

DSL-500 Console Commands Index and Syntax

(Suitable for Firmware R2.00)

Commands are:

1. atm [<command>] - send command to atm process
2. bridge [<command>] - send command to bridge process
3. buffer [<command>] - send command to buffer process
4. bun [<command>] - send command to bun process
5. chips [<command>] - send command to chips process
6. config [<command>] - send command to config process
7. dhcpclient [<command>] - send command to dhcpclient process
8. dhcpserver [<command>] - send command to dhcpserver process
9. diap [<command>] - send command to diap process
10. dnsrelay [<command>] - send command to dnsrelay process
11. edd [<command>] - send command to edd process
12. ethernet [<command>] - send command to ethernet process
13. event - control display of events
14. flashfs [<command>] - send command to flashfs process
15. ip [<command>] - send command to ip process
16. ip_filter [<command>] - send command to ip_filter process
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20. oam [<command>] - send command to oam process
21. oamcli [<command>] - send command to oamcli process
22. portcli [<command>] - send command to portcli process
23. ppp [<command>] - send command to ppp process
24. reflect [<command>] - send command to reflect process
25. restart - restart system
26. snmp [<command>] - send command to snmp process
27. tftp [<command>] - send command to tftp process
28. uptime - show time system has been running
29. version - show system software version
30. webserver [<command>] - send command to webserver process

1. atm

info	-Get ATM driver information
pool	-Get entry, size, prefix, count, name

2. bridge

config	<command> - configuration commands
device	command - Alter bridge configuration
ethertype	[<port> "any" "ip" "pppoe"] - Set or display forwarded packet types
filter	- Display filtering database
filterage	[age] - Set or display filter age time
flush	[<port>] - Flush filtering database on port(s)
info	- Show version
interface	command - Process interface command
portfilter	[<source port> "all" <dest ports>] - Set or display ports to forward to
spanning	{command} - Control spanning tree operation
status	- Display bridge status
version	- Show version

3. buffer

list	- list the buffer pools
info	- [<name>] show [or set] current pool
show	- [<n>] show buffer <n> in current pool, or all buffers in use
steal	- <n> steal <n> buffers from current pool, (0 to reset)
version	- display version information for buffer pools

4. bun

BUN Commands -	
help [command]	- Display summary of commands

version	- Show software version
build	- Show build information
config <config_spec>	- Enter manual configuration request
list config	- Display all configuration requests
list devices	- Display registered driver devices
list ports	- Display registered ports
list channels <port_name>	- Display enabled channels on a port
list all open channels <port_name>	- Display all open channels on a port
list spices	- Display all available spices
list objects	- Display all data objects
show system	- Show system attributes
set system	- Set system attributes
show device <device_name>	- Display device information
show port <port_name>	- Display port information
show channel <port_name> <channel_number>	- Display channel information
set port <port_name> / <attribute> = <value>	- Set port attribute
set channel <portname> <channelnumber> / <attribute> = <value>	- Set channel attribute
reset port <port_name>	- Reset port hardware
list classes	- List available port classes
show class <classname>	- Show class members

5. chips

cpu	- print percentage of cpu cycles used
debug	- enter debug process
exit	- abort from ATMos
info	- print out version information and machine's address
mem	- memory used on a process-by-process basis
stack	- stack usage on a process-by-process basis
rb	<addr> - read byte at address <addr>
rh	<addr> - read halfword at address <addr>
rw	<addr> - read word at address <addr>
tell	<process> <string> - send string to process using TELL message

wb	<addr> <val>	- write byte <val> at address <addr>
wh	<addr> <val>	- write halfword <val> at address <addr>
ww	<addr> <val>	- write word <val> at address <addr>

6. config

list		- List all modules registered
print	[low medium high] [<module>]	- Print configuration
reset	[<module>]	- Reset configuration to default
save		- Save configuration
resource	[<process> [<resource> [<value>]]]	- Control resources
default		- restore factory default settings
version		- Display version information

7. dhcpclient

config		- Displays client configuration file
help		- Gives help on available commands
pool		- Show DHCP client pool allocation stats
status		- Shows status of active lease, or [all] leases
trace		- Activates trace option(s)
untrace		- Deactivates trace option(s)
version		- Show software version

