



A

addresses

ATM

- addressing structure 3-7
- address resolution 3-6
- assigning automatically 3-7
- ILMI and 3-8
- LECS and 3-13
- viewing default 3-11

ILMI 3-8

LANE 3-7

LECS 3-13

ATM

addresses

- addressing structure 3-7
- address resolution 3-6
- assigning automatically 3-7
- default, displaying 3-11
- ILMI and 3-8
- LECS and 3-13

CLI

- accessing 2-2
- checking syntax 2-14
- command history 2-15
- command mode summary (table) 2-2
- editing command line 2-17
- global configuration mode 2-4
- help 2-13
- interface configuration mode 2-5
- line configuration mode 2-6
- operating 2-2
- privileged EXEC mode 2-3

syntax, checking 2-14

user EXEC mode 2-3

LANE

See LANE

LECS address 3-13

modules, session to 3-11

MPOA

See MPOA

PVCs

- removing 4-8
- setting up in ATM network 4-6
- unbinding 4-8
- VLANs and 4-6, 4-7

PVC traffic-shaping

- default configuration 4-6
- example configuration 4-9, 4-15

VCD 4-2

atm 7-2

ATM fabric integration module

configuring

- external OC-12 interface 6-3
- internal interface (ATM switch side) 6-5
- internal interface (Catalyst 5000 side) 6-4
- default configuration 6-2
- hardware and software restrictions 6-2
- overview 6-1

ATM LANE

See LANE

atm vc-per-vp command 7-11

B

BUS

- overview 3-3
- redundant 3-24
- setting up 3-14

C

Catalyst 5000 family

- overview (table) 1-2, 1-4

CLI

- accessing 2-2
- checking syntax 2-14
- command history 2-15
- command mode summary (table) 2-2
- editing command line 2-17
- global configuration mode 2-4
- help 2-13
- interface configuration mode 2-5
- line configuration mode 2-6
- operating 2-2
- privileged EXEC mode 2-3
- syntax, checking 2-14
- user EXEC mode 2-3

command modes

- global configuration 2-4
- interface configuration 2-5
- line configuration 2-6
- privileged EXEC 2-3
- user EXEC 2-3

Commands

- atm-address 7-2
- atm bind pvc vlan 7-3
- atm clock internal 7-4
- atm ds3-scrumble 7-5
- atm framing 7-6
- atm ilmi-enable 7-7
- atm ilmi-keepalive 7-8

- atm lbo 7-9
- atm preferred phy 7-10
- atm pvc 7-11
- atmsig close 7-15
- atm sonet 7-16
- atm traffic-shape rate 7-17
- atm uni-version 7-18
- clear mpoa client cache 7-20
- debug mpoa client 7-23
- default-name 7-24
- disable 7-25
- display-databases 7-26
- editing 7-27
- enable 7-30
- end 7-31
- exit 7-32
- help 7-33
- history 7-34
- interface 7-36
- lane auto-config-atm-address 7-37
- lane bus-atm-address 7-38
- lane client 7-39
- lane client-atm-address 7-40
- lane client mpoa client name 7-42, 7-43
- lane config-atm-address 7-44
- lane config database 7-46
- lane database 7-47
- lane le-arp 7-48
- lane register 7-51
- lane server-atm-address 7-53
- lane server-bus 7-54
- mpoa client config name 7-57
- mpoa client name 7-58
- mtu 7-60
- name 7-61
- name server-atm-address 7-61
- reload 7-63
- shortcut-frame-count 7-64
- shortcut-frame-time 7-65

show atm interface atm0 7-67
 show atm traffic 7-69
 show atm vc 7-70
 show atm vlan 7-71
 show history 7-72
 show lane 7-73
 show lane bus 7-75
 show lane client 7-77
 show lane config 7-79
 show lane default-atm-addresses 7-81
 show lane le-arp 7-82
 show lane server 7-84
 show mpoa client 7-86
 show mpoa default-atm-addresses 7-92
 show sscop 7-93
 show version 7-96
 shutdown 7-98
 sscop cc-timer 7-99
 sscop keepalive-timer 7-100
 sscop max-cc 7-101
 sscop max-stat 7-102
 sscop poll-timer 7-103
 sscop rcv-window 7-104
 sscop send-window 7-105
 terminal 7-106
 write terminal 7-108
 configuration modes
 global 2-4
 interface 2-5
 line 2-6
 summary 2-2
 Control Distribute VCC 3-5
 conventions, documentation xiii

D

database
 LECS
 default ELAN 3-17

 restricted-membership ELANs 3-20
 unrestricted-membership ELANs 3-18
 default configuration
 ATM fabric integration module 6-2
 ATM LANE 3-9
 PVC traffic-shaping 4-6
 documentation, related xii
 document conventions xiii
 document organization xi
 downloading
 software images
 example, multiple module 2-10, 2-11
 example, single module 2-9
 switching module 2-7
 dual PHY, connecting to ATM switch 3-12

E

editing command line 2-17
 ELANs
 address resolution 3-6
 LECs and 3-5
 VLANs and 3-4
 examples, conventions xiii
 EXEC mode
 privileged 2-3
 user 2-3

F

fabric integration modules
 See ATM fabric integration module and Layer 3 fabric integration module
 Fast PHY redundancy 2-21
 Fast SSRP 3-3, 3-10
 configuring 3-24

