



INDEX

Numerics

- 802.11a/n
 Parameters
 monitor **5-25**
 RRM Grouping
 monitor **5-27**
 RRM Groups
 monitor **5-30**
802.11a/n Parameters **9-124**
 DCA **9-127**
 EDCA **9-132**
 General **9-124**
 High Throughput **9-134, 9-135**
 Media **9-130, 9-140**
 Roaming **9-133**
 RRM Intervals **9-126**
 RRM Radio Grouping **9-129**
 RRM Thresholds **9-134**
802.11 association diagnostic test **10-30**
802.11b/g/n
 Parameters
 monitor **5-29**
802.11b/g/n DTIM period **11-37**
802.11b/g/n Parameters **9-136**
 EDCA **9-143**
 General **9-136**
 High Throughput **9-144, 9-145**
 Roaming **9-143**
 RRM Intervals **9-138**
 RRM Thresholds **9-138**
802.11b/g/n Parameters Controller Templates **11-107**
802.11b/g RRM interval template **11-104**
802.11b/g RR threshold templates **11-102**
802.11 Counters
 access points **5-55**
802.11 counters report **14-150**
802.11 General Parameters
 configuring **9-117**
802.11h template **11-99**
 configuring **11-99**
802.11 MAC Counters
 access points **5-79**
802.11n summary reports **14-146**
802.11 Parameters
 configuring **9-117**
802.11 security trap **11-125**
802.1n scaling reports **14-6**
802.1X authentication diagnostic test **10-30**
802.1X supplicant credentials **11-12**
802.3 Bridging
 configuring **9-30**
802.3x Flow Control **9-30**
880 series ISRs **1-7**

A

- AAA
 AAA mode **15-87**
 active sessions **15-95**
 AP/MSE Authorization **9-94**
 General **9-87**
 LDAP Servers **9-90**
 local password policy **15-88**
 MAC Filtering **9-93**
 RADIUS **15-98**

- TACACS+ **15-95**
- TACACS+ Servers **9-91**
- users **15-89**
- Web Auth Configuration **9-95**
- AAA Local Net Users **9-92**
- AAA Mode **15-87**
- AAA override **11-31**
- AAA RADIUS
 - Acct Servers **9-88**
 - Fallback Parameters **9-89**
 - AAA servers **11-30**
 - AAA traps **11-125**
 - absolute **6-114**
- Access Control List
 - Rules **9-102**
- Access Control Lists
 - configuring **9-102**
- access control list template **11-79**
- access control list templates **11-72**
- access mode **9-166**
- access point
 - configuring for FlexConnect **12-8**
 - credentials **9-162**
 - friendly **11-86**
- access point authorization template **11-62**
- access point icons **6-45**
- access point load
 - avoiding **11-94**
- Access Point Password
 - Global **9-60**
- access point positions
 - changing with import or export of file **6-56, 6-57**
- Access Points
 - Cisco APs
 - configuring **9-115**
 - detecting **5-112**
 - disabling
 - ineligible **11-154**
 - Monitoring
- overview **5-43**
- radio utilization **5-56**
- Tx power and channel **5-56**
- access points
 - configuring **9-174**
 - configuring for LOMM **9-194**
 - embedded **1-7**
 - positioning **6-56**
 - searching **2-37, 9-198**
- access points, adding to maps **6-34 to 6-39**
- access point threats **3-8**
- access point threats or attacks **3-8**
- Access Point Timer Settings **9-64**
- access point traps **11-124**
- Account
 - creating **7-17**
- ACL
 - configuring **9-102**
 - Rules **9-102**
- ACL IP group details **11-72**
- ACL Protocol Groups
 - configuring **11-78**
- ACL template **11-79**
 - configuring **11-79**
- ACS View Server credentials **9-247**
- ACS View Servers
 - configure **9-246**
- ACS view server tab **10-28**
- active interferer count per channel **9-212**
- active interferers **9-211**
- active interferers count chart **9-212**
- Active Sessions **15-95**
- active sessions
 - monitoring **7-4**
- adaptive scan threshold **11-99**
- adaptive wIPS alarm report **14-168, 14-170, 14-175, 14-184**
- adaptive wIPS top 10 APs report **14-173**
- add config groups **8-16**
- add group members **8-10**

adding a spectrum expert **9-210**
 adding autonomous access points
 by CSV file **9-170**
 by device information **9-169**
 adding autonomous access points to NCS **9-169**
 adding IOS access points **9-169**
 by device information **9-169**
 adding launch points
 for Google Earth **6-118**
 adding NCS as TACACS+ server **15-103**
 Adding System Interfaces **9-40**
 adding templates from config group **8-19**
 Adhoc Rogue
 alarm details **5-108**
 Alarms
 overview **5-105**
 Events
 details **5-116**
 monitoring alarms **5-106**
 adhoc rogues **3-6**
 adhoc rogues report **14-178**
 adjusted link metric **6-82**
 Administrative Tools
 overview **2-27**
 advanced debug **17-7**
 advanced options **6-94**
 Advanced Parameters **16-33**
 advanced search **2-34, 5-110**
 Advanced tab
 on WLAN template **11-33**
 age out dual band **9-121**
 age out suppression **9-121**
 aggregated historical data **15-60**
 Aggressive Load Balancing **9-31**
 aggressive load balancing **9-118**
 Aironet IE **9-73, 11-34**
 Airopéek
 configuring **9-116**
 Alarm
 details **5-91**
 alarm **5-132**
 alarm cleanup options **15-52**
 alarm counts
 for access points **5-138**
 for controllers **5-138**
 for coverage hole **5-138**
 for malicious APs **5-138**
 for mesh links **5-138**
 for mobility **5-138**
 for security **5-138**
 for unclassified APs **5-138**
 alarm dashboard **5-137**
 alarm display options **15-52**
 Alarms
 acknowledging **5-140**
 Adhoc Rogue
 details **5-108**
 overview **5-105**
 assigning **5-139**
 cleaning **5-140**
 deleting **5-140**
 email notifications **5-145**
 monitoring **5-1**
 Rogue APs **5-95**
 unassigning **5-139**
 alarms **13-1**
 assigning **3-16**
 clearing **3-16**
 config audit **17-11**
 deleting **3-16**
 searching **2-36**
 unassigning **3-16**
 alarm severity
 configuring **5-139**
 alarm summary **2-27**
 alarm trigger threshold **11-66**
 alarm warning **5-141**
 all groups window **15-106**

- allow AAA override **9-71**
- alternate parent report **14-130**
- altitude **6-114**
- altitude mode **6-114**
- anonymous provision **11-57**
- anonymous provisioning **11-57**
- AP/MSE Authorization
 - configuring **9-94**
- AP authentication
 - template **11-65**
- AP Authentication and MFP
 - configuring **9-114**
- AP authorization
 - template **11-62**
- AP Config
 - export **9-185**
- AP-detected interferers
 - searching **2-43**
- AP Failover Priority **9-29**
- AP failover priority
 - setting **9-162**
- AP load
 - avoiding **11-94**
- AP Location data **6-55**
- AP manager IP **11-152**
- applying CLI commands **11-130**
- applying config groups **8-19**
- AP policies **3-31**
- AP policies template **11-82**
- AP Profile Status
 - access points **5-56**
- AP profile status report **14-92**
- APs
 - 802.11 Counters **5-55**
 - AP Profile Status **5-56**
 - autonomous
 - templates **11-146**
 - configuration templates **11-136**
 - copy and replace **9-195**
- Coverage (RSSI) **5-52**
- Coverage (SNR) **5-52**
- details **5-57**
 - CDP Neighbors **5-69**
 - general **5-58, 5-65**
 - interfaces **5-67**
- Dynamic Power Control **5-50**
- Edit View **5-46**
- Export AP config **9-185**
- Generate Report **5-47**
- Interference **5-51**
- lightweight
 - templates **11-137**
- lightweight access point template **11-137**
- monitor
 - overview **5-43**
- Noise **5-51**
- Radio
 - details **5-71**
 - radio **9-185**
 - remove unassociated **9-195**
- TSM **5-56**
- UpTime **5-52**
- Voice Statistics **5-53**
- Voice TSM Reports **5-55**
- Voice TSM Table **5-53**
- AP Status Report
 - Scheduled Task **9-221**
- AP Template
 - tasks **9-221**
- AP Template Task
 - delete **9-222**
 - enable, disable **9-222**
 - history **9-222**
 - modify **9-221**
- AP Timer Settings **9-64**
- AP up time **5-81**
- AP Username Password Controller Templates **11-11**
- asset matching criteria **16-77**