8. dhcpserver

config		- Displays server configuration file
help		- Gives help on available commands
pool		- Show DHCP pool allocation statistics
status		- Shows status of server leases
trace		- Activates trace option(s)
untrace		- Deactivates trace option(s)
version		- Display software version

9. diap

help	- Gives help on available commands
enable	- Enable DIAP Function
disable	- Disable DIAP Function
passwd	- Set DIAP Passwd -- passwd <password> none
status	- Show status of DIAP settings
trace	- Activates trace option(s)
untrace	- Deactivates trace option(s)
version	- Show software version

10. dnsrelay

config	- Show DNS relay configuration
help	- List help on available commands
retry	- Set max number of connection/tx retries
server	- Manually specify DNS server IP address
status	- Show DNS relay connection status
trace	- Activate trace option(s)
untrace	- Deactivate trace option(s)
version	- Show DNS relay software version
state	- enabled disabled - Enable or Disable or Show state of dnsrelay
pppauto	- enabled disabled - Enable or Disable or Show state of pppauto

11. edd

event	[level] - set event logging level
interface	[id] command - process interface command for device id
status	- device status
version	- display driver information

12. ethernet

event	[level] - set event logging level
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interface	[id] command - process interface command for device id
status	- device status
version	- display driver information

13. event

event help	- show this help
event n next	- show next part of event buffer
event p previous	- show previous part of event buffer
event r recent	- show most recent part of event buffer
event show	- enable display of events as they occur
event unshow	- disable display of events as they occur

14. flashfs

cat	<file> - show file contents
config	- display flash configuration
fsck	- file system check, checks FLASH integrity
id	<x> - display chip ID for device x
info	- display file system information
ls	[!] - list FLASHFS files [more detail]
rewrite	<file> - rewrite boot area with ISFS file <file>
trace	[level] - show/set tracing level
update	- commit ISFS files to FLASH
version	- display version number
wipe	- irreversibly erase FLASH contents

15. ip

arp syntax:

arp <cmd>	- execute arp subcommand
arp help	- list subcommands available

config syntax:

config [save]	- display config or save to flash
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device syntax:

- device [list] - list interface definitions
- device add <i/f> <type> <file> [mtu <size>] [<IPAddr>|dhcp]
- create interface definition
- device delete <i/f>
- remove interface definition
- device flush - remove all interface definitions

disable syntax:

- disable [<i/f>] - prevent use of interfaces or just interface <i/f>

enable syntax:

- enable [<i/f>] [mtu <size>] [<IPAddr>]
- enable use of all interfaces or interface <i/f> if given
- set <i/f> IP address to <IPAddr>
- set MTU for interface

help syntax:

- help - list commands available
- help all - list commands and their syntax
- help <command> - list syntax for command

ipatm syntax:

- ipatm <cmd> - execute ipatm subcommand
- ipatm help - list subcommands available

nat syntax:

- nat add <i/f> - install NAT on interface
- nat delete <i/f> - uninstall NAT from interface

norelay syntax:

- norelay [all | <i/f name> [<i/f name>] [forward]]
- disallow relaying between i/fs

ping syntax:

- ping <host> [<ttl> [<size>]]
- request echo from <host>

relay syntax:

- relay - list existing relays in place
- relay all | <i/f name> [<i/f name>] [forward]
- allow relaying between i/fs

rip syntax:

- rip <sub cmd> - execute rip subcommand
- rip help - list subcommands available

route syntax:

- route add <dom name> a.b.c.d <relay> [am:bm:cm:dm [<cost> [<timeout s>]]]
- define/edit an IP forwarding route
- route delete <dom name>
- delete a route
- route flush - delete all routes

routes syntax:

- routes - show IP forwarding routes

snmp syntax:

- snmp <sub cmd> - execute snmp subcommand
- snmp help - list subcommands available

stats syntax:

- stats <sub cmd> - execute stats subcommand
- stats help - list subcommands available

subnet syntax:

- subnet add <net name> <i/f name> a.b.c.d am:bm:cm:dm
- create subnet definition
- subnet delete <net name>
- remove subnet definition
- subnet flush - remove all subnet definitions

version syntax:

- version - display software version no.

