



Commands Quick Reference

This chapter contains an ATM Command Quick Reference table.

The table below identifies each command in the ATM module command set, gives the command syntax, provides a short description, and specifies the command type and mode. The command type and mode indicate the following:

- **Type** – Indicates whether the command is an ATM, LANE, or configuration command.
- **Mode** – Indicates whether the command is available in every command mode (All) or whether it is an EXEC, global configuration (GC), interface configuration (IC), line configuration (Line), MPOA client configuration (MPC), or database configuration (Dbase) command.

Command	Syntax	Description	Type	Mode
atm-address , page 8-1	atm-address <i>nsap-addr</i> ubr+ pcr <i>value</i> mcr <i>value</i>	Overrides the control ATM address and allows you to specify the UBR+ parameters.	ATM	IC
atm bind pvc vlan , page 8-2	atm bind pvc vlan <i>vcd</i> <i>vlan_num</i>	Binds a PVC to a specified VLAN.	ATM	IC
atm clock internal , page 8-3 ¹	atm clock internal no atm clock internal	Specifies the transmit clock source.	ATM	IC
atm ds3-scramble , page 8-4	atm ds-3 scramble no atm ds-3 scramble	Enables or disables scrambling on the current port.	ATM	IC
atm framing , page 8-4	atm framing [m23adm cbtiplep m23plcp] no atm framing	Changes the default DS3 line framing.	ATM	IC
atm ilmi-enable , page 8-5	atm ilmi-enable no atm ilmi-enable	Enables or disables the ILMI.	ATM	IC
atm ilmi-keepalive , page 8-6	atm ilmi-keepalive <i>seconds</i> no atm ilmi-keepalive <i>seconds</i>	Enables ILMI keepalives.	ATM	IC
atm lbo , page 8-7	atm lbo { short long }	Sets the line buildout corresponding to the cable length.	ATM	IC
atm preferred phy , page 8-8	atm preferred phy { A B }	Changes the preferred PHY.	ATM	IC

Command	Syntax	Description	Type	Mode
atm pvc , page 8-8	atm pvc <i>vcd vpi vci</i> [aal5snap ilmi qsaal] atm pvc <i>vcd vpi vci</i> [aal5snap ilmi qsaal] [<i>peak_rate average_rate</i> [<i>burst_size</i>]] [oam seconds] ² no atm pvc <i>vcd vpi vci</i>	Creates a PVC on the ATM interface.	ATM	IC
atmsig close , page 8-13	atmsig close atm0 <i>vcd</i>	Disconnects an SVC.	ATM	IC
atm sonet , page 8-13 ³	atm sonet { stm-1 sts-3c } { stm-4 sts-12c } no atm sonet	Sets the mode of operation and control type for cell-rate decoupling.	ATM	IC
atm traffic-shape rate , page 8-14	atm traffic-shape rate <i>1-155</i> no atm traffic-shape rate	Configures output throttling on the ATM module.	ATM	IC
atm uni-version , page 8-15	atm uni-version <i>version_num</i> no atm uni-version	Specifies the UNI version to be used.	ATM	GC
atm vc-per-vp , page 8-16	atm vc-per-vp <i>num</i> no atm vc-per-vp	Sets the maximum number of VCIs to support per VCI.	ATM	IC
clear mpoa client cache , page 8-16	clear mpoa client [name <i>mpc_name</i>] cache [ingress egress] [ip-address <i>ip-address</i>]	Clears ingress/egress cache entries of one or all MPCs.	ATM	EXEC
client-atm-address name , page 8-17	client-atm-address <i>atm-address-template name</i> <i>elan-name</i> no client-atm-address <i>atm-address-template</i>	Adds a LANE address entry to the configuration server's database.	ATM	Dbase
debug mpoa client , page 8-19	debug mpoa client { all data egress general ingress keep-alives platform-specific } [name <i>mpc_name</i>] no debug mpoa client [name <i>mpc_name</i>]	Displays debug information for the MPC.	ATM	EXEC
default-name , page 8-21	default-name <i>elan-name</i> no default name	Provides a default ELAN name in the configuration server's database.	ATM	Dbase
disable—ATM , page 8-21	disable [<i>level</i>]	Exits privileged EXEC mode and returns to user EXEC mode.	ATM	EXEC
display-databases , page 8-22	display-databases	Displays all the LECS database tables.	ATM	Dbase
editing , page 8-23	editing no editing	Enables enhanced editing mode.	ATM	Line
enable—ATM , page 8-25	enable	Enters privileged EXEC mode.	ATM	EXEC
end , page 8-26	end	Exits configuration mode.	ATM	GC
exit , page 8-26	exit	Exits any command mode or closes an active terminal session and terminates the EXEC.	ATM	All
help , page 8-27	help	Displays the help commands.	ATM	All