- assigning location presence **6-18**
 - assigning virtual domains **7-16, 15-92**
 - association request failures **5-85**
 - association request success **5-85**
 - association request timeouts **5-85**
 - attacks
 - access points **3-8**
 - attacks detected **3-9**
 - AUDIT_STATUS_DIFFERENCE** **13-87**
 - auditing config groups **8-20**
 - auditing FlexConnect groups **12-13**
 - Audit Mode
 - basic audit **15-54**
 - template based audit **15-54**
 - Audit Now **9-21**
 - audit report
 - for alarms **16-89**
 - audit trail
 - viewing **7-9**
 - Authentication Priority
 - configuring **9-156**
 - authentication priority
 - template **11-129**
 - authentication process
 - FlexConnect **12-2**
 - authentication request failures **5-85**
 - authentication request success **5-85**
 - authentication request timeout **5-85**
 - auto key generation **11-42**
 - automatic backups, scheduling **4-7**
 - automatic client exclusion **11-35**
 - automatic client troubleshooting **10-34, 15-55**
 - autonomous access points
 - downloading images **9-174**
 - Autonomous AP
 - Migration Templates
 - edit **11-150**
 - Autonomous AP Client Authentication Failure **10-6**
 - Autonomous APs
 - template **11-146**
 - new **11-146**
 - templates **11-146**
 - autonomous to lightweight migration **9-168**
 - autonomous to LWAPP migration support **9-168**
 - auto provisioning filter
 - editing **9-234**
 - auto refresh **6-98, 6-110**
 - avoid access point load **11-94**
 - avoid Cisco AP load **11-94**
 - avoid foreign AP interference **11-94**
 - avoid non-802.11 noise **11-94**
-
- B**
- background scanning **9-56**
 - on mesh configuration **11-122**
 - on templates **11-122**
 - background scanning in mesh networks
 - described **9-54 to 9-55**
 - scenarios **9-55**
 - Background Scan parameter **9-56**
 - backhaul interface **5-83**
 - band selection **9-120**
 - battery level
 - condition type **16-76**
 - bridge group name **5-83**
 - Bridging link information **6-81, 6-88**
 - bridging link information **6-81, 6-88**
 - bridging mesh statistics **5-83**
 - broadcast deauthentication frame signatures **3-34**
 - bronze **11-32**
 - bronze queue **5-85**
 - buildings
 - adding to NCS database **6-19**
 - busiest APs report **14-95**
 - busiest client report **14-41**

C

- CA Certificate
 - configuring **9-105**
- CA certificates **4-4**
- calculating access point requirements **6-92**
- calibrating client **11-133**
- CAS **16-1**
- cascade reboot **8-21**
- CCX client statistics report **14-68**
- CDP Interface Neighbors
 - controller ports
 - monitor **5-14**
- certificate signing request **3-44**
- change order buttons **14-13**
- Chokepoint
 - adding to NCS database **9-215**
 - adding to NCS map **9-215**
 - removing from NCS **9-217**
 - removing from NCS map **9-216**
- chokepoint
 - condition type **16-77**
- Chokepoints **5-120**
 - new **9-215**
- chokepoints
 - positioning **6-56**
- CIDR notation **11-72**
- Cisco Access Points
 - configuring **9-115**
- Cisco Adaptive wIPS
 - alarms **5-146**
- Cisco Aironet 1510 Access Points
 - in Mesh network **9-54**
- Cisco AP load
 - avoiding **11-94**
- Cisco Discovery Protocol **9-180**
- Cisco Unified Network Solution
 - overview **1-1 to 1-2**
- Cisco Unified Wireless LAN Solution
 - security solutions **3-1 to 3-29**
 - civic address **6-18**
 - CKIP **9-70**
 - clamped to ground **6-114**
 - classification rule **11-83**
 - Classifying Rogue APs **5-99**
 - clear config **9-183**
 - CLI
 - template **11-129**
 - CLI commands
 - applying to template **11-130**
 - Client
 - disable **10-40**
 - remove **10-40**
 - Sessions Report **10-41**
 - client **10-41**
 - calibrating **11-133**
 - managing **10-2**
 - client alarm summary **10-7**
 - client association failure **10-6**
 - client authentication failure **10-6**
 - client authentication provision **11-57**
 - client authentication type distribution **10-10**
 - client count report **14-44**
 - client detail page **10-16**
 - Client Details
 - Association History **10-18**
 - CCXv5 Information **10-20**
 - Location Information **10-19**
 - Statistics **10-19**
 - client details
 - retrieving from access point page **10-34**
 - client devices
 - connecting to WLANs **12-9**
 - client distribution **10-4**
 - client excluded **10-6**
 - client exclusion **9-74, 11-35**
 - happening automatically **11-35**
 - Client Exclusion Policies

configuring **9-109**
 client exclusion policies **11-64**
 template **11-64**
 client exclusion policies template **11-64**
 Client Location
 current map **10-41**
 recent map **10-41**
 client related traps **11-124**
 client reports **14-40**
 clients
 searching **2-40**
 client sessions report **14-47**
 Client Summary
 filtering **10-11**
 client summary report **14-51**
 client tab **10-3**
 client traffic **10-7**
 client traffic stream metrics report **14-57**
 client troubleshooting
 automatic **15-55**
 enabling **10-34**
 client WEP key decryption error **10-6**
 client WPA MIC error counter activated **10-6**
 CLI Sessions
 monito **5-7**
 CLI sessions **15-61, 15-78**
 color coding
 of obstacles **6-74**
 compliance report **14-70**
 concept **17-11**
 condition type
 for event definitions **16-76**
 config audit **17-11**
 config audit alarms **17-11**
 config group
 adding templates **8-19**
 configuring **8-18**
 downloading IDS signatures **8-23**
 downloading sw to controllers **8-22**
 removing controllers **8-18**
 removing templates **8-19**
 config group audits **8-20**
 config groups
 applying **8-19**
 auditing **8-20**
 creating **8-16**
 downloading customized webauth **8-23**
 rebooting **8-21**
 reporting **8-22**
 Config Group Task
 delete **9-224**
 enable/disable **9-224**
 history **9-224**
 Config Group Tasks **9-223**
 modify **9-223**
 Configuration
 scheduled **9-221**
 configuration audit report **14-71**
 Configuration Backup **15-13**
 Configure Access Points
 Radio **9-185**
 Configure APs
 copy and replace **9-195**
 Configure Controllers
 802.11
 General Parameters **9-117**
 802.11a/n Parameters **9-124**
 Dynamic Channel Assignment **9-127**
 EDCA **9-132**
 General **9-124**
 High Throughput **9-134, 9-135**
 Media **9-130, 9-140**
 Roaming **9-133**
 RRM Intervals **9-126**
 RRM Radio Grouping **9-129**
 RRM Thresholds **9-134**
 802.11b/g/n Parameters **9-136**
 EDCA **9-143**

