

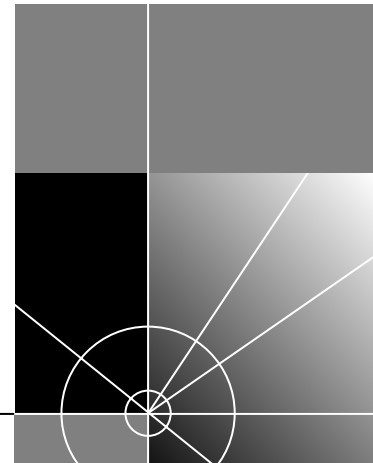


CoreBuilder® 5000 ATM Backbone SwitchModule Command Reference

Software Version 3.0

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CoreBuilder 5000 ATM Backbone SwitchModule Command Reference

This document contains a reference list of management commands for the 3Com CoreBuilder® 5000 ATM Backbone SwitchModule that is installed in the 3Com CoreBuilder 5000 Integrated System Hub.

This document lists only the Distributed Management Module (DMM) commands that apply to the ATM SwitchModule. For a complete set of DMM commands that apply to all modules in the CoreBuilder 5000 hub, see the *CoreBuilder 5000 Distributed Management Module Command*

Reference or Commands Guide. For information about configuring and managing ATM SwitchModule using the commands in this document, see the *CoreBuilder 5000 ATM Backbone SwitchModule User Guide*.

The commands in this document use the following syntax:

- CAPITALIZED TEXT – Main command stem.
- lower case text – Command parameters. Choose one.
- *italicized text* – Variable. Enter a value.

Terminal Keystroke Functions

The following table is a quick reference for terminal keystrokes and their functions.

Keystroke	Function
Backspace	Moves the cursor back one character and deletes that character.
Ctrl-C	Terminates the current command and redisplay a blank command line at any time.
Ctrl-D	Closes a Telnet session.
Ctrl-R	Retypes the previous command string on the command line.
Delete	Same as Backspace.
Enter	Enters the command.
Spacebar	Completes a command through <i>command completion</i> .
?	Displays the available command options.

Virtual Bridge Commands

Command	Parameters and Variables						
CLEAR VBRIDGE	1 through 240	aft	all	all learn mgmt rate_limited			
			bridge_port	slot.port all learn mgmt			
			mac	mac address in hex			
SET VBRIDGE	1 through 240	aft	aging_time	0 or 10 through 1000000			
			all	all learn mgmt	persistence	age noage permanent	
					source_check	disable enable	
			bridge_port	slot.port	all learn mgmt	persistence	age noage permanent
						source_check	disable enable
			mac	mac address	bridge_port	slot.port	
						filter	
						flood	
						persistence	age noage permanent
						source_check	disable enable
			igmp_snooping			group	age_time time
						mode	disable enable
						port	age_time time
						query_interval	
						query_listen_time	time
query_mode	disable enable						
reset_to_default							
router_port	slot.port						

Virtual Bridge Commands are continued on the next page

Virtual Bridge Commands (continued)

Command	Parameters and Variables							
SET VBRIDGE (continued)	1 through 240	interface	disable enable					
		name	<i>name</i>					
		stp	bridge_forward_delay	11 through 30 seconds				
			bridge_hello_time	1 through 9 seconds				
			bridge_max_age	6 through 28 seconds				
			mode	disable enable				
		priority	0 through 65535					
		reset_to_default						
SHOW VBRIDGE	1 through 240 all	aft	bridge_port	<i>slot.port</i>	all	nopause		
				<i>slot.all</i>	learn	pause		
				all	mgmt self			
			mac	all	<i>mac address</i>	all	nopause	
						learn	pause	
						mgmt self		
		configuration	status	no_verbose verbose				
				igmp_snooping	bridge_port	<i>slot.port</i>		
		ip	all <i>ip address</i>			bridge_port		
		mac	all <i>mac address</i>					
		router_port						
status								

Bridge Port Commands

Command	Parameters and Variables			
CLEAR BRIDGE_PORT	<i>slot.all</i> <i>slot.port</i>	<i>name</i>		
SET BRIDGE_PORT	<i>slot.all</i> <i>slot.port</i>	interface	disable enable	
		monitor	disable enable	
		name	<i>name</i>	
		stp	bridge_mode	disable enable
			path_cost	1 through 65535
			priority	0 through 256
		vbridge	1 through 256	
SHOW BRIDGE_PORT	all <i>slot.all</i> <i>slot.port</i>	no_verbose verbose		

Bridge Port LEC Commands

Command	Parameters and Variables			
CLEAR BPORT_LEC	<i>slot.port</i>	elan_name		
		lecs_atm_address		
		les_atm_address		
SET BPORT_LEC	<i>slot.port</i> <i>slot.all</i>	bus_rate_limit	0 through 65535 seconds	
		config_mode	automatic manual	
		elan_name	<i>name</i>	
		elan_type	802.3 unspecified	
		frame	max_frame_size	1516 4544 unspecified
			max_unknown_frame_count	1 through 10 frames
		lec_defaults		
		lec_atm_address	20 byte atm address	
		link_trap	disable enable	
		max_retry_count	0 through 2	
		mode	disable enable	
		num_elan_vccs	128 through 134	
		time	aging_time	10 through 300 seconds
			connect_complete_timer	1 through 10 seconds
			control_timeout	10 through 300 seconds
			expect_arp_resp_time	1 through 30 seconds
			flush_timeout	1 through 4 seconds
			forward_delay_time	4 through 30 seconds
			max_unknown_frame_time	1 through 10 seconds
			path_switch_delay	1 through 8 seconds
			vcc_timeout	0 through 2147483647 seconds