Command	Syntax	Description	Type	Mode
history—ATM, page 8-28	history [<i>size number-of-lines</i>] no history	Enables the command history function.	ATM	Line
interface, page 8-30	interface <i>atm_num</i> [<i>.sub_interface_num mul</i>] loopback_num	Enters the configure interface or subinterface mode.	ATM	IC
lane auto-config-atm-address, page 8-31	lane [config] auto-config-atm-address no lane [config] auto-config-atm-address	Specifies the ATM address is computed automatically.	ATM	IC
lane bus-atm-address, page 8-32	lane bus-atm-address <i>bus_name atm-addr</i> no lane bus-atm-address <i>bus_name atm-addr</i>	Sets the ATM address for the BUS.	ATM	IC
lane client, page 8-32	lane client [ethernet <i>vlan_num</i> [<i>elan-name</i>]] no lane client [ethernet <i>vlan_num</i> [<i>elan-name</i>]]	Activates a LANE client.	ATM	IC
lane client-atm-address, page 8-33	lane client-atm-address <i>atm-address-template</i> no client-atm-address [<i>atm-address-template</i>]	Specifies an ATM address for the LANE client (overriding automatic assignment).	ATM	IC
lane client mpoa client name, page 8-35	lane client mpoa client name <i>mpc-name</i> no lane client mpoa client name <i>mpc-name</i>	Binds a LEC to the named MPC.	ATM	IC
lane client qos, page 8-35	lane client qos <i>database_name</i>	Applies the database to an interface	ATM	IC
lane config-atm-address, page 8-36	lane config-atm-address <i>atm-address-template</i> no lane config-atm-address [<i>atm-address-template</i>]	Specifies the ATM address of a given configuration server.	ATM	IC
lane config database, page 8-37	lane config database <i>database-name</i> no lane config database	Associates a named configuration database with the configuration server on the selected ATM interface.	ATM	GC
lane database, page 8-38	lane database <i>database-name</i> no lane database <i>database-name</i>	Creates a named configuration database that can be associated with a configuration server.	ATM	GC
lane le-arp, page 8-39	lane le-arp <i>mac-addr atm-addr</i> no lane le-arp <i>mac-addr atm-addr</i>	Adds a static entry to the LE ARP table.	ATM	IC
lane qos database, page 8-40	[no] lane qos database <i>name</i>	Creates a LANE QoS database.	ATM	GC
lane qos iptos trust, page 8-41	[no] lane qos iptos trust	Sets the LANE QoS mode.	ATM	GC
lane register, page 8-42	lane register <i>vcd mac-addr atm-addr</i> no lane register <i>vcd</i> [<i>mac-addr atm-addr</i>]	Registers a LANE client.	ATM	IC

Command	Syntax	Description	Type	Mode
lane server-atm-address , page 8-43	lane server-atm-address <i>les_name atm-address-template</i> no lane server-atm-address <i>les_name atm-address-template</i>	Configures the LES ATM address template.	ATM	IC
lane server-bus , page 8-44	lane server-bus { ethernet tokenring } <i>elan_name [elan-id id]</i> no lane server-bus { ethernet tokenring } <i>elan_name [elan-id id]</i>	Configures the LES and BUS for the specified ELAN on the subinterface.	ATM	IC
mac-address , page 8-45	mac-address <i>ieee-address</i>	Defines the MAC layer address.	ATM	IC
mpoa client config name , page 8-46	mpoa client config name <i>mpc-name</i> no mpoa client config name <i>mpc-name</i>	Defines an MPC with a specified name.	ATM	IC
mpoa client name , page 8-47	mpoa client name <i>mpc-name</i> no mpoa client name <i>mpc-name</i>	Attaches an MPC to a major ATM interface.	ATM	IC
mtu , page 8-48	mtu <i>size</i>	Sets the interface MTU size.	ATM	IC
name , page 8-48	name <i>elan-name elan-id id</i> { local-seg-id new-name preempt restricted server-atm-address un-restricted } <i>atm-addr</i> no name <i>elan_name atm-addr</i>	Assigns a unique ELAN name to a LES. ⁴	ATM	Dbase
reload—ATM , page 8-50	reload	Reloads the operating system.	ATM	EXEC
shortcut-frame-count , page 8-51	shortcut-frame-count <i>count</i> no shortcut-frame-count	Specifies the maximum number of times a packet can be routed to the default router within the shortcut-frame time before an MPOA resolution request is sent.	ATM	MPC
shortcut-frame-time , page 8-52	shortcut-frame-time <i>time</i> no shortcut-frame-time	Sets the shortcut-setup frame time (in seconds) for the MPC.	ATM	MPC
show atm ilmi-status atm , page 8-52	show atm ilmi-status atm <i>mod_num/subcard_num/port_num</i>	Displays ILMI information about the ATM interface.	ATM	EXEC
show atm interface atm0 , page 8-54	show atm interface atm0	Displays information about the ATM interface.	ATM	EXEC
show atm traffic , page 8-55	show atm traffic	Displays global ATM traffic information.	ATM	EXEC
show atm vc , page 8-56	show atm vc [<i>vcd</i>]	Displays the active ATM virtual circuits.	ATM	EXEC
show atm vlan , page 8-57	show atm vlan [<i>vlan_num</i>]	Displays the active VLAN-to-PVC bindings.	ATM	EXEC
show history , page 8-58	show history	Lists the command history for the current EXEC session.	ATM	EXEC
show lane , page 8-59	show lane [interface atm0 [<i>.subinterface</i>] name elan-name] [brief]	Displays global and per-VCC LANE information.	ATM	EXEC