- General **9-136**
- High Throughput **9-144, 9-145**
- Roaming **9-143**
- RRM DCA List **9-139**
- RRM Radio Grouping **9-140**
- RRM Thresholds **9-138**
- 802.11 Parameters **9-117**
- Access Control List
 - Rules **9-102**
- Access Points
 - Cisco APs **9-115**
- Download Customized Web Auth Bundle **9-38**
- Download IDS signatures **9-38**
- Downloading Configuration **9-36**
- Downloading Software **9-36**
- Download Web Admin Certificate **9-37**
- FlexConnect **9-82**
- FlexConnect AP Groups **9-82**
- Management **9-150**
 - Authentication Priority **9-156**
 - Local Management Users **9-156**
 - multiple servers **9-154**
 - Syslog **9-154**
 - Telnet SSH **9-153**
 - Trap Receivers **9-150**
 - Web Admin **9-154**
- Mesh **9-146**
- Ports **9-149**
- Rebooting Controllers **9-9, 9-10**
- Removing Controllers **9-8**
- Security
 - AAA **9-86**
 - AAA AP authorization **9-94**
 - AAA Local Net Users **9-92**
 - AAA RADIUS Acct Servers **9-88**
 - AAA RADIUS Auth Servers **9-87**
 - Access Control Lists **9-102**
 - AP Authentication and MFP **9-114**
 - CA Certificate **9-105**
 - Client Exclusion Policies **9-109**
 - CPU Access Control List **9-104**
 - Custom Signatures **9-114**
 - Disabled Clients **9-101**
 - file encryption **9-86**
 - ID Certificate **9-106**
 - IDS Sensor List **9-105**
 - Local EAP **9-97**
 - Local EAP General **9-97**
 - Local EAP general EAP-FAST parameters **9-100**
 - Local EAP General Network Users Priority **9-100**
 - Local EAP Profiles **9-98**
 - Rogue Policies **9-108**
 - Standard Signatures **9-110**
 - User Login Policies **9-101**
 - Web Auth Certificate **9-107**
 - Wireless Protection **9-107**
 - System
 - DHCP Scopes **9-57**
 - Mobility Groups **9-51**
 - Network Route **9-50**
 - Network Time Protocol **9-54**
 - QoS Profiles **9-57**
 - Spanning Tree Protocol **9-51**
 - System Commands **9-32**
 - System Interfaces **9-39**
 - Uploading Files from Controllers **9-35**
 - Configuring
 - ACL Protocol Groups **11-78**
 - Wired Guest Access **9-47**
 - Configuring 802.3 Bridging **9-30**
 - configuring access points **9-174**
 - configuring a client exclusion policy template **11-84**
 - configuring a CPU ACL template **11-79**
 - configuring a high throughput template **11-100**
 - configuring a local EAP general template **11-53**
 - configuring a local EAP profile template **11-54**
 - configuring a manually disabled client template **11-63**
 - configuring a mesh template **11-121**

- configuring an 802.11h template **11-99**
- configuring an access point **11-62**
- configuring an access point for FlexConnect **12-8**
- configuring an EAP-FAST template **11-56**
- configuring an RRM interval template **11-104**
- configuring an RRM threshold template **11-99**
- configuring a policy name template **11-92**
- configuring a roaming parameters template **11-96**
- configuring a TACACS+ server template **11-49**
- configuring a trusted AP policies template **11-82**
- configuring a user authentication priority template **11-129**
- configuring a user login policies template **11-60**
- configuring config group **8-16**
- configuring controller WLANs **9-65**
- configuring EDCA parameters
 - through a template **11-96**
- Configuring Existing Controllers **9-23**
- configuring firewall for NCS **3-30**
- configuring FlexConnect **12-1**
- configuring FlexConnect access point groups **12-9**
- configuring FlexConnect AP groups **11-38**
- configuring FlexConnect groups **12-11**
- configuring global credentials **9-162**
- configuring global email parameters **15-63**
- Configuring IDS **3-33**
- Configuring IDS signatures **3-33**
- configuring intrusion detection systems **3-33**
- configuring multiple country codes **8-14**
- configuring search results **2-46**
- configuring spectrum experts **9-210**
- configuring template
 - ACL **11-63**
 - for rogue AP rule groups **11-84**
- configuring templates
 - 802.11b/g RRM interval **11-104**
 - access point authentication and MFP **11-82**
 - access point authorization **11-62**
 - file encryption **11-45**
 - guest users **11-59**
- known rogue access point **11-99**
- local management user **11-128**
- MAC filter **11-61**
- RADIUS accounting **11-48**
- RADIUS authentication **11-46**
- syslog **11-126**
- Telnet SSH **11-125**
- traffic stream metrics QoS **11-20**
- trap control **11-123**
- WLAN **11-22**
- configuring the controller for FlexConnect **12-6**
- configuring the switch
 - for FlexConnect **12-5**
- Configuring User Roles **9-59**
- connecting client devices
 - to WLANs **12-9**
- Connecting to the Guest WLAN **3-44**
- context aware configuring **16-95**
- context-aware software **16-1**
- Controller
 - General System Parameters **9-26**
 - Multicast Mode **9-63**
 - Template Launch Pad **11-1**
 - Uploading configuration/logs **9-35**
- controller
 - configuring for FlexConnect **12-6**
- controller details **11-152**
- Controller DHCP **9-62**
 - configuring **9-62**
- controller license information **15-133**
- controller operational status **15-15**
- Controllers
 - Adding an Interface **9-40**
 - configuring existing **9-23**
 - DHCP Stats
 - monitor **5-8**
 - Edit View **5-3**
 - monitor
 - Summary **5-4**

- monitoring **5-1**
 - search **5-2**
 - System Parameters
 - monitor **5-3**
 - controllers
 - adding **9-4**
 - adding to NCS database **4-1**
 - searching **2-39**
 - specified **1-1**
 - Controller Security
 - monitor **5-15**
 - Controller Templates
 - 802.11b/g/n Parameters **11-107**
 - Adding **11-2**
 - applying **11-2**
 - AP Username Password **11-11**
 - delete **11-2**
 - managing, creating **11-4**
 - SNMP Community **11-9**
 - Viewing **9-21**
 - Voice
 - 802.11b/g/n **9-122, 11-90, 11-95, 11-110**
 - Controller Time and Date **9-35**
 - controller upgrade settings **15-59, 15-61, 15-78**
 - Controller User Roles **9-59**
 - controller WLANs
 - configuring **9-65**
 - Country Codes
 - setting multiple **9-118**
 - country codes
 - multiple **8-14**
 - Coverage (RSSI)
 - access points **5-52**
 - Coverage (SNR)
 - access points **5-52**
 - coverage hole **5-88**
 - coverage hole reports **14-153**
 - CPU access control
 - template **11-79**
 - CPU Access Control Lists
 - configuring **9-104**
 - CPU ACL
 - configuring **9-104**
 - Cranite **9-68**
 - Creating Account **7-17**
 - Creating a Lobby Ambassador Account **7-17**
 - Creating guest user accounts **7-10**
 - creating placemarks **6-115**
 - creating virtual domains **15-41**
 - CSR **3-44**
 - CSV files **6-116**
 - Current building
 - delete **6-22**
 - edit map **6-21**
 - Custom and Standard Signatures
 - Global Settings **9-113**
 - customized webauth
 - downloading **8-23**
 - Customized Web Auth Bundle
 - download **9-38**
 - Customized WebAuth Bundles
 - downloads **9-16**
 - Customized Web authentication **3-42**
 - customized web authentication
 - downloading **11-68**
 - customize report **14-12**
 - Custom signature **3-39**
 - Custom Signatures
 - configuring **9-114**
-
- D**
- data collection
 - for RFID tag **11-133**
 - DCA **11-105, 11-118**
 - 802.11a/n **9-127**
 - debug commands **A-4**
 - debug strategy **A-4**

default lobby ambassador credentials
editing **7-9, 7-14**

deleting a license **B-4**

deleting a WLAN **9-77**

deleting guest user templates **7-12**

deleting NCS user accounts **7-3**

designing a network **6-99**

destination type
for report **14-8**

Detecting APs **5-112**
details
clients **10-42**

device certificates **4-3**

device information **9-169**

device report **14-90**

DHCP
configuring **9-62**

DHCP diagnostic test **10-30**

DHCP Scopes
configuring **9-57**

DHCP server
overriding **11-37**

DHCP Stats
controllers
monitor **5-8**

diagnostic channel **A-1**

diagnostic test
802.11 association **10-30**
802.1X authentication **10-30**
DHCP **10-30**
DNS ping **10-30**
DNS resolution **10-30**
IP connectivity **10-30**
profile redirect **10-30**

