

Configuring WLC

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Configure the WLC for NAT

The Internet edge firewall translates the IP address of the WLC management interface in the DMZ to a publicly reachable IP address so Cisco Aironet 1815 Teleworker Access Point at teleworker locations can reach the WLC. However, in order for the Cisco Aironet 1815T(Teleworker) Access Point to communicate with the WLC, the publicly reachable address must also be configured on the WLC management interface.

To configure the WLC for NAT, perform the following steps:

- **Step 1** In **Controller** > **Interfaces**, click the management interface.
- **Step 2** Select Enable NAT Address.
- **Step 3** In the NAT IP Address box, enter the publicly reachable IP address, and then click Apply. (Example: 172.16.130.20)

Note The NAT IP Address must be the external, globally unique IP address that the Wireless LAN Controller displays on the Internet. This allows the WLC to place this IP address into the CAPWAP discovery response packet prior to encryption. The address shown here is an RFC-1918, private IP address and is used in this guide only for documentation purposes.

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cisco	MONITOR WLANS	CONTROLLER	WIRELESS	SECURITY	MANAGEMENT	COMMANDS	HELP FEEDBACK		
Controller	Interfaces > Edit						< Back	Apply	
General Inventory	General Informat	ion							
Interfaces Interface Groups Multicast	Interface Name MAC Address	manag d0:d0:	ement fd:1f:59:e0						
Network Routes	Configuration	20.05							
 Mobility Management 	Quarantine Quarantine Vlan Id	0							
Ports NTP	NAT Address								
▶ CDP	Enable NAT Address	V							
Advanced	NAT IP Address	172.16.13	0.20						
	Interface Address	5							
	VLAN Identifier		0						
	IP Address		192.168.19.20						
	Netmask		255.255.255.0						
	Gateway		192.168.19.1						
	Physical Information								
	Port Number		1						
	Backup Port		0						
	Active Port		1						
	Enable Dynamic AP	Management [7						
	DHCP Information	n							
	Primary DHCP Serve	er.	10.4.48.10						
	Secondary DHCP Se	rver	0.0.0.0						
	Access Control Lis	st							
	ACL Name		none 👻						
	Note: Changing the Int temporarily disabled an clients.	erface parameters nd thus may result	causes the WL in loss of conn	ANs to be ectivity for son	ne				

Configuring the Time Zone

To configure the time zone, perform the following steps:

- **Step 1** Navigate to **Commands** > **Set Time**.
- **Step 2** In the Location list, choose the time zone that corresponds to the location of the WLC.
- Step 3 Click Set Timezone.

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Commands	Set Time						Set	Date and	Time Set Timezone	1
Download File Upload File Reboot	Current Tir Date	me 1	Tue May 31 11:07	7:38 2011						
Config Boot			Month		Мау	•				
P Scheduled Repool			Day		31 👻					
Default			Year		2011					
Set Time										
Login Banner	Time							-		
			Hour		11 👻					
			Minutes		7					
			Seconds		38					
	Timezone									
			Delta		hours 0	mins 0				
			Location ¹	(GMT	-8:00) Pacific	Time (US and Can	ada) 🗸	-		
	Foot Notes	5								
	1. Automatica	ally sets da	ylight savings tim	ne where used.						

Configuring SNMP

To configure SNMP, perform the following tasks:

- **Step 1** In **Management** > **SNMP** > **Communities**, click **New**.
- Step 2 Enter the Community Name. (Example: cisco)
- **Step 3** Enter the IP Address. (Example: 10.4.48.0)
- Step 4 Enter the IP Mask. (Example: 255.255.255.0)
- **Step 5** In the **Status** list, choose **Enable**, and then click **Apply**.

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CISCO	MONITOR WLANS	<u>C</u> ONTROLLER	WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP <u>F</u> EEDBACK	
Management	SNMP v1 / v2c Co	ommunity > Ne	W				< Back	Apply
Summary SIMP General SIMP V3 Users Communities Trap Receivers Trap Controls Trap Logs HTTP-HTTPS Telnet-SSH Serial Port Local Management Users User Sessions Logs Mgmt Via Wireless Software Activation Tech Support	Community Name IP Address IP Mask Access Mode Status	cisco 10.4.48.0 255.255.255.0 Read Only • Enable •						

- **Step 6** In **Management** > **SNMP** > **Communities**, click **New**.
- **Step 7** Enter the Community Name. (Example: cisco123)
- **Step 8** Enter the **IP Address**. (Example: 10.4.48.0)
- Step 9 Enter the IP Mask. (Example: 255.255.255.0)
- Step 10 In the Access Mode list, choose Read/Write.
- Step 11 In the Status list, choose Enable, and then click Apply.

							Save Cor	nfiguration <u>P</u> ing	Logout <u>R</u> efresh
CISCO	MONITOR W	VLANs	CONTROLLER	WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP FEEDBAC	к
Management	SNMP v1 / v	/2c Co	ommunity > N	ew				< Back	Apply
Summary SNMP General SNMP V3 Users Communities Trap Receivers Trap Controls Trap Logs HTTP-HTTPS Telnet-SSH Serial Port Local Management USers USer Sessions Logs Mgmt Via Wireless Software Activation Tech Support	Community I IP Address IP Mask Access Mode Status	Name :	cisco123 10.4.48.0 255.255.255.0 Read/Write • Enable •						

- Step 12 Navigate to Management > SNMP > Communities.
- **Step 13** Point to the blue box for the public community, and then click **Remove**.
- Step 14 On the "Are you sure you want to delete?" message, click OK .
- **Step 15** Repeat Step 13 and Step 14 for the private community.