16. ip_filter

add	help <command> - set up rules for filter packets
delete	help <command> - delete set or rules for filter packets
flush	help <command> - flush all setting for filter packets
list	help <command> - list setting for filter packets
change	help <command> - change globe state on/off or ifnotmatch pass/block
trace	help <command> - trun on/off ip filter

17. isfs

ls	- list ISFS files
rm	<file> - remove file from ISFS
cat	<file> - show file contents
trace	[level] - show/set tracing level
version	- displays version number

18. itex

version	- display version of itex implementation
line	- Use up or down to activate/deactivate the line
rate	- Get up/down stream rates
mode	- Set mode [auto,ansi,dmt,lite]
info	- Get info
txgain	- Set/Get tx gain value
enhance	- Set enhance mode
priority	- Set priority(ansi first or g.hs first)(0:ansi,1:g.hs)
alarm	- Get Alarm indication
getes	- Get error second
getsnr	- Get snr
getrsd	- Get RSD
channelmgr	- Channel management
setcurve	- Set curve
trellis	- Set Trellis 1/0
bitswap	- Set Bitswap 1/0

dyinggasp	- Send DyingGasp
vendorid	- Set vendorid
test	- test ITeX135
delay	- ANSI delay
list	- List current configuration
minds	- Set/Get Minimum DownStream value

19. nat

event	[<level>] - show or change current event tracing level
interfaces	- list interfaces
inbound	help <command> - set up rules for inbound packets
dmzip	- show or set DMZ ip; Syntax: dmzip xxx.xxx.xxx.xxx
dmzstate	enabled disabled - Enable or Disable or Show status of DMZ
info	- show information about configured options
protocols	- list protocols supported via ALGs
sessions	<i/f name> [summary all] - list active sessions
stats	<i/f name> [reset] - show statistics
version	- display ATMOS NAT version

20. oam

version	- show version
config	- show configuration
trace	<util fault cc loopback all none > - show / set tracing
dl	- dump contents of lookup tables

21. oamcli

config	- display message saying there is no storable configuration
version	- show oamcli version
getversion	- get the oam process version
inf	- get a channels state
list	- list channels state

ccglobalaccept - toggle auto acceptance/rejection of CC activate requests
pmglobalaccept - toggle auto acceptance/rejection of PM activate requests
segmentset <port> <vpi> <vci> <flags> - set up a segment sink point
segmentclear <port> <vpi> <vci> <flags> - remove a segment sink point
faultset <port> <vpi> <vci> <flags> - turn fault management on
faultclear <port> <vpi> <vci> <flags> - turn fault management off
faultwatch <port> <vpi> <vci> <flags> - turn fault monitoring on
faultunwatch <port> <vpi> <vci> <flags> - turn fault monitoring off
faultbegin <port> <vpi> <vci> <flags> - declare a fault state
faultend <port> <vpi> <vci> <flags> - clear a fault state
ccset <port> <vpi> <vci> <flags>
- set up reception of activation requests
ccclear <port> <vpi> <vci> <flags>
- clear reception of activation requests
ccsetauto <port> <vpi> <vci> <flags>
- set up auto accept of activation requests
ccactivate <port> <vpi> <vci> <flags> <dir> - send activate request
ccdeactivate <port> <vpi> <vci> <flags> <dir>
- send deactivate request
ccstart <port> <vpi> <vci> <flags> <dir>
- start transmission/reception of CC cells
ccstop <port> <vpi> <vci> <flags> <dir>
- stop transmission/reception of CC cells
loopset <port> <vpi> <vci> <flags> <llid> - enable loopback
loopclear <port> <vpi> <vci> <flags> - disable loopback
loop <port> <vpi> <vci> <flags> <llid> - send a loopback cell
loopstats <port> <vpi> <vci> <flags> - display loopback stats
pmset <port> <vpi> <vci> <flags>
- set up reception of activation requests
pmclear <port> <vpi> <vci> <flags>
- clear reception of activation requests
pmsetauto <port> <vpi> <vci> <flags>
- set up auto accept of activation requests
pmactivate <port> <vpi> <vci> <flags> <txblock> <rxblock> <dir>
- send activate request
pmdeactivate <port> <vpi> <vci> <flags> - send deactivate request
pmstart <port> <vpi> <vci> <flags> <txblock> <rxblock> <dir>
- start transmission/reception of PM cells

pmstop <port> <vpi> <vci> <flags> <dir>
- stop transmission/reception of PM cells