Disable
client **10-40**

Disabled Clients
manual **9-101**

disabled clients

template **11-63**
disabling IDS signatures **3-38**

Discovering Templates from Controllers **9-19**

Distance
condition type **16-76**

DNS ping diagnostic test **10-30**

DNS resolution diagnostic test **10-30**

Download
Web Admin Certificate **9-155**
Web Auth Certificate **9-155**
downloading a customized web authentication page **11-68**
downloading autonomous AP images **9-184**
Downloading Configurations to Controllers **9-36**
downloading customized webauth **8-23**
Downloading customized web authentication **3-42**
Downloading IDS signatures **3-37**
downloading IDS signatures
from your config group **8-23**
downloading images
to autonomous access points **9-173**

Downloading Signature Files **9-111**

Downloading Software
controllers **9-36**
downloading sw to controllers
after adding config group **8-22**
downloading vendor CA certificates **4-4**
downloading vendor device certificates **4-3**

Downloads
Customized WebAuth Bundles **9-16**
Vendor CA Certificates **9-18**
Vendor Device Certificate **9-17**
downstream delay **11-21**
downstream packet loss rate **11-21**
drawing polygon areas
using map editor **6-72**

DTIM **11-93**

Dynamic Channel Assignment
802.11a/n **9-127**
dynamic interface **11-15**

E

EAP-FAST

 template **11-56**EAP-FAST template **11-56**EAPOL flood signature **3-35**

EDCA

 802.11b/g/n Parameters **9-143**

EDCA parameter

 template **11-97**

EDCA parameters

 configuring through a template **11-96**editing saved reports **14-19**Editing signature parameters **3-40**editing the default lobby ambassador credentials **7-9, 7-14**edit location presence information **6-18**

Edit View

 access points **5-46** controllers **5-3** general **2-47**egress interface **9-67**

email

 configuring parameters **15-62**

Email Notifications

 alarms **5-145**embedded access points **1-7**

emergency

 condition type **16-77**enable background audit **8-17**enable enforcement **8-17**enable log module **15-122**enabling **10-41**

enabling audit trails

 for guest user activities **7-10**enabling IDS signatures **3-38**Enabling Web login **3-41**end user license agreement **B-7 to B-12**Ethernet bridging **9-164**

Ethernet Switch

credentials **9-203**remove **9-210**Ethernet VLAN tagging guidelines **9-165**

evaluation license

 for controller **15-134** for MSE **15-136**event history **10-27, 16-89**

Events

 Adhoc Rogue **5-153** details **5-116** monitoring **5-148** overview **5-148** Pre Coverage Holes **5-154** Rogue Alarms **5-113**

Rogue AP

 details **5-114** Rogue APs **5-152** working with **5-158**

events

 searching **2-42**exclude device list **15-79**excluded packets **5-84**exclude switch trunk ports **15-79**exclude vendor list **15-80**executive summary report **14-147**exporting a file **6-56** to change access point position **6-56, 6-57**export task list **15-106**extend to ground **6-114**

extension license

 for controller **15-134** for MSE **15-136**extracting task list **15-112****F**

Factory Defaults

 restoring **9-34**failover mechanism **15-126**

Failover Priority [9-29](#)

feature

of NCS license [15-132](#)

File Encryption

controller [9-86](#)

file encryption template [11-45](#)

filter

editing current auto provisioning [9-234](#)

filtering

using to modify maps [6-88](#)

filtering saved reports [14-18](#)

filtering scheduled run results [14-16](#)

firewall, configuring for NCS [3-30](#)

FlexConnect

bandwidth restriction [11-33, 12-3](#)

configuring [12-1](#)

FlexConnect access point groups [12-9](#)

FlexConnect AP Groups

configuring [9-82](#)

FlexConnect AP groups

configuring [11-40](#)

configuring template [11-40](#)

FlexConnect configuration tab [11-41](#)

FlexConnect Group

auditing [9-85](#)

FlexConnect groups [12-10](#)

auditing [12-13](#)

FlexConnect local switching [9-72, 11-33](#)

FlexConnect Parameters [9-82](#)

Floor Areas

delete [6-40](#)

edit [6-40](#)

foreign access point interference

avoiding [11-94](#)

foreign AP interference

avoiding [11-94](#)

Frame type [3-39](#)

friendly access point template [11-86](#)

friendly AP

template [11-86](#)

friendly rogue [11-82](#)

friendly rogue access points [3-8](#)

FTP

turning on and off [15-71](#)

G

general templates

configuring [11-5](#)

generating migration analysis report [17-13](#)

geographical coordinates [6-113](#)

Global AP Password

configuring [9-60](#)

global credentials

configuring [9-162](#)

Global Settings

Standard and Custom Signatures [9-113](#)

Global settings

for standard and custom signatures [3-40](#)

Global SSID Group

add [9-243](#)

delete [9-244](#)

edit [9-244](#)

gold [11-32](#)

gold queue [5-84](#)

Google Earth

adding launch points [6-118](#)

Google Earth coordinates [6-114](#)

Google KML or CSV

importing into NCS [6-117](#)

GPS markers [6-18](#)

grace period license

for controller [15-134](#)

groups

for FlexConnect [12-11](#)

for rogue access point rules [11-84](#)

group setup window on ACS server [15-107](#)

GUEST_USER_ADDED [13-67](#)

GUEST_USER_AUTHENTICATED [13-67](#)

guest account settings [15-61](#)

guest accounts status report [14-121](#)

guest association report [14-123](#)

guest count report [14-124](#)

guest reports [14-121](#)

guest user

 template [11-59](#)

guest user account

 scheduling [7-12](#)

guest user accounts

 managing [7-11](#)

guest user details

 emailing [7-13](#)

 print [7-13](#)

Guest Users

 monitoring [5-22](#)

guest user sessions report [14-125](#)

guest user templates [11-59](#)

Guest WLAN

 connecting [3-44](#)

guidelines

 for Ethernet VLAN tagging [9-165](#)

guidelines for using the map editor [6-5](#)

H

heater status [5-81](#)

heat map

 described [6-38](#)

Help Menu [2-26](#)

hierarchy

 of mesh network [6-86](#)

Hierarchy of Mesh parent to child [6-89](#)

hierarchy of mesh parent to child [6-89](#)

High Throughput

 802.11a/n [9-134, 9-135](#)

 802.11b/g/n Parameters [9-144, 9-145](#)

high throughput

 template [11-100](#)

high throughput template

 configuring [11-100](#)

historical report type [14-1](#)

HTTP

 turning on and off [15-71](#)

hybrid REAP

 bandwidth restriction [9-72](#)

hysteresis [11-98](#)

I

I

ID Certificate

 configuring [9-106](#)

identity client [10-17, 16-84](#)

Identity Services Engine [16-102](#)

IDS [3-33](#)

IDS Sensor List

 configuring [9-105](#)

IDS sensors [3-33](#)

IDS Signatures

 configuring [9-110](#)

 download [9-38](#)

IDS signatures [3-33](#)

 downloading [3-37](#)

 downloading from config group [8-23](#)

 enabling [3-38](#)

 uploading [3-36](#)

images

 downloading to autonomous access points [9-174](#)

importing a file [6-56](#)

 to change access point position [6-56, 6-57](#)

importing coordinates

 as CSV file [6-116](#)

 into Google Earth [6-114](#)

importing Google KML or CSV into NCS [6-117](#)

Import map [6-55](#)

In/Out

 condition type [16-76](#)

