



CHAPTER 4

Overview	4-1
Events	4-1
Inventory	4-1
Virtual Switching	4-2
SPAN	4-2
LLDP	4-2
Managing Device Operating Systems	4-2
Configuration Change Management	4-2
Configuration Delivery Management	4-2

CHAPTER 5

Managing Events	5-1
Information About Events	5-1
Licensing Requirements for the Event Browser	5-2
Prerequisites	5-2
Guidelines and Limitations for the Event Browser	5-2
Platform Support	5-3
Using the Event Browser and Events Tabs	5-3
Viewing the Event Browser	5-3
Applying and Removing an Event Filter	5-6
Viewing Events on an Events Tab	5-7
Changing the Status of an Event	5-8
Adding a Note to One or More Events	5-9
Deleting an Event	5-9
Field Descriptions for Events	5-10
Events Table	5-10
Event Details	5-11
Related Documents	5-12
Feature History for the Event Browser and Events Tabs	5-12

CHAPTER 6

Working with Inventory	6-1
Information About Inventory	6-1

- Understanding Inventory 6-2
- Understanding Power Usage 6-2
- Module Pre-Provisioning 6-2
 - Supported Hardware 6-2
 - Upgrades and Downgrades 6-3
- Licensing Requirements for Inventory 6-3
- Prerequisites 6-3
- Platform Support 6-3
- Configuring Module Pre-Provisioning 6-4
 - Pre-Provisioning Offline Modules 6-4
 - Pre-Provisioning Online Modules 6-4
 - Pre-Provisioning FEX Modules 6-5
- Reloading a Line Card 6-5
- Displaying Inventory Information 6-6
 - Displaying the Chassis Information 6-6
 - Displaying the Module Information 6-7
 - Displaying the Power Supply Information 6-8
 - Displaying the Fan Tray Information 6-8
- Displaying Power Usage Information 6-9
 - Displaying Power Usage Summary Information 6-9
 - Displaying Power Usage Details 6-9
 - Displaying Power Usage Statistics 6-10
- Field Descriptions 6-10
 - Inventory: Details: Hardware Section 6-10
 - Inventory: Details: Software Section 6-11
 - Inventory: Power Usage 6-11
- Feature History for Inventory 6-12

CHAPTER 7

Managing Virtual Switches 7-1

- Information About Virtual Switches 7-2
 - Domains 7-2
 - Layer 2 Control 7-2
 - Layer 3 Control 7-2
 - Server Connections 7-3
- Licensing Requirements for Virtual Switches 7-3
- Prerequisites 7-4
- Platform Support 7-4
- Configuring Domains 7-4

Creating a Domain with Layer 2 Control	7-4
Creating a Domain with Layer 3 Control	7-5
Changing a Domain to Layer 3 Control	7-6
Changing a Domain to Layer 2 Control	7-7
Configuring a Domain with a Control VLAN	7-8
Configuring a Domain with a Packet VLAN	7-8
Configuring Server Connections	7-9
Configuring a vCenter Server Connection	7-9
Deleting a vCenter Server Connection	7-10
Connecting to a vCenter Server	7-11
Disconnecting from a vCenter Server	7-11
Deleting the DVS from a vCenter Server	7-12
Removing Host Mapping from a Module	7-12
Displaying Neighbor Devices	7-13
Configuring a Control Interface	7-13
Monitoring Virtual Switches	7-15
Displaying Virtual Switch Summary Information	7-15
Displaying Virtual Switch Details	7-15
Field Descriptions	7-15
Inventory: Virtual Switch: Details: Domain Settings Section	7-16
Inventory: Virtual Switch: Details: Connection Settings Section	7-16
Inventory: Virtual Switch: Details: Neighbors Section	7-17
Inventory: Virtual Switch: Details: Control Interface Section	7-17
Additional References	7-17
Related Documents	7-17
Standards	7-18
Feature History for Virtual Switches	7-18

CHAPTER 8**Configuring SPAN 8-1**

Information About SPAN	8-2
SPAN Sources	8-2
SPAN Destinations	8-2
SPAN Sessions	8-2
Virtual SPAN Sessions	8-3
Multiple SPAN Sessions	8-3
High Availability	8-4
Virtualization Support	8-4
Licensing Requirements for SPAN	8-4

