ATM command usage

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Document Revision History

Revision	Date	Author	Description

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1 atmphxcmd begin

【COMMAND PURPOSE】this command activates the ATM driver

【COMMAND SYNTAX】**atmphxcmd begin**

【DESCRIPTION】this command activates the ATM driver

【PRECONDITION】none

【PARAMETERS】none

【NOTICE】detailed parameter depends on specific chipset

【EXAMPLE】

atmphxcmd begin

2 atmphxcmd end

【COMMAND PURPOSE】this command deactivates the ATM driver

【COMMAND SYNTAX】**atmphxcmd end**

【DESCRIPTION】this command stops the WAN interface and terminates the ATM driver

【PRECONDITION】this command must be executed after the ATM driver is initialized【PARAMETERS】none

【NOTICE】none

【EXAMPLE】

atmphxcmd end

3   atmphxcmd pvc

these commands configures the ATM PVC parameters

1、atmphxcmd pvc –add Command

【COMMAND PURPOSE】this command adds a new PVC

【COMMAND SYNTAX】

atmphxcmd pvc –add {*vpi.vci*} [**--aal** { *aal5* }] [**--encap** {*vc|llc|other*}] [**--atmqos** {*ubr|ubr_pcr|cbr|rtvbr|nrtvbr*}] [**--pcr** {*pcr*}] [**--scr** {*scr*}] [**--mbs** {*mbs*}] [**--vlanid** {*vlanId*}] [**--priority** {*priorityValue*}] [**--state** {*vpi.vci*} { *enable* | *disable* }] [**--linktype** {*rfc2684br|rfc2684rt|rfc2364|other* }]

【DESCRIPTION】 this command adds a new PVC and configures its relative parameters

【PRECONDITION】his command must be executed after the ATM driver is initialized

【PARAMETERS】

Parameters	Function	Notice
vpi.vci	PVC to add vpi：Virtual Path Identifier vci：Virtual Channel Identifier	compulsory
--aal { aal5 }	Configuring the AAL service type, with default value AAL5	compulsory
--encap { vc | llc | other }	Configuring encapsulation mode	optional
--atmqos {ubr|ubr_pcr|cbr|rtvbr|nrtvbr}]	Configuring ATM QoS type	optional
--pcr {pcr}	Configuring ATM QoS peak Cell Rate (cell/s, all services except QoS ubr takes this parameter)	optional
--scr {scr}	Configuring ATM QoS sustained Cell Rate (cell/s, rtvbr and nrtvbr takes this parameter)	optional
--mbs {mbs}	Configuring ATM QoS maximum burst size (cell, rtvbr and nrtvbr take this parameter)	optional
--vlanid {vlanId}	Configuring the VLAN ID of WAN	optional

	interface	
--priority {priorityValue}	Configuring the 802.1p priority on WAN interface	optional
[--state {vpi.vci} { enable | disable }]	Activate/deactivate the PVC	optional
--linktype { rfc2684br|rfc2684rt|rfc2364|other }	Configuring the PVC type rfc2684br: in service type bridge/ipoe/pppoe nas interface is set up rfc2684rt: in service type ipoa, ipa interface is set up rfc2364: in service type pppoa, atm pppoa interface is activated	optional

【NOTICE】

【EXAMPLE】

atmphxcmd pvc --add 0.35 --encap llc --atmqos ubr --linktype rfc2684br

2、 atmphxcmd pvc –delete Command

【COMMAND PURPOSE】this command deletes a PVC

【COMMAND SYNTAX】 **atmphxcmd pvc –delete** {*vpi.vci*}

【DESCRIPTION】 this command deletes a PVC

【PRECONDITION】this command must be called after ATM driver is initialized and the PVC is in action

【PARAMETERS】

Parameters	Function	Notice
vpi.vci	The index of PVC to delete	compulsory

【NOTICE】: before this command is executed, the nas interface must be deactivated by command ifconfig (e.g.: ifconfig nas_8_35 down）

【EXAMPLE】

atmphxcmd pvc --delete 0.35

3、 atmphxcmd pvc –show Command

【COMMAND PURPOSE】this command displays the PVC info

【COMMAND SYNTAX】

atmphxcmd pvc --show {**all|**{*vpi.vci*}}

【DESCRIPTION】this command displays the PVC info

【PRECONDITION】this command must be executed after ATM driver is installed, and the PVC is in action