- information elements
 Aironet **11-34**
- infrastructure MFP **3-31**
- ingress interface **9-67**
- Inspect Location Readiness **6-78**
- Inspect VoWLAN Readiness **6-79**
- installing a license **B-4**
- insufficient memory **5-84**
- interface group **11-19**
- Interferers
 summary **5-125**
- interferers
 summary **9-211**
- inter-subnet roaming **8-4**
- Intrusion Detection Systems **3-33**
- invalid association request **5-86**
- invalid reassociation request **5-86**
- Invalid Reauthentication Request **5-86**
- inventory report **14-107**
- IOS access points
 adding **9-169**
 adding by device information **9-169**
- IOSAP_DOWN **13-131**
- IOSAP_LINK_DOWN **13-68**
- IOSAP_LINK_UP **13-67**
- IOSAP_UP **13-68**
- IP connectivity diagnostic test **10-30**
-
- K**
- KEK
 key encryption key **11-46**
- key wrap **11-46**
- KML file **6-114**
-
- L**
- LAG mode **11-7**
- Latest Network Audit Report **9-23**
- latitude **6-113**
- Layer 1 security solutions **3-2**
- Layer 2 **11-24**
- Layer 2 security solutions **3-2**
- Layer 3 **11-29**
- Layer 3 security solutions **3-2**
- Layer 3 to Layer 2 mode, converting Cisco Wireless LAN Solution **3-29**
- LBS authorization
 template **11-62**
- LDAP Servers **9-90**
- LDAP servers **9-71**
 template **11-50**
- LEAP authentication
 requirements **8-8**
- Learn Client IP Address **11-34**
- legacy syslog
 template **11-127**
- legacy syslog template **11-126**
- license
 backup and restore **B-4**
- license installation **B-4**
- licenses **B-1**
- license types **B-1**
- Lightweight AP Protocol Transport Mode **9-30**
- limitations for high reliability **15-126**
- Link Aggregation **9-32**
- link aggregation (LAG)
 guidelines **12-4**
- link metric
 adjusted **6-82**
 unadjusted **6-82**
- link SNR **6-82**
- link stats report **14-131**
- Load
 access points **5-49**
- load **6-98**
- load balancing **9-118**

- Lobby Ambassador
 - account **7-17**
 - creating account **7-17**
- Lobby ambassador **7-10**
- Lobby Ambassador Account
 - creating **7-17**
 - editing **7-18**
- lobby ambassador defaults
 - setting **7-6**
- local authentication
 - for FlexConnect groups **12-11**
- Local EAP **9-97**
 - General EAP-FAST Parameters **9-100**
 - General Network Users Priority **9-100**
 - General Parameters **9-97**
 - Profiles **9-98**
- local EAP authorization **9-71**
- Local EAP check box **11-31**
- local EAP general
 - template **11-53**
- local EAP profile template **11-54**
- Local Management Users
 - configuring **9-156**
- local management users
 - template **11-128**
- local management user template **11-128, 11-129**
- Local Net Users
 - configuring **9-92**
- local net users
 - template **11-58**
- local net users template **11-58**
- Local Password Policy **15-88**
- local switching
 - FlexConnect **11-33**
- Location
 - calibration **1-10**
 - notifications **16-69**
 - notification settings **16-71**
 - synchronize servers **16-11**
- location change
 - condition type **16-77**
- location configuration
 - template **11-132**
- Location History
 - clients **10-43**
- location optimized monitor mode **9-178**
- location presence
 - assigning **6-18**
- Location Readiness **6-78**
- Location Server
 - logs **16-35**
 - maintenance **16-42**
 - NCS alarms **16-40**
 - NCS events **16-40**
 - NMSP parameters **16-30**
 - notification parameters **16-67**
 - restore **16-44**
 - server events **16-39**
- location server **16-11, 16-31**
 - backup historical data **16-43**
 - configuration clearing **16-34**
 - reboot hardware **16-34**
- location upgrade **B-2**
- log analysis **10-26**
- logging **15-5**
- logging into the NCS user interface **2-11 to 2-12**
- logging options **15-121**
- logging the lobby ambassador activities **7-9**
- login.html **3-42**
- login disclaimer **15-62**
- login policies
 - template **11-61**
- log message levels **15-122**
- log modules
 - enabling **15-122**
- LOMM **9-178**
 - configuring access point radios **9-194**
- longitude **6-115**

long preambles, enabling for SpectraLink NetLink phones **4-5**

LWAPP

- template
 - edit **11-145**
 - templates **11-137**
 - Transport Mode **9-30**
- LWAPP migration **9-168**
- LWAPP template
 - new **11-137**

M

- MAC Filtering
 - configuring **9-93**
- MAC filtering **11-28**
 - template **11-61**
- MAC filter template **11-61**
- MAC frequency **3-39**
- MAC information **3-39**
- MACK
 - message authenticator code keys **11-46**
- mail
 - transport type **16-78**
- mail server configuration **15-62**
- Maintenance
 - location server **16-42**
- malformed neighbor packets **5-84**
- malicious rogue **11-82**
- malicious rogue access points **3-5, 3-6**
- managed network
 - security index **3-5**
- management frame flood signatures **3-34**
- Management Frame Protection **3-31**
- management frame protection **9-75, 11-65**
- Management Frame Protection Summary
 - controllers
 - monitor **5-19**
- management interface **11-8**
- Management Parameters
 - configuring **9-150**
 - management queue **5-85**
 - managing clients **10-1**
 - managing current reports **14-14**
 - managing saved reports **14-17**
 - managing virtual domains **15-47**
 - managing WLAN schedules **9-77**
 - mandatory data rates **11-94**
 - manually disabled client
 - template for **11-63**
- Manually Disabled Clients
 - managing **9-101**
- map editor
 - guidelines **6-5**
 - guidelines for using **6-5**
 - using to draw polygon areas **6-72**
- map editor functions **6-4**
- map properties
 - editing **6-14**
- maps
 - searching **2-44**
 - using to monitor link stats **6-80**
 - using to monitor mesh AP neighbors **6-84**
- map size **6-110**
- map view
 - updating **6-89**
- media streams **5-127**
- Menu Bar **2-13**
- Mesh
 - monitoring health **5-81**
 - statistics for AP **5-82**
 - mesh access point neighbors
 - monitoring **6-84**
 - mesh access points
 - monitoring **6-82**
 - mesh configuration
 - template **11-121**
 - mesh link statistics **6-80**

- monitoring **6-80**
- mesh neighbors **6-85**
- mesh network hierarchy **6-86**
- mesh networks
 - background scanning **9-54**
 - monitoring **6-80**
- Mesh Parameters **9-146**
- mesh parent-child hierarchical view **6-51**
- mesh reports **14-129**
- mesh template
 - configuring **11-121**
- Mesh tree
 - viewing **6-86**
- mesh tree
 - viewing **6-86**
- message integrity check information element **11-65**
- metrics
 - in QoS **11-20**
- MFP **3-31, 9-75**
 - for clients **3-31**
- MFP attacks **3-9**
- MFP client protection **11-37**
- MFP signature generation **11-37**
- MFP Summary
 - controllers
 - monitor **5-19**
- MFP templates **11-65**
- MIC IE **11-65**
- migration analysis
 - running **17-13**
- migration analysis report
 - generating **17-13**
- migration analysis summary
 - viewing **11-151**
- migration template **11-148**
- Migration Templates
 - Autonomous APs
 - edit **11-150**
- minimum RSSI **11-98**
- Mirror Mode **10-41**
- mirror mode **9-179**
- missing
 - condition type **16-76**
- MLD Snooping **9-63**
- mobile announce messages **8-8**
- Mobility **16-1**
 - Mobility Stats
 - monitor **5-23**
 - service **16-1**
 - mobility **8-1**
 - Mobility Anchor Group Keep Alive Interval **9-32**
 - mobility anchors **8-12, 9-78**
 - Mobility Group
 - Prerequisites **9-52**
 - Mobility Groups
 - configuring **9-51**
 - Messaging **9-52**
 - mobility groups **8-7**
 - prerequisites **8-8 to 8-9**
 - mobility groups, configuring **8-8**
 - mobility scalability **8-11**
 - Mobility Services **16-1**
 - viewing **16-5**
 - Mobility Stats
 - monitor **5-23**
 - modifying a migration template **11-151**
 - modifying map displays **6-88**
 - using filters **6-88**
 - Monitor
 - Alarms **5-1**
 - Events **5-148**
 - Ports
 - overview **5-9**
 - Rogue AP Rules **5-20**
 - Monitor Access Points
 - details **5-57**
 - edit view **5-46**
 - load **5-49**

