	Required
ifname	The interface on which to request the variable.	Required
leaf	Leaf.	Required

eth Commands

eth switch

Following commands are available :

`info` : Display switch capabilities

Following command groups are available :

<code>group</code>	<code>mirror</code>	<code>qos</code>	<code>shaper</code>
<code>share</code>	<code>storm</code>		

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.
- `flush` : To set all ports to the default settings (all ports in group 0).

eth switch group delete

Delete a specified port from a specified group.

Syntax:

```
delete group = <number{0-5}>  
           port = <number{1-4}>
```

Parameters:

group	The group id.	Required
port	The port.	Required

eth switch group flush

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

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{0-5}>  
    port = <number{1-4}>
```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

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

eth switch qos

Following commands are available :

<code>config</code>	: Configure common qos parameters.
<code>weights</code>	: Configure the queue weights.
<code>ifconfig</code>	: Configure per port qos parameters.
<code>list</code>	: Display qos configuration.

eth switch qos config

Configure common qos parameters.

Syntax:

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

Parameters:

state	Enable/disable QoS.	Required
nbrOfQueues	Number of queues.	Optional
realtime	Enable/disable realtime.	Optional
rxbackpressure	Enable/disable controlled receive from switch (OBC pauses Rx).	Optional
threshold	Tx Qos threshold.	Optional
txbackpressure	Enable/disable controlled transmit to switch (switch pauses Tx).	Optional

eth switch qos ifconfig

Configure per port qos parameters.

Syntax:

```
ifconfig mode = <{(see Parameters)}>  
           port = <number{1-4}>  
           [flowcontrol = <{disabled|enabled}>]
```

Parameters:

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}>
```

Parameters:

queue0	Weight of queue 0 in WFQ (in %).	Required
queue1	Weight of queue 1 in WFQ (in %).	Required
queue2	Weight of queue 2 in WFQ (in %).	Required
queue3	Weight of queue 3 in WFQ (in %).	Required

eth switch shaper

Following commands are available :

<code>config</code>	: Configure common ingress shaper parameters.
<code>ifconfig</code>	: Configure per port shaper parameters.
<code>iflist</code>	: Display 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}>]
  [unknown = <{enabled|disabled}>]
```

Parameters:

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:

```
ifconfig ingress = <{enabled|disabled}>
                port = <number{1-4}>
                shaper = <number{0-1}>
                [burstsize = <{16|20|28|40|76|140|268|500}>]
                [speed = <number{64000-1000000000}>]
                [state = <{enabled|disabled}>]
```

Parameters:

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 :

<code>add</code>	: Add a port to be shared.
<code>delete</code>	: Delete a shared port.
<code>list</code>	: Display shared ports.

eth switch share add

Add a port to be shared.

Syntax:

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

Parameters:

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}>
```

Parameters:

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 :

<code>ifconfig</code>	: Configure per port storm control parameters.
<code>iflist</code>	: Display 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 = <{16|20|28|40|76|140|268|500}>]
    [multicast = <{enabled|disabled}>]
    [rate = <number{0-1000}>]
    [state = <{enabled|disabled}>]
    [unknown = <{enabled|disabled}>]
```

Parameters:

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 :

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

Following command groups are available :

`primap`

eth Commands

eth vlan add

Add a new virtual LAN.

Syntax:

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

Parameters:

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|WAN|VOIP}>
```

Parameters:

name	The VLAN name.	Required
------	----------------	----------

eth vlan flush

Flush all virtual LAN's.

Syntax:

```
flush
```


eth Commands

eth vlan list

Display all virtual LAN's.

Syntax:

```
list
```

eth Commands

eth vlan priomap

Following commands are available :

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

eth vlan priomap config

Change a VLAN/DE to/from internalpriority mapping.

Syntax:

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

Parameters:

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 Commands

expr

Following commands are available :

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

expr Commands

expr add

Add an expression.

Syntax:

```
add          addr [!]= <ip-range>
            iplengthmin [!]= <number>
            mac [!]= <hardware-address>
            name      = <{(see Parameters)}>
            [bridgeport      = <{(missing)}>]
            [dscp [!]= <{(see Parameters)}>]
            [dstport [!]= <{(see Parameters)}>]
            [dstportend      = <{(see Parameters)}>]
            [icmpcode [!]= <number{0-15}>]
            [icmpcodeend      = <number{0-15}>]
            [icmptype [!]= <{(see Parameters)}>]
            [intf [!]= <{(see Parameters)}>]
            [intfgroup [!]= <{(see Parameters)}>]
            [iplengthmax      = <number>]
            [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}>]
```

Parameters:

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 lan local tunnel dmz guest voice_if contentsharing_ip private ssdp_ip mdap_ip 192.168.1.253 ftp icmp igmp 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 VoIP-Inc-SIP-UDP VoIP-Inc-SIP-TCP VoIP-Inc-RTP}>	Required
bridgeport		Hidden

expr Commands

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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfsd nickname 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 sysstat 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfsd nickname 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 sysstat 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

expr Commands

intf	The IP interface name. (Can optionally use "!=") Options: <{loop Internet LocalNetwork}>	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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat	Optional

expr Commands

	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>]
```

Parameters:

name	The name of an expression to delete. Options: <{wan lan local tunnel dmz guest voice_if contentsharing_ip private ssdp_ip mdap_ip 192.168.1.253 ftp icmp igmp 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 VoIP-Inc-SIP-UDP VoIP-Inc-SIP-TCP VoIP-Inc-RTP}>	Required
index	The index of a subexpression.	Optional

expr flush

Flush all expressions.

Syntax:

```
flush
```

expr Commands

expr list

List expressions.

Syntax:

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

Parameters:

dynamic		Hidden
format	The format of the expression list.	Optional
name	<p>The name of an expression to list.</p> <p>Options: <{_intf_o wan lan _intf_1 _intf_2 DHCP-R_if_o local tunnel dmz guest voice_if DNS-S_if_o MDAP_if_o PPTPD_if_o PPTPGRE_if_o HTTP_if_o HTTPs_if_o FTP_if_o TELNET_if_o DHCP-S_if_o SSDP_if_o PING_RESPONDER_if_o UPnP-HTTP_if_o _addr_127_o_o_1 _addr_192_168_1_254 private ssdp_ip mdap_ip 192.168.1.253 _addr_130_43_75_179 ftp DHCP-R_sv_o icmp igmp 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 VoIP-Inc-SIP-UDP VoIP-Inc-SIP-TCP VoIP-Inc-RTP DNS-S_sv_o MDAP_sv_o PPTPD_sv_o PPTPGRE_sv_o HTTP_sv_o HTTPs_sv_o FTP_sv_o TELNET_sv_o DHCP-S_sv_o SSDP_sv_o PING_RESPONDER_sv_o UPnP-HTTP_sv_o}></p>	Optional
type	The type of an expression.	Optional

expr Commands

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 [!]= <number{0-15}>]
            [icmpcodeend = <number{0-15}>]
            [icmptype [!]= <{(see Parameters)}>]
            [intf [!]= <{(see Parameters)}>]
            [intfgroup [!]= <{(see Parameters)}>]
            [iplengthmax = <number>]
            [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}>]

```

Parameters:

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 lan local tunnel dmz guest voice_if contentsharing_ip private ssdp_ip mdap_ip 192.168.1.253 ftp icmp igmp 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 VoIP-Inc-SIP-	Required

UDP VoIP-Inc-SIP-TCP VoIP-Inc-RTP}>		
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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat 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-	Optional

expr Commands

	reply address-mask-request address-mask-reply} or number>	
intf	The IP interface name. (Can optionally use “!=”) Options: <{loop Internet LocalNetwork}>	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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio	Optional

expr Commands

	rip rtelnet rtsp sip smtp snmp snmptrap snpp sntp sql*net sql-net sqlserv sunrpc syslog sysstat 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 Commands

firewall

Following commands are available :

<code>config</code>	:	Display/Modify firewall configuration.
<code>clear</code>	:	Clear firewall configuration.
<code>list</code>	:	Display firewall configuration.

Following command groups are available :

<code>chain</code>	<code>debug</code>	<code>level</code>	<code>rule</code>
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firewall chain

Following commands are available :

<code>add</code>	: Add a chain.
<code>delete</code>	: Delete a chain.
<code>list</code>	: Display a list of chains.
<code>flush</code>	: Flush all chains.
<code>modify</code>	: Modify a chain. (command is hidden)

firewall chain add

Add a chain.

Syntax:

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

Parameters:

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

firewall chain delete

Delete a chain.

Syntax:

```
delete chain = <chain name>
```

Parameters:

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) }>]
```

Parameters:

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

firewall Commands

firewall clear

Clear firewall configuration.

Syntax:

```
clear
```


firewall config

Display/Modify firewall configuration.

Syntax:

```
config [icmpchecks = <{disabled|enabled}>]  
      [keep = <{disabled|enabled}>]  
      [logdefault = <{disabled|enabled}>]  
      [logthreshold = <{disabled|enabled}>]  
      [state = <{disabled|enabled}>]  
      [tcpchecks = <{none|fast|exact}>]  
      [tcpwindow = <number{0-1073725440}>]  
      [test = <{(missing)}>]  
      [udpchecks = <{disabled|enabled}>]
```

Parameters:

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 tcpwindow for fast TCP checks	Optional
test		Hidden
udpchecks	Disable/Enable UDP checks.	Optional

firewall Commands

firewall debug

Following commands are available :

<code>traceconfig</code>	: Display/Modify firewall trace configuration.
<code>stats</code>	: Display firewall statistics.
<code>clear</code>	: 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}>]
```

Parameters:

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 :

<code>add</code>	: Add a new security level.
<code>delete</code>	: Delete a security level.
<code>modify</code>	: Modify a security level.
<code>list</code>	: List all security levels.
<code>set</code>	: Set/Display active security level.
<code>flush</code>	: 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}>]
```

Parameters:

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

firewall level delete

Delete a security level.

Syntax:

```
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.

Syntax:

```
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}>]
```

Parameters:

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

firewall level set

Set/Display active security level.

Syntax:

```
set [name = <security level name>]
```

Parameters:

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

firewall Commands

firewall list

Display firewall configuration.

Syntax:

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

Parameters:

format	The format of the firewall list.	Optional
--------	----------------------------------	----------

firewall Commands

firewall rule

Following commands are available :

<code>add</code>	: Add a rule.
<code>delete</code>	: Delete a rule.
<code>modify</code>	: Modify a rule.
<code>list</code>	: Display a list of rules.
<code>flush</code>	: Flush all rules.

Following command groups are available :

`debug`

firewall Commands

firewall rule add

Add a rule.

Syntax:

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

Parameters:

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 "!=") Options: <{wan lan local tunnel dmz guest voice_if}>	Optional
dstip	The name of the destination ip expression. (Can optionally use "!=") Options: <{contentsharing_ip private ssdp_ip mdap_ip 192.168.1.253}>	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

firewall Commands

newindex		Hidden
serv	The name of the service expression. (Can optionally use “!=”) Options: <{ftp icmp igmp 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 VoIP-Inc-SIP-UDP VoIP-Inc-SIP-TCP VoIP-Inc-RTP}>	Optional
srcintf	The name of the source interface expression. (Can optionally use “!=”) Options: <{wan lan local tunnel dmz guest voice_if}>	Optional
srcip	The name of the source ip expression. (Can optionally use “!=”) Options: <{contentsharing_ip private ssdp_ip mdap_ip 192.168.1.253}>	Optional
srcmac		Hidden
state	Disable/Enable this rule.	Optional

firewall rule debug

Following commands are available :

<code>traceconfig</code>	: Display/Modify rule trace configuration.
<code>stats</code>	: Display rule statistics.
<code>clear</code>	: Clear rule statistics.

firewall rule debug clear

Clear rule statistics.

Syntax:

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

Parameters:

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>]
```

Parameters:

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}>]
```

Parameters:

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

firewall rule delete

Delete a rule.

Syntax:

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

Parameters:

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 name>]
```

Parameters:

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}>]
```

Parameters:

chain	The name of the chain to list the rules of.	Optional
format	The format of the rule list.	Optional

firewall Commands

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}>]
```

Parameters:

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

firewall Commands

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

grp Commands

grp

Following commands are available :

<code>rtlist</code>	: Show the current routes in the grp routing table.
<code>config</code>	: Set the grp configuration settings.
<code>flush</code>	: Flush grp interface settings and parameters.

Following command groups are available :

`rip`

grp Commands

grp config

Set the grp configuration settings.

Syntax:

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

Parameters:

cdistance	Set the distance of the connected route type. Default distance is 0.	Optional
kdistance	Set the distance of the kernel route type. Default distance is 1.	Optional
rdistance	Set the distance of the RIP route type. Default distance is 120.	Optional
trace	Enable/Disable tracing.	Optional

grp Commands

grp flush

Flush grp interface settings and parameters.

Syntax:

```
flush
```

grp Commands

grp rip

Following commands are available :

<code>ifconfig</code>	: Configure a RIP interface.
<code>config</code>	: Set the RIP configuration settings.
<code>show</code>	: Show the RIP settings and the routes in the RIP database.
<code>flush</code>	: 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}>]
```

Parameters:

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

grp Commands

grp rip flush

Flush RIP interface settings and global parameters.

Syntax:

```
flush
```

grp rip ifconfig

Configure a RIP interface.

Syntax:

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

Parameters:

intf	The name of the RIP interface to configure.	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 Commands

grp rip show

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

Syntax:

```
show
```

grp Commands

grp rtlist

Show the current routes in the grp routing table.

Syntax:

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

Parameters:

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 :

<code>clear</code>	: Remove all host devices
<code>flush</code>	: Flush Device Discovery configuration (i.e. clear & to defaults)
<code>config</code>	: Configure Device Discovery deamon
<code>add</code>	: Add host device
<code>update</code>	: Update host device parameters
<code>delete</code>	: Delete host device
<code>list</code>	: 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)}>]

```

Parameters:

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

hostmgr Commands

hostmgr clear

Remove all host devices

Syntax:

```
clear
```

hostmgr Commands

hostmgr config

Configure Device Discovery daemon

Syntax:

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

Parameters:

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

hostmgr Commands

hostmgr delete

Delete host device

Syntax:

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

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 Commands

hostmgr flush

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

Syntax:

```
flush
```


hostmgr Commands

hostmgr list

List all host devices

Syntax:

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

Parameters:

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

hostmgr Commands

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)}>]

```

Parameters:

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 Commands

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 Commands

ids clear

Clear IDS statistics.

Syntax:

```
clear
```

ids config

Display/Modify IDS configuration.

Syntax:

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

Parameters:

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

ids Commands

ids conntrack

Following commands are available :

<code>list</code>	: Display connections in connection tracker.
<code>stats</code>	: Display connection tracker statistics.
<code>clear</code>	: 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 Commands

ids parser

Following commands are available :

<code>list</code>	: Display ids parser configuration.
<code>modify</code>	: 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>]
```

Parameters:

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

ids Commands

ids pattern

Following commands are available :

<code>list</code>	: Display patterns in pattern tracker.
<code>stats</code>	: Display pattern tracker statistics.
<code>clear</code>	: Reset pattern tracker.

ids Commands

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 Commands

ids signature

Following commands are available :

<code>list</code>	: Display ids signature configuration.
<code>modify</code>	: Modify ids signature configuration.

ids signature list

Display ids signature configuration.

Syntax:

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

Parameters:

signature	The name of the signature. Options: <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>	Optional
-----------	---	----------

ids signature modify

Modify ids signature configuration.

Syntax:

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

Parameters:

state	The state of the sign.	Required
signature	<p>The name of the signature.</p> <p>Options: <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></p>	Optional

ids Commands

ids threshold

Following commands are available :

<code>list</code>	: Display IDS thresholds.
<code>modify</code>	: Modify IDS threshold.
<code>clear</code>	: Reset IDS thresholds.

ids Commands

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>]
```

Parameters:

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

igmp Commands

igmp

Following command groups are available :

`host`

`proxy`

igmp Commands

igmp host

Following commands are available :

<code>config</code>	: Display/Modify global IGMP configuration.
<code>ifconfig</code>	: Configure an IGMP interface.
<code>iflist</code>	: Show the configuration of the IGMP interfaces.
<code>list</code>	: Show the IGMP groups.
<code>flush</code>	: Flush the IGMP settings.

Following command groups are available :

`debug`

igmp Commands

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 Commands

igmp host debug

Following commands are available :

<code>stats</code>	: Print IGMP statistics.
<code>clear</code>	: Clear IGMP statistics.

igmp Commands

igmp host debug clear

Clear IGMP statistics.

Syntax:

```
clear
```

igmp Commands

igmp host debug stats

Print IGMP statistics.

Syntax:

```
stats
```

igmp Commands

igmp host flush

Flush the IGMP settings.

Syntax:

```
flush
```

igmp Commands

igmp host ifconfig

Configure an IGMP interface.

Syntax:

```
ifconfig intf = <{loop|Internet|LocalNetwork}>  
version = <{none|IGMPv1|IGMPv2|IGMPv3}>
```

Parameters:

intf	The IP interface name.	Required
version	The IGMP version of the IP interface.	Required

igmp Commands

igmp host iflist

Show the configuration of the IGMP interfaces.

Syntax:

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

Parameters:

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

igmp Commands

igmp host list

Show the IGMP groups.

Syntax:

```
list [expand = <{disabled|enabled}>]  
      [intf = <{loop|Internet|LocalNetwork}>]
```

Parameters:

expand	Expanded listing.	Optional
intf	The IP interface name.	Optional

igmp Commands

igmp proxy

Following commands are available :

<code>config</code>	: Configure the IGMP proxy.
<code>ifconfig</code>	: Configure an IGMP proxy interface.
<code>iflist</code>	: Show the configuration of an IGMP proxy interface.
<code>grouplist</code>	: Show the learned groups on an IGMP proxy interface.
<code>mbslist</code>	: Show the IGMP proxy membership database (merge of all learned groups).
<code>flush</code>	: Flush all IGMP proxy settings and learned groups

Following command groups are available :

`debug`

igmp Commands

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}>]
```

Parameters:

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 Commands

igmp proxy debug

Following commands are available :

<code>traceconfig</code>	: Modify IGMP proxy trace configuration
<code>stats</code>	: Print IGMP proxy statistics
<code>clear</code>	: Clear 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}>]
```

Parameters:

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

igmp Commands

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:

```
grouplist [expand = <{disabled|enabled}>]  
          [intf = <{LocalNetwork|Internet}>]
```

Parameters:

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

igmp Commands

igmp proxy ifconfig

Configure an IGMP proxy interface.

Syntax:

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

Parameters:

intf	The name of the IGMP proxy interface to be configured.	Required
exptrack	Enable/Disable explicit host tracking.	Optional
fastleave	Enable/Disable the immediate deletion of a group when a leave is received.	Optional
mrd	Enable/Disable sending multicast router advertisements (rfc 4286).	Optional
spoofing	Enable/Disable spoofing of IGMP packets on upstream interfaces.	Optional
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}>]
```

Parameters:

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}>]
```

Parameters:

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

ip Commands

ip

Following commands are available :

<code>ifadd</code>	: Create an IP interface.
<code>ifdelete</code>	: Delete an IP interface.
<code>ifattach</code>	: Attach an IP interface.
<code>ifdetach</code>	: Detach an IP interface.
<code>ifconfig</code>	: Modify an IP interface configuration.
<code>iflist</code>	: Display all IP interfaces.
<code>ifwait</code>	: Wait for a status change of an IP interface.
<code>ipadd</code>	: Assign an IP address to an IP interface.
<code>ipdelete</code>	: Remove an IP address from an IP interface.
<code>ipconfig</code>	: Modify an IP address configuration.
<code>iplist</code>	: Display all configured IP addresses.
<code>rtadd</code>	: Add a route to the routing table.
<code>rtconfig</code>	: Modify a route of the routing table.
<code>rtdelete</code>	: Delete a route from the routing table.
<code>rtlist</code>	: Display the routing table.
<code>arpadd</code>	: Add an entry to the ARP cache of a broadcast IP interface.
<code>arpdelete</code>	: Delete an ARP entry.
<code>arplist</code>	: Display the ARP cache.
<code>config</code>	: Display/Modify global IP stack configuration.
<code>flush</code>	: Flush all static IP parameters. Dynamic info (e.g. from PPP links) remains.

Following command groups are available :

`aip` `auto` `debug` `mcast`

ip Commands

ip aip

Following commands are available :

<code>config</code>	: Display/Modify AIP configuration.
<code>list</code>	: Display AIP session list.
<code>stats</code>	: Display AIP session/intf statistics

ip Commands

ip aip config

Display/Modify AIP configuration.

Syntax:

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

Parameters:

state	Enable/disable IP acceleration.	Optional
-------	---------------------------------	----------

ip Commands

ip aip list

Display AIP session list.

Syntax:

```
list
```

ip Commands

ip aip stats

Display AIP session/intf statistics

Syntax:

```
stats
```

ip Commands

ip arpadd

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

Syntax:

```
arpadd intf = <{LocalNetwork}>  
            ip = <ip-range>  
            [hwaddr = <hardware-address>]
```

Parameters:

intf	The IP interface name.	Required
ip	The IP address [range] of the entry to add.	Required
hwaddr	The hardware address (e.g. Ethernet MAC address) of the entry to add.	Optional

ip Commands

ip arpdelete

Delete an ARP entry.

Syntax:

```
arpdelete intf = <{LocalNetwork}>  
            ip = <ip-range>  
            [hwaddr = <hardware-address>]
```

Parameters:

intf	The IP interface name.	Required
ip	The IP address [range] of the entry to delete.	Required
hwaddr	The hardware address (e.g. Ethernet MAC address) of the entry to delete.	Optional

ip Commands

ip arplist

Display the ARP cache.

Syntax:

```
arplist
```

ip Commands

ip auto

Following commands are available :

<code>ifadd</code>	: Creates a new autoIP interface.
<code>ifdelete</code>	: Deletes an existing autoIP interface.
<code>ifattach</code>	: Select and assign a link-local address to an autoIP interface.
<code>ifdetach</code>	: Release the link-local address for the given autoIP interface.
<code>ifconfig</code>	: Configures an autoIP interface.
<code>iflist</code>	: Shows the autoIP interfaces.
<code>flush</code>	: Flushes autoIP interfaces.

Following command groups are available :

`debug`

ip Commands

ip auto debug

Following commands are available :

`traceconfig` : Modify autoIP trace configuration

ip Commands

ip auto debug traceconfig

Modify autoIP trace configuration

Syntax:

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

Parameters:

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

ip Commands

ip auto flush

Flushes autoIP interfaces.

Syntax:

```
flush
```

ip Commands

ip auto ifadd

Creates a new autoIP interface.

Syntax:

```
ifadd intf = <{LocalNetwork}>  
[addr = <ip-address>]
```

Parameters:

intf	The name of the IP interface for which a link-local address has to be allocated.	Required
addr	The preferred link-local IP address.	Optional

ip Commands

ip auto ifattach

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

Syntax:

```
ifattach intf = <>
```

Parameters:

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

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}>]
```

Parameters:

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 Commands

ip auto ifdelete

Deletes an existing autoIP interface.

Syntax:

```
ifdelete intf = <>
```

Parameters:

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

ip Commands

ip auto ifdetach

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

Syntax:

```
ifdetach intf = <>
```

Parameters:

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

ip Commands

ip auto iflist

Shows the autoIP interfaces.

Syntax:

```
iflist [intf = <>]
```

Parameters:

intf	The name of a autoIP interface.	Optional
------	---------------------------------	----------

ip Commands

ip config

Display/Modify global IP stack configuration.

Syntax:

```
config [acceleration = <{(missing)}>]
      [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}>]
      [ttl = <number{0-255}>]
```

Parameters:

acceleration		Hidden
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

ip Commands

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

ip Commands

ip debug

Following commands are available :

<code>stats</code>	: Display statistics.
<code>traceconfig</code>	: Display/Modify IP stack trace configuration.
<code>sendto</code>	: Send UDP packets.
<code>httpprobe</code>	: Send HTTP probe to measure the round trip time taken to connect and access data from a HTTP server

ip Commands

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}>]
```

Parameters:

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 = <{loop|Internet|LocalNetwork}>]
          [interval = <number{1-1000000}>]
          [listen = <{disabled|enabled}>]
          [size = <number{0-20000}>]
          [srcaddr = <ip-address>]
          [srcport = <number{1-65535}>]
```

Parameters:

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).	Optional
dstintf	The IP interface name.	Optional
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) }>]

```

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}>	Optional
path	Define the packet that will be path-traced. Options: <{none label -telnet -host -broadcast all}>	Optional

ip Commands

ip flush

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

Syntax:

```
flush
```


ip Commands

ip ifadd

Create an IP interface.

Syntax:

```
ifadd dest = <{eth_DEFAULT|eth_WAN|eth_VOIP}>  
      intf = <string>
```

Parameters:

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

ip Commands

ip ifattach

Attach an IP interface.

Syntax:

```
ifattach intf = <{}>
```

Parameters:

intf	An IP interface name.	Required
------	-----------------------	----------

ip Commands

ip ifconfig

Modify an IP interface configuration.

Syntax:

```

ifconfig      intf = <{loop|Internet|LocalNetwork}>
[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}>]

```

Parameters:

intf	An IP interface name.	Required
arpcachetimeout	Set the ARP cache timeout to be used for this interface (0 = 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 Commands

ip ifdelete

Delete an IP interface.

Syntax:

```
ifdelete intf = <{LocalNetwork}>
```

Parameters:

intf	An IP interface name.	Required
------	-----------------------	----------

ip Commands

ip ifdetach

Detach an IP interface.

Syntax:

```
ifdetach intf = <{loop|LocalNetwork}>
```

Parameters:

intf	An IP interface name.	Required
------	-----------------------	----------

ip Commands

ip iflist

Display all IP interfaces.

Syntax:

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

Parameters:

expand	Expanded listing.	Optional
legend	Expanded Legend listing.	Optional

ip Commands

ip ifwait

Wait for a status change of an IP interface.

Syntax:

```
ifwait intf = <{loop|Internet|LocalNetwork}>
[adminstatus = <{down|up}>]
[linkstatus = <{down|up}>]
[operstatus = <{down|up}>]
[timeout = <number{1-600000}>]
```

Parameters:

intf	An IP interface name.	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 Commands

ip ipadd

Assign an IP address to an IP interface.

Syntax:

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

Parameters:

addr	The new IP address to add.	Required
intf	The IP interface name.	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 Commands

ip ipconfig

Modify an IP address configuration.

Syntax:

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

Parameters:

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 Commands

ip ipdelete

Remove an IP address from an IP interface.

Syntax:

```
ipdelete addr = <ip-address>
```

Parameters:

addr	The IP address to delete.	Required
------	---------------------------	----------

ip Commands

ip iplist

Display all configured IP addresses.