- Prerequisites 8-4
- Guidelines and Limitations 8-5
- Platform Support 8-6
- Default Settings 8-6
- Configuring SPAN 8-6
 - Configuring a SPAN Session 8-7
 - Configuring a Virtual SPAN Session 8-11
 - Configuring an RSPAN VLAN 8-15
 - Shutting Down or Resuming a SPAN Session 8-16
- Verifying the SPAN Configuration 8-18
- SPAN Example Configurations 8-19
 - SPAN Session Example Configuration 8-19
 - Virtual SPAN Session Example Configuration 8-19
 - Private VLAN Source in SPAN Session Example Configuration 8-20
- Field Descriptions for SPAN 8-21
 - Local SPAN Session: Configuration: Session Settings Section 8-21
 - Local SPAN Session: Configuration: Source and Destination Section 8-21
- Additional References 8-22
 - Related Documents 8-22
 - Standards 8-22
- Feature History for SPAN 8-22

CHAPTER 9

- Configuring LLDP 9-1**
 - Information About LLDP 9-2
 - LLDP Overview 9-2
 - High Availability 9-2
 - Virtualization Support 9-3
 - Licensing Requirements for LLDP 9-3
 - Prerequisites 9-3
 - Guidelines and Limitations for LLDP 9-3
 - Platform Support 9-4
 - Default Settings 9-4
 - Configuring LLDP 9-4
 - Enabling or Disabling LLDP Globally 9-4
 - Enabling or Disabling LLDP on an Interface 9-6
 - Configuring Optional LLDP Parameters 9-8
 - Verifying the LLDP Configuration 9-9

Configuration Example for LLDP	9-10
Additional References	9-10
Related Documents	9-10
Standards	9-11
Feature History for LLDP	9-11

CHAPTER 10**Managing Device Operating Systems 10-1**

Information About Device OS Management	10-1
Device OS Management Screen	10-2
Software Installation Jobs	10-2
File Servers	10-3
VDC Support	10-3
Licensing Requirements for Device OS Management	10-3
Prerequisites	10-4
Guidelines and Limitations for Device OS Management	10-4
Platform Support	10-4
Using the Device OS Management Window	10-5
Viewing Device Image Details	10-5
Installing Software on a Device	10-5
Configuring Software Installation Jobs	10-7
Viewing Software Installation Job Details	10-7
Creating or Editing a Software Installation Job	10-8
Using the Software Installation Wizard	10-9
Rescheduling a Software Installation Job	10-12
Deleting a Software Installation Job	10-13
Adding or Changing Comments for a Software Installation Job	10-14
Changing Installation Options for a Software Installation Job	10-14
Configuring File Servers	10-15
Adding a File Server	10-15
Changing a File Server	10-17
Deleting a File Server	10-17
Field Descriptions for Device OS Management	10-18
Field Descriptions for Device OS Management	10-18
Device: Details: System Section	10-18
Device: Details: Software Installation Jobs Section	10-19
Field Descriptions for Software Installation Jobs	10-19
Installation Job: Details: General Section	10-19
Installation Job: Details: Devices and Software Images Section	10-20

- Field Descriptions for the File Servers Contents Pane 10-20
- Additional References 10-21
 - Related Documents 10-22
 - Standards 10-22
- Feature History for Device OS Management 10-22

CHAPTER 11

- Working with Configuration Change Management 11-23**
 - Information About Configuration Change Management 11-23
 - Version Browser 11-24
 - Archival Jobs 11-24
 - Archival Settings 11-24
 - Switch Profiles 11-25
 - Switch Profile Configuration Modes 11-25
 - Configuration Validation 11-26
 - Software Upgrades and Downgrades with Switch Profiles 11-27
 - VDC Support 11-27
 - Licensing Requirements for Configuration Change Management 11-27
 - Prerequisites 11-27
 - Guidelines and Limitations for Configuration Change Management 11-28
 - Platform Support 11-28
 - Working with the Version Browser 11-28
 - Viewing the Archival Status of a Device 11-29
 - Viewing the Archival History of a Device 11-30
 - Browsing and Commenting on Configuration Versions 11-30
 - Using Copy Run to Start 11-31
 - Archiving the Current Running Configuration of a Device 11-31
 - Viewing an Archived Configuration Version 11-32
 - Comparing Configuration Versions 11-33
 - Using the Version Comparison Tools 11-35
 - Merging Configuration Differences 11-36
 - Performing a Configuration Rollback 11-37
 - Viewing the Rollback History of a Device 11-38
 - Deleting All Archived Configurations for a Device 11-39
 - Configuring Archival Jobs 11-40
 - Configuring an Archival Job 11-40
 - Enabling and Disabling an Archival Job 11-42
 - Deleting an Archival Job 11-42
 - Viewing Details of an Archival Job 11-43
 - Viewing the History of an Archival Job 11-43