- radio type
 - 802.11 MAC counters **5-79**
 - on demand statistics **5-72**
 - operational parameters **5-76**
 - view alarms **5-80**
 - view events **5-81**
- radio utilization **5-56**
- search **5-43**
- search results **5-44**
- Tx power and channel **5-56**
- Monitor Alarms
 - details **5-91**
- Monitor APs
 - 802.11 Counters **5-55**
 - AP Profile Status **5-56**
 - Coverage (RSSI) **5-52**
 - Coverage (SNR) **5-52**
 - details
 - CDP Neighbors **5-69**
 - general **5-58, 5-65**
 - interfaces **5-67**
 - Dynamic Power Control **5-50**
 - Interference **5-51**
 - Noise **5-51**
 - Radio
 - details **5-71**
 - TSM **5-56**
 - UpTime **5-52**
 - Voice Statistics **5-53**
 - Voice TSM Reports **5-55**
 - Voice TSM Table **5-53**
- Monitor Chokepoints **5-120**
- Monitor Client
 - detecting APs
 - details **10-42**
 - disable **10-40**
 - location history **10-43**
 - present map **10-41**
 - recent map **10-41**
 - remove **10-40**
 - roam reason **10-42**
 - v5 statistics **10-36**
 - voice metrics **10-43**
- Monitor Controllers **5-1**
- 802.11a/n parameters **5-25**
- 802.11a/n RRM Grouping **5-27**
- 802.11a/n RRM Groups **5-30**
- 802.11b/g/n parameters **5-29**
- CLI Sessions **5-7**
- ports
 - general **5-9**
- spanning tree protocol **5-6**
- System
 - summary **5-4**
- WLANS **5-9**
- Monitor Events
 - Details **5-151**
 - search **5-151**
- Monitoring
 - Guest Users **5-22**
 - monitoring active sessions **7-5**
 - monitoring channel width **5-87**
 - monitoring mesh access point neighbors **6-84**
 - using maps **6-84**
 - monitoring mesh health **6-86**
 - monitoring mesh link statistics
 - using maps **6-80**
 - monitoring mesh networks
 - using maps **6-80**
 - monitoring neighboring channels **9-54**
 - monitoring pre-coverage holes **5-89**
 - monitoring spectrum experts **9-211**
 - monitor mode
 - location optimized **9-178**
 - Monitor Tags **5-118**
 - most recent audit alarms **17-11**
 - most recent rogue adhocs **3-6**
 - MSE **16-6**

MSE authorization
 template **11-62**

MSE license information **15-136**

Multicast Direct **9-63**

multicast mobility mode **8-11**

Multicast Mode
 controller **9-63**

Multiple Country Codes
 setting **9-118**

multiple country codes
 configuring **8-14**

multiple syslog
 template **11-127**

multiple syslog template **11-127**

N

N+1 redundancy **8-5**

NAC Out-of-Band Integration **9-44**

NAC state **9-75**

NAT **8-10**

NCS
 overview **1-2**
 servers supported **1-2**

NCS_EMAIL_FAILURE **13-152**

NCS-ADV-SI-SE-10 **B-2**

NCS Alarm
 status **16-40**

NCS Alarms
 location servers **16-40**

NCS database
 restoring **4-8**
 on Linux **4-9**
 restoring in high availability environment **4-9**
 scheduling automatic backups **4-7**

NCS Events
 location servers **16-40**
 status **16-40**

NCS guest operations report **14-127**

NCS home **2-11**

NCS licenses **B-1**

NCS Location Calibration **1-10**

NCS password
 recovering **4-12**

NCS user accounts
 adding **7-2**
 changing passwords **7-4**
 deleting **7-3**

NCS user interface
 described **2-13**
 logging into **2-11 to 2-12**

netmask **11-72**

NetStumbler signature **3-35**

network address translation **8-10**

Network Audit Report
 latest **9-23**

network design **6-99**

network designs **16-12**

network protection **3-33**

Network Routes
 configuring **9-50**

Network Summary page **2-12**

network summary reports **14-146**

Network Time Protocol
 configuring **9-54**

network users priority
 template **11-57**

network utilization reports **14-155**

new rogue access points report **14-182**

NMSP Parameters
 location server **16-30**

node hops **5-84**

nodes report **14-133**

noise
 avoiding non-802.11 types **11-94**
 avoid non-802.11 **11-94**

non-802.11 noise
 avoiding **11-94**

non-aggregated historical data **15-61**
 non-Cisco ACS server
 for use with RADIUS **15-112**
 normal mode
 for Ethernet port **9-166**
North Bound API 7-15
Notification Parameters
 location server **16-67**
Notifications
 location **16-69**
Notification Settings
 location **16-71**
NTP configuration 9-54
NTP server template 11-10, 11-14
null probe response signatures 3-34

O

On Demand Statistics
 access points **5-72**
onstacle color coding 6-74
Operational Parameters
 access points **5-76**
OUI search 15-79
outdoor location
 creating with Google Earth **6-113**
overview
 Cisco Unified Network Solution **1-1 to 1-2**
 NCS **1-2**

P

packet error rate link color 6-88
packet error statistics report 14-137
packet jitter 11-20
packet latency 11-20
packet loss 11-20
packet loss rate 11-21

packet queue statistics report **14-139**
packet stats report 14-135
parent changes 5-84
Passive Client 9-75
passthrough 11-29
PCI report 14-74
PEAP 11-55
peer-to-peer blocking 11-34
performance reports 14-150
permanent license
 for controller **15-134**
 for MSE **15-136**
physical appliance 2-2
placemarks
 creating **6-115**
placement of access points 6-40
planning mode 6-93
 to calculate access point requirements **6-92**
planning mode, calculating access point requirements 6-92
platinum 11-32
platinum queue 5-84
PLR 11-21
policy manager solutions 3-2
poor neighbor SNR 5-84
Port Parameters
 configuring **9-149**
Ports
 Monitor
 overview 5-9
 monitor controllers 5-9
 positioning access points 6-56
 positioning chokepoints 6-56
 positioning Wi-Fi TDOA receivers 6-56
 power injector settings 9-181
 Preattentiation ACL 9-70
 Preferred Call 9-121
 Prerequisites 2-4
 Present Map

clients **10-41**
print guest user details **7-13**
probe cycle count **9-121**
Profile
 List **9-238**
Profile editor **9-239**
profile redirect diagnostic test **10-30**
protection type **11-66**

Q

QoS **11-32**
QoS Profiles
 configuring **9-57**
queues
 silver, gold, platinum, bronze, management **5-84**
quick search **2-33**
Quiet time **3-39**

R

Radio
 access points
 configuring **9-185**
radio resource management **11-94**
Radio Status
 scheduling and viewing **9-195**
radio status
 scheduling **9-196**
Radio Utilization
 access points **5-56**
RADIUS **15-98**
RADIUS Accounting
 controllers
 monitor **5-17**
RADIUS accounting servers
 template **11-48**
RADIUS accounting template **11-48**
RADIUS and TACACS+ attributes
 virtual domains **7-17, 15-49**
RADIUS Authentication
 controllers
 monitor **5-15**
RADIUS authentication template **11-46**
RADIUS Auth Servers
 AAA RADIUS
 Auth Servers **9-87**
RADIUS fallback
 template **11-49**
RADIUS fallback mode **11-50**
RADIUS servers **9-71**
reachability status **9-210**
Readiness
 location **6-78**
 VoWLAN **6-79**
reassociation request failures **5-85**
reassociation request success **5-86**
reassociation request timeouts **5-85**
reauthentication request failures **5-86**
reauthentication request success **5-86**
reauthentication request timeout **5-86**
Rebooting Controllers **9-9, 9-10**
recent adhoc rogue alarms **3-9**
Recent Map
 clients **10-41**
recent rogue AP alarms **3-9**
recovering the NCS password **4-12**
recurrence
 for report **14-9**
refresh browser **6-99**
refresh component icon **2-22**
Refresh Config **9-19**
refresh from network **6-98, 6-110**
relative to ground **6-114**
Remove APs **9-195**
Remove Controllers **9-8**
removing controllers from config group **8-18**