Syntax:

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

Parameters:

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

ip mcast

Following commands are available :

- `rtadd` : 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 = <{loop|Internet|LocalNetwork}>
      grp = <ip-address>
      srcintf = <{loop|Internet|LocalNetwork}>
      [src = <ip-address>]
      [ttl = <number{1-255}>]
      [ttlincr = <{disabled|enabled}>]
```

Parameters:

dstintf	The destination IP interface.	Required
grp	The multicast group IP address.	Required
srcintf	The source IP interface.	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:

```
rtdelete dstintf = <{loop|Internet|LocalNetwork}>  
          grp = <ip-address>  
          srcintf = <{loop|Internet|LocalNetwork}>  
          [src = <ip-address>]
```

Parameters:

dstintf	The destination IP interface.	Required
grp	The multicast group IP address.	Required
srcintf	The source IP interface.	Required
src	The source IP address.	Optional

ip mcast rtlist

Display the multicast routing table.

Syntax:

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

Parameters:

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

ip Commands

ip rtadd

Add a route to the routing table.

Syntax:

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

Parameters:

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.	Optional
label	The name of a label. Options: <{None DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	Optional
metric	The metric for this route (weight factor).	Optional
srcintf	Use this interface for source address selection.	Optional
static	Route persistency: static or dynamic (note that not all routes can be changed).	Optional
status	The administrative state of the route.	Optional
type		Hidden

ip Commands

ip rtconfig

Modify a route of the routing table.

Syntax:

```

rtconfig dst = <ip-address>
            [dstmsk = <ip-mask(dotted or cidr)>]
            [gateway = <ip-address>]
            [intf = <{loop|Internet|LocalNetwork}>]
            [label = <{(see Parameters)}>]
            [metric = <number{0-255}>]
            [srcintf = <{loop|Internet|LocalNetwork|None}>]
            [static = <{disabled|enabled}>]
            [status = <{down|up}>]

```

Parameters:

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.	Optional
label	The name of a label. Options: <{None DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	Optional
metric	The metric for this route (weight factor).	Optional
srcintf	Use this interface for source address selection.	Optional
static	Route persistency: static or dynamic (note that not all routes can be changed).	Optional
status	The administrative state of the route.	Optional

ip Commands

ip rtdelete

Delete a route from the routing table.

Syntax:

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

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).	Optional
label	The name of a label. Options: <{None DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	Optional

ip Commands

ip rtlist

Display the routing table.

Syntax:

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

Parameters:

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

ipqos Commands

ipqos

Following commands are available :

- `config` : Modify the IP QoS configuration for a given destination of an interface.
- `list` : Display the IP QoS configuration.

Following command groups are available :

`ef` `meter` `queue`

ipqos Commands

ipqos config

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

Syntax:

```
config          dest = <{}>
  [backgroundqueue = <{disabled|enabled}>]
    [burstsize = <number{1-64}>]
      [discard = <{tail|early}>]
        [ecnthreshold = <number{1-99}>]
          [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}>]
```

Parameters:

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 bandwidth.	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

ipqos Commands

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 weighted round robin (WRR).	Optional
weight5	The weight of queue 5 used for weighted fair queueing (WFQ) or weighted round robin (WRR).	Optional

ipqos Commands

ipqos ef

Following commands are available :

<code>config</code>	: Modify an IP QoS EF timer configuration for an interface.
<code>list</code>	: Display the IP QoS EF timers.
<code>stats</code>	: Display the IP QoS EF timer statistics.

ipqos ef config

Modify an IP QoS EF timer configuration for an interface.

Syntax:

```
config intf = <{loop|Internet|LocalNetwork}>
    [mtu = <number{68-65535}>]
    [state = <{disabled|enabled}>]
    [timeout = <number{100-10000}>]
```

Parameters:

intf	The IP interface name.	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 Commands

ipqos ef stats

Display the IP QoS EF timer statistics.

Syntax:

```
stats
```

ipqos Commands

ipqos list

Display the IP QoS configuration.

Syntax:

```
list
```

ipqos Commands

ipqos meter

Following commands are available :

<code>add</code>	: Add an IP QoS meter.
<code>config</code>	: Modify an IP QoS meter configuration.
<code>delete</code>	: Delete an IP QoS meter.
<code>list</code>	: Display the IP QoS meters.
<code>start</code>	: Start an IP QoS meter.
<code>stop</code>	: Stop an IP QoS meter.
<code>flush</code>	: Flush all IP QoS meters.
<code>stats</code>	: Display the IP QoS meter statistics.
<code>clear</code>	: Clear the IP QoS meter statistics.

ipqos meter add

Add an IP QoS meter.

Syntax:

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

Parameters:

name	The name of the IP QoS meter.	Required
------	-------------------------------	----------

ipqos Commands

ipqos meter clear

Clear the IP QoS meter statistics.

Syntax:

```
clear
```

ipqos Commands

ipqos meter config

Modify an IP QoS meter configuration.

Syntax:

```
config      name = <{ }>
            [burst = <number{0-64}>]
            [class = <number{0-15}>]
[classification = <{ (see Parameters) }>]
            [dropaction = <{count|drop}>]
            [droprate = <number{0-102400}>]
            [dscp = <{ (see Parameters) }>]
            [intf = <{loop|Internet|LocalNetwork}>]
            [label = <{ (see Parameters) }>]
            [markaction = <{count|mark}>]
            [markrate = <number{0-102400}>]
            [precedence = <{ (see Parameters) }>]
            [tos = <number{0-255}>]
            [tosmarking = <{disabled|enabled}>]
```

Parameters:

name	The name of the IP QoS meter.	Required
burst	The burst size in kilo bytes (KB).	Optional
class	The class or offset used for classification.	Optional
classification	The type of classification for marked packets. Options: <{decrease overwrite ignore offset}>	Optional
dropaction	The drop action.	Optional
droprate	The drop rate in kilo bits per second (Kbps).	Optional
dscp	The diffserv code point (part of tos, used for tos-marking). 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
intf	The name of the interface.	Optional
label	The name of the label. Options: <{DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	Optional
markaction	The mark action.	Optional
markrate	The mark rate in kilo bits per second (Kbps).	Optional
precedence	The precedence (part of tos, used for tos-marking). Options: <{routine priority immediate flash flash-	Optional

ipqos Commands

	override CRITIC-ECP internetwork-control network-control} or number>	
tos	The type of service used for tos marking.	Optional
tosmarking	Enable tos marking for marked packets.	Optional

ipqos meter delete

Delete an IP QoS meter.

Syntax:

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

Parameters:

name	The name of the IP QoS meter.	Required
------	-------------------------------	----------

ipqos meter flush

Flush all IP QoS meters.

Syntax:

```
flush
```

ipqos meter list

Display the IP QoS meters.

Syntax:

```
list
```

ipqos meter start

Start an IP QoS meter.

Syntax:

```
start name = <{}>
```

Parameters:

name	The name of the stopped IP QoS meter.	Required
------	---------------------------------------	----------

ipqos meter stats

Display the IP QoS meter statistics.

Syntax:

```
stats
```

ipqos meter stop

Stop an IP QoS meter.

Syntax:

```
stop name = <{}>
```

Parameters:

name	The name of the started IP QoS meter.	Required
------	---------------------------------------	----------

ipqos Commands

ipqos queue

Following commands are available :

<code>config</code>	: Modify the IP QoS subqueue configuration.
<code>list</code>	: Display the IP QoS subqueue configuration.
<code>stats</code>	: Display the IP QoS subqueue statistics.
<code>clear</code>	: Clear the IP QoS statistics.

ipqos queue clear

Clear the IP QoS statistics.

Syntax:

```
clear
```

ipqos queue config

Modify the IP QoS subqueue configuration.

Syntax:

```

config    dest = <{}>
          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 = <number{0-256}>]
[respackets = <number{0-500}>]

```

Parameters:

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

ipqos Commands

maxrate	The percentage of the bandwidth.	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 = <{}>]
```

Parameters:

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

ipqos queue stats

Display the IP QoS subqueue statistics.

Syntax:

```
stats [dest = <{}>]
```

Parameters:

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

koa Commands

koa

Following commands are available :

[a](#) : Add atomic object key information

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

koa a

Add atomic object key information

Syntax:

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

Parameters:

d	Data blob	Required
l	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 a

Add igd object key information

Syntax:

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

Parameters:

d	Data blob	Required
l	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 a

Add atomic type key information

Syntax:

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

Parameters:

d	Data blob	Required
l	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}>]
```

Parameters:

d	Data blob	Required
l	Last line in koi list	Optional

label Commands

label

Following commands are available :

<code>add</code>	: Add a label.
<code>modify</code>	: Modify a label configuration.
<code>delete</code>	: Delete a label.
<code>list</code>	: Display the labels.
<code>flush</code>	: Flush all label.

Following command groups are available :

<code>chain</code>	<code>rule</code>
--------------------	-------------------

label Commands

label add

Add a label.

Syntax:

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

Parameters:

name	The name of a label to add.	Required
------	-----------------------------	----------

label Commands

label chain

Following commands are available :

<code>add</code>	: Add a chain.
<code>delete</code>	: Delete a chain.
<code>list</code>	: Display a list of chains.
<code>flush</code>	: Flush all chains.
<code>modify</code>	: Modify a chain. (command is hidden)

label Commands

label chain add

Add a chain.

Syntax:

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

Parameters:

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

label Commands

label chain delete

Delete a chain.

Syntax:

```
delete chain = <chain name>
```

Parameters:

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

label Commands

label chain flush

Flush all chains.

Syntax:

```
flush
```

label Commands

label chain list

Display a list of chains.

Syntax:

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

Parameters:

format	The format of the chain list.	Optional
--------	-------------------------------	----------

label Commands

label chain modify

Modify a chain. (command is hidden)

Syntax:

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

Parameters:

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

label Commands

label delete

Delete a label.

Syntax:

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

Parameters:

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

label Commands

label flush

Flush all label.

Syntax:

```
flush
```

label Commands

label list

Display the labels.

Syntax:

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

Parameters:

name	The name of a label. Options: <{DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	Optional
------	--	----------

label Commands

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}>]
```

Parameters:

name	The name of a label to modify. Options: <{DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	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 tos-marking). 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

label Commands

tosmarking	Enable/disable TOS marking.	Optional
trace	Enable/disable IP tracing for this label.	Optional

label Commands

label rule

Following commands are available :

<code>add</code>	: Add a rule.
<code>delete</code>	: Delete a rule.
<code>modify</code>	: Modify a rule.
<code>list</code>	: Display a list of rules.
<code>flush</code>	: Flush all rules.

Following command groups are available :

`debug`

label Commands

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 [!] = <{ (see Parameters) }>]
    [srcip [!]  = <{ (see Parameters) }>]
    [srcmac     = <{ (missing) }>]
    [state      = <{disabled|enabled}>]
```

Parameters:

chain	The name of the chain which contains the rule.	Required
label	None, link (when clink is used) or label name. Options: <{None link DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	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: <{contentsharing_ip private ssdp_ip mdap_ip 192.168.1.253}>	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

label Commands

serv	The name of the service expression. (Can optionally use “!=”) Options: <{ftp icmp igmp 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 VoIP-Inc-SIP-UDP VoIP-Inc-SIP-TCP VoIP-Inc-RTP}>	Optional
srcintf	The name of the source interface expression. (Can optionally use “!=”) Options: <{wan lan local tunnel dmz guest voice_if}>	Optional
srcip	The name of the source ip expression. (Can optionally use “!=”) Options: <{contentsharing_ip private ssdp_ip mdap_ip 192.168.1.253}>	Optional
srcmac		Hidden
state	Disable/Enable this rule.	Optional

label Commands

label rule debug

Following commands are available :

<code>traceconfig</code>	: Display/Modify rule trace configuration.
<code>stats</code>	: Display rule statistics.
<code>clear</code>	: Clear rule statistics.

label Commands

label rule debug clear

Clear rule statistics.

Syntax:

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

Parameters:

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>]
```

Parameters:

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

label Commands

label rule debug traceconfig

Display/Modify rule trace configuration.

Syntax:

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

Parameters:

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

label Commands

label rule delete

Delete a rule.

Syntax:

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

Parameters:

chain	The name of the chain in which to delete the rule.	Required
index	The number of the rule in the chain.	Required

label Commands

label rule flush

Flush all rules.

Syntax:

```
flush [chain = <chain name>]
```

Parameters:

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

label Commands

label rule list

Display a list of rules.

Syntax:

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

Parameters:

chain	The name of the chain to list the rules of.	Optional
format	The format of the rule list.	Optional

label Commands

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}>]

```

Parameters:

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 DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	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

label Commands

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 Commands

language

Following commands are available :

<code>config</code>	: Select a language.
<code>list</code>	: List available languages archives.
<code>delete</code>	: Delete one or all language archives.
<code>exclude</code>	: Exclude a file from translation (command is hidden)
<code>flush</code>	: Flush list of files excluded from translation (command is hidden)
<code>langdef</code>	: Setting language definition context (command is hidden)
<code>t</code>	: Add a translation record. (command is hidden)

language config

Select a language.

Syntax:

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

Parameters:

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

language Commands

language delete

Delete one or all language archives.

Syntax:

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

Parameters:

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 langdef

Setting language definition context (command is hidden)

Syntax:

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

Parameters:

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

language list

List available languages archives.

Syntax:

```
list
```

language t

Add a translation record. (command is hidden)

Syntax:

```
t r = <quoted string>
```

Parameters:

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

led Commands

led

Following command groups are available :

`devicecheck`

led Commands

led devicecheck

Following commands are available :

<code>config</code>	:	Config the device checker
<code>add</code>	:	Add a device check MAC range
<code>delete</code>	:	Delete a device check MAC range
<code>list</code>	:	List all device check MAC ranges

led Commands

led devicecheck add

Add a device check MAC range

Syntax:

```
add mac = <masked-hardware-address>
```

Parameters:

mac	MAC address range	Required
-----	-------------------	----------

led devicecheck config

Config the device checker

Syntax:

```
config [flashing = <{enabled|disabled}>]  
      [physintf = <{(see Parameters)}>]  
      [state = <{disabled|enabled}>]  
      [vlan = <{default|WAN|VOIP}>]
```

Parameters:

flashing	Enable or disable the IPTV LED flashing	Optional
physintf	The monitored port Options: <{ethif1 ethif2 ethif3 ethif4 ethif5}>	Optional
state	Enable or disable device checker	Optional
vlan	VLAN name	Optional

led devicecheck delete

Delete a device check MAC range

Syntax:

```
delete mac = <masked-hardware-address>
```

Parameters:

mac	MAC address range	Required
-----	-------------------	----------

led devicecheck list

List all device check MAC ranges

Syntax:

```
list
```

mbus Commands

mbus

Following commands are available :

<code>listenums</code>	: Display the registered enumtypes
<code>listtypes</code>	: Display the registered objecttypes
<code>listobjects</code>	: Display the object instances
<code>listcontexts</code>	: Display the context instances
<code>listsubscriptions</code>	: Display the subscription instances
<code>pluginevent</code>	: Simulate event from plugin
<code>unregister</code>	: Unregister a client/plugin context
<code>xmldump</code>	: Dump the registered datamodel to an XML file

Following command groups are available :

<code>client</code>	<code>debug</code>
---------------------	--------------------

mbus Commands

mbus client

Following commands are available :

<code>register</code>	: Register cli client to mbus
<code>unregister</code>	: Unregister cli client from mbus
<code>config</code>	: Modify client parameters
<code>exec</code>	: Execute mbus command
<code>authenticate</code>	: Authenticate a session
<code>termsession</code>	: Terminate a session

mbus client authenticate

Authenticate a session

Syntax:

```
authenticate type = <{(see Parameters)}>
                [addr = <ip-address>]
                [password = <password>]
                [username = <quoted string>]
```

Parameters:

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

mbus client config

Modify client parameters

Syntax:

```
config      [id = <number>]
            [path = <quoted string>]
            [type = <{indexpath|keystspath}>]
            [wlgettimeout = <number>]
            [wlidletimeout = <number>]
            [writelock = <{enabled|disabled}>]
```

Parameters:

id	sessionid to use	Optional
path	Fully qualified mbus path	Optional
type	Path type (default = indexpath)	Optional
wlgettimeout	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 Commands

mbus client exec

Execute mbus command

Syntax:

```

exec          cmd = <{(see Parameters)}>
[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>]

```

Parameters:

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

mbus Commands

	parameter name. The right operand is a parameter value. For boolean operators the operands are filters. Example: '(== Name etho)'.	
flags	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
gettype	Get type elements (default=param)	Optional
modifier	Accessrights modifier Options: <{add delete allow_only allow_except}>	Optional
no_output	Discard the output of the command (default=disabled)	Optional
onerrorrollback	on error rollback flag (default=enabled)	Optional
param	Parameter name	Optional
path	Fully qualified mbus path	Optional
processcmd	Process SET_VALUE command flag (default=enabled)	Optional
replytype	Type of accessrights reply Options: <{getallowed getdisallowed getasconfigured}>	Optional
timing	Print duration of command invocation (default=disabled)	Optional
usecallback	Use result callback function (default=enabled)	Optional
value	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|keystspath}>]
```

Parameters:

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

Syntax:

```
termsession id = <number>
```

Parameters:

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

mbus client unregister

Unregister cli client from mbus

Syntax:

```
unregister
```

mbus Commands

mbus debug

Following commands are available :

<code>stats</code>	: Display mbus statistics.
<code>clearstats</code>	: Reset mbus statistics.
<code>traceconfig</code>	: Modify mbus trace settings.
<code>loadobjects</code>	: Load/sync object instances from plugins
<code>unloadobjects</code>	: Unload object instances
<code>commconfig</code>	: Modify communication settings.

mbus debug clearstats

Reset mbus statistics.

Syntax:

```
clearstats
```

mbus debug commconfig

Modify communication settings.

Syntax:

```
commconfig [pong-to = <number>]
```

Parameters:

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

mbus debug loadobjects

Load/sync object instances from plugins

Syntax:

```
loadobjects [dmtree = <{igd|atomic|system}>]  
            [eventing = <{(missing)}>]  
            [flush = <{disabled|enabled}>]  
            [notifyplugin = <{(missing)}>]  
            [path = <quoted string>]  
            [type = <{indexpath|keystrepath}>]
```

Parameters:

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.

Syntax:

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

Parameters:

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

mbus debug unloadobjects

Unload object instances

Syntax:

```
unloadobjects [dmtree = <{igd|atomic|system}>]
               [eventing = <{(missing)}>]
               [flush = <{disabled|enabled}>]
               [notifyplugin = <{(missing)}>]
               [path = <quoted string>]
               [type = <{indexpath|keystpath}>]
```

Parameters:

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:

```
listcontexts [dmtree = <{igd|atomic|system}>]  
              [expand = <{disabled|enabled}>]
```

Parameters:

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

mbus listenums

Display the registered enumtypes

Syntax:

```
listenums [dmtree = <{igd|atomic|system}>]  
          [expand = <{disabled|enabled}>]  
          [name = <quoted string>]
```

Parameters:

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:

```
listobjects [dmtree = <{igd|atomic|system}>]
            [output = <{tree|list}>]
            [path = <quoted string>]
            [showflags = <{disabled|enabled}>]
            [type = <{indexpath|keystripath}>]
```

Parameters:

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}>]
```

Parameters:

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

mbus listtypes

Display the registered objecttypes

Syntax:

```
listtypes [dmtree = <{igd|atomic|system}>]  
          [expand = <{disabled|enabled}>]  
          [path = <quoted string>]
```

Parameters:

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:

```
pluginevent ctxid = <number>
                path = <quoted string>
                type = <{addobj|delobj|updobj}>
                [flags = <{(see Parameters)}>]
                [name = <quoted string>]
                [orivalue = <quoted string>]
                [value = <quoted string>]
```

Parameters:

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

Syntax:

```
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}>]
```

Parameters:

filename	Filename.	Required
format	Select output file format.	Optional

memm Commands

memm

Following commands are available :

`stats` : Display memm statistics.
`listobjects` : Display objects.

Following command groups are available :

`debug`

memm Commands

memm debug

Following commands are available :

<code>stats</code>	: Display memm time statistics.
<code>clearstats</code>	: Clear time statistics.
<code>traceconfig</code>	: Modify memm trace settings.
<code>tag</code>	: (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 :

<code>stats</code>	: Display lock statistics.
<code>traceconfig</code>	: Modify lock trace settings.

memm debug lock stats

Display lock statistics.

Syntax:

```
stats
```

memm debug lock traceconfig

Modify lock trace settings.

Syntax:

```
traceconfig [level = <number{0-4}>]
            [name = <quoted string>]
            [showtid = <{no|yes}>]
```

Parameters:

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.

Syntax:

```
stats [name = <quoted string>]
```

Parameters:

name	Select typename(s) to list (supports partial typename)	Optional
------	--	----------

memm debug tag

(Un)tag memory manager objects.

Syntax:

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

Parameters:

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:

```
listobjects [hidedeldynstr = <{no|yes}>]  
            [name = <quoted string>]  
            [tagged = <{no|yes}>]
```

Parameters:

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>]
```

Parameters:

name	Select typename(s) to list (supports partial typename)	Optional
------	--	----------

mlp Commands

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 Commands

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 Commands

mlp debug stats

Display mlp statistics.

Syntax:

```
stats
```

mlp debug traceconfig

Modify mlp trace settings.

Syntax:

```
traceconfig [trace = <{disabled|enabled|full}>]
```

Parameters:

trace	Select mlp trace level.	Optional
-------	-------------------------	----------

mlp Commands

mlp flush

Flush all mlp structures.

Syntax:

```
flush
```

mlp import

Import all scores.

Syntax:

```
import [allow_dl = <{no|yes}>]  
      [trace = <{disabled|enabled|full}>]
```

Parameters:

allow_dl	Enable/disable support for /dl/ folder	Optional
trace	Select import trace level.	Optional

mlp interaction

Following commands are available :

<code>list</code>	: Display the interactions.
<code>config</code>	: Display/Modify the interaction score.
<code>addzone</code>	: Add the zone to the interaction score.
<code>removezone</code>	: 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}>]
```

Parameters:

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 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}>]
```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

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 :

<code>add</code>	: Add a privilege.
<code>delete</code>	: Delete a privilege.
<code>addzone</code>	: Add a zone to a privilege.
<code>removezone</code>	: Remove a zone from a privilege.
<code>list</code>	: Display the privileges.
<code>config</code>	: Modify the privilege.

mlp privilege add

Add a privilege.

Syntax:

```
add name = <string>  
      type = <{access|service}>  
      [descr = <quoted string>]
```

Parameters:

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)}>
```

Parameters:

name	Privilege name.	Required
zone	<p>Zone name.</p> <p>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}></p>	Required

mlp privilege config

Modify the privilege.

Syntax:

```
config name = <>
    [descr = <quoted string>]
    [score = <{(see Parameters)}>]
```

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.

Syntax:

```
delete name = <>
```

Parameters:

name	Privilege name.	Required
------	-----------------	----------

mlp privilege list

Display the privileges.

Syntax:

```
list [name = <>]  
      [type = <{access|service}>]  
      [verbose = <{minimal|medium|all}>]
```

Parameters:

name	Privilege name.	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) }>
```

Parameters:

name	Privilege name.	Required
zone	<p>Zone name.</p> <p>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}></p>	Required

mlp role

Following commands are available :

<code>add</code>	: Add a role.
<code>delete</code>	: Delete a role.
<code>addpriv</code>	: Add a privilege.
<code>removepriv</code>	: Remove a privilege.
<code>list</code>	: Display the roles.
<code>config</code>	: Modify the role.

mlp role add

Add a role.

Syntax:

```
add name = <string>  
    parent = <>  
    [descr = <quoted string>]
```

Parameters:

name	Role name.	Required
parent	Parent role name.	Required
descr	Role description.	Optional

mlp role addpriv

Add a privilege.

Syntax:

```
addpriv access = <{(see Parameters)}>  
              name = <{(see Parameters)}>  
              service = <{(see Parameters)}>
```

Parameters:

access	Access privilege to add. Options: <{anyaccess AP1 AP2 AP3 AP4 AP5 AP6 AP7 AP8 AP9}>	Required
name	Role name. Options: <{Administrator LAN_Admin PowerUser root SuperUser TechnicalSupport User WAN_Admin WebsevUser}>	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 = <>]
```

Parameters:

name	Role name.	Required
descr	Role description.	Optional
parent	Parent role name.	Optional

mlp role delete

Delete a role.

Syntax:

```
delete name = <>
```

Parameters:

name	Role name.	Required
------	------------	----------

mlp role list

Display the roles.

Syntax:

```
list [name = <>]  
    [verbose = <{minimal|medium|all}>]
```

Parameters:

name	Role name.	Optional
verbose	Limit the output list.	Optional

mlp role removepriv

Remove a privilege.

Syntax:

```
removepriv access = <>  
              name = <>  
              [service = <>]
```

Parameters:

access	Access privilege to delete.	Required
name	Role name.	Required
service	Privilege name to delete.	Optional

mlp zone

Following commands are available :

<code>add</code>	: Add a zone.
<code>delete</code>	: Delete a zone.
<code>list</code>	: Display zones.
<code>config</code>	: Modify a zone.
<code>configintfgroup</code>	: Modify interfacegroup zone numbers.
<code>configchannels</code>	: Modify channel zone numbers.
<code>configorigin</code>	: Modify origin zone numbers.
<code>configseconn</code>	: Modify secure connection zone number.
<code>configsecfile</code>	: Modify secure files zone number.
<code>configtrace</code>	: 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>]
```

Parameters:

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>]
```

Parameters:

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>]
```

Parameters:

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:

```
configintfgroup [lan = <number>]
                  [local = <number>]
                  [rw = <{read|write}>]
                  [target = <number>]
                  [wan = <number>]
```

Parameters:

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>]
```

Parameters:

lan	Lan origin zone number	Optional
local	Local origin zone number	Optional
wan	Wan origin zone number	Optional

mlp zone configseconn

Modify secure connection zone number.

Syntax:

```
configseconn [zonenr = <number>]
```

Parameters:

zonenr	Secure connection zone number	Optional
--------	-------------------------------	----------

mlp zone configsecfile

Modify secure files zone number.

Syntax:

```
configsecfile [zonenr = <number>]
```

Parameters:

zonenr	Secure files zone number	Optional
--------	--------------------------	----------

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 = <>
```

Parameters:

name	Zone name	Required
------	-----------	----------

mlp zone list

Display zones.

Syntax:

```
list
```

mobile

Following commands are available :

<code>ifadd</code>	: Create a new Mobile interface.
<code>ifdelete</code>	: Delete an Mobile interface.
<code>ifconfig</code>	: Configure an Mobile interface.
<code>ifattach</code>	: Attach an Mobile interface.
<code>ifdetach</code>	: Detach an Mobile interface.
<code>iflist</code>	: Display the Mobile interfaces.
<code>simcard</code>	: Get a state of the SIM card.