G

global configuration mode

ATM 2-4

H

history

ATM CLI 2-15

I

ILMI

address registration 3-8

keepalive timeout 2-25

interface configuration mode

ATM 2-5

interfaces

LANE and 3-9

K

keepalive, ILMI 2-25

L

LANE

ATM addresses

addressing structure 3-7

address resolution 3-6

automatic assignment 3-7

default, displaying 3-11

ILMI and 3-8

LECS and 3-13

BUS

overview 3-3

redundant 3-24

setting up 3-14

components 3-3

configuration guidelines 3-9

Control Distribute VCC 3-5

default configuration 3-9

ELANs

address resolution 3-6

VLANs and 3-4

example configurations 3-31

ILMI

address registration 3-8

keepalive timeout 2-25

implementation plan, creating 3-8

interfaces 3-9

lane auto-config-atm-address 7-37

lane bus-atm-address 7-38

lane client 7-39

lane client-atm-address 7-40

lane client mpoa client name 7-42

lane client qos 7-43

lane config-atm-address 7-44

lane config database 7-46

lane database 7-47

lane le-arp 7-48

lane qos database 7-49

lane register 7-51

lane server-atm-address 7-53

lane server-bus 7-54

LEC

joining an ELAN 3-5

overview 3-3

setting up 3-15

LECS

binding 3-23

database, default ELAN 3-17

database, restricted-membership ELANs 3-20

database, unrestricted-membership ELANs 3-18

overview 3-3

redundant 3-17

starting 3-23

- LES
 - overview 3-3
 - redundant 3-24
 - setting up 3-14
 - monitoring 3-27
 - MPOA and 5-5
 - Multicast Send VCC 3-6
 - multicast traffic and 3-6
 - operation 3-4
 - output throttling 2-24
 - overview 3-1
 - session command 3-11
 - subinterfaces 3-9
 - UNI 3.1 signaling 2-27
 - verifying setup 3-27
 - VTP
 - configuring 3-29
 - setting up 3-29
 - LANE broadcast-and-unknown server
 - See BUS
 - LANE client
 - See LEC
 - LANE configuration server
 - See LECS
 - LAN emulation
 - See LANE
 - LANE server
 - See LES
 - LE ARP 3-3
 - LEC
 - joining an ELAN 3-5
 - overview 3-3
 - setting up 3-15
 - VTP and 3-29
 - LECS
 - ATM address, configuring 3-13
 - binding 3-23
 - database
 - default ELAN 3-17
 - restricted-membership ELANs 3-20
 - unrestricted-membership ELANs 3-18
 - overview 3-3
 - redundant 3-17
 - starting 3-23
 - LES
 - overview 3-3
 - redundant 3-24
 - setting up 3-14
 - LightStream 1010
 - LECS ATM address and 3-13
 - PVC traffic-shaping and 4-10
 - setting up PVCs 4-10
 - line configuration mode 2-6
-
- ## M
- MIBs
 - support list 1-5
 - modules
 - ATM
 - configuring 3-1, 4-1, 5-1
 - ATM fabric integration module
 - configuring 6-1
 - downloading software images 2-7
 - MPC
 - monitoring 5-9
 - overview 5-4
 - MPOA
 - configuration guidelines 5-6
 - LANE and 5-5
 - lane client mpoa client name 7-42
 - lane server-bus 7-54
 - MPC
 - monitoring 5-9
 - overview 5-4

MPS

- configuring 5-10
- configuring variables 5-11
- overview 5-4
- NHRP and 5-4
- overview 5-2
- shortcut domains 5-5
- terminology (table) 5-3
- traffic flow 5-5

mpoa 7-57

MPS

- configuring 5-10
- configuring variables 5-11
- NHRP routing and 5-4
- overview 5-4

mtu 7-60

multicast

- LANE and 3-6

Multicast Send VCC 3-6

Multiprotocol Over ATM

See MPOA

N

network management

- overview 1-5

NHRP, MPOA and 5-4

O

output throttling, LANE and 2-24

overview

- Catalyst 5000 series switches (table) 1-2, 1-4
- software features 1-4
- supervisor engine software 1-4

P

permanent virtual connections

See PVCs

PHY

- dual 3-12

PHY redundancy 2-21

privileged EXEC mode

- ATM 2-3

PVCs

- removing 4-8
- setting up in ATM network 4-6
- unbinding 4-8
- VLANs and 4-6, 4-7

PVC traffic-shaping

- default configuration 4-6
- example configurations
 - nonredundant 4-9
 - redundant 4-15
- VLANs and 4-7

Q

QoS

- lane client 7-43

R

related documentation xii

S

session command

- ATM module and 2-2, 3-11

shortcut domains, MPOA and 5-5

software images

- downloading
 - example, multiple module 2-10, 2-11

- example, single module 2-9
 - switching module 2-7
- supervisor engine, description 1-4
- SSRP 3-3
- subinterfaces, LANE and 3-9
- supervisor engine
 - software description 1-4
 - software images
 - overview 1-4
- switching modules
 - See modules
- syntax, checking 2-14
- system image
 - switch
 - overview 1-4

T

- Telnet
 - disconnect 7-26
- TFTP
 - downloading software images
 - example, multiple module 2-10, 2-11
 - example, single module 2-9

U

- UNI 3.1, LANE and 2-27
- user EXEC mode
 - ATM 2-3

V

- VCD, PVCs and 4-2
- virtual channel descriptor
 - See VCD
- VLANs
 - ELANs and 3-4

- PVC-supported
 - configuring 4-6
 - removing 4-8
 - traffic shaping and 4-7
 - unbinding 4-8
- VTP
 - LANE
 - overview 3-29
 - setting up 3-29

W

- write 7-108