removing templates from config group **8-19**
 report
 running new **14-6**
 report launch pad **14-2**
 Reports
 Rogue AP Events **14-186**
 reports
 scheduled runs **14-15**
 reset AP now **9-183**
 Restore
 location server **16-44**
 Restoring Factory Defaults **9-34**
 restoring NCS database
 in high availability environment **4-9**
 restoring NCS database on Linux **4-9**
 retain NCS value **8-21**
 RF calibration model, creating **4-5**
 RF Calibration Models
 apply to maps **6-69**
 delete **6-69**
 RFID data collection **11-133**
 RF Profiles **9-123, 11-91**
 RF profile traps **11-125**
 RF update traps **11-125**
 Roaming
 802.11b/g/n Parameters **9-143**
 roaming **8-1**
 roaming parameter
 template **11-98**
 roaming parameters template
 configuring **11-98**
 roaming time **11-20, 11-21**
 Roam Reason
 clients **10-42**
 rogue access point events report **14-188**
 rogue access point rule groups **11-84**
 rogue access point rules
 configuring a template **11-82**
 viewing or editing **9-199**
 rogue access points
 friendly **3-8**
 malicious **3-6**
 monitoring **3-9 to 3-10**
 solutions for **3-3**
 unclassified **3-7**
 rogue adhos
 most recent **3-6**
 Rogue Alarm Events **5-113**
 Rogue AP
 alarm details **5-114**
 alarms **5-95**
 malicious **5-94**
 Rules
 monitor **5-20**
 Rogue AP Events
 report **14-186**
 rogue AP rule groups
 template **11-84**
 Rogue AP Rules
 configuring **9-109**
 details **5-21**
 rogue AP rules
 template **11-83**
 Rogue APs
 classifying **5-99**
 friendly **5-94**
 unclassified **5-95**
 Rogue Client
 details **5-103**
 rogue clients
 searching **2-44**
 rogue detector **9-178**
 Rogue Devices
 detecting **5-91**
 rogue location discovery protocol **11-81**
 Rogue Policies
 configuring **9-108**
 rogue policies

- template **11-81**
- template for **11-80**
- role criteria **11-151**
- root access points (RAPs)
 - selecting **9-168**
- root mode
 - changing from station role **17-13**
- routing state **5-83**
- RRM **11-94**
 - DCA
 - 802.11b/g/n Parameters **9-139**
 - Radio Grouping
 - 802.11b/g/n Parameters **9-140**
- RRM DCA **9-128**
- RRM Intervals
 - 802.11a/n **9-126**
 - 802.11b/g/n Parameters **9-138**
- RRM intervals **11-99**
 - template **11-104**
- RRM interval template
 - configuring **11-104**
- RRM Radio Grouping
 - 802.11a/n **9-129**
- RRM Thresholds
 - 802.11b/g/n Parameters **9-138**
- RRM threshold template
 - configuring **11-102**
- RSSI legend **6-110**
- rules
 - for rogue access point **11-82**
- running a new report **14-6**
- running a saved report **14-19**
- running migration analysis **17-13**
- RX neighbor requests **5-84**
- RX neighbor responses **5-84**
- saved report
 - running **14-19**
- saved reports
 - editing **14-19**
 - filtering **14-18**
 - managing **14-17**
- saved searches **2-46**
- scalability parameters **8-11**
- scan cycle period threshold **9-121**
- scan threshold **11-99**
- Scheduled Configuration **9-221**
- Schedule details **9-174**
- scheduled run details
 - editing **14-17**
- scheduled run results **14-15**
 - filtering **14-16**
- Scheduled Task
 - AP status report **9-221**
- schedules
 - managing for WLANs **9-77**
- scheduling guest user account **7-12**
- scheduling radio status **9-196**
- Search
 - access points **5-43**
 - controller result **5-2**
 - Events **5-151**
 - overview **2-27**
- search alarm parameters **2-36, 2-40, 5-33**
- search feature **2-33**
 - using for troubleshooting **10-25**
- searching access points **2-37**
- searching clients **2-40**
- searching controllers **2-39**
- searching events **2-42**
- searching maps **2-44**
- searching tags **2-45**
- searching Wi-Fi TDOA receivers **2-44**
- secondary NCS operation **15-126**
- Security

S

Save Config to Flash **9-19**

AAA
 LDAP servers **9-90**
 TACACS+ Servers **9-91**
 Web Auth Configuration **9-95**
 AAA MAC Filtering **9-93**
 Local EAP **9-97**
 security color range **3-5**
 security configurations
 monitoring **5-145**
 security index **3-5**
 security mesh statistics **5-85**
 Security Reports
 Rogue AP Events **14-186**
 security solutions **3-1 to 3-29**
 security summary **14-191**
 security tab
 interpreting **3-4**
 security thermometer **3-5**
 sending mobile announce messages **8-8**
 sensors
 viewing IDS types **3-33**
 Server Events
 location servers **16-39**
 status **16-39**
 set sorting buttons **14-13**
 Set Time
 controller **9-35**
 setting AP failover **9-162**
 Setting Controller Time and Date **9-35**
 shunned clients
 searching **2-45**
 silver **11-32**
 silver queue **5-84**
 Sniffer **11-138**
 Sniffer Feature **9-116**
 sniffer mode **9-178**
 SNMP
 transport type **16-78**
 SNMP authentication **11-124**

SNMP Community
 controller templates **11-9**
 SNMP mediation **15-122**
 SNR definition **6-88**
 SNR down **6-82**
 SNR UP **6-82**
 SNR up **6-82**
 SOAP **16-78**
 software
 downloading config groups to controllers **8-22**
 software, updating **4-2**
 Spanning Tree Protocol
 configuring **9-51**
 monitor controllers **5-6**
 SpectraLink NetLink phones, enabling long
 preambles **4-5**
 spectrum expert
 adding **9-210**
 spectrum expert details **9-212**
 Spectrum Experts
 details **5-126**
 Interferers **5-125**
 summary **5-124**
 spectrum experts
 configuring **9-210**
 monitoring **9-211**
 summary **9-211**
 SSID Group
 add **9-245**
 add from global list **9-245**
 add global **9-243**
 delete **9-246**
 delete global **9-244**
 edit **9-246**
 edit global **9-244**
 SSID Group List
 wIPS **9-242**
 SSID group list
 global **9-243**

- SSID groups
 - wIPS **9-244**
 - Standalone Building
 - adding floor plan **6-32**
 - Standard and Custom Signatures
 - Global Settings **9-113**
 - Standard signature **3-39**
 - Standard Signature Parameters
 - configuring **9-110**
 - standard signatures **3-33**
 - static WEP **9-68**
 - Static WEP-802.1X **9-68**
 - station role
 - changing to root mode **17-13**
 - Status Report
 - scheduled task **9-223**
 - status schedules
 - managing for WLANs **9-77**
 - stranded APs report **14-141**
 - supported data rates **11-94**
 - Switch
 - credentials **9-203**
 - remove **9-210**
 - switch
 - configuring for FlexConnect **12-5**
 - Switch Port Tracing
 - Details **15-81**
 - Troubleshooting **15-81**
 - symmetric mobility tunneling **11-8**
 - symmetric tunneling **8-5**
 - Synchronize servers
 - location **16-11**
 - Syslog
 - configuring individual controller **9-154**
 - Individual controller **9-154**
 - multiple servers **9-154**
 - syslog
 - transport type **16-78**
 - syslog templates **11-126, 11-127**
 - System
 - General Properties **9-26**
 - System Commands
 - controller **9-32**
 - System Interfaces
 - Controllers **9-39**
 - System parameters
 - controllers
 - monitor **5-3**
 - System requirements **2-5**
-
- T**
 - TACACS+
 - 15-95**
 - TACACS+ server
 - configuring a template for **11-51**
 - template **11-51**
 - tagged packets **9-168**
 - Tags **5-118**
 - tags
 - searching **2-45**
 - Task
 - configuration backup **15-13**
 - status **15-15**
 - Telnet SSH
 - template **11-123**
 - Telnet SSH Parameters
 - configuring **9-153**
 - Telnet SSH templates **11-125**
 - temperature **5-81**
 - template
 - configuring for rogue AP rules **11-82**
 - Template Launch Pad
 - overview **11-1**
 - Templates
 - AP Configuration **11-136**
 - delete **11-2**
 - test analysis tab **10-29**
 - TFTP