Following command groups are available :

<code>debug</code>	<code>device</code>
--------------------	---------------------

mobile debug

Following commands are available :

<code>operator</code>	: Shows the currently selected operator.
<code>showsq</code>	: Shows signal quality (RSSI & BER).
<code>sendat</code>	: Send AT command to the modem card.
<code>traceconfig</code>	: Modify trace configuration

mobile debug operator

Shows the currently selected operator.

Syntax:

```
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 string>
```

Parameters:

command	AT command	Required
---------	------------	----------

mobile debug showsq

Shows signal quality (RSSI & BER).

Syntax:

```
showsq
```

mobile debug traceconfig

Modify trace configuration

Syntax:

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

Parameters:

state	Enable/disable tracing.	Optional
-------	-------------------------	----------

mobile device

Following commands are available :

<code>list</code>	: List mobile devices
<code>add</code>	: Add a mobile device (command is hidden)
<code>delete</code>	: Delete a mobile device (command is hidden)

mobile device add

Add a mobile device (command is hidden)

Syntax:

```

add  atinterface = <{(see Parameters)}>
      datainterface = <{(see Parameters)}>
          modempid = <string>
          modemvid = <string>
              name = <quoted string>
          [forceusb11 = <{yes|no}>]
      [modeswitchparam = <quoted string>]
          [storagepid = <string>]
          [storagevid = <string>]

```

Parameters:

atinterface	AT Port USB Interface Options: <{auto 0 1 2 3 4 5 6 7 8 9 operator Shows the currentlyselected operator. <#}>	Required
datainterface	DATA Port USB Interface Options: <{auto 0 1 2 3 4 5 6 7 8 9 operator Shows the currentlyselected operator. <#}>	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)

Syntax:

```
delete name = <quoted string>
```

Parameters:

name	Name	Required
------	------	----------

mobile device list

List mobile devices

Syntax:

```
list
```

mobile ifadd

Create a new Mobile interface.

Syntax:

```
ifadd intf = <string>
```

Parameters:

intf	The name of the new mobile interface	Required
------	--------------------------------------	----------

mobile ifattach

Attach an Mobile interface.

Syntax:

```
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}>]
```

Parameters:

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 identifier + network code.	Optional
pin	PIN code.	Optional
puk	PUK code.	Optional
technology	Radio access technology (2G, 3G).	Optional

mobile ifdelete

Delete an Mobile interface.

Syntax:

```
ifdelete intf = <>
```

Parameters:

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

mobile ifdetach

Detach an Mobile interface.

Syntax:

```
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 Commands

nat

Following commands are available :

<code>ifconfig</code>	: Modify address translation on an IP interface.
<code>iflist</code>	: Display all interfaces.
<code>mapadd</code>	: Add an address mapping to a nat enabled interface.
<code>mapdelete</code>	: Delete an address mapping from a nat enabled interface.
<code>maplist</code>	: Display address mappings.
<code>tmpladd</code>	: Add an address mapping template.
<code>tmpldelete</code>	: Delete an address mapping template.
<code>tmplist</code>	: Display address mapping templates.
<code>tmplinst</code>	: Instantiate address mapping templates for a given dynamic address.
<code>config</code>	: Modify global NAT configuration.
<code>flush</code>	: Flush current NAT configuration.

nat Commands

nat config

Modify global NAT configuration.

Syntax:

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

Parameters:

randomports	Enable/disable randomization of port translations.	Optional
trace	Enable/disable traces.	Optional

nat Commands

nat flush

Flush current NAT configuration.

Syntax:

```
flush
```


nat Commands

nat ifconfig

Modify address translation on an IP interface.

Syntax:

```
ifconfig intf = <{loop|Internet|LocalNetwork}>  
translation = <{disabled|enabled|transparent}>
```

Parameters:

intf	The IP interface name.	Required
translation	Disabled, enabled or transparent address translation.	Required

nat Commands

nat iflist

Display all interfaces.

Syntax:

```
iflist
```

nat Commands

nat mapadd

Add an address mapping to a nat enabled interface.

Syntax:

```
mapadd    intf = <{loop|Internet|LocalNetwork}>
  [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>]
    [protocol = <{ (see Parameters) }>]
      [status = <{up|down}>]
      [type = <{napt|nat}>]
      [weight = <number{0-255}>]
```

Parameters:

intf	The IP interface name.	Required
access_list	The range of inside addresses the mapping is restricted to.	Optional
foreign_addr	The range of destination addresses the mapping is restricted to.	Optional
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	The outside (typically public) IP address (range for NAT).	Optional
outside_port	The outside port number or range (only for NAPT).	Optional
protocol	The IP protocol. Options: <{ah esp 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 Commands

nat mapdelete

Delete an address mapping from a nat enabled interface.

Syntax:

```
mapdelete index = <number>  
          intf = <{loop|Internet|LocalNetwork}>
```

Parameters:

index	The map index as listed by ':nat maplist'.	Required
intf	The IP interface name.	Required

nat Commands

nat maplist

Display address mappings.

Syntax:

```
maplist [expand = <{disabled|enabled}>]  
        [intf = <{loop|Internet|LocalNetwork}>]  
        [sort_s = <{ (missing) }>]
```

Parameters:

expand	Expanded listing.	Optional
intf	The IP interface name.	Optional
sort_s		Hidden

nat Commands

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}>]
```

Parameters:

outside_addr	The outside (typically public) IP address or index (range for NAT).	Required
access_list	The range of inside addresses the template is restricted to.	Optional
foreign_addr	The range of destination addresses the template is restricted to.	Optional
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	The inside port number or range (only for NAPT).	Optional
intf	The IP interface name scope for this template. Options: <{loop Internet LocalNetwork}>	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 esp gre hmp icmp igmp pup rdp rsvp tcp udp vines xns-idp 6to4 ipip}>	Optional

nat Commands

	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.

Syntax:

```
tmpldelete index = <number>
```

Parameters:

index	The template index as listed by 'nat tmplist'.	Required
-------	--	----------

nat Commands

nat tmplinst

Instantiate address mapping templates for a given dynamic address.

Syntax:

```
tmplinst addr_index = <ip-address>  
        dynamic_addr = <ip-address>  
        intf = <{loop|Internet|LocalNetwork}>
```

Parameters:

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.	Required

nat Commands

nat tmplist

Display address mapping templates.

Syntax:

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

Parameters:

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

ppp Commands

ppp

Following commands are available :

<code>ifadd</code>	: Create a new PPP interface.
<code>ifdelete</code>	: Delete a PPP interface.
<code>ifattach</code>	: Attach a PPP interface.
<code>ifscan</code>	: Scan a PPP interface for available interfaces.
<code>ifdetach</code>	: Detach a PPP interface.
<code>ifconfig</code>	: Modify a PPP interface.
<code>iflist</code>	: Display the PPP interfaces.
<code>rtadd</code>	: Add a route to the routing table when PPP link comes up.
<code>rtdelete</code>	: Delete the route for a PPP link.
<code>flush</code>	: Flush all PPP interfaces.
<code>simlock</code>	: Show allowed list (command is hidden)

Following command groups are available :

`relay`

ppp Commands

ppp flush

Flush all PPP interfaces.

Syntax:

```
flush
```

ppp Commands

ppp ifadd

Create a new PPP interface.

Syntax:

```
ifadd intf = <string>
```

Parameters:

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

ppp Commands

ppp ifattach

Attach a PPP interface.

Syntax:

```
ifattach intf = <{}>
```

Parameters:

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

ppp Commands

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 = <{RELAY|eth_DEFAULT|eth_VOIP}>]
    [dnsmetric = <number{0-100}>]
    [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>]

```

Parameters:

intf	The name of the PPP interface to configure.	Required
accomp	Try to negotiate PPP address & control field	Optional

ppp Commands

	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.	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
secdns	Negotiate this IP address as secondary DNS server.	Optional
servicename	The service name for a PPP session.	Optional

ppp Commands

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 Commands

ppp ifdelete

Delete a PPP interface.

Syntax:

```
ifdelete intf = <{Internet}>
```

Parameters:

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

ppp ifdetach

Detach a PPP interface.

Syntax:

```
ifdetach intf = <{Internet}>
```

Parameters:

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

ppp iflist

Display the PPP interfaces.

Syntax:

```
iflist [intf = <{Internet}>]
```

Parameters:

intf	The name of a PPP interface.	Optional
------	------------------------------	----------

ppp ifscan

Scan a PPP interface for available interfaces.

Syntax:

```
ifscan intf = <{Internet}>  
[time = <number{0-36000}>]
```

Parameters:

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 :

<code>ifadd</code>	: Add an ethernet interface to the PPP relay list.
<code>ifdelete</code>	: Delete an ethernet interface from the PPP relay agent list.
<code>ifconfig</code>	: Modify an ethernet interface from the PPP relay agent list.
<code>iflist</code>	: Display all ethernet interfaces added to the PPP relay agent list.
<code>sesslist</code>	: Display all active PPP relay sessions.
<code>flush</code>	: 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 = <{eth_DEFAULT|eth_VOIP}>
```

Parameters:

intf	The ethernet intf to be added to the PPP relay agent list.	Required
------	--	----------

ppp relay ifconfig

Modify an ethernet interface from the PPP relay agent list.

Syntax:

```
ifconfig hwaddr = <hardware-address>  
          intf = <{bridge|eth_WAN}>
```

Parameters:

hwaddr	The hardware address (e.g. Ethernet MAC address) of this interface.	Required
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 = <{bridge|eth_WAN}>
```

Parameters:

intf	The ethernet intf to be added to the PPP relay agent list.	Required
------	--	----------

ppp relay iflist

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

Syntax:

```
iflist
```

ppp relay sesslist

Display all active PPP relay sessions.

Syntax:

```
sesslist
```

ppp Commands

ppp rtadd

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

Syntax:

```
rtadd dst = <ip-address>
      intf = <{Internet}>
      [dstmsk = <ip-mask(dotted or cidr)>]
      [label = <{(see Parameters)}>]
      [metric = <number{0-100}>]
      [src = <ip-address>]
      [srcmsk = <ip-mask(dotted or cidr)>]
```

Parameters:

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 DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP-Signal default voice-only}>	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 = <{Internet}>
```

Parameters:

intf	The PPP interface name for which to delete the route settings.	Required
------	--	----------

ppp Commands

ppp simlock

Show allowed list (command is hidden)

Syntax:

```
simlock
```

pptp Commands

pptp

Following commands are available :

<code>list</code>	: Shows PPTP configuration.
<code>profadd</code>	: Defines a new PPTP profile.
<code>profdelete</code>	: Deletes a PPTP profile.
<code>proflist</code>	: Lists PPTP profiles.
<code>flush</code>	: Flushes the PPTP configuration.
<code>ifadd</code>	: Adds a PPTP profile (backwards compatible with previous release, use profiles instead).

pptp Commands

pptp flush

Flushes the PPTP configuration.

Syntax:

```
flush
```

pptp Commands

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}>]
```

Parameters:

dest	The WAN destination for this PPTP tunnel. Typically a phonebook name.	Required
ac	Enable/disable sending address and control field (0xFF03) on the WAN link.	Optional
encaps	The WAN protocol encapsulation.	Optional
rate	Transmit speed in kbits/s for the WAN link.	Optional

pptp Commands

pptp list

Shows PPTP configuration.

Syntax:

```
list
```

pptp Commands

pptp profadd

Defines a new PPTP profile.

Syntax:

```
profadd name = <string>  
            [ac = <{never|always|keep}>]  
            [encaps = <{vcmux|nlpid}>]  
            [qos = <}>]
```

Parameters:

name	The name for the new PPTP profile.	Required
ac	Enable/disable sending address and control field (0xFF03) on the WAN link.	Optional
encaps	The WAN protocol encapsulation to be used with this profile.	Optional
qos	The name of the qosbook entry, containing the settings for this profile.	Optional

pptp profdelete

Deletes a PPTP profile.

Syntax:

```
profdelete name = <>
```

Parameters:

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

pptp proflist

Lists PPTP profiles.

Syntax:

```
proflist
```

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.

Syntax:

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

Parameters:

state	Enabled/disabled LPD printer service.	Optional
-------	---------------------------------------	----------

printersharing LPD list

To display LPD service context.

Syntax:

```
list
```

printersharing Commands

printersharing **LPD** queue

Following commands are available :

<code>add</code>	: Add an option.
<code>delete</code>	: Delete an option.
<code>list</code>	: List all options.

printersharing LPD queue add

Add an option.

Syntax:

```
add name = <string>  
[default = <{no|yes}>]  
[type = <{Feed|Raw}>]
```

Parameters:

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 :

<code>add</code>	:	Add a filter/action pair (=rule)
<code>delete</code>	:	Delete a rule
<code>flush</code>	:	Flush all settings
<code>list</code>	:	List all rules
<code>modify</code>	:	Modify a rule

Following command groups are available :

<code>action</code>	<code>debug</code>	<code>filter</code>
---------------------	--------------------	---------------------

ptrace Commands

ptrace action

Following commands are available :

<code>add</code>	: Add an action
<code>delete</code>	: Delete an action
<code>list</code>	: List all actions
<code>modify</code>	: Modify an action

ptrace Commands

ptrace action add

Add an action

Syntax:

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

Parameters:

name	Action name	Required
------	-------------	----------

ptrace Commands

ptrace action delete

Delete an action

Syntax:

```
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|}>
```

Parameters:

intf	Device on which to mirror frames	Required
len	Nbr of bytes to dump	Required
name	Action name	Required
type	Action type	Required

ptrace Commands

ptrace add

Add a filter/action pair (=rule)

Syntax:

```
add action = <>
    filter = <>
    name = <string>
```

Parameters:

action	Action	Required
filter	Filter	Required
name	Rule name	Required

ptrace Commands

ptrace debug

Following commands are available :

`traceconfig` : Modify trace configuration

ptrace debug traceconfig

Modify trace configuration

Syntax:

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

Parameters:

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

ptrace Commands

ptrace delete

Delete a rule

Syntax:

```
delete name = <>
```

Parameters:

name	Rule name	Required
------	-----------	----------

ptrace Commands

ptrace filter

Following commands are available :

<code>add</code>	: Add a filter
<code>delete</code>	: Delete a filter
<code>list</code>	: List all filters
<code>modify</code>	: Modify a filter

ptrace Commands

ptrace filter add

Add a filter

Syntax:

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

Parameters:

name	Filter name	Required
------	-------------	----------

ptrace Commands

ptrace filter delete

Delete a filter

Syntax:

```
delete name = <>
```

Parameters:

name	Filter name	Required
------	-------------	----------

ptrace filter list

List all filters

Syntax:

```
list
```

ptrace Commands

ptrace filter modify

Modify a filter

Syntax:

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

Parameters:

intf	Interface on which to trace frames Options: <{bridge OBC ethport1 RELAY ethport2 ethport3 ethport4 WLAN virt eth_DEFAULT eth_WAN eth_VOIP}>	Required
name	Filter name	Required

ptrace Commands

ptrace flush

Flush all settings

Syntax:

```
flush
```

ptrace Commands

ptrace list

List all rules

Syntax:

```
list
```

ptrace Commands

ptrace modify

Modify a rule

Syntax:

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

Parameters:

name	Rule name	Required
state	Rule enable/disable	Optional

pwr Commands

pwr

Following commands are available :

`config` : Modify/Display ECO-manager configuration
`wlan-pwr-options` : Modify/Display the WLAN power control options

Following command groups are available :

`debug`

pwr config

Modify/Display ECO-manager configuration

Syntax:

```
config [cpu-lowspeed = <{disabled|enabled}>]  
      [cpu-microsleep = <{disabled|enabled}>]  
      [eco-manager = <{disabled|enabled}>]  
      [eth-phy = <{disabled|enabled}>]  
      [usb-controller = <{disabled|enabled}>]  
      [wlan-pwrcontrol = <{disabled|enabled}>]
```

Parameters:

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
eth-phy	(Enables / Disables the Ethernet Phy power control)	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:

```
wlan-pwr-options
    [fast-radio-toggle = <{(see Param)}>]
    [single-rxchain = <{(see Param)}>]
    [slow-radio-toggle = <{(see Param)}>]
    [t-ext = <{(see Param)}>]
    [t-off = <{(see Param)}>]
    [t-on = <{(see Param)}>]
```

Parameters:

fast-radio-toggle	Fast toggle of radio state Options: <{disabled enabled}>	Optional
single-rxchain	Use single rx chain Options: <{disabled enabled}>	Optional
slow-radio-toggle	Slow toggle of radio state Options: <{disabled enabled}>	Optional
t-ext	Slow toggle on-time Extension (s) Options: <number{1-600}>	Optional
t-off	Slow toggle off-time(s) Options: <number{1-600}>	Optional
t-on	Slow toggle on-time (s) Options: <number{1-600}>	Optional

script Commands

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	: Trace toggle. (command is hidden)

script Commands

script add

Add line to script.

Syntax:

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

Parameters:

command	Command.	Required
name	Name of script.	Required
index	Line number (0 = add).	Optional

script delete

Delete complete script or line from script.

Syntax:

```
delete name = <{}>  
            [index = <number>]
```

Parameters:

name	Name of script.	Required
index	Line number.	Optional

script flush

Flush scripts.

Syntax:

```
flush
```

script list

List script.

Syntax:

```
list [name = <{}>]
```

Parameters:

name	Name of script.	Optional
------	-----------------	----------

script Commands

script run

Run script.

Syntax:

```
run name = <{}>  
    pars = <quoted string>
```

Parameters:

name	Name of script.	Required
pars	Parameters separated with comma e.q. a,b,c .	Required

script Commands

script trace

Trace toggle. (command is hidden)

Syntax:

```
trace
```

service Commands

service

Following command groups are available :

host

system

service Commands

service host

Following commands are available :

<code>list</code>	: Display list of services.
<code>add</code>	: Add a service.
<code>delete</code>	: Delete a service.
<code>assign</code>	: Assign a service to a host.
<code>disable</code>	: Disable a service.
<code>stats</code>	: Service statistics.
<code>triggerlist</code>	: List all triggers.
<code>flush</code>	: Flush all services.
<code>config</code>	: Modify/Display global service configuration options. (command is hidden)

Following command groups are available :

<code>category</code>	<code>rule</code>
-----------------------	-------------------

service Commands

service host add

Add a service.

Syntax:

```
add name = <quoted string>
[category = <>]
[mode = <{server|client|custom}>]
```

Parameters:

name	The name of the service.	Required
category	The category to which the service belongs.	Optional
mode	server, client or custom service ?	Optional

service Commands

service host assign

Assign a service to a host.

Syntax:

```
assign name = <{(see Parameters)}>  
    [host = <ip-address>]  
    [log = <{disabled|enabled}>]
```

Parameters:

name	The name of the service. Options: <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike DirectX 7 DirectX 8 DirectX 9 eMule FTP Server Gamespy Arcade HTTPServer (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}>	Required
host	The IP address of the host.	Optional
log	Enable/disable logging.	Optional

service host category

Following commands are available :

<code>add</code>	: Create/define service category.
<code>delete</code>	: Delete a service category.
<code>rename</code>	: Rename a service category.
<code>list</code>	: List the available service categories.

service host category add

Create/define service category.

Syntax:

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

Parameters:

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>
```

Parameters:

name	The name of the existing category.	Required
new_name	The new name of the category.	Required

service Commands

service host config

Modify/Display global service configuration options. (command is hidden)

Syntax:

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

Parameters:

trace	Enable/disable traces.	Optional
-------	------------------------	----------

service Commands

service host delete

Delete a service.

Syntax:

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

Parameters:

name	The name of the service.	Required
	Options: <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike DirectX 7 DirectX 8 DirectX 9 eMule FTP Server Gamespy Arcade HTTPServer (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}>	

service host disable

Disable a service.

Syntax:

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

Parameters:

name	The name of the service. Options: <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike DirectX 7 DirectX 8 DirectX 9 eMule FTP Server Gamespy Arcade HTTPServer (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}>	Optional
------	--	----------

service host flush

Flush all services.

Syntax:

```
flush
```

service Commands

service host list

Display list of services.

Syntax:

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

Parameters:

name	The name of the service. Options: <{AIM Talk BearShare BitTorrent Checkpoint FW1 VPN Counter Strike DirectX 7 DirectX 8 DirectX 9 eMule FTP Server Gamespy Arcade HTTPServer (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}>	Optional
------	--	----------

service Commands

service host rule

Following commands are available :

<code>add</code>	: Create/define service portmap.
<code>delete</code>	: Delete a service portmap.

service Commands

service host rule add

Create/define service portmap.

Syntax:

```
add          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 eMule FTP Server Gamespy Arcade HTTPServer (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}>	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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp snmp sql*net sql-net sqlserv sunrpc syslog sysstat 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

service Commands

```

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|
ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|
netware-ip|new-rwho|nfs|nfsd|nicname|nntp|ntalk|
ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|
rip|rtelnet|rtsp|sip|smtp|snmp|snmptrap|snpp|
snmp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|
talk|telnet|time|timed|tftp|ulistserv|utime|uucp|
uucp-rlogin|who|www-http|whoami|xwindows}
or number>

```

triggerprotocol	Protocol of the trigger port.	Optional
-----------------	-------------------------------	----------

service Commands

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 eMule FTP Server Gamespy Arcade HTTPServer (World Wide Web) HTTPS Server iMesh KaZaA Mail Server (SMTP) Microsoft Remote Desktop MSN Game Zone MSN Game Zone (DX) NNTPServer PPTP Server Secure Shell Server (SSH) Steam Games TelnetServer VNC Xbox Live}>	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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs nfsd nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp snmp sql*net sql-net sqlserv sunrpc syslog sysstat 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

service Commands

```

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|
ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|
netbios-dgm|netbios-ns|netbios-ssn|netwall|
netware-ip|new-rwho|nfs|nfsd|nicname|nntp|ntalk|
ntp|pcmail-srv|pop2|pop3|printer|qotd|realaudio|
rip|rtp|rtsp|sip|smtp|snmp|snmptrap|snpp|
snmp|sql*net|sql-net|sqlserv|sunrpc|syslog|sysstat|
talk|telnet|time|timed|tftp|ulistserv|utime|uucp|
uucp-rlogin|who|www-http|whoami|xwindows}
or number>

```

triggerprotocol	Protocol of the trigger port.	Optional
-----------------	-------------------------------	----------

service host stats

Service statistics.

Syntax:

```
stats
```

service host triggerlist

List all triggers.

Syntax:

```
triggerlist
```

service Commands

service system

Following commands are available :

<code>list</code>	: Display services.
<code>modify</code>	: Modify a service.
<code>mapadd</code>	: Add a port map for a service.
<code>mapdelete</code>	: Delete a port map for a service.
<code>ifadd</code>	: Add an interface to the access list.
<code>ifdelete</code>	: Delete an interface from the access list.
<code>ipadd</code>	: Add an IP address (range) to the access list.
<code>ipdelete</code>	: 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 = <{loop|Internet|LocalNetwork}>]
```

Parameters:

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
group	The interface group for this access list. Options: <{wan local lan tunnel dmz guest} or number>	Optional
intf	The interface for this access list.	Optional

service system ifdelete

Delete an interface from the access list.