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Management	SNMP v1 / v2c Cor	nmunity						New
Summary								
▼ SNMP	Community Name		IP Address	IP Mask	Access	Mode Statu	5	
General	cisco		10.4.48.0	255.255.25	5.0 Read-O	nly Enable		
SNMP V3 Users	cisco123		10.4.48.0	255.255.25	5.0 Read-W	rite Enable		
Trap Receivers								
Trap Controls								
Telnet-SSH								
Serial Port								
Local Management Users								
User Sessions								
▶ Logs								
Mgmt Via Wireless								
► Software Activation								
Tech Support								

Step 16 Navigate to **Management** > **SNMP** > **General** and disable SNMP v3 Mode, and click **Apply**.

Figure 1:

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						Sa <u>v</u> e	Configuration	Ping L	_ogout <u>R</u> efresh
cisco	MONITOR	<u>W</u> LANs	CONTROLLER	WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP	FEEDBACK
Management	SNMP	System	Summary						Apply
Summary SNMP General SNMP V3 Users Communities Trap Receivers Trap Logs HTTP-HTTPS Telnet-SSH Serial Port Local Management User Sessions Logs Mgmt Via Wireless Software Activation J Tech Support	Name Locati Conta Syste SNMP Trap F SNMP SNMP	on ct m Descriptic m Object ID Port Number v1 Mode v2c Mode v3 Mode	on Cisco C 1.3.6.1 er 161 Disz Ena Disz	Controller					

Step 17 Navigate to Management > SNMP Communities > SNMP V3 Users.
Step 18 On the right side of the default User Name, point and click the blue down arrow, and then click Remove.

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CISCO	MONITOR	<u>W</u> LANS	CONTROLLER	WIRELESS	SECURITY	M <u>A</u> NAGEMENT	C <u>O</u> MMANDS	HE <u>L</u> P	<u>F</u> EEDBACK
Management	1	SNMP V3	Users						New
Summary									
▼ SNMP		User Name	Access	Level Au	th Protocol	Privacy Protoco	4		
General SNMP V3 Users		default	Readwrit	te HM	AC-SHA	AES	Remove	L.	
Communities									
Trap Receivers Trap Controls									
Trap Logs									
HTTP-HTTPS									
Telnet-SSH									
Serial Port									
Local Manager Users	nent								
User Sessions									
Logs									
Mgmt Via Wire	eless								
Software Activ	vation								
Frech Support									

Step 19 Press OK to confirm that you are sure you want to delete, then press Save Configuration.

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cisco	MONITOR	<u>W</u> LANs		WIRELESS	SECURITY	M <u>A</u> NAG	EMENT	C <u>O</u> MMANDS	HELP	<u>F</u> EEDBACK
Management	s	SNMP V3	Users							New
Summary										
▼ SNMP		User Name	Access I	evel Au	th Protocol	Privac	y Protoco	1		
General		default	Readwrit	e HM	AC-SHA	AEC		-		
Communities					N	Aessage fron	n webpage	r.	8	
Trap Receivers Trap Controls Trap Logs						? Ar	re you sure	you want to del	ete ?	
HTTP-HTTPS										
Telnet-SSH										P
Serial Port								ок с	ancel	
Local Manager Users	nent									
User Sessions										
Logs										
Mgmt Via Wire	eless									
Software Activ	vation									
Frech Support										

Note Changes to the SNMP configuration may sometimes require that the WLC be rebooted.

Configuring Wireless User Authentication

- **Step 1** In Security > AAA > Radius > Authentication, click New.
- **Step 2** Enter the Server IP Address. (Example: 10.4.48.15)
- **Step 3** Enter and confirm the **Shared Secret**. (Example: SecretKey)
- Step 4 To the right of Management, clear Enable, and then click Apply.

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CISCO	MONITOR WLANS C	ONTROLLER WIRELESS	SECURITY MANAGEMENT	C <u>O</u> MMANDS HELP	<u>F</u> EEDBACK
Security	RADIUS Authenticat	tion Servers > New			< Back Apply
 AAA General RADIUS Authentication Accounting Falback TACACS+ LDAP Local Net Users MAC Filtering Disabled Clents User Login Policies Person Policies Local EAP Priority Order Certificate Access Control Lists Wireless Protection Policies Web Auth TrustSec SXP Advanced 	Server Index (Priority) Server IP Address Shared Secret Confirm Shared Secret Key Wrap Port Number Server Status Support for RFC 3576 Server Timeout Network User Management IPSec	1 v 10.4.48.15 ASCII v (Designed fo 1812 Enabled v Enabled v Enable Enable Enable	r FIPS customers and requires a l	key wrap compliant RADI	JS server)

- **Step 5** To the right of Management, clear **Enable**, and then click **Apply**.
- **Step 6** Enter the Server IP Address. (Example: 10.4.48.15)
- Step 7 Enter and confirm the Shared Secret, and then click Apply. (Example: SecretKey)

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cisco	MONITOR WLANS CON	TROLLER W <u>I</u> RELESS <u>S</u> ECURIT	Y M <u>A</u> NAGEMENT	C <u>O</u> MMANDS	HELP FEEDBACH	<
Security	RADIUS Accounting S	ervers > New			< Back	Apply
 AAA General RADIUS Authentication Accounting Fallback TACACS+ LDAP Local Net Users MAC Filtering Disabled Clients User Login Policies AP Policies Password Policies Local EAP Priority Order Certificate Access Control Lists Wireless Protection Policies Wireless Protection Policies Wireless SXP Web Auth TrustSec SXP Advanced 	Server Index (Priority) Server IP Address Shared Secret Format Shared Secret Confirm Shared Secret Port Number Server Status Server Timeout Network User IPSec	1 • 10.4.48.15 ASCII • 1813 Enabled • 2 seconds V Enable Enable				