Configuring Archival Settings	11-44
Configuring Version and History Settings	11-44
Configuring the Rollback File Server Setting	11-45
Configuring Switch Profiles	11-45
Configuring a Switch Profile	11-46
Configuring the Switch Profile Wizard Between Two vPCs	11-46
Configuring the Switch Profile Wizard Between Two Switches	11-47
Configuring the Sync Network View	11-47
Configuring the Switch Profile Migration Wizard for Dual Homed FEXs	11-48
Field Descriptions for Configuration Change Management	11-49
Field Descriptions for the Version Browser	11-49
Device: Details: Archival Status Section	11-49
Device: Details: Rollback History Section	11-50
Device: Details: Archival History Section	11-50
Version: Version Details Tab	11-50
Version: Compare Tab	11-51
Field Descriptions for Archival Jobs	11-51
Archival Job: Details Tab	11-51
Archival Job: Archival History Tab	11-52
Field Descriptions for the Archival Settings Contents Pane	11-52
Field Descriptions for the Switch Profiles Pane	11-53
Field Descriptions for the Switch Profiles Network View Pane	11-53
Additional References	11-53
Related Documents	11-54
Standards	11-54
Feature History for Configuration Change Management	11-54

CHAPTER 12**Using Configuration Delivery Management 12-55**

Information About Configuration Delivery Management	12-55
Job Sources	12-56
Template-Sourced Jobs	12-56
Delivery Options	12-56
VDC Support	12-57
Configuration Delivery Templates (ASCII Text Files)	12-57
Template Format	12-57
Template Properties Section	12-57
Template Content Section	12-58
Example Template	12-58
Configuration Delivery Templates and the Cisco DCNM Client	12-59

Predefined Templates	12-59
Custom Templates	12-62
Configuration Delivery Template Requirements	12-62
Template Format	12-62
Template Properties Section	12-63
Template Variable Section	12-64
Template Content Section	12-64
Example Template	12-66
Template Data Types	12-67
Licensing Requirements for Configuration Delivery Management	12-71
Prerequisites for Configuration Delivery Management	12-71
Guidelines and Limitations for Configuration Delivery Management	12-72
Platform Support	12-72
Using Configuration Delivery Management	12-72
Creating a Configuration Delivery Management Job	12-73
Adding a Configuration Delivery Job	12-74
Selecting a Device	12-75
Defining Variables	12-75
Previewing a Configuration	12-76
Adding a Predefined Template (ASCII Text Files)	12-76
Adding a Custom Template in the Cisco DCNM SAN Client	12-77
Importing a Custom Template in the Cisco DCNM SAN Client	12-77
Exporting a Custom Template in the Cisco DCNM SAN Client	12-78
Changing a Predefined Template (ASCII Text Files)	12-79
Changing a Custom Template in the Cisco DCNM Client	12-79
Removing a Predefined Template (ASCII Text Files)	12-80
Removing a Custom Template in the Cisco DCNM Client	12-81
Refreshing Cisco DNCM Servers with Template Updates (ASCII Text Files)	12-81
Configuring Job Delivery Options	12-83
Scheduling a Configuration Delivery Job	12-84
Removing a Configuration Delivery Job	12-84
Field Descriptions for Configuration Delivery Management	12-85
Delivery Job: Details: Configuration Section	12-85
Delivery Job: Details: Configuration Delivery Options Section	12-86
Configuration Delivery for Templates: FCoE Template	12-87
Configuration Delivery for Templates: FIP Snooping Template	12-87
Configuration Delivery for Templates: OTV Internal Interfaces Template	12-87
Configuration Delivery for Templates: OTV Multicast Template	12-87
Configuration Delivery for Templates: OTV Multicast with HSRP Isolation Template	12-88

Configuration Delivery for Templates: OTV Multicast with VRRP Isolation Template	12-88
Configuration Delivery for Templates: OTV Unicast with One Adjacency Server Template	12-89
Configuration Delivery for Templates: OTV Unicast with One Adjacency Server and HSRP Isolation Template	12-89
Configuration Delivery for Templates: OTV Unicast with One Adjacency Server and VRRP Isolation Template	12-89
Configuration Delivery for Templates: OTV Unicast with Two Adjacency Servers Template	12-90
Configuration Delivery for Templates: OTV Unicast with Two Adjacency Servers and HSRP Isolation Template	12-90
Configuration Delivery for Templates: OTV Unicast with Two Adjacency Servers and VRRP Isolation Template	12-91
Configuration Delivery for Templates: Virtual Port Channel Template	12-91
Configuration Delivery for Templates: Zone Template	12-93
Additional References	12-93
Related Documents	12-93
Standards	12-94
Feature History for Configuration Delivery Management	12-94

INDEX