Syntax:

```
ifdelete name = <{ (see Parameters) }>  
            [group = <{ (see Parameters) }>]  
            [intf = <{loop|Internet|LocalNetwork}>]
```

Parameters:

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
group	The interface group for this access list. Options: <{wan local lan tunnel dmz guest} or number>	Optional
intf	The interface for this access list.	Optional

service system ipadd

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

Syntax:

```
ipadd ip = <ip-range>  
      name = <{(see Parameters)}>
```

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)}>
```

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 Commands

service system list

Display services.

Syntax:

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

Parameters:

dynamics	Display dynamic services.	Optional
expand	Expanded listing.	Optional
members	Display service 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 TFTP-C 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 UPGD-C SSDP SIP_SERVER SIP_SERVER_SIG SIP_SERVER_RTP VOIP_SIP VOIP_SIP_RTP VOIP_SIP_SIG VOIP_SIP_UDP VOIP_SIP_TCP IP_COMMANDS ICMP_PING SENDTO PING_RESPONDER ICMP_TRACEROUTE UDP_TRACEROUTE HTTPPROBE RAD_remoteacces}>	Optional

service system mapadd

Add a port map for a service.

Syntax:

```
mapadd intf = <{loop|Internet|LocalNetwork}>
        name = <{(see Parameters)}>
        port = <{(see Parameters)}>
```

Parameters:

intf	The interface for this map.	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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat 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 = <{loop|Internet|LocalNetwork}>
           name = <{(see Parameters)}>
           port = <{(see Parameters)}>
```

Parameters:

intf	The interface for this map.	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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>	Required

service Commands

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 <{loop|Internet|LocalNetwork}>]
                    [state = <{disabled|enabled}>]
```

Parameters:

name	The name of the service. Options: <{Remote-MBus PPTP PPTPD PPTPGRE SNTP SLA_ICMP_PING SLA_UDP_PING SYSLOG HTTP HTTPs web service UPnP-HTTP HTTPi WEBF TFTP-C FTP TELNET RIP RIP-Query IGMP-Proxy DNS-S DNS-C DHCP-S DHCP-R MDAP CWMP-C CWMP-S UPGD-C SSDP SIP_SERVER SIP_SERVER_SIG SIP_SERVER_RTP VOIP_SIP VOIP_SIP_RTP VOIP_SIP_SIG VOIP_SIP_UDP VOIP_SIP_TCP IP_COMMANDS PING_RESPONDER RAD_remoteaccess}>	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 ipcs server ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio	Optional

service Commands

	rip rtelnet rtsp sip smtp snmp snmptrap snpp sntp sql*net sql-net sqlserv sunrpc syslog sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>	
qoslabel	QOS label for service data. Options: <{None DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP- Signal default voice-only}>	Optional
routelabel	Route label for service data. Options: <{None DSCP Interactive Management SIPS_RTP SIPS_SIG Video VoIP-RTP VoIP- Signal default voice-only}>	Optional
srcintf	The primary IP interface for this service.	Optional
state	Disable/Enable this service.	Optional

sipserver Commands

sipserver

Following commands are available :

`config` : Configure the general parameters
`list` : Display the general parameters

Following command groups are available :

<code>b2bua</code>	<code>debug</code>	<code>dns</code>	<code>extua</code>
<code>inboundauth</code>	<code>intua</code>	<code>outbproxy</code>	<code>outbreg</code>
<code>realm</code>	<code>registrar</code>		

sipserver Commands

sipserver b2bua

Following commands are available :

<code>config</code>	: Configure B2BUA
<code>list</code>	: Display DNS configuration

sipserver b2bua config

Configure B2BUA

Syntax:

```
config [non-invite-handling = <{(see Param)}>]
```

Parameters:

non-invite-handling	mode how to deal with NON-invite Options: <{drop forward-to-first startforking}>	Optional
---------------------	---	----------

sipserver b2bua list

Display DNS configuration

Syntax:

```
list
```

sipserver Commands

sipserver config

Configure the general parameters

Syntax:

```
config          [areacode = <string>]
  [extrareregistrations = <{disabled|enabled}>]
    [lostbearer-timer = <number{0-60}>]
      [maxsessions = <number{1-10}>]
        [p-preferred-id = <{disabled|enabled}>]
  [register-backoff-timer = <number{0-86400}>]
    [rtpportrange = <port-range>]
      [serialhuntdelay = <number{0-600}>]
        [stickyouthproxy = <{disabled|enabled}>]
  [stopregisteron403 = <{disabled|enabled}>]
    [timert1 = <number{0-1048575}>]
      [timert2 = <number{0-1048575}>]
        [timertf = <number{0-1048575}>]
  [urimatch = <{ (missing) }>]
```

Parameters:

areacode	The geographical number	Optional
extra reregistrations	Reregisters the external UA's if the proxy doesn't respond as expected	Optional
lostbearer-timer	RTP timeout (seconds) before disconnecting the calls	Optional
maxsessions	The maximum number of simultaneous sessions	Optional
p-preferred-id	Put P-Preferred-Id header in outgoing invites	Optional
register-backoff-timer	Fixed backoff timer in registration procedure	Optional
rtpportrange	The RTP port range <[startport]-[endport]>	Optional
serialhuntdelay	Serial Hunt Group Delay Timer, in seconds	Optional
stickyouthproxy	Outbound proxy lock over transactions	Optional
stopregister on403	Stop registration when a 403 is received	Optional
timert1	Timer T1 time out, defined in rfc 3261	Optional
timert2	Timer T2 time out	Optional
timertf	Timer F timer out	Optional
urimatch		Hidden

sipserver debug

Following commands are available :

<code>config</code>	: Configure debug settings
<code>list</code>	: Display debug settings
<code>exec</code>	: Execute a 'Trace & Debug' command. For qualified personnel only.

sipserver debug config

Configure debug settings

Syntax:

```
config [callstatuscode = <number>]
      [contact = <string>]
      [regstatuscode = <number>]
      [retryafter = <number>]
```

Parameters:

callstatuscode	Forced status code in CALL response	Optional
contact	specific contact header (e.g. for 3xx)	Optional
regstatuscode	Forced status code in REGISTER response	Optional
retryafter	Retry-after header value	Optional

sipserver debug exec

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

Syntax:

```
exec      cmd = <quoted string>  
[transparent = <{ (missing) }>]
```

Parameters:

cmd	The debug command (or help)	Required
transparent		Hidden

sipserver debug list

Display debug settings

Syntax:

```
list
```

sipserver Commands

sipserver dns

Following commands are available :

<code>config</code>	: Configure DNS
<code>list</code>	: Display DNS configuration

sipserver dns config

Configure DNS

Syntax:

```
config [maxentries = <number>]  
      [startentry = <{first|random}>]
```

Parameters:

maxentries	Maximum nbr of used entries in a DNS response	Optional
startentry	Entry to start with in the registration procedure	Optional

sipserver dns list

Display DNS configuration

Syntax:

```
list
```

sipserver extua

Following commands are available :

<code>add</code>	: Add external user agent
<code>delete</code>	: Delete external user agent
<code>modify</code>	: Modify external user agent
<code>list</code>	: Show all external user agents
<code>flush</code>	: Flush all external user agents
<code>provision</code>	: Provision the supplementary service
<code>withdraw</code>	: Withdraw the supplementary service
<code>transparent</code>	: Make the supplementary service transparent
<code>activate</code>	: Activate the supplementary service
<code>deactivate</code>	: Deactivate the supplementary service
<code>listservices</code>	: Show the services for the user agents
<code>assign</code>	: Configure extua related services

Following command groups are available :

`map`

sipserver extua activate

Activate the supplementary service

Syntax:

```
activate id = <{1|2|3|4}>  
          type = <{clip|clir|cfnr|cfu|cfb|vmnr|mce}>  
          [modus = <{ (missing) }>]  
          [name = <{ (missing) }>]  
          [status = <{ (missing) }>]
```

Parameters:

id	The external ua identifier	Required
type	The supplementary service type	Required
modus		Hidden
name		Hidden
status		Hidden

sipserver extua add

Add external user agent

Syntax:

```

add                                id = <number>
                                   [aor = <string>]
                                   [displayname = <quoted string>]
                                   [HuntGroupMode = <{parallel|serial}>]
                                   [intf = <{(see Param)}>]
                                   [outboundproxy = <{}>]
                                   [outboundregistrar = <string>]
[P-Preferred-Id-DisplayName = <string>]
[P-Preferred-Id-URI = <string>]
                                   [password = <password>]
                                   [Realm = <{1}>]
                                   [registerexpire = <number{0-31536000}>]
                                   [sipport = <{(see Param)}>]
                                   [status = <{disabled|enabled}>]
                                   [username = <string>]

```

Parameters:

id	The external ua identifier	Required
aor	The SIP URI related to this Address-Of-Record	Optional
displayname	An alias name for the SIP_URI	Optional
HuntGroup Mode	Hunt group mode: parallel or serial	Optional
intf	The WAN interface name Options: <{loop Internet LocalNetwork}>	Optional
outboundproxy	Add outbound proxy number	Optional
outbound registrar	Add outbound registrar	Optional
P-Preferred-Id-DisplayName	P-preferred-id display name, use displayname if none configured	Optional
P-Preferred-Id-URI	P-preferred-id URI, use aor if none configured	Optional
password	The authentication password related to this Address-Of-Record	Optional
Realm	Add realm index	Optional
registerexpire	The register expiry time	Optional
sipport	The WAN SIP port number	Optional

sipserver Commands

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|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|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|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>

status	The status of the external user agent	Optional
username	The authentication username related to this Address-Of-Record	Optional

sipserver extua assign

Configure extua related services

Syntax:

```

assign                id = <{1|2|3|4}>
[AES_from_email_address = <string>]
  [AES_outg_SMTP_server = <string>]
  [AES_to_email_address = <string>]
    [cf-mode = <{302|relay}>]
    [cfb-dest = <string>]
    [cfnr-dest = <string>]
    [cfnr-timer = <number>]
    [cfu-dest = <string>]
    [HuntGroupMode = <{parallel|serial}>]
    [vmnr-timer = <number>]
  [voicemailsize limit = <number>]

```

Parameters:

id	The external ua identifier	Required
AES_from_email_address	Sender emailaddress to be used	Optional
AES_outg_SMTP_server	outgoing SMTP-server to be used	Optional
AES_to_email_address	Recipient emailaddress to be used	Optional
cf-mode	Call forwarding mode 302 or relay	Optional
cfb-dest	Call forwarding on busy destination uri	Optional
cfnr-dest	Call forwarding on no reply destination uri	Optional
cfnr-timer	Call forwarding on no reply timeout	Optional
cfu-dest	Call forwarding unconditional destination uri	Optional
HuntGroup Mode	Hunt group mode: parallel or serial	Optional
vmnr-timer	Voice Mail on No Reply timeout	Optional
voicemail size limit	voicemail size limit to be used	Optional

sipserver extua deactivate

Deactivate the supplementary service

Syntax:

```
deactivate id = <{1|2|3|4}>  
            type = <{clip|clir|cfnr|cfu|cfb|vmnr|mce}>  
            [modus = <{ (missing) }>]  
            [name = <{ (missing) }>]  
            [status = <{ (missing) }>]
```

Parameters:

id	The external ua identifier	Required
type	The supplementary service type	Required
modus		Hidden
name		Hidden
status		Hidden

sipserver extua delete

Delete external user agent

Syntax:

```
delete id = <{1|2|3|4}>
```

Parameters:

id	The external ua identifier	Required
----	----------------------------	----------

sipserver extua flush

Flush all external user agents

Syntax:

```
flush
```

sipserver extua list

Show all external user agents

Syntax:

```
list [id = <{1|2|3|4}>]
```

Parameters:

id	The external ua identifier	Optional
----	----------------------------	----------

sipserver extua listservices

Show the services for the user agents

Syntax:

```
listservices [id = <{1|2|3|4}>]
```

Parameters:

id	The external ua identifier	Optional
----	----------------------------	----------

sipserver extua map

Following commands are available :

<code>add</code>	: Add external-internal user agent connection
<code>delete</code>	: Delete external-internal user agent connection
<code>modify</code>	: Modify external-internal user agent connection
<code>list</code>	: Show all external-internal user agent connections
<code>flush</code>	: Flush all external-internal user agent connections

sipserver extua map add

Add external-internal user agent connection

Syntax:

```
add extua = <{1|2|3|4}>  
    intua = <{}>
```

Parameters:

extua	The external user agent identifier	Required
intua	The internal user agent identifier	Required

sipserver extua map delete

Delete external-internal user agent connection

Syntax:

```
delete extua = <{1|2|3|4}>
      intua = <{}>
```

Parameters:

extua	The external user agent identifier	Required
intua	The internal user agent identifier	Required

sipserver extua map flush

Flush all external-internal user agent connections

Syntax:

```
flush
```

sipserver extua map list

Show all external-internal user agent connections

Syntax:

```
list [extua = <{1|2|3|4}>]
```

Parameters:

extua	The internal user agent identifier	Optional
-------	------------------------------------	----------

sipserver extua map modify

Modify external-internal user agent connection

Syntax:

```
modify extua = <{1|2|3|4}>  
    intua = <{}>  
    newintua = <{}>
```

Parameters:

extua	The external user agent identifier	Required
intua	The internal user agent identifier	Required
newintua	The internal user agent identifier	Required

sipserver extua modify

Modify external user agent

Syntax:

```

modify                                id = <{1|2|3|4}>
                                     [aor = <string>]
                                     [displayname = <quoted string>]
                                     [HuntGroupMode = <{parallel|serial}>]
                                     [intf = <{(see Param)}>]
                                     [outboundproxy = <{}>]
                                     [outboundregistrar = <string>]
[P-Preferred-Id-DisplayName = <string>]
[P-Preferred-Id-URI = <string>]
                                     [password = <password>]
                                     [Realm = <{1}>]
                                     [registerexpire = <number{0-31536000}>]
                                     [sipport = <{(see Param)}>]
                                     [status = <{disabled|enabled}>]
                                     [username = <string>]

```

Parameters:

id	The external ua identifier	Required
aor	The SIP URI related to this Address-Of-Record	Optional
displayname	An alias name for the SIP_URI	Optional
HuntGroup Mode	Hunt group mode: parallel or serial	Optional
intf	The WAN interface name Options: <{loop Internet LocalNetwork}>	Optional
outboundproxy	Add outbound proxy number	Optional
outbound registrar	Add outbound registrar	Optional
P-Preferred-Id-DisplayName	P-preferred-id display name, use displayname if none configured	Optional
P-Preferred-Id-URI	P-preferred-id URI, use aor if none configured	Optional
password	The authentication password related to this Address-Of-Record	Optional
Realm	Add realm index	Optional
registerexpire	The register expiry time	Optional
sipport	The WAN SIP port number	Optional

sipserver Commands

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|ipcserv|ipx|irc-o|irc-u|kerberos|ldap|login|netbios-dgm|netbios-ns|netbios-ssn|netwall|netware-ip|new-rwho|nfs|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|sysstat|talk|telnet|time|timed|tftp|ulistserv|utime|uucp|uucp-rlogin|who|www-http|whoami|xwindows} or number>

status	The status of the external user agent	Optional
username	The authentication username related to this Address-Of-Record	Optional

sipserver extua provision

Provision the supplementary service

Syntax:

```
provision id = <{1|2|3|4}>
           type = <{clip|clir|cfnr|cfu|cfb|vmnr|mce}>
           [modus = <{ (missing) }>]
           [name = <{ (missing) }>]
           [status = <{ (missing) }>]
```

Parameters:

id	The external ua identifier	Required
type	The supplementary service type	Required
modus		Hidden
name		Hidden
status		Hidden

sipserver extua transparent

Make the supplementary service transparent

Syntax:

```
transparent id = <{1|2|3|4}>  
            type = <{(see Parameters)}>  
            [modus = <{(missing)}>]  
            [name = <{(missing)}>]  
            [status = <{(missing)}>]
```

Parameters:

id	The external ua identifier	Required
type	The supplementary service type Options: <{clip clir cfnr cfu cfb vmnr mce}>	Required
modus		Hidden
name		Hidden
status		Hidden

sipserver extua withdraw

Withdraw the supplementary service

Syntax:

```
withdraw id = <{1|2|3|4}>  
          type = <{clip|clir|cfnr|cfu|cfb|vmnr|mce}>  
          [modus = <{ (missing) }>]  
          [name = <{ (missing) }>]  
          [status = <{ (missing) }>]
```

Parameters:

id	The external ua identifier	Required
type	The supplementary service type	Required
modus		Hidden
name		Hidden
status		Hidden

sipserver inboundauth

Following command groups are available :

`extua`

`intua`

sipserver inboundauth extua

Following commands are available :

<code>config</code>	: Configure which methods should be authenticated
<code>list</code>	: List the methods

sipserver inboundauth extua config

Configure which methods should be authenticated

Syntax:

```
config [noncelifetime = <number{1-86400}>]  
      [UPDATE = <{disabled|enabled}>]
```

Parameters:

noncelifetime	maximum lifetime of a nonce	Optional
UPDATE		Optional

sipserver inboundauth extua list

List the methods

Syntax:

```
list
```

sipserver Commands

sipserver inboundauth intua

Following commands are available :

<code>config</code>	: Configure which methods should be authenticated
<code>list</code>	: List the methods

sipserver inboundauth intua config

Configure which methods should be authenticated

Syntax:

```
config [noncelifetime = <number{1-86400}>]  
      [UPDATE = <{disabled|enabled}>]
```

Parameters:

noncelifetime	maximum lifetime of a nonce	Optional
UPDATE		Optional

sipserver inboundauth intua list

List the methods

Syntax:

```
list
```

sipserver Commands

sipserver intua

Following commands are available :

<code>add</code>	: Add internal user agent
<code>delete</code>	: Delete internal user agent
<code>modify</code>	: Modify internal user agent
<code>list</code>	: Show all internal user agents
<code>flush</code>	: Flush all internal user agents
<code>config</code>	: Configure common parameters for all INTUAs

Following command groups are available :

`map`

sipserver intua add

Add internal user agent

Syntax:

```
add      id = <number>
         [aor = <string>]
         [password = <password>]
         [Realm = <{1}>]
         [status = <{disabled|enabled}>]
         [username = <string>]
```

Parameters:

id	The internal ua identifier	Required
aor	The SIP URI related to this Address-Of-Record	Optional
password	The authentication password related to this Address-Of-Record	Optional
Realm	Add realm index	Optional
status	The status of the internal user agent	Optional
username	The authentication username related to this Address-Of-Record	Optional

sipserver intua config

Configure common parameters for all INTUAs

Syntax:

```
config  
[localcalltransferonactiveheld = <{(see Param)}>]
```

Parameters:

localcalltransfer		Optional
onactiveheld	Options: <{disabled enabled}>	

sipserver intua delete

Delete internal user agent

Syntax:

```
delete id = <{}>
```

Parameters:

id	The internal ua identifier	Required
----	----------------------------	----------

sipserver intua flush

Flush all internal user agents

Syntax:

```
flush
```

sipserver intua list

Show all internal user agents

Syntax:

```
list [id = <{}>]
```

Parameters:

id	The internal ua identifier	Optional
----	----------------------------	----------

sipserver intua map

Following commands are available :

<code>add</code>	: Add internal-external user agent connection
<code>delete</code>	: Delete internal-external user agent connection
<code>modify</code>	: Modify internal-external user agent connection
<code>list</code>	: Show all internal-external user agent connections
<code>flush</code>	: Flush all internal-external user agent connections

sipserver intua map add

Add internal-external user agent connection

Syntax:

```
add extua = <{1|2|3|4}>  
    intua = <{}>  
[priority = <number>]
```

Parameters:

extua	The external user agent identifier	Required
intua	The internal user agent identifier	Required
priority	The external user agent priority	Optional

sipserver intua map delete

Delete internal-external user agent connection

Syntax:

```
delete extua = <{1|2|3|4}>  
      intua = <{}>
```

Parameters:

extua	The external user agent identifier	Required
intua	The internal user agent identifier	Required

sipserver intua map flush

Flush all internal-external user agent connections

Syntax:

```
flush
```

sipserver intua map list

Show all internal-external user agent connections

Syntax:

```
list [intua = <{}>]
```

Parameters:

intua	The internal user agent identifier	Optional
-------	------------------------------------	----------

sipserver intua map modify

Modify internal-external user agent connection

Syntax:

```
modify extua = <{1|2|3|4}>  
    intua = <{}>  
    newextua = <{1|2|3|4}>  
[newpriority = <number>]  
[priority = <number>]
```

Parameters:

extua	The external user agent identifier	Required
intua	The internal user agent identifier	Required
newextua	The external user agent identifier	Required
newpriority	The external user agent priority	Optional
priority	The external user agent priority	Optional

sipserver intua modify

Modify internal user agent

Syntax:

```
modify id = <{}>  
    [aor = <string>]  
    [password = <password>]  
    [Realm = <{1}>]  
    [status = <{disabled|enabled}>]  
    [username = <string>]
```

Parameters:

id	The internal ua identifier	Required
aor	The SIP URI related to this Address-Of-Record	Optional
password	The authentication password related to this Address-Of-Record	Optional
Realm	Add realm index	Optional
status	The status of the internal user agent	Optional
username	The authentication username related to this Address-Of-Record	Optional

sipserver list

Display the general parameters

Syntax:

```
list
```

sipserver outbproxy

Following commands are available :

<code>add</code>	: Add outbound proxy
<code>delete</code>	: Delete outbound proxy
<code>modify</code>	: Modify outbound proxy
<code>list</code>	: Show all outbound proxies
<code>flush</code>	: Flush all outbound proxies

sipserver outbproxy add

Add outbound proxy

Syntax:

```
add    id = <number>
[address = <string>]
[port = <{(see Parameters)}>]
```

Parameters:

id	The outbound proxy id	Required
address	The outbound proxy address	Optional
port	The outbound proxy 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows}> or number>	Optional

sipserver outbproxy delete

Delete outbound proxy

Syntax:

```
delete id = <{}>
```

Parameters:

id	The outbound proxy id	Required
----	-----------------------	----------

sipserver outbproxy flush

Flush all outbound proxies

Syntax:

```
flush
```

sipserver outbproxy list

Show all outbound proxies

Syntax:

```
list [id = <{}>]
```

Parameters:

id	The outbound proxy id	Optional
----	-----------------------	----------

sipserver outbproxy modify

Modify outbound proxy

Syntax:

```

modify id = <{}>
  [address = <string>]
  [port = <{(see Parameters)}>]

```

Parameters:

id	The outbound proxy id	Required
address	The outbound proxy address	Optional
port	The outbound proxy 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>	Optional

sipserver outbreg

Following commands are available :

<code>add</code>	: Add outbound registrar
<code>delete</code>	: Delete outbound registrar
<code>modify</code>	: Modify outbound registrar
<code>list</code>	: Show all outbound registrar's
<code>flush</code>	: Flush all outbound registrar's

sipserver outbreg add

Add outbound registrar

Syntax:

```
add    id = <number>
[address = <string>]
[port = <{(see Parameters)}>]
```

Parameters:

id	The outbound registrar id	Required
address	The outbound registrar address	Optional
port	The outbound registrar 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows}> or number>	Optional

sipserver outbreg delete

Delete outbound registrar

Syntax:

```
delete id = <{}>
```

Parameters:

id	The outbound registrar id	Required
----	---------------------------	----------

sipserver outbreg flush

Flush all outbound registrar's

Syntax:

```
flush
```

sipserver outbreg list

Show all outbound registrar's

Syntax:

```
list [id = <{}>]
```

Parameters:

id	The outbound registrar id	Optional
----	---------------------------	----------

sipserver outbreg modify

Modify outbound registrar

Syntax:

```

modify id = <{}>
  [address = <string>]
  [port = <{(see Parameters)}>]

```

Parameters:

id	The outbound registrar id	Required
address	The outbound registrar address	Optional
port	The outbound registrar 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>	Optional

sipserver realm

Following commands are available :

<code>add</code>	: Add realm configuration
<code>delete</code>	: Delete realm configuration
<code>modify</code>	: Modify realm configuration
<code>list</code>	: Show all realm configuration
<code>flush</code>	: Flush all realm configuration

sipserver realm add

Add realm configuration

Syntax:

```
add      id = <number>  
        [realm = <string>]  
        [realmcheck = <{disabled|enabled}>]
```

Parameters:

id	The realm identifier	Required
realm	The realm-string	Optional
realmcheck	should realm be checked	Optional

sipserver realm delete

Delete realm configuration

Syntax:

```
delete id = <{1}>
```

Parameters:

id	The realm identifier	Required
----	----------------------	----------

sipserver realm flush

Flush all realm configuration

Syntax:

```
flush
```

sipserver realm list

Show all realm configuration

Syntax:

```
list [id = <{1}>]
```

Parameters:

id	The realm identifier	Optional
----	----------------------	----------

sipserver realm modify

Modify realm configuration

Syntax:

```
modify    id = <number>
          [realm = <string>]
          [realmcheck = <{disabled|enabled}>]
```

Parameters:

id	The realm identifier	Required
realm	The realm-string	Optional
realmcheck	should realm be checked	Optional

sipserver registrar

Following commands are available :

`config` : Configure registrar
`list` : Display the registrar configuration

Following command groups are available :

`bind` `loc`

sipserver registrar bind

Following commands are available :

<code>add</code>	: Add interface
<code>delete</code>	: Delete interface
<code>list</code>	: Show all interfaces
<code>flush</code>	: Flush all interfaces

sipserver registrar bind add

Add interface

Syntax:

```
add intf = <{Internet|LocalNetwork}>
[sipport = <{(see Parameters)}>]
```

Parameters:

intf	The LAN interface name	Required
sipport	The LAN SIP port number 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows} or number>	Optional

sipserver registrar bind delete

Delete interface

Syntax:

```
delete intf = <{}>
```

Parameters:

intf	The LAN interface name	Required
------	------------------------	----------

sipserver registrar bind flush

Flush all interfaces

Syntax:

```
flush
```

sipserver registrar bind list

Show all interfaces

Syntax:

```
list [intf = <{}>]
```

Parameters:

intf	The LAN interface name	Optional
------	------------------------	----------

sipserver registrar config

Configure registrar

Syntax:

```
config      [mode = <{process|snoop}>]  
[registerexpire = <number{0-31536000}>]
```

Parameters:

mode	The registrar mode (process snoop)	Optional
registerexpire	The register expiry time	Optional

sipserver registrar list

Display the registrar configuration

Syntax:

```
list
```

sipserver registrar loc

Following commands are available :

`list` : Show the location database

sipserver registrar loc list

Show the location database

Syntax:

```
list
```

sntp Commands

sntp

Following commands are available :

add	: Add NTP server
list	: List the NTP servers
delete	: Delete NTP server from list
flush	: Flush NTP server list and SNTP client configuration
config	: Modify/Display configuration

Following command groups are available :

debug

sntp Commands

sntp add

Add NTP server

Syntax:

```
add [addr = <ip-address>]  
    [name = <string>]  
    [version = <number{1-4}>]
```

Parameters:

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}>]
```

Parameters:

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 Commands

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}>]
```

Parameters:

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

sntp delete

Delete NTP server from list

Syntax:

```
delete [addr = <ip-address>]  
       [name = <string>]
```

Parameters:

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 Commands

sntp flush

Flush NTP server list and SNTP client configuration

Syntax:

```
flush
```

sntp Commands

sntp list

List the NTP servers

Syntax:

```
list
```

software Commands

software

Following commands are available :

download	: Download parameters.
version	: Display the software version.
switchover	: Switch from active to passive firmware & reboot.
upgrade	: Force the gateway into LAN upgrade mode (Ctrl-BOOTP).
deletepassive	: Delete passive image.
duplicate	: Duplicate the active firmware (passive = active).

software deletepassive

Delete passive image.

Syntax:

```
deletepassive
```

software download

Download parameters.

Syntax:

```
download filetype = <{firmware}>  
                url = <string>  
                [filesize = <string>  
                [password = <string>  
                [targetfilename = <string>  
                [username = <string>
```

Parameters:

filetype	The type of the file to be downloaded.	Required
url	Set the HTTP URL where the file is to be found including remote filename.	Required
filesize	Set the size of the file to be downloaded.	Optional
password	Set the password the be used to authenticate to the download server.	Optional
targetfilename	Set the filename used to save the file on the modem.	Optional
username	Set the name to be used to authenticate to the download server.	Optional

software duplicate

Duplicate the active firmware (passive = active).

Syntax:

```
duplicate
```

software switchover

Switch from active to passive firmware & reboot.

Syntax:

```
switchover [reuseconfig = <{yes|no}>]
```

Parameters:

reuseconfig	Confirm to use the existing configuration.	Optional
-------------	--	----------

software upgrade

Force the gateway into LAN upgrade mode (Ctrl-BOOTP).

Syntax:

```
upgrade
```

software version

Display the software version.

Syntax:

```
version
```

statecheck Commands

statecheck

Following commands are available :

<code>config</code>	: Configure checkd parameters.
<code>statecheckadd</code>	: Add a statecheck object.
<code>statecheckdelete</code>	: Delete a statecheck object.
<code>groupadd</code>	: Add a group object.
<code>groupdelete</code>	: Delete a group object.
<code>checkadd</code>	: Add a check object.
<code>checkdelete</code>	: Delete a check object.
<code>list</code>	: List checks.

statecheck Commands

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 = <{}>]
```

Parameters:

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 consecutive 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 Commands

statecheck checkdelete

Delete a check object.

Syntax:

```
checkdelete group = <{}>  
              name = <{}>  
              statecheck = <{}>
```

Parameters:

group	The name of the group.	Required
name	The name of the check.	Required
statecheck	The name of the statecheck.	Required

statecheck Commands

statecheck config

Configure checkd parameters.

Syntax:

```
config interval = <number>
      timeout = <number>
      [dmtree = <{igd|atomic}>]
      [groupop = <{and|or}>]
      [statecheck = <{}>]
```

Parameters:

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 Commands

statecheck groupadd

Add a group object.

