

## Switch configuration

```
vlan 14
name wlc
vlan 50
name untrusted
vlan 51
name guest
vlan 53
name nas
vlan 54
name nam
```

```
int vlan 14
ip add 10.2.14.1 255.255.255.0
int vlan 51
ip add 10.2.51.1 255.255.255.0
int vlan 53
ip add 10.2.53.1 255.255.255.0
int vlan 54
ip add 10.2.54.1 255.255.255.0
```

```
int g0/1
connected to NAM
switchport mode access
switchport access vlan 54
spanning-tree portfast
```

```
int g0/2
connected to wlc
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 14,51-54
```

```
int g0/3
connected to NAS untrusted
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 50
```

```
int g0/4
connected to NAS trusted
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk allowed vlan 14,51,54
```

```
int g0/6
connected to ap
switchport trunk encapsulation dot1q
switchport mode trunk
switchport trunk native vlan 14
```

switchport allowed vlan 14,50-54

ip dhcp excluded-addresses 10.2.14.1  
ip dhcp excluded-addresses 10.2.53.1  
ip dhcp excluded-addresses 10.2.54.1  
ip dhcp excluded-addresses 10.2.51.1  
ip dhcp excluded-addresses 10.2.51.2  
ip dhcp excluded-addresses 10.2.51.254

ip dhcp pool vlan51  
network 10.2.51.0/24  
default-router 10.2.51.1

ip dhcp pool vlan14  
network 10.2.14.0/24  
default-router 10.2.14.1

ip routing

## wlc configuration

The screenshot shows the Cisco Wireless LAN Controller (WLC) configuration interface. The browser address bar displays `http://10.2.14.10/screens/frameset.html`. The interface includes a navigation menu with options: MONITOR, WLANs, CONTROLLER, WIRELESS, SECURITY, MANAGEMENT, COMMANDS, and HELP. The 'WLANs' section is active, showing a table of configured WLANs. The table has columns for WLAN ID, Type, Profile Name, WLAN SSID, Admin Status, and Security Policies. One WLAN is listed with ID 1, Type WLAN, Profile Name cisco, WLAN SSID cisco, Admin Status Enabled, and Security Policies None. The interface also includes a 'Create New' button and a 'Go' button. The bottom status bar shows the URL `http://10.2.14.10/screens/apf/wlan_list.html` and a download icon.

WLAN ID	Type	Profile Name	WLAN SSID	Admin Status	Security Policies
1	WLAN	cisco	cisco	Enabled	None

File Edit View History Bookmarks Tools Help

http://10.2.14.10/screens/frameset.html

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Cisco Cl... WL... wlc2106... NAC Out... Invalid... The pag... ATT Wir... nac oob... Cisco N... m\_woob... cisco se... Secure... ccmigra... Cisco N... Save Configuration Ping Logout Refresh

**CISCO** MONITOR **WLANs** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP

WLANs

WLANs > Edit

General Security QoS Advanced

Profile Name: cisco  
 Type: WLAN  
 SSID: cisco  
 Status:  Enabled

Security Policies: None  
 (Modifications done under security tab will appear after applying the changes.)

Radio Policy: All  
 Interface: vlan51  
 Broadcast SSID:  Enabled

Foot Notes

- 1 CKIP is not supported by 10xx model APs
- 3 H-REAP Local Switching is not supported with IPsec, CRANITE authentication
- 4 When client exclusion is enabled, a Timeout Value of zero means infinity (will require administrative override to reset excluded clients)
- 5 Client MFP is not active unless WPA2 is configured
- 6 Learn Client IP is configurable only when HREAP Local Switching is enabled
- 7 WMM and open or AES security should be enabled to support higher 11n rates

Done

File Edit View History Bookmarks Tools Help

http://10.2.14.10/screens/frameset.html

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**CISCO** MONITOR **WLANs** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP

WLANs

WLANs > Edit

General Security QoS **Advanced**

Allow AAA Override:  Enabled  
 Coverage Hole Detection:  Enabled  
 Enable Session Timeout:  1800  
 Session Timeout (secs):  
 Aronnet IE:  Enabled  
 Diagnostic Channel:  Enabled  
 Override Interface ACL: None  
 P2P Blocking Action: Disabled  
 Client Exclusion:  Enabled  
 Timeout Value (secs): 0