Command	Syntax	Description	Type	Mode
show lane bus , page 8-61	show lane bus [interface atm0 [.subinterface] name elan-name] [brief]	Displays LANE information for the configured BUS.	ATM	EXEC
show lane client , page 8-62	show lane client [interface atm0 [.subinterface] name elan-name] [brief]	Displays global and per-VCC LANE information.	ATM	EXEC
show lane config , page 8-63	show lane config [interface atm0] [brief]	Displays LANE information for the LECS.	ATM	EXEC
show lane default-atm-addresses , page 8-65	show lane default-atm-addresses	Displays default ATM addresses for dual PHYs.	ATM	EXEC
show lane le-arp , page 8-65	show lane le-arp [interface atm0 [.subinterface] name elan-name]	Displays the LE ARP table.	ATM	EXEC
show lane qos database , page 8-66	show lane qos database <i>name</i>	Displays the contents of a specific LANE QoS database	ATM	EXEC
show lane server , page 8-67	show lane server [interface atm0 [.subinterface] name elan-name] [brief]	Displays LANE information about the configured LES.	ATM	EXEC
show mpoa client , page 8-68	show mpoa client [name mpc-name] [brief]	Displays a summary of information regarding one/all MPCs.	ATM	EXEC
show mpoa client cache , page 8-70	show mpoa client [name mpc-name] cache [ingress egress] [ip-address ip-address]	Displays the ingress and/or egress cache entries matching the IP addresses for the MPCs.	ATM	EXEC
show mpoa client statistics , page 8-72	show mpoa client [name mpc-name] statistics	Displays all the statistics collected by an MPC.	ATM	EXEC
show mpoa default-atm-addresses , page 8-73	show mpoa default-atm-addresses	Displays the default ATM addresses for the MPC.	ATM	EXEC
show sscop , page 8-74	show sscop	Displays SSCOP details for all ATM interfaces.	ATM	EXEC
show version—ATM , page 8-76	show version	Displays version information for the ATM module.	ATM	EXEC
shutdown , page 8-78	shutdown no shutdown	Shuts down or restarts a physical interface.	Config	IC
sscop cc-timer , page 8-79	sscop cc-timer <i>msecs</i> no sscop cc-timer	Changes (in msecs) the SSCOP connection control timer value.	ATM	IC
sscop keepalive-timer , page 8-80	sscop keepalive-timer <i>msecs</i> no sscop keepalive-timer	Changes the SSCOP keepalive timer period (in msecs).	ATM	IC
sscop max-cc , page 8-80	sscop max-cc <i>retries</i> no sscop max-cc	Changes the maximum number of retries for connection control operations.	ATM	IC
sscop max-stat , page 8-81	sscop max-stat <i>entries</i> no sscop max-stat	Changes the maximum number of entries in a Stat frame.	ATM	IC

Command	Syntax	Description	Type	Mode
sscop poll-timer , page 8-82	sscop poll-timer <i>msecs</i> no sscop poll-timer	Changes the maximum time (in msec) to wait for a response before sending a POLL PDU.	ATM	IC
sscop receive-window , page 8-83	sscop receive-window <i>packets</i> no sscop receive-window	Changes the size of the SSCOP receiver window.	ATM	IC
sscop send-window , page 8-83	sscop send-window <i>packets</i> no sscop send-window	Changes the size of the SSCOP transmitter window.	ATM	IC
terminal , page 8-84	terminal length [<i>screen-length</i>] terminal no length	Sets the number of lines displayed on the terminal.	ATM	EXEC
ubr+cos , page 8-85	ubr+ cos {value range}	Maps the CoS value or range of values to a UBR+ VCC.	ATM	EXEC
write terminal , page 8-85	write terminal	Displays the ATM configuration information currently in running memory.	ATM	EXEC

1. This command is not supported by the ATM dual PHY OC-12 module, ATM software release 4.3(0).
2. This version of the **atm pvc** command is available only in ATM software release 50.1(1) and later and ATM software release 51.1(1) and later.
3. This command applies only to the ATM dual PHY OC-12 module.
4. The **new-name** and **preempt** variables are supported in Catalyst 5000 and 2926G series ATM software release 3.2(8) and later.