【PARAMETERS】

Parameters	Function	Notice
all|{vpi.vci}	Specify the display mode All: display the configuration of PVC vpi.vci: display the PVC configuration	compulsory

【NOTICE】 the driver does not support version ATPV100R001

【EXAMPLE】

atmphxcmd pvc --show 0.32

4、**atmphxcmd pvc –stats** Command

【COMMAND PURPOSE】this command displays PVC statistics info

【COMMAND SYNTAX】

atmphxcmd pvc –stats {**all|**{*vpi.vci*}}

【DESCRIPTION】this command displays PVC statistics info

【PRECONDITION】 this command must be executed after ATM driver is installed, and the PVC is in action

【PARAMETERS】

Parameters	Function	Notice
all|{vpi.vci}	Specify the display mode All: display all the statistics of PVCs vpi.vci: display the specified PVC statistics	compulsory

【NOTICE】 the driver does not support version ATPV100R001

【EXAMPLE】

atmphxcmd pvc --stats 0.32

aal5 vcc statistics for 0.0.32

crc errors 0

oversized sdus 0

short packet errors 0

```
length errors 0
```

4   atmphxcmd oam

these commands are applied in ATM OAM diagnostics, including initiating, terminating and displaying the result of command interface.

1、atmphxcmd oam –start Command

【COMMAND PURPOSE】this command is applied in ATM OAM diagnosing

【COMMAND SYNTAX】

atmphxcmd oam --start {*vpi.vci*} {*f4*|*f5*} {**--type** {*etoe*|*segm*ent}} [**--repetition** {*repetitionNnumber*}] [**--timeout** {*timeoutvalue*}]

【 DESCRIPTION 】 configuring the ATM OAM loopback test parameters, and initiate the test

【PRECONDITION】ATM driver is initialized and PVC is in action

【PARAMETERS】

Parameters	Function	Notice
vpi.vci	Configure the PVC for loopback testing	compulsory
f4|f5	Configure the ATM cell type for loopback testing(F4 or F5)	compulsory
--type {etoe|segment}	Configure the diagnosing type for loopback testing. Possible types include etoe and segment.	compulsory
--repetition {repetitionNnumber}	Configure the Repetition Number(the cell number, must be larger than 1)	compulsory
[--timeout {timeoutvalue}]	Configure the loopback timeout for diagnosing cell Timeoutvalue: timeout value, must be larger than 10s	compulsory

【NOTICE】 the driver version ATP V100R001 only supports f5 loopback diagnosing

【EXAMPLE】

atmphxcmd oam --start 0.35 f5 -type segment –repetition 3 --timeout 10

2、atmphxcmd oam –show Command

【COMMAND PURPOSE】this command displays the ATM OAM diagnosing result

【COMMAND SYNTAX】

atmphxcmd oam --show {*vpi.vci*}

【DESCRIPTION】this command displays the ATM OAM diagnosing result

【PRECONDITION】ATM diagnosing must be finished。

【PARAMETERS】

Parameters	Function	Notice
vpi.vci	Configuring the loopback PVC for diagnosing test	compulsory

【NOTICE】

【EXAMPLE】

atmphxcmd oam --show 0.35

3、**atmphxcmd oam –stop** Command

【COMMAND PURPOSE】this command terminates the ATM OAM diagnosing

【COMMAND SYNTAX】

atmphxcmd oam --stop {*vpi.vci*}

【DESCRIPTION】this command terminates the ATM OAM diagnosing

【PRECONDITION】this diagnosing state for PVC is still active

【PARAMETERS】

Parameters	Function	Notice
vpi.vci	Configuring the PVC for loopback diagnosing test	compulsory

【NOTICE】

【EXAMPLE】

atmphxcmd oam --stop 0.35

5   atmphxcmd version Command

【COMMAND SYNTAX】**atmphxcmd version**

【DESCRIPTION】this command displays atmphxcmd software version number

【PRECONDITION】none

【PARAMETERS】none

【NOTICE】none

【EXAMPLE】

atmphxcmd version

atmphxcmd version 1.0.0

6 atmphxcmd help Command

【COMMAND PURPOSE】help command for atmphxcmd

【COMMAND SYNTAX】**atmphxcmd help**

【DESCRIPTION】help command for atmphxcmd

【PRECONDITION】none

【PARAMETERS】none

【NOTICE】none

【EXAMPLE】

atmphxcmd help