Bridge Port LEC Commands are continued on the next page

Bridge Port LEC Commands (continued)

Command	Parameters and Variables		
SHOW BPORT_LEC	<i>slot.port</i>	configuration	
		learp_table	all <i>mac address</i>
		server_circuits	
		statistics	
		status	

ATM Commands *Modifications to these ATM parameters should be made only by qualified ATM service personnel.*

Command	Parameters and Variables					
CLEAR ATM	<i>slot</i>	<i>if_name</i>	<i>name</i>			
SET ATM	<i>slot</i>	<i>ilmi</i>	<i>admin_vbridge</i>	<i>number</i>		
			<i>max_burst_size</i>	1 through 100 cells		
			<i>peak_cell_rate</i>	1 through 100 percent		
			<i>pvc</i>	<i>number</i>		
			<i>req_retries</i>	0 through 4		
			<i>req_timeout</i>	5 through 60 seconds		
			<i>sust_cell_rate</i>	1 through 100 percent		
			<i>learp_quiet_time</i>	0 through 60		
			<i>loss_of_signal_delay</i>	0 through 60		
			<i>neighbor</i>	<i>if_name</i>	<i>name</i>	
				<i>ip_address</i>	<i>ip address</i>	
			<i>num_lecs</i>	1 through 64		
			<i>num_vccs</i>	128 through 512		
			Q93b	<i>t303</i>	1 through 300 seconds	
				<i>t308</i>	1 through 300 seconds	
				<i>t309</i>	1 through 300 seconds	
				<i>t310</i>	1 through 300 seconds	
<i>t313</i>	1 through 300 seconds					
<i>t316</i>	1 through 300 seconds					
<i>t317</i>	1 through 300 seconds					
<i>t322</i>	1 through 300 seconds					

ATM Commands are continued on the next page

ATM Commands (continued) *Modifications to these ATM parameters should be made only by qualified ATM service personnel.*

Command	Parameters and Variables				
SET ATM (continued)	<i>slot</i>	qsaal	cc	1 through 300 seconds	
			idle	1 through 300 seconds	
			keepalive	1 through 300 seconds	
			max_cc_retries	1 through 4	
			max_pd_retries	1 through 25	
			no_response	1 through 300 seconds	
			poll	100 through 10000 milliseconds	
			stat_max_ranges	1 through 67	
			signal	max_burst_size	1 through 100 cells
				peak_cell_rate	1 through 100 percent
				sust_cell_rate	1 through 100 percent
			uni_version	3_0	
				3_1	
			vpi_vci_bits	0 through 3	
SHOW ATM	<i>slot</i>		ilmi_configuration		
			interface		
			q93b		
			qsaal		
			signal_configuration		
			statistics		
			traffic_descriptor	all <i>index</i>	
			vcc	all <i>vpi_num</i>	
SET SONET	<i>slot.port</i>	clock_source	external internal		
SHOW SONET	<i>slot.phy</i>	statistics	current		
			interval	all <i>number</i>	
		status			

Protocol Filter Commands

Command	Parameters and Variables		
CLEAR PROTOCOLS	<i>slot.1</i>	dsap enet snap	<i>filter in hex</i>
SET PROTOCOLS	<i>slot.1</i>	translation	default ipx8023
SHOW PROTOCOLS	<i>slot.1</i>	forwarding translation	

Module Commands

Command	Parameters and Variables		
SET MODULE	<i>slot.1</i>	analyzer	none system_sink
		igmp_snooping	disable enable
		phy_automatic_failover	disable enable
		phy_selection	1 or 2

Monitor and Counter Commands

Command	Parameters and Variables						
MONITOR	<i>mm:ss</i>	bridge_port	<i>slot.port</i>				
		vbridge	1 through 240				
SHOW COUNTER	bridge_port	<i>slot.all</i> <i>slot.port</i>	interface				
CLEAR COUNTER	counter	aft	vbridge	all 1 through 240	peak entries		
		bridge_port	<i>slot.all</i> <i>slot.port</i>	ethernet			
				fddi mac			
				fddi_port	all 1 or 2		
				igmp_snooping			
				interface			
				peak_rates			
				100BASE_X			
				ethernet	<i>network</i>		
				fast_ethernet	<i>network</i>		
				interface	<i>network</i>		
		ip_fragmentation	<i>module</i>	<i>slot</i>			
		packet_channel	<i>module</i>	<i>slot</i>			
		repeater	<i>network</i>	<i>port.slot</i>			
		rmon	all				
			ring_station				
	tr_mac_layer						
	tr_promiscuous						
	tr_source_routing						
	token_ring	<i>network</i>					

Port Commands

Command	Parameters and Variables		
SET PORT	<i>slot.port</i>	alert_filter	disable enable
		mode	disable enable