Syntax:

```
groupadd name = <string>  
    [checkop = <{and|or}>]  
    [statecheck = <{}>]
```

Parameters:

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 = <{}>
```

Parameters:

name	The name of the group.	Required
statecheck	The name of the statecheck.	Required

statecheck list

List checks.

Syntax:

```
list
```

statecheck Commands

statecheck statecheckadd

Add a statecheck object.

Syntax:

```
statecheckadd name = <string>
```

Parameters:

name	The name of the statecheck.	Required
------	-----------------------------	----------

statecheck Commands

statecheck statecheckdelete

Delete a statecheck object.

Syntax:

```
statecheckdelete statecheck = <{}>
```

Parameters:

statecheck	The name of the statecheck.	Required
------------	-----------------------------	----------

syslog Commands

syslog

Following commands are available :

<code>config</code>	: Set/Display configuration
<code>ruleadd</code>	: Add a new rule to the syslog configuration.
<code>ruledelete</code>	: Delete a rule in the syslog configuration
<code>flush</code>	: Flushes syslog rules.
<code>list</code>	: List the current syslog configuration
<code>bootup</code>	: 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}>]
```

Parameters:

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 Commands

syslog msgbuf

Following commands are available :

<code>show</code>	: Show messages in the syslog message buffer.
<code>send</code>	: Send messages to remote syslog server.
<code>flush</code>	: 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)}>]
```

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 local0 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)}>]
```

Parameters:

fac	Syslog facility level. Options: <{kern user mail daemon auth syslog lpr news uucp cron security ftp ntp audit logalert clock local0 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 Commands

syslog ruleadd

Add a new rule to the syslog configuration.

Syntax:

```
ruleadd dest = <ip-address>
         fac = <{(see Parameters)}>
         sev = <{(see Parameters)}>
```

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 local0 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:

```
ruledetelete rule_index = <number{1-16}>
```

Parameters:

rule_index	Syslog rule index.	Required
------------	--------------------	----------

system Commands

system

Following commands are available :

<code>settime</code>	: Set/Get date, time, timezone, daylight savings time, uptime.
<code>dst</code>	: Set daylight saving values
<code>reboot</code>	: Reboot the modem.
<code>flush</code>	: Flush system configuration.
<code>reset</code>	: Reset to (factory or ISP) defaults: user specific settings will be cleared !
<code>config</code>	: Set or change system config parameters.
<code>timedreboot</code>	: Set or change editing mode timed reboot
<code>locale</code>	: Set/Get regional settings. (command is hidden)

Following command groups are available :

<code>debug</code>	<code>ipc</code>	<code>ra</code>	<code>qual</code>
--------------------	------------------	-----------------	-------------------

system Commands

system config

Set or change system config parameters.

Syntax:

```
config      [autosave = <{enabled|disabled}>]
            [autosavedelay = <number{0-600}>]
            [defaultconnection = <{(see Parameters)}>]
            [digestauth = <{(missing)}>]
            [drst = <{(missing)}>]
            [dualinterface = <{(missing)}>]
            [led = <{(see Parameters)}>]
            [mdap = <{disabled|enabled}>]
            [resetbutton = <{disabled|enabled}>]
            [tr64 = <{disabled|enabled}>]
            [tr64auth = <{disabled|enabled}>]
            [tr64sessiontimeout = <number{30-45}>]
            [upnp = <{disabled|enabled}>]
            [WANEthPort = <{(see Parameters)}>]
            [WANMode = <{ADSL|VDSL|SHDSL|ETH|UMTS}>]
            [wps = <{(missing)}>]
```

Parameters:

autosave	Enable/Disable autosaves	Optional
autosavedelay	Autosave delay in seconds (0 for immediate save)	Optional
default connection	The name of the default internet connection. Options: <{loop Internet LocalNetwork}>	Optional
digestauth		Hidden
drst		Hidden
dualinterface		Hidden
led	Set system LED color Options: <{blue 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
tr64session timeout	TR-64 session timeout value (sec)	Optional
upnp	Enable/Disable upnp discovery	Optional
WANEthPort	Set autosensing eth wan port	Optional

system Commands

Options: <{ethif1 ethif2 ethif3 ethif4}>		
WANMode	Set autosensing wan mode	Optional
wps		Hidden

system Commands

system debug

Following commands are available :

<code>cpu</code>	:	CPU usage statistics
<code>mem</code>	:	Memory usage statistics
<code>autosave</code>	:	Autosave debugging commands

system debug autosave

Autosave debugging commands

Syntax:

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

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

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}>]
     [startmonth = <number{1-12}>]
     [starttime = <hh:mm:ss>]
     [startweek = <number{1-5}>]
     [startweekday = <{(see Parameters)}>]
     [status = <{(missing)}>]
```

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 relative mode	Optional

system Commands

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 Commands

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}>]
```

Parameters:

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) }>]
```

Parameters:

value	Set system LED color Options: <{blue green red orange flash off allon alloff allblue allgreen allred unlock}>	Optional
-------	--	----------

system Commands

system ra

Following commands are available :

<code>list</code>	: List remote access instances.
<code>instadd</code>	: Add a remote access instances.
<code>instdelete</code>	: Delete remote access instances.
<code>config</code>	: Configure remote access parameters.
<code>start</code>	: Starts temporary mode.
<code>stop</code>	: Stops temporary mode.

system ra config

Configure remote access parameters.

Syntax:

```

config      name = <{remoteaccess}>
            [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>]

```

Parameters:

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.

Syntax:

```
instadd name = <string>
```

Parameters:

name	Instance name	Required
------	---------------	----------

system ra instdelete

Delete remote access instances.

Syntax:

```
instdelete name = <{remoteaccess}>
```

Parameters:

name	Instance name	Required
------	---------------	----------

system ra list

List remote access instances.

Syntax:

```
list [name = <{remoteaccess}>]
```

Parameters:

name	The name of the instance.	Optional
------	---------------------------	----------

system Commands

system ra start

Starts temporary mode.

Syntax:

```
start name = <{remoteaccess}>
```

Parameters:

name	Instance name	Required
------	---------------	----------

system Commands

system ra stop

Stops temporary mode.

Syntax:

```
stop name = <{remoteaccess}>
```

Parameters:

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}>
```

Parameters:

factory	Option to reset to factory	Required
proceed	Confirmation for resetting the modem.	Required

system Commands

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>]
```

Parameters:

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) (UTC+13:00)}>	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}>]
```

Parameters:

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 Commands

threshold

Following commands are available :

<code>enable</code>	: Enables a threshold definition.
<code>disable</code>	: Disables a threshold definition.
<code>config</code>	: Configures a threshold definition.
<code>reset</code>	: Reset threshold period.
<code>clear</code>	: Clears threshold statistics.
<code>list</code>	: Lists all threshold definitions.
<code>stats</code>	: Lists threshold resources.

Note: threshold is missing from the ‘:help’ group list

threshold Commands

threshold clear

Clears threshold statistics.

Syntax:

```
clear [id = <threshold id>]
```

Parameters:

id	Threshold identifier.	Optional
----	-----------------------	----------

threshold Commands

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}>]
```

Parameters:

count	Threshold event count.	Optional
id	Threshold identifier.	Optional
period	Threshold period.	Optional
state	Threshold state.	Optional
type	Type of threshold.	Optional

threshold Commands

threshold disable

Disables a threshold definition.

Syntax:

```
disable [id = <threshold id>]
```

Parameters:

id	Threshold identifier.	Optional
----	-----------------------	----------

threshold Commands

threshold enable

Enables a threshold definition.

Syntax:

```
enable [id = <threshold id>]
```

Parameters:

id	Threshold identifier.	Optional
----	-----------------------	----------

threshold Commands

threshold list

Lists all threshold definitions.

Syntax:

```
list
```

threshold Commands

threshold reset

Reset threshold period.

Syntax:

```
reset [id = <threshold id>]
```

Parameters:

id	Threshold identifier.	Optional
----	-----------------------	----------

threshold Commands

threshold stats

Lists threshold resources.

Syntax:

```
stats
```

tls Commands

tls

Following command groups are available :

`acs-client` `https-server` `remote-upgraded self`

tls Commands

tls acs-client

Following commands are available :

`config` : Display/modify tls settings

Following command groups are available :

`cert`

tls Commands

tls acs-client cert

Following commands are available :

<code>add</code>	:	Add a new certificate
<code>delete</code>	:	Delete a certificate
<code>list</code>	:	List certificates

tls Commands

tls acs-client cert add

Add a new certificate

Syntax:

```
add filename = <string>
```

Parameters:

filename	name of the certificate file	Required
----------	------------------------------	----------

tls acs-client cert delete

Delete a certificate

Syntax:

```
delete index = <number>
```

Parameters:

index	Certificate index	Required
-------	-------------------	----------

tls acs-client cert list

List certificates

Syntax:

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

Parameters:

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}>]
```

Parameters:

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 Commands

tls https-server

Following commands are available :

`config` : Display/modify tls settings

Following command groups are available :

`cert`

tls Commands

tls https-server cert

Following commands are available :

<code>add</code>	:	Add a new certificate
<code>delete</code>	:	Delete a certificate
<code>list</code>	:	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

Syntax:

```
delete index = <number>
```

Parameters:

index	Certificate index	Required
-------	-------------------	----------

tls https-server cert list

List certificates

Syntax:

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

Parameters:

expand	Display more information	Optional
index	Certificate index	Optional

tls https-server config

Display/modify tls settings

Syntax:

```
config [auth-client = <{disabled|enabled}>]
      [state = <{disabled|enabled}>]
      [valid-date = <{disabled|enabled}>]
      [valid-domain = <{(missing)}>]
```

Parameters:

auth-client	Request client authentication	Optional
state	SSL/TLS server for HTTPS state	Optional
valid-date	Check certificate validity date	Optional
valid-domain		Hidden

tls Commands

tls remote-upgraded

Following commands are available :

`config` : Display/modify tls settings

Following command groups are available :

`cert`

tls Commands

tls remote-upgraded cert

Following commands are available :

<code>add</code>	:	Add a new certificate
<code>delete</code>	:	Delete a certificate
<code>list</code>	:	List certificates

tls remote-upgraded cert add

Add a new certificate

Syntax:

```
add filename = <string>
```

Parameters:

filename	name of the certificate file	Required
----------	------------------------------	----------

tls remote-upgraded cert delete

Delete a certificate

Syntax:

```
delete index = <number>
```

Parameters:

index	Certificate index	Required
-------	-------------------	----------

tls remote-upgraded cert list

List certificates

Syntax:

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

Parameters:

expand	Display more information	Optional
index	Certificate index	Optional

tls remote-upgraded config

Display/modify tls settings

Syntax:

```
config [auth-serv = <{disabled|enabled}>]  
      [state = <{disabled|enabled}>]  
      [valid-date = <{disabled|enabled}>]  
      [valid-domain = <{ (missing) }>]
```

Parameters:

auth-serv	Request server authentication	Optional
state	SSL/TLS client for remote upgraded state	Optional
valid-date	Check certificate validity date	Optional
valid-domain		Hidden

tls Commands

tls self

Following command groups are available :

`cert`

tls Commands

tls self cert

Following commands are available :

`list` : List certificates

tls self cert list

List certificates

Syntax:

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

Parameters:

expand	Display more information	Optional
index	Certificate index	Optional

***tod* Commands**

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* Commands**

tod action

Following commands are available :

<code>add</code>	: Add an action object.
<code>delete</code>	: Delete an action object.
<code>setvaladd</code>	: Add a setvalue object.
<code>setvaldelete</code>	: Delete a setvalue object.
<code>paramadd</code>	: Add a setvalue parameter.
<code>paramdelete</code>	: Delete a setvalue parameter.
<code>list</code>	: List actions.

tod Commands

tod action add

Add an action object.

Syntax:

```
add [id = <number>]
```

Parameters:

id	The id of the action.	Optional
----	-----------------------	----------

tod action delete

Delete an action object.

Syntax:

```
delete actionid = <number>
```

Parameters:

actionid	The id of the action.	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>]
```

Parameters:

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:

```
paramdelete actionid = <number>  
              paramid = <number>  
              setvalueid = <number>
```

Parameters:

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) }>]
```

Parameters:

actionid	The id of the action.	Required
id	The id of the setvalue action.	Optional
on		Hidden

tod action setvaldelete

Delete a setvalue object.

Syntax:

```
setvaldelete actionid = <number>  
               setvalueid = <number>
```

Parameters:

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}>]
```

Parameters:

acchain	firewall chain name	Optional
state	enable/disable ToD	Optional

***tod* Commands**

tod list

List config.

Syntax:

```
list
```

tod Commands

tod schedule

Following commands are available :

<code>add</code>	: Add a schedule object.
<code>modify</code>	: Modify schedule parameters.
<code>start</code>	: Start a schedule.
<code>delete</code>	: Delete a schedule object.
<code>dayadd</code>	: Add a day object.
<code>daydelete</code>	: Delete a day object.
<code>timeadd</code>	: Add a timerange object.
<code>timeddelete</code>	: Delete a timerange object.
<code>timeabsadd</code>	: Add a timerange_abs object.
<code>timeabsdelete</code>	: Delete a timerange_abs object.
<code>list</code>	: List schedules.

tod Commands

tod schedule add

Add a schedule object.

Syntax:

```
add type = <{none|accesscontrol|action}>  
    [id = <number>]
```

Parameters:

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>]
```

Parameters:

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>
```

Parameters:

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>
```

Parameters:

scheduleid	The id of the schedule.	Required
------------	-------------------------	----------

tod schedule list

List schedules.

Syntax:

```
list
```

tod schedule modify

Modify schedule parameters.

Syntax:

```
modify scheduleid = <number>
    [action = <string>]
    [count = <number>]
    [expiretime = <string>]
    [mode = <{(see Parameters)}>]
    [name = <quoted string>]
    [nrofminutes = <number>]
    [reference = <string>]
    [state = <{enabled|disabled}>]
```

Parameters:

scheduleid	The id of the schedule.	Required
action	Action.	Optional
count	The timer count (0=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}>
```

Parameters:

scheduleid	The id of the schedule.	Required
start	Start the schedule	Required

timeabsadd

Add a timerange_abs object.

Syntax:

```
timeabsadd scheduleid = <number>
                [endtime = <string>]
                [rangeid = <number>]
                [starttime = <string>]
```

Parameters:

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

timeabsdelete

Delete a timerange_abs object.

Syntax:

```
timeabsdelete rangeid = <number>  
                scheduleid = <number>
```

Parameters:

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>]
```

Parameters:

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 timedele

Delete a timerange object.

Syntax:

```
timedele delete dayid = <number>  
                scheduleid = <number>  
                timeid = <number>
```

Parameters:

dayid	The id of the day.	Required
scheduleid	The id of the schedule.	Required
timeid	The id of the timerange.	Required

trigger Commands

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 Commands

trigger chain

Following commands are available :

<code>add</code>	: Add a chain.
<code>delete</code>	: Delete a chain.
<code>list</code>	: Display a list of chains.
<code>flush</code>	: Flush all chains.
<code>modify</code>	: Modify a chain. (command is hidden)

Note: trigger chain is missing from the ‘:help trigger’ group list

trigger Commands

trigger chain add

Add a chain.

Syntax:

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

Parameters:

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

trigger Commands

trigger chain delete

Delete a chain.

Syntax:

```
delete chain = <chain name>
```

Parameters:

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

trigger Commands

trigger chain flush

Flush all chains.

Syntax:

```
flush
```

trigger Commands

trigger chain list

Display a list of chains.

Syntax:

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

Parameters:

format	The format of the chain list.	Optional
--------	-------------------------------	----------

trigger Commands

trigger chain modify

Modify a chain. (command is hidden)

Syntax:

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

Parameters:

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

trigger Commands

trigger list

Display the triggers.

Syntax:

```
list [name = <{}>]
```

Parameters:

name	The name of a trigger.	Optional
------	------------------------	----------

trigger Commands

trigger rule

Following commands are available :

<code>list</code>	: Display a list of rules.
<code>add</code>	: Add a rule. (command is hidden)
<code>delete</code>	: Delete a rule. (command is hidden)
<code>flush</code>	: Flush all rules. (command is hidden)
<code>modify</code>	: Modify a rule. (command is hidden)

Following command groups are available :

`debug`

trigger Commands

trigger rule add

Add a rule. (command is hidden)

Syntax:

```

add chain      = <chain name>
  trigger      = <{None|link}>
  [clink       = <chain name>]
  [connstate   = <{ (missing) }>]
  [dstintf     [!]= <{ (see Parameters) }>]
  [dstip       [!]= <{ (see Parameters) }>]
  [index       = <number>]
  [length      [!]= <{}>]
  [log         = <{disabled|enabled}>]
  [name        = <string>]
  [newindex    = <{ (missing) }>]
  [serv        [!]= <{ (see Parameters) }>]
  [srcintf     [!]= <{ (see Parameters) }>]
  [srcip       [!]= <{ (see Parameters) }>]
  [srcmac      = <{ (missing) }>]
  [state       = <{disabled|enabled}>]

```

Parameters:

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 "!=") Options: <{wan lan local tunnel dmz guest voice_if}>	Optional
dstip	The name of the destination ip expression. (Can optionally use "!=") Options: <{contentsharing_ip private ssdp_ip mdap_ip 192.168.1.253}>	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

trigger Commands

serv	The name of the service expression. (Can optionally use “!=”) Options: <{ftp icmp igmp 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 VoIP-Inc-SIP-UDP VoIP-Inc-SIP-TCP VoIP-Inc-RTP}>	Optional
srcintf	The name of the source interface expression. (Can optionally use “!=”) Options: <{wan lan local tunnel dmz guest voice_if}>	Optional
srcip	The name of the source ip expression. (Can optionally use “!=”) Options: <{contentsharing_ip private ssdp_ip mdap_ip 192.168.1.253}>	Optional
srcmac		Hidden
state	Disable/Enable this rule.	Optional

trigger Commands

trigger rule debug

Following commands are available :

<code>traceconfig</code>	: Display/Modify rule trace configuration.
<code>stats</code>	: Display rule statistics.
<code>clear</code>	: Clear rule statistics.

trigger Commands

trigger rule debug clear

Clear rule statistics.

Syntax:

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

Parameters:

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

trigger Commands

trigger rule debug stats

Display rule statistics.

Syntax:

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

Parameters:

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

trigger Commands

trigger rule debug traceconfig

Display/Modify rule trace configuration.

Syntax:

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

Parameters:

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

trigger Commands

trigger rule delete

Delete a rule. (command is hidden)

Syntax:

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

Parameters:

chain	The name of the chain in which to delete the rule.	Required
index	The number of the rule in the chain.	Required

trigger Commands

trigger rule flush

Flush all rules. (command is hidden)

Syntax:

```
flush [chain = <chain name>]
```

Parameters:

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

trigger Commands

trigger rule list

Display a list of rules.

Syntax:

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

Parameters:

chain	The name of the chain to list the rules of.	Optional
format	The format of the rule list.	Optional

trigger Commands

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}>]

```

Parameters:

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

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

upgrade Commands

upgrade

Following commands are available :

`config` : Display/modify upgrade settings
`lastUpgradeInfo` : Display last upgrade information

Following command groups are available :

`debug` `image`

upgrade Commands

upgrade config

Display/modify upgrade settings

Syntax:

```
config [acsContactTimeout = <number>]
      [attempt = <number>]
      [enable = <{no|yes}>]
      [systemchk = <{(missing)}>]
      [trace_level = <number>]
```

Parameters:

acsContact Timeout	Set acsContactTimeout (minutes)	Optional
attempt	Track the number of upgrade attempts	Optional
enable	Enable firmware upgrade	Optional
systemchk		Hidden
trace_level	Set the trace level	Optional

upgrade Commands

upgrade debug

Following commands are available :

`config` : Display debug parameters

upgrade debug config

Display debug parameters

Syntax:

```
config
```

upgrade Commands

upgrade image

Following commands are available :

<code>modify</code>	: Change image parameters
<code>list</code>	: List images

upgrade image list

List images

Syntax:

```
list
```

upgrade image modify

Change image parameters

Syntax:

```
modify [key = <string>]  
      [password = <string>]  
      [url = <quoted string>]  
      [username = <string>]
```

Parameters:

key	Image identifier	Optional
password	HTTP authentication password	Optional
url	Image location URL	Optional
username	HTTP authentication username	Optional

upgrade lastUpgradeInfo

Display last upgrade information

Syntax:

```
lastUpgradeInfo
```

upnp Commands

upnp

Following commands are available :

<code>config</code>	: Config upnp parameter(s)
<code>flush</code>	: Flushes upnp config (i.e. to defaults)
<code>list</code>	: List all registered devices
<code>listmask</code>	: List all mask and security devices

Following command groups are available :

`debug`

upnp Commands

upnp config

Config upnp parameter(s)

Syntax:

```

config [autosavedelay = <number{30-45}>]
      [dslautosave = <{disabled|enabled}>]
      [httpport = <{(missing) }>]
      [maxage = <number{60-999999}>]
      [onlydefault = <{disabled|enabled}>]
      [preferredaddresses = <string>]
      [safenat = <{disabled|enabled}>]
      [upnpautosave = <{disabled|enabled}>]
      [writemode = <{full|natonly|readonly}>]

```

Parameters:

autosavedelay	Auto save delay time (sec)	Optional
dslautosave	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

upnp Commands

upnp debug

Following commands are available :

<code>traceconfig</code>	: Enable or disable tracing.
<code>nonce</code>	: To re-generate the nonce string.

upnp debug nonce

To re-generate the nonce string.

Syntax:

```
nonce [type = <{upnp|tr64|wfa}>]
```

Parameters:

type	Specify device type for nonce string	Optional
------	--------------------------------------	----------

upnp debug traceconfig

Enable or disable tracing.

Syntax:

```
traceconfig [level = <number>]
```

Parameters:

level	Set the tracelevel (0-2)	Optional
-------	--------------------------	----------

upnp Commands

upnp flush

Flushes upnp config (i.e. to defaults)

Syntax:

```
flush
```

upnp Commands

upnp list

List all registered devices

Syntax:

```
list [verbose = <number{0-2}>]
```

Parameters:

verbose	Verbose level (default = 1)	Optional
---------	-----------------------------	----------

upnp listmask

List all mask and security devices

Syntax:

```
listmask
```

user Commands

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 Commands

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) }>]
```

Parameters:

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 Commands

user config

Modify the user.

Syntax:

```
config name = <{Administrator|tech}>
[deflocadmin = <{disabled|enabled}>]
[defremadmin = <{disabled|enabled}>]
    [defuser = <{disabled|enabled}>]
        [descr = <quoted string>]
            [password = <password>]
                [role = <>]
```

Parameters:

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 Commands

user delete

Delete a user.

Syntax:

```
delete name = <{Administrator|tech}>
```

Parameters:

name	User name.	Required
------	------------	----------

user Commands

user flush

Flush the users.

Syntax:

```
flush
```

user Commands

user list

Display the users.

Syntax:

```
list [channel = <{ftp|telnet|http|mdap|serial}>]  
      [name = <{Administrator|tech}>]  
      [origin = <{lan|wan|local}>]  
      [secure = <{disabled|enabled}>]
```

Parameters:

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
```

voice Commands

voice

Following commands are available :

```
state          : show VOIP service states
config         : Configure the general parameters
list           : Display the general parameters
```

Following command groups are available :

cac	calllist	codec	country
debug	dhcp	dialplan	dns
fax	fxoport	fxsport	localmap
numbertranslAC	numbtransl	pb	portmap
profile	qos	ringing	security
services	sip	stats	tone
uamap			

voice Commands

voice cac

Following commands are available :

<code>config</code>	: Configure call admission control
<code>list</code>	: Show the call admission control

voice cac config

Configure call admission control

Syntax:

```
config [max#portsperprofile = <{one|all}>]
```

Parameters:

max#ports perprofile	The maximum number of ports that can be used with a common profile	Optional
-------------------------	---	----------

voice Commands

voice cac list

Show the call admission control

Syntax:

```
list
```

voice calllist

Following commands are available :

<code>config</code>	: Configure the calllist general parameters
<code>list</code>	: Display the calllist general parameters

voice calllist config

Configure the calllist general parameters

Syntax:

```
config [anonymouscalls = <{include|withheld}>]  
[incomingcallsselection = <{profile|port}>]  
    [outgcallstosamedest = <{(see Parameters)}>]  
[outgoingcallsselection = <{profile|port}>]  
    [privatecalls = <{include|withheld}>]
```

Parameters:

anonymouscalls	include anonymous calls	Optional
incomingcalls selection	the way incoming calls are selected	Optional
outgcalls tosamedest	include all outgoing calls to same destination Options: <{allcalls onlylastcall}>	Optional
outgoingcalls selection	the way outgoing calls are selected	Optional
privatecalls	include private calls	Optional

voice calllist list

Display the calllist general parameters

Syntax:

```
list
```

voice codec

Following commands are available :

<code>list</code>	:	Show the CODEC capability configuration
<code>config</code>	:	Configure a CODEC capability

Following command groups are available :

<code>amr</code>	<code>dynamic</code>
------------------	----------------------

voice Commands

voice codec amr

Following commands are available :

<code>list</code>	: Show the AMR mode configuration
<code>config</code>	: Enable/Disable an AMR mode

voice codec amr config

Enable/Disable an AMR mode

Syntax:

```
config mode = <number{0-7}>  
[status = <{disabled|enabled}>]
```

Parameters:

mode	The AMR mode	Required
status	Enable or disable this mode	Optional

voice codec amr list

Show the AMR mode configuration

Syntax:

```
list
```

voice codec config

Configure a CODEC capability

Syntax:

```

config type = <{(see Parameters)}>
    [priority = <number{1-13}>]
    [ptime = <{10|30|20}>]
    [ptime_g723 = <{30}>]
    [ptime_ilbc = <{20|30}>]
    [status = <{disabled|enabled}>]
    [vad = <{disabled|enabled}>]

```

Parameters:

type	The codec type Options: <{g711u g711a g723_1 g726_16 g726_24 g726_32 g726_40 g729 ilbc amr}>	Required
priority	The codec capability priority	Optional
ptime	The packet time	Optional
ptime_g723	The packet time	Optional
ptime_ilbc	The packet time	Optional
status	Enable or disable this capability	Optional
vad	Enable or disable Voice Activity Detection	Optional

voice Commands

voice codec dynamic

Following commands are available :

<code>list</code>	: Show the dynamic CODEC capability configuration
<code>config</code>	: Configure a dynamic CODEC capability

voice codec dynamic config

Configure a dynamic CODEC capability

Syntax:

```
config payloadtype = <number{96-128}>  
                    type = <{(see Parameters)}>
```

Parameters:

payloadtype	The payload type	Required
type	The codec type Options: <{rfc2833 g723_1 g726_16 g726_24 g726_32 g726_40 ilbc amr}>	Required

voice codec dynamic list

Show the dynamic CODEC capability configuration

Syntax:

```
list
```

voice codec list

Show the CODEC capability configuration

Syntax:

```
list
```

voice config

Configure the general parameters

Syntax:

```

config                [autofxo = <{disabled|enabled}>]
[call-setup-failure-timeout = <number>]
    [CCBS-invoked-timeout = <number>]
        [click2dial_ports = <{FXS1|FXS2|all}>]
            [countrycode = <number>]
                [delayedisconnect = <{enabled|disabled}>]
[delayedisconnectoverride = <{(see Param)}>]
    [delayedisconnecttimer = <number>]
        [digitrelay = <{(see Param)}>]
            [endofnumber = <{#|*|none}>]
                [feature-mngt = <{(see Param)}>]
                    [goingonhookeffect = <{(see Param)}>]
                        [intf = <{(see Param)}>]
                            [no-answer-timer = <number>]
                                [nocallsetupmsg = <{never|unav-numb}>]
                                    [pstnsoftswitchover = <{enabled|disabled}>]
                                        [ringmuteduration = <number>]
                                            [rtp_port = <{(missing)}>]
                                                [rtp_portend = <{(missing)}>]
                                                    [rtp_portrange = <string>]
                                                        [secondintf = <{(see Param)}>]
                                                            [sign_internal = <{(see Param)}>]
                                                                [static_intf = <{disabled|enabled}>]
                                                                    [syslogscope = <{(see Param)}>]

```

Parameters:

autofxo	Automatically make FXO calls when not registered	Optional
call-setup-failure-timeout	Timeout for the callsetup failed state (in ms). 0 means timer disabled	Optional
CCBS-invoked-timeout	Timeout for the CCBS invoked state (in ms). 0 means timer disabled	Optional
click2dial_ports	Set the click to dial port	Optional
countrycode	Local countrycode	Optional
delayed disconnect	Enable or disable the delayed disconnect feature	Optional
delayed disconnect override	Delayed disconnect override Options: <{none INVITE_no_SDP}>	Optional

voice Commands

delayed disconnecttimer	Delayed disconnect timer (seconds)	Optional
digitrelay	Set the digit relay mode Options: <{auto inband rfc2833 signalling forcedsignalling}>	Optional
endofnumber	The end of number character for dialled number starting with a cipher	Optional
feature-mngt	Feature management internal or external Options: <{internal external}>	Optional
goingonhook effect	Effect on Phones Going ONHOOK(EndActiveCall ENDALLCALLS) Options: <{endallcalls endactivecall}>	Optional
intf	The name of a IP interface to be used for VOIP traffic, NULL string to remove it. Options: <{loop Internet LocalNetwork ""}>	Optional
no-answer-timer	No answer timer	Optional
nocallsetupmsg	Send call setup message	Optional
pstnsoft switchover	Enable or disable PSTN Soft Switch Over	Optional
ring muteduration	Early media mute duration (in ms)	Optional
rtp_port		Hidden
rtp_portend		Hidden
rtp_portrange	The RTP port range <[startport]-[endport]>	Optional
secondintf	The name of a backup IP interface to be used for VOIP traffic, NULL string to remove it. Options: <{loop Internet LocalNetwork ""}>	Optional
sign_internal	Signalling for local calls is kept local or external Options: <{external internal}>	Optional
static_intf	Use a static (configured) interface to look for the IP address or not	Optional
syslogscope	Syslog Scope Options: <{none all only-stats only-dm-events only-msgs all}>	Optional

voice Commands

voice country

Following commands are available :

<code>config</code>	:	Configure country
<code>list</code>	:	Show the selected country
<code>countrylist</code>	:	List available countries

voice country config

Configure country

Syntax:

```
config country = <{(see Parameters)}>
```

Parameters:

country	Load this country's specific settings into the DSP Options: <{etsi argentina australia austria belgium brazil canada chile colombia croatia denmark cee france1 france3 germany greece greece80 hungary iceland italy macedonia macedonia_dtmf mexico netherlands newzealand1 newzealand2 northamerica norway portugal2 portugal1 ksa singapore slovenia spain sweden uk}>	Required
---------	---	----------

voice country countrylist

List available countries

Syntax:

```
countrylist
```

voice country list

Show the selected country

Syntax:

```
list
```

voice debug

Following commands are available :

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

voice debug exec

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

Syntax:

```
exec      cmd = <quoted string>  
[transparent = <{ (missing) }>]
```

Parameters:

cmd	The debug command (or help)	Required
transparent		Hidden

voice Commands

voice dhcp

Following commands are available :

<code>config</code>	: Configure the DHCP parameters
<code>list</code>	: Show the configured DHCP parameters

voice dhcp config

Configure the DHCP parameters

Syntax:

```
config          [option120effect = <{(see Param)}>]  
                [option120FQDNeffectonport = <{none|0}>]  
                [option120FQDNeffectontransport = <{(see Param)}>]
```

Parameters:

option120effect	The effect of the dynamic option 120 configuration (static dynamic) Options: <{dynamic static}>	Optional
option120FQDN effectonport	The effect of the dynamic option 120 configuration (none 0)	Optional
option120FQDN effecton transport	The effect of the dynamic option 120 configuration (none undefined) Options: <{none undefined}>	Optional

voice Commands

voice dhcp list

Show the configured DHCP parameters

Syntax:

```
list
```

voice Commands

voice dialplan

Following commands are available :

<code>add</code>	: Add an entry in the dialplan
<code>delete</code>	: Delete an entry in the dialplan
<code>modify</code>	: Modify an entry in the dialplan
<code>list</code>	: Display the complete dialplan
<code>flush</code>	: Delete all user-entered dialplan entries

voice dialplan add

Add an entry in the dialplan

Syntax:

```

add      action = <{(see Parameters)}>
          data = <{no|yes}>
          defaultport = <{FXS1|FXS2|FXO|VoIP|NA}>
          fallback = <{disabled|enabled}>
          fallbackport = <{FXS1|FXS2|FXO|VoIP|NA}>
          maximumdigits = <number{1-31}>
          minimumdigits = <number{1-31}>
          posofmodify = <number{0-31}>
          prefix = <string>
          priority = <{NA|Low|High}>
          remnumdigits = <number{0-31}>
          rescan = <{no|yes}>
          [insert = <string>]

```

Parameters:

action	Action parameter Options: <{none ROUTE_excl_eon ROUTE_incl_eon ROUTE_excl_eon_PSO ROUTE_incl_eon_PSO}>	Required
data	This entry is used for data calls or not	Required
defaultport	The default outgoing port	Required
fallback	The fallback mechanism status of this entry	Required
fallbackport	The fallback outgoing port	Required
maximumdigits	The maximum number of digits	Required
minimumdigits	The minimum number of digits	Required
posofmodify	Startposition at which a number of digits must be removed	Required
prefix	The prefix, identifies this entry	Required
priority	The priority of the entry	Required
remnumdigits	The number of digits that need to be removed from the complete number	Required
rescan	Rescanning of the number needed or not	Required
insert	String which must be inserted at PosOfModify after removing RemNumDigits	Optional

voice dialplan delete

Delete an entry in the dialplan

Syntax:

```
delete prefix = <{90|807|80|70|69|50|2}>
```

Parameters:

prefix	The prefix	Required
--------	------------	----------

voice Commands

voice dialplan flush

Delete all user-entered dialplan entries

Syntax:

```
flush
```

voice dialplan list

Display the complete dialplan

Syntax:

```
list
```

voice dialplan modify

Modify an entry in the dialplan

Syntax:

```

modify action = <{(see Parameters)}>
      data = <{no|yes}>
      defaultport = <{FXS1|FXS2|FXO|VoIP|NA}>
      fallback = <{disabled|enabled}>
      fallbackport = <{FXS1|FXS2|FXO|VoIP|NA}>
      maximumdigits = <number{1-31}>
      minimumdigits = <number{1-31}>
      newprefix = <string>
      posofmodify = <number{0-31}>
      prefix = <{90|807|80|70|69|50|2|*01*>
      priority = <{NA|Low|High}>
      remnumdigits = <number{0-31}>
      rescan = <{no|yes}>
      [insert = <string>]

```

Parameters:

action	Action parameter Options: <{none ROUTE_excl_eon ROUTE_incl_eon ROUTE_excl_eon_PSO ROUTE_incl_eon_PSO}>	Required
data	This entry is used for data calls or not	Required
defaultport	The default outgoing port	Required
fallback	The fallback mechanism status of this entry	Required
fallbackport	The fallback outgoing port	Required
maximumdigits	The maximum number of digits	Required
minimumdigits	The minimum number of digits	Required
newprefix	The prefix, identifies this entry	Required
posofmodify	Startposition at which a number of digits must be removed	Required
prefix	The prefix	Required
priority	The priority of the entry	Required
remnumdigits	The number of digits that need to be removed from the complete number	Required
rescan	Rescanning of the number needed or not	Required
insert	String which must be inserted at PosOfModify after removing RemNumDigits	Optional

voice Commands

voice dns

Following commands are available :

<code>config</code>	: Configure DNS
<code>list</code>	: Show the DNS configuration

voice dns config

Configure DNS

Syntax:

```
config [maxentries = <number{1-24}>]  
      [startentry = <{first|random}>]
```

Parameters:

maxentries	Maximum nbr of used entries in a DNS response	Optional
startentry	Entry to start with in the registration procedure	Optional

voice Commands

voice dns list

Show the DNS configuration

Syntax:

```
list
```


voice Commands

voice fax

Following commands are available :

<code>config</code>	: Configure the fax parameters
<code>list</code>	: Show the fax configuration

voice fax config

Configure the fax parameters

Syntax:

```
config [detect_timeout = <number{0-120}>]
[early-detect-faxmodem = <{enabled|disabled}>]
    [transport = <{(see Parameters)}>]
    [udptl_redun = <number{0-3}>]
    [VBDcodec = <{G711A|G711U|G711A+U}>]
```

Parameters:

detect_timeout	The time-out in seconds used to detect FAX(o is no time-out)	Optional
early-detect-faxmodem	Detect fax or modem early	Optional
transport	The type of fax transport Options: <{inband_auto inband_reneg strict-inband-reneg t38}>	Optional
udptl_redun	The number of secondary IFP packets	Optional
VBDcodec	VBDcodec to use during fax re-invite	Optional

voice fax list

Show the fax configuration

Syntax:

```
list
```

voice Commands

voice fxoport

Following commands are available :

<code>config</code>	: Configure the FXO port parameters
<code>list</code>	: Show the FXO port configuration

voice fxoport config

Configure the FXO port parameters

Syntax:

```
config [fxodisconnect = <number{500-5000}>]  
      [incfxodest = <{FXS|FXS1|FXS2|all|none}>]
```

Parameters:

fxodisconnect	The FXO disconnect timer (in ms)	Optional
incfxodest	Select destination for incoming FXO calls	Optional

voice Commands

voice fxoport list

Show the FXO port configuration

Syntax:

```
list
```

voice Commands

voice fxsport

Following commands are available :

<code>config</code>	: Configure the FXS port parameters
<code>list</code>	: Show the FXS port configuration

voice fxsport config

Configure the FXS port parameters

Syntax:

```
config [fxs1rxgain = <number{-20-20}>]
      [fxs1txgain = <number{-20-20}>]
      [fxs2rxgain = <number{-20-20}>]
      [fxs2txgain = <number{-20-20}>]
      [interdigit = <number{10-30000}>]
      [interdigitOpen = <number{10-30000}>]
      [widebandsupport = <{disabled|enabled}>]
```

Parameters:

fxs1rxgain	The FXS1 ingress Dsp gain value (in db)	Optional
fxs1txgain	The FXS1 egress Dsp gain value (in db)	Optional
fxs2rxgain	The FXS2 ingress Dsp gain value (in db)	Optional
fxs2txgain	The FXS2 egress Dsp gain value (in db)	Optional
interdigit	The interdigit timer (in ms)	Optional
interdigitOpen	The closed number interdigit timer (in ms)	Optional
wideband support	Support wideband codecs on FXS phones	Optional

voice fxsport list

Show the FXS port configuration

Syntax:

```
list
```

voice Commands

voice list

Display the general parameters

Syntax:

```
list
```

voice Commands

voice localmap

Following commands are available :

<code>add</code>	: Add a dialplan for local/internal calls
<code>delete</code>	: Remove a dialplan for local/internal calls
<code>flush</code>	: Flush all dialplan for local/internal calls
<code>modify</code>	: Modify a dialplan for local/internal calls
<code>list</code>	: List all dialplan info for local/internal calls

Following command groups are available :

`ports`

voice localmap add

Add a dialplan for local/internal calls

Syntax:

```
add name = <quoted string>  
    number = <string>  
    [hidden = <{yes|no}>]  
    [index = <{ (missing) }>]
```

Parameters:

name	The name of the local/internal call dialplan	Required
number	The number to identify the internal call dialplan	Required
hidden	should this number be hidden in internal call list	Optional
index		Hidden

voice Commands

voice localmap delete

Remove a dialplan for local/internal calls

Syntax:

```
delete index = <{0|1}>
```

Parameters:

index	The index of the local/internal call dialplan	Required
-------	---	----------

voice Commands

voice localmap flush

Flush all dialplan for local/internal calls

Syntax:

```
flush
```

voice localmap list

List all dialplan info for local/internal calls

Syntax:

```
list
```

voice localmap modify

Modify a dialplan for local/internal calls

Syntax:

```
modify index = <{0|1}>  
    [hidden = <{yes|no}>]  
    [name = <quoted string>]  
    [number = <string>]
```

Parameters:

index	The index of the local/internal call dialplan	Required
hidden	should this number be hidden in internal call list	Optional
name	The name of the local/internal call dialplan	Optional
number	The number to identify the internal call dialplan	Optional

voice localmap ports

Following commands are available :

<code>add</code>	: Add a mapping between the localmap and a port
<code>delete</code>	: Remove a mapping between the localmap and a port
<code>flush</code>	: Flush all mappings between the localmap and a port

voice localmap ports add

Add a mapping between the localmap and a port

Syntax:

```
add index = <{0|1}>  
  voiceport = <{FXS1|FXS2}>  
[portindex = <{(missing)}>]
```

Parameters:

index	The index of the local/internal call dialplan	Required
voiceport	The specific phone to be linked to the localmap	Required
portindex		Hidden

voice localmap ports delete

Remove a mapping between the localmap and a port

Syntax:

```
delete index = <{0|1}>  
voiceport = <{FXS1|FXS2}>
```

Parameters:

index	The index of the local/internal call dialplan	Required
voiceport	The specific phone to be linked to the localmap	Required

voice localmap ports flush

Flush all mappings between the localmap and a port

Syntax:

```
flush index = <{0|1}>
```

Parameters:

index	The index of the local/internal call dialplan	Required
-------	---	----------

voice Commands

voice numbertranslAC

Following commands are available :

add	: Add one number translate
delete	: Delete one number translate
list	: Show all number translate
flush	: Flush all number translate

voice numbertranslAC add

Add one number translate

Syntax:

```
add      areacode = <string>
          level   = <number>
          [action = <{showareacode|hideareacode}>]
          [delete = <number>]
[executeprefdel = <{always|insideareacode}>]
[prefix   = <string>]
```

Parameters:

areacode	Area code you want to set	Required
level	The prefix name you want to delete	Required
action	Show area code or not	Optional
delete	How many chars you want to delete	Optional
executeprefdel	When to execute prefix or delete	Optional
prefix	Prefix you like to add before area code	Optional

voice numbertranslAC delete

Delete one number translate

Syntax:

```
delete level = <number>
```

Parameters:

level	The level you want to delete	Required
-------	------------------------------	----------

voice Commands

voice numbertranslAC flush

Flush all number translate

Syntax:

```
flush
```

voice numbertranslAC list

Show all number translate

Syntax:

```
list
```

voice Commands

voice numbtransl

Following commands are available :

<code>config</code>	: Configure number translation
<code>list</code>	: Show the number translation

voice numbtransl config

Configure number translation

Syntax:

```
config [Globalnumbpostprocess = <{(see Param)}>]  
      [pbmatchlastdigits = <number>]
```

Parameters:

Globalnumb postprocess	Enables or disables the number postprocessing Options: <{disabled enabled}>	Optional
pbmatch lastdigits	Set the number of digits that are taken into account to perform PhoneBook matching	Optional

voice numbtransl list

Show the number translation

Syntax:

```
list
```

voice Commands

voice pb

Following commands are available :

`add` : Add phonebook entry in the phonebook

Following command groups are available :

`shortkey`

voice Commands

voice pb add

Add phonebook entry in the phonebook

Syntax:

```
add Firstname = <quoted string>
    Lastname = <quoted string>
    [Business = <quoted string>]
    [E-mail = <quoted string>]
    [Home = <quoted string>]
    [Mobile = <quoted string>]
    [Other = <quoted string>]
```

Parameters:

Firstname	The firstname	Required
Lastname	The lastname	Required
Business	The business number	Optional
E-mail	E-mail address	Optional
Home	The home number	Optional
Mobile	The mobile number	Optional
Other	Any other number	Optional

voice Commands

voice pb shortcutkey

Following commands are available :

add	: Add shortcutkey item
delete	: Delete shortcutkey item
modify	: Modify shortcutkey item
list	: Show all shortcuts
flush	: Flush all shortcuts

voice pb shortcutkey add

Add shortcutkey item

Syntax:

```
add enable = <{disabled|enabled}>  
    number = <string>  
    shortcutkey = <number>  
    [index = <{(missing)}>]  
    [name = <quoted string>]
```

Parameters:

enable	Enable/Disable the entry of the shortcutkey table	Required
number	The number of the shortcutkey table	Required
shortcutkey	The shortcutkey of the shortcutkey table	Required
index		Hidden
name	The name of the shortcutkey table	Optional

voice pb shortkey delete

Delete shortkey item

Syntax:

```
delete shortkey = <number>
```

Parameters:

shortkey	The Shortkey of the shortkey table	Required
----------	------------------------------------	----------

voice pb shortkey flush

Flush all shortcuts

Syntax:

```
flush
```

voice pb shortkey list

Show all shortcuts

Syntax:

```
list
```

voice pb shortkey modify

Modify shortkey item

Syntax:

```
modify Index = <{}>  
    [enable = <{disabled|enabled}>]  
    [name = <quoted string>]  
    [number = <string>]  
    [shortkey = <number>]
```

Parameters:

Index	The index of the shortkey you wish to modify	Required
enable	Enable/Disable the entry of the shortkey table	Optional
name	The name of the shortkey table	Optional
number	The number of the shortkey table	Optional
shortkey	The shortkey of the shortkey table	Optional

voice Commands

voice portmap

Following commands are available :

add	:	Add portmap
delete	:	Delete portmap
list	:	Show all portmaps
flush	:	Flush all portmap entries

voice portmap add

Add portmap

Syntax:

```
add profile = <{}>  
  voiceport = <{FXS1|FXS2}>  
  [priority = <number>]
```

Parameters:

profile	The SIP URI related to this voice port	Required
voiceport	The specific phone	Required
priority	The priority this profile has for this port	Optional

voice portmap delete

Delete portmap

Syntax:

```
delete profile = <{}>  
voiceport = <{FXS1|FXS2}>
```

Parameters:

profile	The SIP URI related to this voice port	Required
voiceport	The specific phone	Required

voice portmap flush

Flush all portmap entries

Syntax:

```
flush
```


voice portmap list

Show all portmaps

Syntax:

```
list voiceport = <{FXS1|FXS2}>
```

Parameters:

voiceport	The specific phone	Required
-----------	--------------------	----------

voice profile

Following commands are available :

<code>add</code>	: Add profile
<code>delete</code>	: Delete profile
<code>modify</code>	: Modify profile
<code>list</code>	: Show all profiles
<code>flush</code>	: Flush all profiles

voice Commands

voice profile add

Add profile

Syntax:

```
add      SIP_URI = <string>
          [abbr = <string>]
[directorynumber = <{(missing)}>]
  [displayname = <quoted string>]
    [enable = <{disabled|enabled}>]
      [Index = <{(missing)}>]
[internalnumber = <{no|yes}>]
  [linename = <string>]
  [password = <password>]
  [username = <string>]
[voiceport = <{FXS1|FXS2|COMMON}>]
```

Parameters:

SIP_URI	The SIP URI related to this voice port	Required
abbr	An abbreviated number that will be mapped to the SIP_URI	Optional
directorynumber		Hidden
displayname	An alias name for the SIP_URI	Optional
enable	Enable or disable this profile	Optional
Index		Hidden
internalnumber	Mark this profile as an internalnumber	Optional
linename	The line name to identify profile with	Optional
password	The authentication password related to this voice port	Optional
username	The authentication username related to this voice port	Optional
voiceport	The analogue line number	Optional

voice Commands

voice profile delete

Delete profile

Syntax:

```
delete SIP_URI = <string>
```

Parameters:

SIP_URI	The SIP URI related to this voice port	Required
---------	--	----------

voice profile flush

Flush all profiles

Syntax:

```
flush
```

voice profile list

Show all profiles

Syntax:

```
list
```

voice profile modify

Modify profile

Syntax:

```
modify      Index = <{}>
            [abbr = <string>]
[directorynumber = <{(missing)}>]
    [displayname = <quoted string>]
        [enable = <{disabled|enabled}>]
    [linename = <string>]
    [password = <password>]
    [SIP_URI = <string>]
    [username = <string>]
```

Parameters:

Index	The index of the profile you wish to modify	Required
abbr	An abbreviated number that will be mapped to the SIP_URI	Optional
directorynumber		Hidden
displayname	An alias name for the SIP_URI	Optional
enable	Enable or disable this profile	Optional
linename	The line name to identify profile with	Optional
password	The authentication password related to this voice port	Optional
SIP_URI	The SIP URI related to this voice port	Optional
username	The authentication username related to this voice port	Optional

voice Commands

voice qos

Following commands are available :

<code>list</code>	: Show the QOS configuration
<code>config</code>	: Configure the QOS parameters

voice qos config

Configure the QOS parameters

Syntax:

```
config dscp = <{(see Parameters)}>  
precedence = <{(see Parameters)}>  
  qosfield = <{DSCP|precedence}>  
    type = <{Signaling|Realtime}>
```

Parameters:

dscp	The DSCP value Options: <{ef af11 af12 af13 af21 af22 af23 af31 af32 af33 af41 af42 af43 cs0 cs1 cs2 cs3 cs4 cs5 cs6 cs7} or number>	Required
precedence	The precedence value Options: <{routine priority immediate flash flash-override CRITIC-ECP internetwork-control network-control} or number>	Required
qosfield	The QOS field to be used	Required
type	The type of traffic that needs qos	Required

voice Commands

voice qos list

Show the QOS configuration

Syntax:

```
list
```

voice Commands

voice ringing

Following command groups are available :

`descrtable`

`eventtable`

`patterntable`

voice ringing descrtable

Following commands are available :

<code>set</code>	: Set a specific profile for future ringing modifications (current value = all)
<code>add</code>	: Add a ringing description
<code>delete</code>	: Delete a ringing description
<code>modify</code>	: Modify ring description
<code>list</code>	: Show all ringing descriptions
<code>flush</code>	: Flush all ringing descriptions

voice ringing descrtable add

Add a ringing description

Syntax:

```
add maxduration = <number>
    ringid = <number>
    ringname = <quoted string>
    status = <{disabled|enabled}>
    [alertinfo = <quoted string>]
    [dectringentryid = <number>]
    [patternentryid = <number>]
```

Parameters:

maxduration	Max. duration	Required
ringid	Ring ID	Required
ringname	Name of the ringing	Required
status	Enable or disable this ringing	Required
alertinfo	Exact content of the linked Alert-Info header	Optional
dectringentryid	DECT ringtone identifier	Optional
patternentryid	Entry ID in pattern table	Optional

voice ringing descrtable delete

Delete a ringing description

Syntax:

```
delete ringid = <number>
```

Parameters:

ringid	Ring ID	Required
--------	---------	----------

voice ringing descrtable flush

Flush all ringing descriptions

Syntax:

```
flush
```

voice ringing descrtable list

Show all ringing descriptions

Syntax:

```
list profile = <string>
```

Parameters:

profile	Profile on which future ringing operations must be done	Required
---------	---	----------

voice ringing descrtable modify

Modify ring description

Syntax:

```
modify      ringid = <number>
            [alertinfo = <quoted string>]
            [dectringentryid = <number>]
            [maxduration = <number>]
            [patternentryid = <number>]
            [ringname = <quoted string>]
            [status = <{disabled|enabled}>]
```

Parameters:

ringid	Ring ID	Required
alertinfo	Exact content of the linked Alert-Info header	Optional
dectringentryid	DECT ringtone identifier	Optional
maxduration	Max. duration	Optional
patternentryid	Entry ID in pattern table	Optional
ringname	Name of the ringing	Optional
status	Enable or disable this ringing	Optional

voice ringing descrtable set

Set a specific profile for future ringing modifications (current value = all)

Syntax:

```
set profile = <string>
```

Parameters:

profile	Profile on which future ringing operations must be done	Required
---------	---	----------

voice ringing eventtable

Following commands are available :

<code>set</code>	:	Set a specific profile for future ringing modifications (current value = all)
<code>modify</code>	:	Modify a ringing event
<code>list</code>	:	Show all ringing events
<code>flush</code>	:	Flush all ringing events

voice ringing eventtable flush

Flush all ringing events

Syntax:

```
flush
```

voice ringing eventtable list

Show all ringing events

Syntax:

```
list profile = <string>
```

Parameters:

profile	Profile on which future ringing operations must be done	Required
---------	---	----------

voice ringing eventtable modify

Modify a ringing event

Syntax:

```
modify eventid = <number>  
        ringid = <number>
```

Parameters:

eventid	Event ID	Required
ringid	Ring ID	Required

voice ringing eventtable set

Set a specific profile for future ringing modifications (current value = all)

Syntax:

```
set profile = <string>
```

Parameters:

profile	Profile on which future ringing operations must be done	Required
---------	---	----------

voice ringing patterntable

Following commands are available :

set	: Set a specific profile for future ringing modifications (current value = all)
add	: Add a ringing pattern
delete	: Delete a ringing pattern
modify	: Modify a ringing pattern
list	: Show all ringing patterns
flush	: Flush all ringing patterns

voice ringing patterntable add

Add a ringing pattern

Syntax:

```
add duration = <number>  
        id = <number>  
        ringing = <{off|on}>  
        [nextentry = <number>]
```

Parameters:

duration	Duration (ms)	Required
id	ID of the ring pattern	Required
ringing	Enable or disable this ring	Required
nextentry	Next pattern entry	Optional

voice ringing patterntable delete

Delete a ringing pattern

Syntax:

```
delete id = <number>
```

Parameters:

id	ID of the ring pattern	Required
----	------------------------	----------

voice ringing patterntable flush

Flush all ringing patterns

Syntax:

```
flush
```

voice ringing patterntable list

Show all ringing patterns

Syntax:

```
list profile = <string>
```

Parameters:

profile	Profile on which future ringing operations must be done	Required
---------	---	----------

voice ringing patterntable modify

Modify a ringing pattern

Syntax:

```
modify id = <number>  
  [duration = <number>]  
  [nextentry = <number>]  
  [ringing = <{off|on}>]
```

Parameters:

id	ID of the ring pattern	Required
duration	Duration (ms)	Optional
nextentry	Next pattern entry	Optional
ringing	Enable or disable this ring	Optional

voice ringing patterntable set

Set a specific profile for future ringing modifications (current value = all)

Syntax:

```
set profile = <string>
```

Parameters:

profile	Profile on which future ringing operations must be done	Required
---------	---	----------

voice security

Following commands are available :

<code>config</code>	: Configure the security parameters
<code>list</code>	: Show the security configuration

voice security config

Configure the security parameters

Syntax:

```
config [antispamlevel = <{none|stickyoutbproxy}>]  
      [mediapolicy = <{none|symmetric}>]
```

Parameters:

antispamlevel	Security level to apply on incoming SIP messages	Optional
mediapolicy	Security level to apply on incoming media	Optional

voice security list

Show the security configuration

Syntax:

```
list
```

voice services

Following commands are available :

<code>list</code>	: Show the supplementary service configuration
<code>config</code>	: General supplementary service configuration
<code>servicelist</code>	: Show the supplementary service configuration
<code>provision</code>	: Provision a supplementary service
<code>withdraw</code>	: Withdraw a supplementary service
<code>activate</code>	: Activate a supplementary service
<code>deactivate</code>	: Deactivate a supplementary service
<code>assign</code>	: Assign a servicecode to a supplementary service in standard mode
<code>assign_pxsc</code>	: Assign a servicecode to a supplementary service in non_standard mode
<code>flush</code>	: Flush all supplementary services

Following command groups are available :

`soc`

voice services activate

Activate a supplementary service

Syntax:

```
activate type = <{ (see Parameters) }>  
[status = <{ (missing) }>]
```

Parameters:

type	The supplementary service type Options: <{3pty acr bargin cfbs cfnr cfu clip clir forcedFXO hold mce mwi transfer vmnr waiting warmline}>	Required
status		Hidden

voice services assign

Assign a servicecode to a supplementary service in standard mode

Syntax:

```
assign servicecode = <string>  
                    type = <{(see Parameters)}>  
    [activationcode = <{(missing)}>]
```

Parameters:

servicecode	The service activation code	Required
type	The supplementary service type Options: <{3pty acr bargin callreturn ccbs cfbs cfnr cfu clip clir forcedFXO hold internalcall mce mwi transfer vmnr waiting warmline}>	Required
activationcode		Hidden

voice services assign_pxsc

Assign a servicecode to a supplementary service in non_standard mode

Syntax:

```

assign_pxsc    action = <{(see Parameters)}>
               action_act = <{activate}>
               action_cf = <{(see Parameters)}>
               action_oncall = <{activate|deactivate}>
               type = <{(see Parameters)}>
[activate_and_regcode = <{(missing)}>]
[activationcode = <{(missing)}>]
[deactivationcode = <{(missing)}>]
[interrogationcode = <{(missing)}>]
[regcode = <{(missing)}>]
[servicecode = <string>]

```

Parameters:

action	The supplementary service action Options: <{activate deactivate interrogate}>	Required
action_act	The supplementary service action	Required
action_cf	The supplementary service action Options: <{activate deactivate register activate_and_register interrogate}>	Required
action_oncall	The supplementary service action	Required
type	The supplementary service type Options: <{3pty acr bargain callreturn ccbs cfbs cfnr cfu clip clir clironcall forcedFXO hold internalcall mce mwi transfer vmnr waiting waitingoncall warmline}>	Required
activate_ and_regcode		Hidden
activationcode		Hidden
deactivationcode		Hidden
interrogation code		Hidden
regcode		Hidden
servicecode	The service code	Optional

voice services config

General supplementary service configuration

Syntax:

```
config [aes_from_email_address = <string>]
      [aes_outg_smtp_server = <string>]
      [aes_to_email_address = <string>]
      [cfbs_dest = <string>]
      [cfnr_dest = <string>]
      [cfnr_timer = <number{0-600}>]
      [cfu_dest = <string>]
      [cw_reject_persistence = <{(see Param)}>]
      [cw_reject_scope = <{(see Param)}>]
      [cw_timer = <number{0-120}>]
      [hfhf_feature = <{(see Param)}>]
      [mwi_network = <{(see Param)}>]
      [mwi_phone = <{(see Param)}>]
      [prefix_servcode = <{(see Param)}>]
      [servcode_cmd = <{(see Param)}>]
      [transfer3ptywhenonhook = <{(see Param)}>]
      [vmnr_timer = <number{0-600}>]
      [voice_mail_size_limit = <number>]
      [warm-line-dest = <string>]
      [warm-line-timer = <number{1-60}>]
```

Parameters:

aes_from_email_address	The from email address for the AES services	Optional
aes_outg_smtp_server	The FQDN or IP address of your ISPs outgoing SMTP server	Optional
aes_to_email_address	The to email address for the AES services	Optional
cfbs_dest	The destination for the CFBS service	Optional
cfnr_dest	The destination for the CFNR service	Optional
cfnr_timer	The CFNR timer value	Optional
cfu_dest	The destination for the CFU service	Optional
cw_reject_persistence	Enable/disable cw_reject_persistence Options: <{disabled enabled}>	Optional
cw_reject_scope	The scope of the rejection when the huntgroup is involved Options: <{specific common}>	Optional
cw_timer	The CW timer value	Optional

voice Commands

hfhf_feature	Enable/disable hfhf_feature Options: <{disabled enabled}>	Optional
mwi_network	The way the network protocol implements the message waiting indication service Options: <{sollicited unsollicited}>	Optional
mwi_phone	The way the phone reacts on a message waiting indication Options: <{immediate deferred both}>	Optional
prefix_servcode	The way the service codes are assigned Options: <{standard nonstandard}>	Optional
servcode_cmd	The way the service code command is used Options: <{standard nonstandard}>	Optional
transfer3pty whenonhook	Enable/disable transfer when going on hook when involved in 3pty call Options: <{disabled enabled}>	Optional
vmnr_timer	The VMNR timer value	Optional
voice_mail_ size_limit	The size limit of VoiceMail	Optional
warm-line-dest	The destination for the Warm-line service	Optional
warm-line-timer	The Warm-line timer value	Optional

voice services deactivate

Deactivate a supplementary service

Syntax:

```
deactivate type = <{(see Parameters)}>  
[status = <{(missing)}>]
```

Parameters:

type	The supplementary service type Options: <{3pty acr bargin cfbs cfnr cfu clip clir forcedFXO hold mce mwi transfer vmnr waiting warmline}>	Required
status		Hidden

voice services flush

Flush all supplementary services

Syntax:

```
flush
```

voice services list

Show the supplementary service configuration

Syntax:

```
list
```

voice services provision

Provision a supplementary service

Syntax:

```
provision type = <{(see Parameters)}>  
[provision = <{(missing)}>]
```

Parameters:

type	The supplementary service type Options: <{3pty acr bargin callreturn ccbs cfbs cfnr cfu clip clir forcedFXO hold internalcall mce mwi transfer vmnr waiting warmline}>	Required
provision		Hidden

voice services servicelist

Show the supplementary service configuration

Syntax:

```
servicelist
```

voice Commands

voice services soc

Following commands are available :

<code>config</code>	: General switching order configuration
<code>list</code>	: Show the switching order configuration
<code>modify</code>	: Configure switching order codes
<code>soclist</code>	: Show the switching order codes

voice services soc config

General switching order configuration

Syntax:

```
config [Registerrecalltimer = <number{0-60}>]
```

Parameters:

Register recalltimer	The Register recall timer value in seconds	Optional
-------------------------	--	----------

voice services soc list

Show the switching order configuration

Syntax:

```
list
```

voice services soc modify

Configure switching order codes

Syntax:

```
modify function = <{(see Parameters)}>  
SOC = <{HF|HF1|HF2|HFTO|HFTOorHF2|HF3}>
```

Parameters:

function	Switching function Options: <{HoldActiveCallAndEnableCallSetup NoActiveCallRetrieveHeld Establish3Party DropLastPartyFrom3Party SwitchBetweenActiveAndHeld SwitchBetweenActiveAndWaiting}>	Required
SOC	Switching order code	Required

voice services soc soclist

Show the switching order codes

Syntax:

```
soclist
```

voice services withdraw

Withdraw a supplementary service

Syntax:

```
withdraw type = <{(see Parameters)}>  
[provision = <{(missing)}>]
```

Parameters:

type	The supplementary service type Options: <{3pty acr bargin callreturn ccbs cfbs cfnr cfu clip clir forcedFXO hold internalcall mce mwi transfer vmnr waiting warmline}>	Required
provision		Hidden

voice Commands

voice sip

Following commands are available :

`config` : Configure the SIP general parameters
`list` : Display the SIP general parameters

Following command groups are available :

`inboundauth` `responsemap` `sdp`

voice sip config

Configure the SIP general parameters

Syntax:

```

config          [400503waiting = <{(see Param)}>]
                [401407waiting = <{(see Param)}>]
                [403waiting = <{(see Param)}>]
                [clip_consider_displayname = <{no|yes}>]
                [clirformat = <{(see Param)}>]
                [CWrejectreply = <{480|486}>]
                [CWreply = <{182|180}>]
                [distinct_t38_port = <{(see Param)}>]
                [DTMF*#inINFO = <{*#|1011}>]
                [earlymedia = <{(see Param)}>]
                [expires = <number{0-3600}>]
                [failbehaviour = <{(see Param)}>]
                [MethodUpdate = <{(see Param)}>]
                [min-se = <{(see Param)}>]
                [mwi-resubscribe-delay = <{(see Param)}>]
                [no-answer-reply = <{480|486}>]
                [notifier_addr = <string>]
                [notifier_port = <{(see Param)}>]
                [other4xx5xx6xxwaiting = <{(see Param)}>]
                [ping = <{(see Param)}>]
                [PRACK = <{(see Param)}>]
                [primproxyaddr = <string>]
                [primregaddr = <string>]
                [privacy = <{(see Param)}>]
                [provisional_timer = <number{0-3600}>]
                [proxyport = <{(see Param)}>]
                [realm = <quoted string>]
                [realmcheck = <{(see Param)}>]
                [regexpire = <{(see Param)}>]
                [regexpire_Tbefore = <{(see Param)}>]
                [register-backoff-timer = <{(see Param)}>]
                [regpersistency = <{(see Param)}>]
                [regport = <{(see Param)}>]
                [reinvite_at_cgfax_detect = <{(see Param)}>]
                [reinvite_stop_audio = <{(see Param)}>]
                [replace# = <{(see Param)}>]
                [response420 = <{(see Param)}>]
                [ringtoneat183 = <{(missing)}>]
                [rport = <{(see Param)}>]
                [rtpmapstaticPT = <{(see Param)}>]
                [sdp_ptime = <{(see Param)}>]
                [SDP_username = <string>]

```

(cont.)

Syntax 'voice sip config' cont.:

```
[SDP_username_per_UA = <{(see Param)}>]
[secproxyaddr = <string>]
[secproxyport = <{(see Param)}>]
[secregaddr = <string>]
[session-expires = <{(see Param)}>]
[SIPURI_port = <{(see Param)}>]
[SIPURIsupport = <{legacy|TR104}>]
[stickyoutbproxy = <{(see Param)}>]
[stop_register_on_403 = <{(see Param)}>]
[stop_register_on_408 = <{(see Param)}>]
[stop_register_on_timerfexpired = <{(see Param)}>]
[subscribe_expire = <{(see Param)}>]
[symmetriccodec = <{(see Param)}>]
[t38portincrement = <{(see Param)}>]
[timer_f_expired_waiting = <{(see Param)}>]
[timert1 = <{(see Param)}>]
[timert2 = <{(see Param)}>]
[timertb = <{(see Param)}>]
[timertf = <{(see Param)}>]
[transport = <{(see Param)}>]
[transport_in_contact = <{(see Param)}>]
[useragentdomain = <string>]
```

Parameters:

400503waiting	Time in sec. before a new registration attempt (0 = no wait) Options: <number{0-86400}>	Optional
401407waiting	Time in sec. before a new registration (if 0, stops) Options: <number{0-86400}>	Optional
403waiting	Time in sec. before retrying after a 403 response Options: <number{0-86400}>	Optional
clip_consider_displayname	Consider the displayname for CLIP or not	Optional
clirformat	The clir format Options: <{standard nonstandard}>	Optional
CWrejectreply	CW reject reply	Optional
CWreply	The reply to be sent for a waiting call (180/182)	Optional
distinct_t38_port	Used distinct port for T38 Options: <{disabled enabled}>	Optional
DTMF*#inINFO	Format used for */# in INFO method	Optional
earlymedia	Set the early media mode Options: <{enable disable disable180withoutdsdp}>	Optional
expires	The INVITE expires timer.	Optional
failbehaviour	Behaviour on failed INVITE: re-register (stop) or	Optional

voice Commands

	use DNS logic (continue) Options: <{stop continue}>	
MethodUpdate	Enable or disable Update Method Options: <{disabled enabled}>	Optional
min-se	The minimum session expires timer. Options: <number{0-604800}>	Optional
mwi-resubscribe-delay	Delay between 2 un-answered MWI subscribe requests Options: <number{0-86400}>	Optional
no-answer-reply	No answer reply	Optional
notifier_addr	Notifier address or FQDN used for MWI	Optional
notifier_port	Notifier port used for MWI 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat talk telnet time timed tftp ulistserv utime uucp uucp-rlogin who www-http whoami xwindows}> or number>	Optional
other4xx5xx6xx waiting	Time in sec. before retrying after a 4xx/5xx/6xx resp. Options: <number{0-86400}>	Optional
ping	Time between two keepalive ping requests. Options: <number{0-86400}>	Optional
PRACK	No support , support or required provisional responses Options: <{disabled enabled unsupported supported required}>	Optional
primproxyaddr	Primary outbound proxy address or FQDN	Optional
primregaddr	Primary registrar address or domain	Optional
privacy	The privacy type can be ignore, strict or loose. Options: <{ignore strict loose}>	Optional
provisional_timer	Set provisional timer	Optional
proxyport	Primary outbound proxy 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	Optional

	ipcsrvr ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfsd nickname 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>	
realm	Realm to be used in outbound and inbound authentication	Optional
realmcheck	Should realm be checked on authentication Options: <{disabled enabled}>	Optional
regexpire	The registration expire time Options: <number{60-86400}>	Optional
regexpire_ Tbefore	Time to send new registration request before registration expires Options: <number{1-86400}>	Optional
register-backoff- timer	Fixed backoff timer in registration procedure Options: <number{0-86400}>	Optional
regpersistency	number of times UA registration stays with the last known good proxy address. <disabled permanent> or <value>. Options: <{disabled permanent}>	Optional
regport	Registrar 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 ipcsrvr ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfsd nickname 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
reinvite_at_ cgfax_detect	Send re_invite when calling fax is detected Options: <{enabled disabled}>	Optional
reinvite_ stop_audio	Explicitly stop audio stream in the SDP when sending a re-invite Options: <{disabled enabled}>	Optional
replace#	Enable or disable the # in INVITE to be replaced by %23 Options: <{enabled disabled}>	Optional
response420	Enable or disable sip 420 bad extension response	Optional

	when receiving bad extensions Options: <{disabled enabled}>	
ringtoneat183		Hidden
rport	Enable or disable the parameter rport Options: <{enabled disabled}>	Optional
rtpmapstaticPT	Enable or disable adding RTP map i.c.o. static PT Options: <{disabled enabled}>	Optional
sdp_ptime	The packet time used in the SDP message Options: <{10 20 30 notsent}>	Optional
SDP_username	SDP user name	Optional
SDP_username_per_UA	SDP user name per ua Options: <{disabled enabled}>	Optional
secproxyaddr	Secondary outbound proxy address or FQDN	Optional
secproxyport	Secondary outbound proxy 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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfsd nickname 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
secregaddr	Secondary registrar address or domain	Optional
session-expires	The session expires timer. Options: <number{0-604800}>	Optional
SIPURI_port	Enable or disable the SIPURI port Options: <{enabled disabled}>	Optional
SIPURIsupport	SIPURI support legacy or TR104	Optional
stickyoutbproxy	Outband proxy lock over transactions Options: <{disabled enabled}>	Optional
stop_register_on_403	Stop register on 403 Options: <{disabled enabled}>	Optional
stop_register_on_408	Stop register on 408 Options: <{disabled enabled}>	Optional
stop_register_on_timerf_expired	Stop register on Timer F expired Options: <{disabled enabled}>	Optional
subscribe_expire	The subscription expire time Options: <number{60-86400}>	Optional

voice Commands

symmetriccodec	Enable or disable symmetric codecs Options: <{enabled disabled}>	Optional
t38port increment	Offset of T38 port number vs RTP port number. Options: <number{0-65535}>	Optional
timer_f_expired _waiting	Time in sec. before retrying after timer f expired Options: <number{0-86400}>	Optional
timert1	The T1 expires timer. Options: <number{1-1048575}>	Optional
timert2	The T2 expires timer. Options: <number{1-1048575}>	Optional
timertb	The Timer B expires timer. Options: <number{1-1048575}>	Optional
timertf	The Timer F expires timer. Options: <number{1-1048575}>	Optional
transport	The transport type Options: <{undefined UDP TCP TLS}>	Optional
transport_in_ contact	Transporttype in contact header Options: <{disabled enabled}>	Optional
useragent domain	User Agent domain	Optional

voice Commands

voice sip inboundauth

Following commands are available :

<code>config</code>	: Configure which methods should be authenticated
<code>list</code>	: List the methods

voice sip inboundauth config

Configure which methods should be authenticated

Syntax:

```
config [noncelifetime = <number{1-86400}>]  
      [UPDATE = <{disabled|enabled}>]
```

Parameters:

noncelifetime	maximum lifetime of a nonce	Optional
UPDATE		Optional

voice sip inboundauth list

List the methods

Syntax:

```
list
```

voice Commands

voice sip list

Display the SIP general parameters

Syntax:

```
list
```

voice Commands

voice sip responsemap

Following commands are available :

<code>add</code>	: Add a SIP response
<code>delete</code>	: Delete a SIP response
<code>modify</code>	: Modify a SIP response
<code>list</code>	: Show all SIP responses
<code>flush</code>	: Flush all SIP responses

voice sip responsemap add

Add a SIP response

Syntax:

```
add responsecode = <string>  
                tone = <{(see Parameters)}>  
                [textmessage = <quoted string>]
```

Parameters:

responsecode	SIP Response Code	Required
tone	Tone to be played Options: <{dial none remotecallhold callhold remotecallwaiting callwaiting rejection confirmation release warning congestion busy ringback mwi specialdial stutterdial bargain}>	Required
textmessage	Text message to display	Optional

voice sip responsemap delete

Delete a SIP response

Syntax:

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

Parameters:

responsecode	SIP Response Code	Required
	Options: <{1xx 180 181 182 183 2xx 3xx 4xx 486 5xx 6xx}>	

voice sip responsemap flush

Flush all SIP responses

Syntax:

```
flush
```

voice sip responsemap list

Show all SIP responses

Syntax:

```
list
```

voice sip responsemap modify

Modify a SIP response

Syntax:

```
modify responsecode = <{(see Parameters)}>  
    [textmessage = <quoted string>]  
    [tone = <{(see Parameters)}>]
```

Parameters:

responsecode	SIP Response Code Options: <{1xx 180 181 182 183 2xx 3xx 4xx 486 5xx 6xx}>	Required
textmessage	Text message to display	Optional
tone	Tone to be played Options: <{dial none remotecallhold callhold remotecallwaiting callwaiting rejection confirmation release warning congestion busy ringback mwi specialdial stutterdial bargain}>	Optional

voice Commands

voice sip sdp

Following commands are available :

`config` : Configure the SDP general parameters
`list` : List the SDP general parameters

Following command groups are available :

`annexa` `annexb` `silencesupp` `vad`

voice Commands

voice sip sdp annexa

Following commands are available :

`config` : Configure the SDP AnnexA parameters

voice sip sdp annexa config

Configure the SDP AnnexA parameters

Syntax:

```
config [scopeadd = <{g723-1}>]  
       [scopedel = <{g723-1}>]
```

Parameters:

scopeadd	Scope add list	Optional
scopedel	Scope del list	Optional

voice Commands

voice sip sdp annexb

Following commands are available :

`config` : Configure the SDP annexb parameters

voice sip sdp annexb config

Configure the SDP annexb parameters

Syntax:

```
config [scopeadd = <{g729}>]  
      [scopedel = <{g729}>]
```

Parameters:

scopeadd	Scope add list	Optional
scopedel	Scope del list	Optional

voice sip sdp config

Configure the SDP general parameters

Syntax:

```
config [callholddirection = <{sendonly|inactive}>]  
[remotesupportsilencesupp = <{(see Parameters)}>]  
[versioncheck = <{no|yes}>]
```

Parameters:

callholddirection	Call Hold Direction	Optional
remotesupport silencesupp	Remote support SilenceSupp Options: <{on-specified off-not-specified}>	Optional
versioncheck	Check version in SDP header	Optional

voice sip sdp list

List the SDP general parameters

Syntax:

```
list
```

voice Commands

voice sip sdp silencesupp

Following commands are available :

`config` : Configure the SDP Silence Supp parameters

voice sip sdp silencesupp config

Configure the SDP Silence Supp parameters

Syntax:

```
config [priority = <{off|on}>]  
      [scopeadd = <{g711|g726|g723-1|g729}>]  
      [scopedel = <{g711|g726|g723-1|g729}>]
```

Parameters:

priority	silenceSupp priority	Optional
scopeadd	Scope add list	Optional
scopedel	Scope del list	Optional

voice Commands

voice sip sdp vad

Following commands are available :

`config` : Configure the SDP Vad parameters

voice sip sdp vad config

Configure the SDP Vad parameters

Syntax:

```
config [scope = <{(missing)}>]  
    [scopeadd = <{g711|g726}>]  
    [scopedel = <{g711|g726}>]
```

Parameters:

scope		Hidden
scopeadd	Scope add list	Optional
scopedel	Scope del list	Optional

voice Commands

voice state

show VOIP service states

Syntax:

```
state
```

voice Commands

voice stats

Following commands are available :

<code>list</code>	: Show voice statistics
<code>reset</code>	: Reset voice statistics

voice stats list

Show voice statistics

Syntax:

```
list          type = <{detailed|generic|all}>
              voiceport = <{FXS1|FXS2|all}>
[FailedOutCalls = <{ (missing) }>]
[MissedInCalls = <{ (missing) }>]
[SuccessInCalls = <{ (missing) }>]
[SuccessOutCalls = <{ (missing) }>]
[TotalInCalls = <{ (missing) }>]
[TotalOutCalls = <{ (missing) }>]
```

Parameters:

type	Type of statistics to be listed/reset	Required
voiceport	The voice port used to get/reset the statistics	Required
FailedOutCalls		Hidden
MissedInCalls		Hidden
SuccessInCalls		Hidden
SuccessOutCalls		Hidden
TotalInCalls		Hidden
TotalOutCalls		Hidden

voice stats reset

Reset voice statistics

Syntax:

```
reset          type = <{detailed|generic|all}>
               voiceport = <{FXS1|FXS2|all}>
               [FailedOutCalls = <{ (missing) }>]
               [MissedInCalls = <{ (missing) }>]
               [SuccessInCalls = <{ (missing) }>]
               [SuccessOutCalls = <{ (missing) }>]
               [TotalInCalls = <{ (missing) }>]
               [TotalOutCalls = <{ (missing) }>]
```

Parameters:

type	Type of statistics to be listed/reset	Required
voiceport	The voice port used to get/reset the statistics	Required
FailedOutCalls		Hidden
MissedInCalls		Hidden
SuccessInCalls		Hidden
SuccessOutCalls		Hidden
TotalInCalls		Hidden
TotalOutCalls		Hidden

voice Commands

voice tone

Following command groups are available :

`descrtable`

`eventtable`

`patterntable`

voice Commands

voice tone descrtable

Following commands are available :

<code>add</code>	: Add tone description
<code>delete</code>	: Delete tone description
<code>modify</code>	: Modify tone description
<code>list</code>	: Show all tone descriptions
<code>flush</code>	: Flush all tone descriptions

voice tone descrtable add

Add tone description

Syntax:

```
add          delay = <number>
             repeatafter = <number>
             status = <{disabled|enabled}>
             text = <quoted string>
             tone = <string>
             [file = <string>]
             [filerepeat = <number>]
             [maxduration = <number>]
             [nexttone = <string>]
             [patternentryid = <number>]
```

Parameters:

delay	Delay (in ms)	Required
repeatafter	Time after which the tone must be repeated (in ms)	Required
status	Enable or disable this tone	Required
text	Text to display on the phone	Required
tone	Name of the tone	Required
file	Audio file name	Optional
filerepeat	File repetitions	Optional
maxduration	Max. duration	Optional
nexttone	Name of the tone	Optional
patternentryid	Entry ID in pattern table	Optional

voice tone descrtable delete

Delete tone description

Syntax:

```
delete tone = <{bargain}>
```

Parameters:

tone	Name of the tone	Required
------	------------------	----------

voice tone descrtable flush

Flush all tone descriptions

Syntax:

```
flush
```

voice tone descrtable list

Show all tone descriptions

Syntax:

```
list
```


voice tone descrtable modify

Modify tone description

Syntax:

```

modify      tone = <{(see Parameters)}>
            [delay = <number>]
            [file = <string>]
            [filerepeat = <number>]
            [maxduration = <number>]
            [nexttone = <string>]
            [patternentryid = <number>]
            [repeatafter = <number>]
            [status = <{disabled|enabled}>]
            [text = <string>]

```

Parameters:

tone	Name of the tone Options: <{dial none remotecallhold callhold remotecallwaiting callwaiting rejection confirmation release warning congestion busy ringback mwi specialdial stutterdial bargin}>	Required
delay	Delay (in ms)	Optional
file	Audio file name	Optional
filerepeat	File repetitions	Optional
maxduration	Max. duration	Optional
nexttone	Name of the tone	Optional
patternentryid	Entry ID in pattern table	Optional
repeatafter	Time after which the tone must be repeated (in ms)	Optional
status	Enable or disable this tone	Optional
text	Text to display on the phone	Optional

voice tone eventtable

Following commands are available :

<code>modify</code>	:	Modify tone event
<code>list</code>	:	Show all tone events
<code>flush</code>	:	Flush all tone events

voice tone eventtable flush

Flush all tone events

Syntax:

```
flush
```

voice tone eventtable list

Show all tone events

Syntax:

```
list
```

voice tone eventtable modify

Modify tone event

Syntax:

```
modify eventid = <{(see Parameters)}>  
           tone = <{(see Parameters)}>
```

Parameters:

eventid	Event ID Options: <{1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 101 102 103 104 105 106 107 108 201 202 203 204 205 301 302 305 401 402 403 404 405 406 407 408 409 410 501 502 503 999}>	Required
tone	Tone to play for this event Options: <{dial none remotecallhold callhold remotecallwaiting callwaiting rejection confirmation release warning congestion busy ringback mwi specialdial stutterdial bargain}>	Required

voice tone patterntable

Following commands are available :

<code>add</code>	: Add tone pattern
<code>delete</code>	: Delete tone pattern
<code>modify</code>	: Modify tone pattern
<code>list</code>	: Show all tone patterns
<code>flush</code>	: Flush all tone patterns

voice tone patterntable add

Add tone pattern

Syntax:

```

add                id = <number>
                   tone = <{off|on}>
                   [duration = <number>]
                   [freq1 = <number>]
                   [freq2 = <number>]
                   [freq3 = <number>]
                   [freq4 = <number>]
                   [maxloops = <number>]
                   [nextentry = <number>]
[nextentryafterloops = <number>]
                   [power1 = <number>]
                   [power2 = <number>]
                   [power3 = <number>]
                   [power4 = <number>]

```

Parameters:

id	ID of the tone pattern	Required
tone	Enable or disable this tone	Required
duration	Duration (ms)	Optional
freq1	Frequency 1	Optional
freq2	Frequency 2	Optional
freq3	Frequency 3	Optional
freq4	Frequency 4	Optional
maxloops	Max loops	Optional
nextentry	Next pattern entry	Optional
nextentry afterloops	Next entry after loops	Optional
power1	Power 1	Optional
power2	Power 2	Optional
power3	Power 3	Optional
power4	Power 4	Optional

voice tone patterntable delete

Delete tone pattern

Syntax:

```
delete    id = <{(see Parameters)}>  
[endentryid = <{(see Parameters)}>]
```

Parameters:

id	ID of the tone pattern Options: <{1 2 11 12 13 21 22 31 41 42 51 61 62 63 71 72 81 82 83 84 91 92 101 102 103 104 111 112 121 131 132 141 142 151 161 32 200 201 202 203 250 251 260 261 300 301}>	Required
endentryid	ID of the tone pattern Options: <{1 2 11 12 13 21 22 31 41 42 51 61 62 63 71 72 81 82 83 84 91 92 101 102 103 104 111 112 121 131 132 141 142 151 161 32 200 201 202 203 250 251 260 261 300 301}>	Optional

voice Commands

voice tone patterntable flush

Flush all tone patterns

Syntax:

```
flush
```

voice tone patterntable list

Show all tone patterns

Syntax:

```
list
```

voice tone patterntable modify

Modify tone pattern

Syntax:

```

modify          id = <{(see Parameters)}>
                [duration = <number>]
                [freq1 = <number>]
                [freq2 = <number>]
                [freq3 = <number>]
                [freq4 = <number>]
                [maxloops = <number>]
                [nextentry = <number>]
                [nextentryafterloops = <number>]
                [power1 = <number>]
                [power2 = <number>]
                [power3 = <number>]
                [power4 = <number>]
                [tone = <{off|on}>]

```

Parameters:

id	ID of the tone pattern Options: <{1 2 11 12 13 21 22 31 41 42 51 61 62 63 71 72 81 82 83 84 91 92 101 102 103 104 111 112 121 131 132 141 142 151 161 32 200 201 202 203 250 251 260 261 300 301}>	Required
duration	Duration (ms)	Optional
freq1	Frequency 1	Optional
freq2	Frequency 2	Optional
freq3	Frequency 3	Optional
freq4	Frequency 4	Optional
maxloops	Max loops	Optional
nextentry	Next pattern entry	Optional
nextentry afterloops	Next entry after loops	Optional
power1	Power 1	Optional
power2	Power 2	Optional
power3	Power 3	Optional
power4	Power 4	Optional
tone	Enable or disable this tone	Optional

voice Commands

voice uamap

Following commands are available :

add	:	Add uamap
delete	:	Delete uamap
list	:	Show all uamaps
flush	:	Flush all uamap entries

voice Commands

voice uamap add

Add uamap

Syntax:

```
add profile = <{}>  
voiceport = <{FXS1|FXS2}>
```

Parameters:

profile	The SIP URI related to this voice port	Required
voiceport	The specific phone	Required

voice uamap delete

Delete uamap

Syntax:

```
delete profile = <{}>  
voiceport = <{FXS1|FXS2}>
```

Parameters:

profile	The SIP URI related to this voice port	Required
voiceport	The specific phone	Required

voice Commands

voice uamap flush

Flush all uamap entries

Syntax:

```
flush
```

voice uamap list

Show all uamaps

Syntax:

```
list [profile = <{}>]
```

Parameters:

profile	User Agent index	Optional
---------	------------------	----------

wansensing Commands

wansensing

Following commands are available :

<code>config</code>	:	Configure parameters
<code>flush</code>	:	Clean configuration
<code>list</code>	:	Display parameters
<code>requestmode</code>	:	Request to enter certain mode

Following command groups are available :

<code>debug</code>	<code>mode</code>
--------------------	-------------------

wansensing config

Configure parameters

Syntax:

```
config [errorinterval = <number>]
      [errorscrip = <string>]
      [state = <{disabled|enabled}>]
```

Parameters:

errorinterval	Error interval value	Optional
errorscrip	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}>]
```

Parameters:

state	Enable/disable	Optional
-------	----------------	----------

wansensing flush

Clean configuration

Syntax:

```
flush
```

wansensing list

Display parameters

Syntax:

```
list
```

wansensing mode

Following commands are available :

<code>list</code>	:	List all modes
<code>add</code>	:	Add mode
<code>delete</code>	:	Delete mode

wansensing mode add

Add mode

Syntax:

```
add maininterval = <number>
      name = <string>
      scriptname = <string>
      [redirectgui = <{disabled|enabled}>]
```

Parameters:

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>
```

Parameters:

name	Mode name	Required
------	-----------	----------

wansensing mode list

List all modes

Syntax:

```
list
```

wansensing requestmode

Request to enter certain mode

Syntax:

```
requestmode mode = <string>
```

Parameters:

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 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>
```

Parameters:

commonname	CommonName	Required
------------	------------	----------

webserver ssl commonname delete

Delete an option.

Syntax:

```
delete id = <string>
```

Parameters:

id	id	Required
----	----	----------

webserver ssl commonname list

List all options.

Syntax:

```
list
```

wireless Commands

wireless

Following commands are available :

<code>radio</code>	: Configures radio settings.
<code>reset</code>	: Reset Wireless interface settings to defaults
<code>flush</code>	: Flush all wireless dynamic contextes (command is hidden)
<code>ifconfig</code>	: Configures wireless settings. (command is hidden)

Following command groups are available :

<code>acs</code>	<code>debug</code>	<code>macacl</code>	<code>mssid</code>
<code>qos</code>	<code>stations</code>	<code>wps</code>	<code>eco</code>
<code>multiuni</code>	<code>qual</code>	<code>secmode</code>	

wireless acs

Following commands are available :

`config` : ACS configuration
`scanhistory` : ACS scanhistory

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)}>]

```

Parameters:

autoscanreport	ACS auto scan report generation	Optional
ccathreshold	ACS cca threshold	Optional
channelscantime	ACS channelscantime	Optional
failiteration	ACS failiteration	Optional
glitchthreshold	ACS glitch 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 :

<code>rescan</code>	: ACS perform automatic channel selection
<code>scan</code>	: ACS netowrk scan
<code>scanreport</code>	: ACS scanresults
<code>triggerdump</code>	: driver detailed counter stats

wireless acs debug rescan

ACS perform automatic channel selection

Syntax:

```
rescan [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless acs debug scan

ACS netowrk scan

Syntax:

```
scan [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless acs debug scanreport

ACS scanresults

Syntax:

```
scanreport [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless acs debug triggerdump

driver detailed counter stats

Syntax:

```
triggerdump [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless acs scanhistory

ACS scanhistory

Syntax:

```
scanhistory [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless debug

Following commands are available :

<code>stats</code>	: Transfer statistics
<code>hwdump</code>	: 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 :

<code>config</code>	: ECO configuration
<code>dump</code>	: ECO dump config
<code>suspend</code>	: ECO suspend
<code>resume</code>	: ECO resume
<code>traceconfig</code>	: ECO trace
<code>stats</code>	: ECO stats

Note: wireless eco is missing from the ':help wireless' group list

wireless eco config

ECO configuration

Syntax:

```
config [fastradiotoggle = <{disabled|enabled}>]
      [radio_id = <number{0-9999}>]
      [singlerxchain = <{disabled|enabled}>]
      [slowradiotoggle = <{disabled|enabled}>]
      [state = <{enabled|disabled}>]
      [text = <number{2-600}>]
      [toff = <number{4-600}>]
      [ton = <number{4-600}>]
```

Parameters:

fastradiotoggle	Fast radio toggling	Optional
radio_id	radio	Optional
singlerxchain	Use single rx chain	Optional
slowradiotoggle	Slow radio toggling	Optional
state	ECO SM configuration	Optional
text	text	Optional
toff	ton	Optional
ton	ton	Optional

wireless eco dump

ECO dump config

Syntax:

```
dump [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless eco resume

ECO resume

Syntax:

```
resume [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless eco stats

ECO stats

Syntax:

```
stats [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless eco suspend

ECO suspend

Syntax:

```
suspend [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless eco traceconfig

ECO trace

Syntax:

```
traceconfig smtrace = <{disabled|enabled}>  
[radio_id = <number{0-9999}>]
```

Parameters:

smtrace	tracing	Required
radio_id	radio	Optional

wireless Commands

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 = <{(missing)}>]
               [flags = <{(missing)}>]
[frameaggregation = <{(missing)}>]
  [frameburst = <{disabled|enabled}>]
  [interop = <{802.11b/g|802.11b/g/n}>]
  [locale = <{(missing)}>]
  [lrl = <{(missing)}>]
  [protection = <{(missing)}>]
  [protmode = <{(missing)}>]
[prottrigger = <{(missing)}>]
  [rateset = <{(missing)}>]
  [rts = <{(missing)}>]
  [shortslot = <{(missing)}>]
  [srl = <{(missing)}>]
  [ssid = <quoted string>]
  [state = <{enabled|disabled}>]

```

Parameters:

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

wireless Commands

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 :

<code>config</code>	: Access Control List configuration
<code>register</code>	: Start a registration process (only for register mode)
<code>add</code>	: Add an ACL MAC entry
<code>modify</code>	: Modify an ACL entry
<code>delete</code>	: Delete an ACL MAC entry
<code>list</code>	: Shows a list of all configured ACL entries
<code>flush</code>	: Flushes ACL entries

wireless macacl add

Add an ACL MAC entry

Syntax:

```
add hwaddr = <hardware-address>
permission = <{allow|deny}>
    [name = <quoted string>]
    [radio_id = <number{0-9999}>]
    [ssid_id = <number{0-9999}>]
```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

radio_id	radio	Optional
ssid_id	ssid id	Optional

wireless macacl modify

Modify an ACL entry

Syntax:

```
modify hwaddr = <hardware-address>
    [name = <quoted string>]
    [permission = <{allow|deny}>]
    [radio_id = <number{0-9999}>]
    [ssid_id = <number{0-9999}>]
```

Parameters:

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}>]
```

Parameters:

proceed	Confirmation required	Required
radio_id	radio	Optional
ssid_id	ssid id	Optional

wireless mssid

Following commands are available :

<code>iflist</code>	: Multiple ssid configuration
<code>ifadd</code>	: Add an extra ssid context
<code>ifdelete</code>	: Delete a ssid context
<code>ifconfig</code>	: Configure a ssid context
<code>ifattach</code>	: Attach a ssid context
<code>ifdetach</code>	: Detach a ssid context

wireless mssid ifadd

Add an extra ssid context

Syntax:

```
ifadd [radio_id = <number{0-9999}>]  
      [ssid = <quoted string>]
```

Parameters:

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}>]
```

Parameters:

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}>]

```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

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}>]
```

Parameters:

radio_id	radio	Optional
ssid_id	ssid	Optional

wireless multiuni

Following commands are available :

<code>scanresults</code>	: display detected multicast mac addresses
<code>add</code>	: add a multicast to unicast mapping
<code>delete</code>	: delete all multicast mappings
<code>list</code>	: show configured multicast to unicast mappings
<code>flush</code>	: 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>
```

Parameters:

multicast	Multicast MAC	Required
unicast	Unicast MAC	Required

wireless multiuni delete

delete all multicast mappings

Syntax:

```
delete multicast = <hardware-address>
```

Parameters:

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 :

<code>config</code>	:	configure QoS settings
<code>apacconfig</code>	:	configure AP EDCA parameters
<code>staacconfig</code>	:	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>]

```

Parameters:

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:

```
config [ackpolicy = <{ (missing) }>]
      [apsd = <{ (missing) }>]
      [mode = <{disabled|wmm}>]
      [radio_id = <number{0-9999}>]
```

Parameters:

ackpolicy		Hidden
apsd		Hidden
mode	WMM active	Optional
radio_id	radio	Optional

wireless qos staaconfig

configure STA EDCA parameters

Syntax:

```
staaconfig [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>]
```

Parameters:

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	: wl up
down	: wl down
out	: wl out
renewssid	: renew ssid
txant	: wl txant
antdiv	: wl antdiv
fqacursy	: wl fqacursy
txrate	: wl txrate
txpower	: wl txpower
caldata	: Calibration data storage commands
counters	: Couters

Note: wireless qual is missing from the ‘:help wireless’ group list

wireless qual antdiv

wl antdiv

Syntax:

```
antdiv [radio_id = <number{0-9999}>]  
       [value = <{0|1|auto}>]
```

Parameters:

radio_id	radio	Optional
value	Value	Optional

wireless qual caldata

Calibration data storage commands

Syntax:

```
caldata cmd = <{(see Parameters)}>  
    [param = <quoted string>]  
    [radio_id = <number{0-9999}>]
```

Parameters:

cmd	Calibration data storage command Options: <{init set get reset store lock dump}>	Required
param	Parameters for set command (oxabcd=0x12)	Optional
radio_id	radio	Optional

wireless qual counters

Counters

Syntax:

```
counters [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless qual down

wl down

Syntax:

```
down [radio_id = <number{0-9999}>]
```

Parameters:

radio_id	radio	Optional
----------	-------	----------

wireless qual fqacursy

wl fqacursy

Syntax:

```
fqacursy channum = <number{0-13}>  
[radio_id = <number{0-9999}>]
```

Parameters:

channum	channum	Required
radio_id	radio	Optional

wireless qual out

wl out

Syntax:

```
out [radio_id = <number{0-9999}>]
```

Parameters:

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}>]
```

Parameters:

radio_id	radio	Optional
value	Value	Optional

wireless qual txpower

wl txpower

Syntax:

```
txpower [radio_id = <number{0-9999}>]  
        [value = <string>]
```

Parameters:

radio_id	radio	Optional
value	value	Optional

wireless qual txrate

wl txrate

Syntax:

```
txrate [index = <number{0-32}>]  
      [modulation = <{auto|CCK|OFDMLegacy|OFDMMCS}>]  
      [radio_id = <number{0-9999}>]
```

Parameters:

index	index	Optional
modulation	modulation	Optional
radio_id	radio	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                [cdd = <{disabled|enabled}>]
                    [channel = <{(see Parameters)}>]
                    [channelwidth = <{20|20/40}>]
                    [country = <{(missing)}>]
                    [dtim = <{(missing)}>]
                    [flags = <{(missing)}>]
                    [frameaggregation = <{off|ampdu|amsdu}>]
                    [frameburst = <{disabled|enabled}>]
[htsecurityrestriction = <{(missing)}>]
[interferencechannel = <{(missing)}>]
[interferencemode = <{(missing)}>]
                    [interop = <{802.11b/g|802.11b/g/n}>]
                    [locale = <{(missing)}>]
                    [lrl = <{(missing)}>]
                    [protection = <{(missing)}>]
                    [protmode = <{(missing)}>]
[prottrigger = <{(missing)}>]
                    [radio_id = <number{0-9999}>]
                    [rateset = <{(missing)}>]
                    [rts = <{(missing)}>]
                    [scb = <{(missing)}>]
                    [sgi = <{disabled|enabled}>]
                    [shortslot = <{(missing)}>]
                    [srl = <{(missing)}>]
                    [state = <{enabled|disabled}>]
                    [stbc = <{disabled|enabled}>]
                    [tea = <{(missing)}>]

```

Parameters:

cdd	Cyclic Delay Diversity	Optional
channel	Communication channel number Options: <{auto 1 2 3 4 5 6 7 8 9 10 11 12 13}>	Optional
channelwidth	channelwidth	Optional
country		Hidden
dtim		Hidden
flags		Hidden
frame aggregation	Frame aggregation method	Optional
frameburst	Framebursting	Optional

wireless Commands

htsecurity restriction		Hidden
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
scb		Hidden
sgi	Short Guard Time Interval	Optional
shortslot		Hidden
srl		Hidden
state	Interface operational status of wireless access point	Optional
stbc	Space Time Block Coding	Optional
tea		Hidden

wireless reset

Reset Wireless interface settings to defaults

Syntax:

```
reset proceed = <{disabled|enabled}>
```

Parameters:

proceed	Confirmation required	Required
---------	-----------------------	----------

wireless secmode

Following commands are available :

<code>config</code>	:	Configure/Show the security mode.
<code>wep</code>	:	Configure WEP settings.
<code>wpa-psk</code>	:	Configure WPA-PSK settings.

Note: wireless secmode is missing from the ':help wireless' group list

wireless secmode config

Configure/Show the security mode.

Syntax:

```
config [mode = <{disable|wep|wpa-psk}>]
```

Parameters:

mode	security mode	Optional
------	---------------	----------

wireless secmode wep

Configure WEP settings.

Syntax:

```
wep [encryptionkey = <quoted string>]
```

Parameters:

encryptionkey	WEP key: expected format 5 or 13 ASCII characters, or 10 or 26 HEX digits.	Optional
---------------	--	----------

wireless secmode wpa-psk

Configure WPA-PSK settings.

Syntax:

```
wpa-psk [encryption = <{(missing)}>]  
        [presharedkey = <quoted string>]  
        [rekeysec = <{(missing)}>]  
        [version = <{WPA|WPA2|WPA+WPA2}>]
```

Parameters:

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}>]
```

Parameters:

radio_id	radio	Optional
ssid_id	Selected BSS	Optional

wireless wps

Following commands are available :

- `config` : Configure/Show the WPS settings
- `pin` : Enroll a WSC Station by entering its device password or PIN
- `ap_pin` : Set/Show the AP pin value (command is hidden)
- `mode` : Set/Show the configuration mode value (command is hidden)

wireless wps ap_pin

Set/Show the AP pin value (command is hidden)

Syntax:

```
ap_pin value = <quoted string>  
    [radio_id = <number{0-9999}>]  
    [ssid_id = <number{0-9999}>]
```

Parameters:

value	Enrollee Station PIN	Required
radio_id	radio	Optional
ssid_id	ssid id	Optional

wireless wps config

Configure/Show the WPS settings

Syntax:

```
config [ap_pin = <quoted string>]
[apsetuplocked = <{disabled|enabled}>]
    [radio_id = <number{0-9999}>]
        [ssid_id = <number{0-9999}>]
            [state = <{disabled|enabled}>]
                [wscstate = <{notconfigured|configured}>]
```

Parameters:

ap_pin	Modify the PIN that is used to configure the AP with an External Registrar	Optional
apsetuplocked	AP Setup Lock	Optional
radio_id	radio	Optional
ssid_id	ssid id	Optional
state	WPS state	Optional
wscstate	WSC State	Optional

wireless wps mode

Set/Show the configuration mode value (command is hidden)

Syntax:

```
mode [radio_id = <number{0-9999}>]
      [ssid_id = <number{0-9999}>]
      [state = <{unconfigured|configured}>]
      [value = <{(missing)}>]
```

Parameters:

radio_id	radio	Optional
ssid_id	ssid id	Optional
state	configuration mode	Optional
value		Hidden

wireless wps pin

Enroll a WSC Station by entering its device password or PIN

Syntax:

```
pin value = <quoted string>
[radio_id = <number{0-9999}>]
[ssid_id = <number{0-9999}>]
```

Parameters:

value	Enrollee Station PIN	Required
radio_id	radio	Optional
ssid_id	ssid id	Optional

wizard Commands

wizard

Following commands are available :

<code>config</code>	: configuration of embedded wizard
<code>def</code>	: Profile definition.
<code>flush</code>	: Clear active profile
<code>view</code>	: View active profile
<code>load</code>	: Load a profile (command is hidden)

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

wizard Commands

wizard config

configuration of embedded wizard

Syntax:

```
config [allow_factory_tpl = <{no|yes}>]
      [autopopup = <{no|yes}>]
      [configtime = <number{15-300}>]
      [trace = <{no|yes}>]
```

Parameters:

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>]
    [dalias = <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}>]
```

Parameters:

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	Additional 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 Commands

wizard flush

Clear active profile

Syntax:

```
flush
```

wizard Commands

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 Commands

xdsl

Following commands are available :

<code>info</code>	: Displays status information about modem
<code>config</code>	: Modify/Display dsl configuration
<code>version</code>	: Display xdsl version information.
<code>maxspeed</code>	: Set ATM Default Maximum Speed. (command is hidden)

Following command groups are available :

<code>debug</code>	<code>qual</code>
--------------------	-------------------

xdsl config

Modify/Display dsl configuration

Syntax:

```
config [adslmultimode = <{(see Parameters)}>]
      [detect-lop = <{disabled|enabled}>]
      [status = <{down|up}>]
      [syslog = <{disabled|enabled}>]
      [vdslmultimode = <{disable|vdsl2}>]
```

Parameters:

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
vdslmultimode	Set/Show selected multimode type of the modem	Optional

xdsl Commands

xdsl debug

Following commands are available :

bitloadinginfo	: Displays # bits per tone
deltconfig	: Dual Ended Line Testing interface
deltinfo	: Dual Ended Line Test result display
modemoptioninfo	: 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}>]
```

Parameters:

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)}>]
```

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 g992.5_annex_ag992.5_annex_m}>	Optional
--------	---	----------

xdsl debug traceconfig

Config the adsl tracelevel

Syntax:

```
traceconfig level = <{0|1|2|3|4}>
```

Parameters:

level	Trace Level (0=disable tracing; 1=enable dsl manager tracing; 2=enable dsl driver tracing)	Required
-------	--	----------

xdsl info

Displays status information about modem

Syntax:

```
info [counter_period_filter = <{(see Param)}>]
      [counters_reset = <{no|yes}>]
      [expand = <{disabled|enabled}>]
      [g.997.1 = <{disabled|enabled}>]
```

Parameters:

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 Commands

xdsl maxspeed

Set ATM Default Maximum Speed. (command is hidden)

Syntax:

```
maxspeed [rx = <number>]  
         [tx = <number>]
```

Parameters:

rx	A predefined Maximum ADSL Speed in Downstream direction	Optional
tx	A predefined Maximum ADSL Speed in Upstream direction	Optional

xdsl Commands

xdsl qual

Following commands are available :

alb	: Analog front end LoopBack Test Mode
bitloadinginfo	: Displays # bits per tone
lov	: Longitudinal Balance (LOV) Test Mode -continuously sending-
lcl	: Longitudinal Balance (LCL) Test Mode -online quiet-
qln	: Quiet Line Noise Test Mode
aisf	: Set modem's ATU Impedance State Force
hybrid	: Hybrid Test Mode
freeze-showtime	: freeze showtime (no auto retrain)
freeze-medley	: freeze medley
freeze-reverb	: freeze reverb
quiet	: Send quiet
mib	: Retrieve 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 Commands

xdsl qual alb

Analog front end LoopBack Test Mode

Syntax:

```
alb address = <string>
      port = <{(see Parameters)}>
      type = <{adsl|vdsl}>
```

Parameters:

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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat 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

Syntax:

```
bitloadinginfo
```

xdsl qual freeze-medley

freeze medley

Syntax:

```
freeze-medley [state = <{disabled|enabled}>]
```

Parameters:

state	Enable/Disable freeze medley testing	Optional
-------	--------------------------------------	----------

xdsl qual freeze-reverb

freeze reverb

Syntax:

```
freeze-reverb [state = <{disabled|enabled}>]
```

Parameters:

state	Enable/Disable freeze reverb testing	Optional
-------	--------------------------------------	----------

xdsl qual freeze-showtime

freeze showtime (no auto retrain)

Syntax:

```
freeze-showtime [state = <{disabled|enabled}>]
```

Parameters:

state	Enable/Disable freeze showtime testing	Optional
-------	--	----------

xdsl Commands

xdsl qual hybrid

Hybrid Test Mode

Syntax:

```

hybrid address = <string>
               port = <{(see Parameters)}>
               type = <{adsl|vdsl}>

```

Parameters:

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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs 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 sysstat 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 Commands

xdsl qual lcl

Longitudinal Balance (LCL) Test Mode -online quiet-

Syntax:

```
lcl
```

xdsl Commands

xdsl qual lov

Longitudinal Balance (LOV) Test Mode -continuously sending-

Syntax:

```
lov      type = <{(see Parameters)}>
[signal_type = <{(missing)}>]
```

Parameters:

type	Type of (LOV) Test Mode	Required
	Options: <{adsl_annex_a adsl_annex_l_wide adsl_annex_l_narrow vdsl2_998_m1x_a vdsl2_998_m1x_b vdsl2_998_m1_nuso vdsl2_998_m2x_a vdsl2_998_m2x_m vdsl2_998_m2x_b vdsl2_998_m2x_nuso vdsl2_998e17_m2x_nuso vdsl2_998e17_m2x_nuso_m vdsl2_998ade17_m2x_nuso_m vdsl2_998ade17_m2x_a vdsl2_998ade17_m2x_b vdsl2_998e30_m2x_nuso vdsl2_998e30_m2x_m vdsl2_998ade30_m2x_nuso_m vdsl2_998ade30_m2x_nuso_a vdsl2_997_m1c7_a vdsl2_997_m1c8_m vdsl2_997_m1x_m vdsl2_997_m2x8_m vdsl2_997_m2x_a vdsl2_997_m2x_m vdsl2_hpe17_m1_nuso vdsl2_hpe30_m1_nuso vdsl2_997e17_m2x_a vdsl2_997e17_m2x_nuso}>	
signal_type		Hidden

xdsl Commands

xdsl qual mib

Retreive extra adsl info Test Mode (command is hidden)

Syntax:

```
mib address = <string>
      port = <{(see Parameters)}>
      type = <{adsl|vdsl}>
```

Parameters:

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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp snmp sql*net sql-net sqlserv sunrpc syslog sysstat 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 Commands

xdsl qual qln

Quiet Line Noise Test Mode

Syntax:

```
qln address = <string>
      port = <{(see Parameters)}>
      type = <{adsl|vdsl}>
```

Parameters:

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 ipcserv ipx irc-o irc-u kerberos ldap login netbios-dgm netbios-ns netbios-ssn netwall netware-ip new-rwho nfs nicname nntp ntalk ntp pcmail-srv pop2 pop3 printer qotd realaudio rip rtelnet rtsp sip smtp snmp snmptrap snpp snmp sql*net sql-net sqlserv sunrpc syslog sysstat 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 Commands

xdsl qual quiet

Send quiet

Syntax:

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

Parameters:

state	Enable/Disable freeze reverb testing	Optional
-------	--------------------------------------	----------

xdsl version

Display xsdl version information.

Syntax:

```
version
```