- turning on and off **15-71**
- TFTP details **11-152**
- TFTP Server
 - adding **9-247**
 - TFTP server **3-36**
 - TFTP Servers
 - configure **9-247**
 - delete **9-248**
 - thermometer color range **3-5**
 - threats
 - access points **3-8**
 - throughput report **14-63**
 - tilt **6-114**
 - Timer Setting
 - AP **9-64**
 - total interferer count **9-212**
 - total mismatched controllers **17-11**
 - TPC **11-106, 11-120**
 - trace **15-125**
 - traffic indicator message **11-93**
 - Traffic Stream Metrics
 - access points **5-56**
 - traffic stream metrics QoS status **11-21**
 - traffic stream metrics QoS template **11-20**
 - traffic stream metrics report **14-157**
 - transition time **11-99**
 - Transport Mode
 - LWAPP **9-30**
 - transport types **16-78**
 - trap
 - 802.11 security **11-125**
 - Trap Control
 - configuring **9-151**
 - trap control
 - template **11-123**
 - trap control templates **11-123**
 - trap receiver
 - template **11-122**
 - Trap Receivers
 - configuring **9-150**
 - trap receiver template **11-122**
 - traps
 - AAA **11-125**
 - access point **11-124**
 - client related **11-124**
 - RF profile **11-125**
 - RF update **11-125**
 - unsupported **13-165**
 - traps added in 2.2 **13-32**
 - traps added in 3.0 **13-35**
 - traps added in 3.1 **13-38**
 - traps added in 3.2 **13-43**
 - traps added in 4.0 **13-44**
 - traps added in 4.0.96.0 **13-51**
 - traps added in 4.1 **13-54, 13-66**
 - traps added in release 6.0 **13-71**
 - traps added in release 7.0 **13-74**
 - trend report type **14-1**
 - Troubleshooting
 - Switch Port Tracing **15-81**
 - troubleshooting **A-1**
 - using logging options **15-125**
 - troubleshooting voice RF coverage **6-98**
 - trunk mode **9-166**
 - TSM
 - access points **5-56**
 - tunneling **8-5**
 - TX neighbor requests **5-84**
 - TX neighbor responses **5-84**
 - Tx Power and Channel
 - access points **5-56**
 - Tx power and channel report **14-160**
 - type
 - of NCS license **15-133**

U

UDI

- retrieving on controllers and access points **5-87**
- unadjusted link metric **6-82**
- unclassified rogue **11-82**
- unclassified rogue access points **3-7**
- understanding virtual domains **15-50**
- unique clients report **14-65**
- unique device identifier **5-87**
- unknown association requests **5-86**
- unknown reassocation request **5-86**
- untagged packets **9-168**
- Update map view **6-89**
- update map view **6-89**
- updating system software **4-2**
- upgrade settings
 - for controller **15-58**
- upgrading autonomous access points **11-153**
- upgrading NCS
 - in high availability environment **4-11**
- upgrading the network **4-12**
- Uploading IDS signatures **3-36**
- uploading IDS signatures **3-36**
- Uploading Signature Files **9-112**
- upstream delay **11-21**
- upstream packet loss rate **11-21**
- UpTime
 - access points **5-52**
- uptime report **14-114**
- User accounts
 - for guest **7-10**
- user credential retrieval priority **11-57**
- user details
 - emailing **7-13**
 - printing **7-13**
- User Interface
 - Menu Bar **2-13**
- User Login Policies
 - configuring **9-101**
- user login policies
 - configuring a template **11-60**
- template **11-61**
- User Preferences **7-1, 15-1**
- user preferences **15-82**
- User Roles
 - configuring **9-59**
- Users **15-89**
- using filtering **6-81, 6-88**
- using logging
 - for troubleshooting **15-125**
- using maps
 - to monitor mesh AP neighbors **6-84**
 - to monitor mesh link statistics **6-80**
- using maps to monitor mesh networks **6-80**
- using planning mode **6-72**
- using template
 - ACL **11-79**
 - for friendly access point **11-86**
- using templates
 - 802.11b/g RRM interval **11-104**
 - 802.11b/g RRM threshold **11-102**
 - access point authentication & MFP **11-65**
 - access point authorization **11-62**
 - local management user **11-128, 11-129**
 - local net users **11-58**
 - MAC filter **11-61**
 - password policy **11-70**
 - QoS **11-17**
 - RADIUS accounting **11-48**
 - syslog **11-126, 11-127**
 - Telnet SSH **11-125**
 - traffic stream metrics QoS **11-20**
 - trap control **11-123**
 - trap receiver **11-122**
 - web authentication **11-67**
 - WLAN **11-22**
 - utilization report **14-115**

V

V5 Statistics
 client [10-36](#)
 Vendor CA Certificates
 downloads [9-18](#)
 vendor CA certificates
 downloading [4-4](#)
 Vendor Device Certificate
 downloads [9-17](#)
 vendor device certificates
 downloading [4-3](#)
 vendor search [15-79](#)
View [2-23](#)
View Alarms
 access points [5-80](#)
 view in chart icon [2-23](#)
Viewing
 Mobility Services [16-5](#)
 viewing audit status
 for access points [9-196](#)
 viewing autonomous access points [9-173](#)
 viewing Google Earth maps [6-118](#)
Viewing Mesh tree [5-82](#)
 view in grid icon [2-23](#)
Viewing shunned clients [3-33](#)
Viewing Templates Applied to a Controller [9-21](#)
 viewing the audit trail [7-9](#)
 viewing the migration analysis [11-151](#)
view list [10-25](#)
virtual appliance [2-2](#)
virtual domains
 assigning [7-16, 15-92](#)
 attributes [7-17, 15-49](#)
 creating [15-41](#)
 hierarchy [15-42](#)
 managing [15-47](#)
 understanding [15-50](#)
VLAN tagging [9-164](#)

Voice

802.11b/g/n Controller Templates [9-122, 11-90, 11-95, 11-110](#)

Voice Metrics

clients [10-43](#)

Voice-over-Internet Protocol

snooping [9-74](#)

Voice RF Coverage issues [6-80](#)**Voice Statistics**

access points [5-53](#)

voice statistics report [14-165](#)**Voice TSM Reports**

access points [5-55](#)

Voice TSM Table

access points [5-53](#)

VoIP calls graph [14-162](#)**VoIP calls table** [14-163](#)**VoIP snooping** [9-74](#)**VoWLAN Readiness** [6-79](#)**W****Web Admin**

configuring [9-154](#)

Web Admin Certificate

downloading [9-37](#)

Web Auth Certificate

configuring [9-107](#)

Web Auth Configuration [9-95](#)**web authentication template** [11-67](#)**web authentication type** [11-67](#)**Web authentication types** [3-41](#)**web auth security** [A-3](#)**web login**

enabling [3-41](#)

web policy [9-70](#)**Wellenreiter signature** [3-35](#)**WiFi TDOA Receivers**

adding [9-218](#)

- configure **9-217**
- edit **9-220**
- remove **9-220**
- tag location **9-218**
- Wi-Fi TDOA receivers
 - positioning **6-56**
 - searching **2-44**
- wIPS
 - planning and configuring **16-97**
 - Profile
 - add **9-238**
 - Profile Editor **9-239**
 - Profile List **9-238**
 - SSID Group List **9-242**
 - wIPS Alarms
 - details **5-147**
 - monitoring **5-146**
 - wIPS Profile
 - apply **9-242**
 - delete **9-241**
 - wIPS Profiles
 - add **9-238**
 - configure **9-237**
 - Wired Client Authentication Failure **10-6**
 - Wired Client Auth fail VLAN Assigned **10-6**
 - Wired Client Authorization Failure **10-6**
 - Wired Client Critical VLAN Assigned **10-6**
 - Wired Client Guest VLAN Assigned **10-6**
 - Wired Client Security Violation **10-6**
 - Wired Guest Access
 - configuring **9-47**
 - Wireless Management **9-32**
 - Wireless Protection Policies
 - configuring **9-107**
 - WLAN
 - adding **9-76**
 - deleting **9-77**
 - WLAN AP groups **11-38**
 - WLAN details
 - viewing **9-66**
 - WLANS
 - configuring **9-65**
 - monitor **5-9**
 - web auth security **A-3**
 - WLAN status schedules
 - managing **9-77**
 - WLAN templates **11-22**
 - WMM parameters **9-72**
 - WMM policy **11-32**
 - work group bridge mode **9-174**
 - worst node hops report **14-143**
 - WPA+WPA2 **9-69**

X

 - XML mediation **15-123**

Z

 - zoom in or out **6-110**