pmstats <port> <vpi> <vci> <flags> - display PM stats

22. portcli

8khzsource [<port> [int|off]] - set source of 8kHz reference signal

errors [diff] - show error counts

help [all|<command>] - print help information

portinfo [<port>] - show port information

portload [<port>] - show port loading

portmode <port>|all uni30|uni31|uni40|iispuser|iispnet|mast|gsmp|ifmp
- set port mode (group of flags)

setportflag <port>|all <portflag> - set port flag

show <port> - show detail information for a port

speed <port> [tx default|<cps>][rx default|cps] - set port speed

stats [diff] - print statistics

unsetportflag <port>|all <portflag> - clear port flag

version - show switch CLI version

vport - add or remove virtual ports

23. ppp

bcp - <channel> bcp stp|nostp:
set if BCP uses spanning tree packets over this channel

clear - <channel> clear:
clear channel to initial state

disable - <channel> disable:
disable PPP on this channel

discard - <channel> discard [<size>]:
send LCP 'discard' packet

echo - <channel> echo [<size>]:
send LCP 'echo' packet

enable - <channel> enable [pppoe]:
enable this channel with current settings

	in either pppoa or pppoe encapsulation
event	- event [<1-5>]: set/read current event report level
hdlc	- <channel> hdlc [1 0]: set HDLC headers on this channel
info	- <channel> info [all]: show information about this channel
interface	- <channel> interface <n>: attach channel to specified interface interface <n> localip <ipaddr>: set local IP address on specified interface interface <n> stats show statistics on specified interface
lcpmaxconfigure	- <channel> lcpmaxconfigure [<n>]: set/read current LCP Max Configure setting
lcpmaxfailure	- <channel> lcpmaxfailure [<n>]: set/read current LCP Max Fail setting
lcpmaxterminate	- <channel> lcpmaxterminate [<n>]: set/read current LCP Max Terminate setting
llc	- <channel> llc [1 0]: set LLC headers on this channel
ports	- ports: display the available port names
pvc	- <channel> pvc [[[<port>] <vpi>] <vci>] [ip mac] [listen]: set PVC details for this channel
qos	- <channel> qos [cbr ubr] [pcr <pcr-tx> [<pcr-rx>]]: set QoS details for this channel
remoteip	- <channel> remoteip <ipaddr>: set IP address for dial-in to this channel
svc	- <channel> svc [listen addr <addr>] [ip mac]: set SVC details for this channel
theylogin	- <channel> theylogin [pap chap none]: set login required to this channel
tunnel	- <channel> tunnel <n> pptp l2tp in out: associate <channel> with tunnel number <n>
user	- user: list all user settings

	user add <name> pwd <passwd> [pap chap]: create new user setting
	user delete <name> all: delete user setting or all settings
version	- display version information for PPP
wellogin	- <channel> wellogin none <name> <password> [pap chap]: set our login details over this channel
ondemand	- <channel> ondemand disable enable [idle_secs]: set pppoe connect-on-demand and idle seconds before drop over this channel
r2516	- <channel> r2516 <service name> <ac name> : set pppoe service name and ac name over this channel

24. reflect

version	- display the module version number
list	- list configured reflectors with index numbers
new	<filename> [filename] - create new reflector using specified file
delete	<index> all - delete specified reflector or all reflectors

25. restart

restart	- restart system
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26. snmp

access syntax:

snmp access [read | write] <community> [<IP addr>]

- allow read-only or read-write access

snmp access delete <community> [<IP addr>] - revoke specified access

snmp access flush - revoke all access

snmp access list - list allowed access

config syntax:

config [save] - display config or save to flash

trap syntax:

snmp trap add <community> <IP addr> [<port>] - add a trap destination

snmp trap delete <community> <IP addr> [<port>]

- delete a trap destination

snmp trap flush

- delete all trap destinations

snmp trap list

- list trap destinations

version syntax:

version - display version information

27. tftp

list - list active tftp connections

version - displays version and trace status

connect <addr | hostname> - set IP address or host for transfers

get get <file> [<local file>] - get file from remote host

put put <file> [remote file] - put file onto remote host

trace [+flag][-flag][-*][help] - set trace options

28. uptime

uptime - show time system has been running

29. version

version - show system software version

30. webserver

webserver - send command to webserver process