HREAP

H-REAP Local Switching:  Enabled  
 Learn Client IP Address:  Enabled

DHCP

DHCP Server:  Override  
 DHCP Server IP Addr: 10.2.51.1  
 DHCP Addr. Assignment:  Required

Management Frame Protection (MFP)

Infrastructure MFP Protection:  (Global MFP Disabled)  
 MFP Client Protection:  Optional

DTIM Period (in beacon intervals)

802.11a/n (1 - 255): 1  
 802.11b/g/n (1 - 255): 1

NAC

State:  Enabled

Foot Notes

- 1 CKIP is not supported by 10xx model APs
- 3 H-REAP Local Switching is not supported with IPsec, CRANITE authentication
- 4 When client exclusion is enabled, a Timeout Value of zero means infinity (will require administrative override to reset excluded clients)
- 5 Client MFP is not active unless WPA2 is configured
- 6 Learn Client IP is configurable only when HREAP Local Switching is enabled
- 7 WMM and open or AES security should be enabled to support higher 11n rates

Done

File Edit View History Bookmarks Tools Help

http://10.2.14.10/screens/frameset.html

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**CISCO** MONITOR WLANS **CONTROLLER** WIRELESS SECURITY MANAGEMENT COMMANDS HELP

Controller

General Inventory Interfaces Multicast Internal DHCP Server Mobility Management Ports NTP CDP Advanced

**General Information**

Interface Name: vlan51  
 MAC Address: 00:25:45:9b:b8:00

**Configuration**

Quarantine:   
 Quarantine Vlan id: 50

**Physical Information**

Port Number: 1

**Interface Address**

VLAN Identifier: 51  
 IP Address: 10.2.51.2  
 Netmask: 255.255.255.0  
 Gateway: 10.2.51.1

**DHCP Information**

Primary DHCP Server: 10.2.51.1  
 Secondary DHCP Server:

**Access Control List**

ACL Name: none

Note: Changing the interface parameters causes the VLANs to be temporarily disabled and thus may result in loss of connectivity for some clients.

Done Download No Rank 0

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**CISCO** MONITOR WLANS CONTROLLER WIRELESS SECURITY **MANAGEMENT** COMMANDS HELP

Management

Summary SNMP General SNMP v3 Users Communities Trap Receivers Trap Controls Trap Logs HTTP Telnet-SSH Serial Port Local Management Users User Sessions Logs Mgmt Via Wireless Tech Support

**SNMP System Summary** Apply

Name: WLC-2106  
 Location:  
 Contact:

System Description: Cisco Controller

System Object ID: 1.3.6.1.4.1.9.1.828

SNMP Port Number: 161  
 Trap Port Number: 162

SNMP v1 Mode: Enable  
 SNMP v2c Mode: Enable  
 SNMP v3 Mode: Enable

http://10.2.14.10/screens/snmp/snmp\_general.html Download No Rank 0

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http://10.2.14.10/screens/frameset.html

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**CISCO** MONITOR WLANS CONTROLLER WIRELESS SECURITY **MANAGEMENT** COMMANDS HELP

Management **SNMP v1 / v2c Community** New...

Summary

SNMP

- General
- SNMP V3 Users
- Communities
- Trap Receivers
- Trap Controls
- Trap Logs

HTTP

Telnet-SSH

Serial Port

Local Management Users

User Sessions

Logs

Mgmt Via Wireless

Tech Support

Community Name	IP Address	IP Mask	Access Mode	Status
private	10.2.54.5	255.255.255.0	Read-Write	Enable
public	10.2.54.5	255.255.255.0	Read-Only	Enable

http://10.2.14.10/screens/snmp/snmp\_comm\_list.html

Download No Rank 0

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http://10.2.14.10/screens/frameset.html

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**CISCO** MONITOR WLANS CONTROLLER WIRELESS SECURITY **MANAGEMENT** COMMANDS HELP

Management **SNMP Trap Receiver** New...

Summary

SNMP

- General
- SNMP V3 Users
- Communities
- Trap Receivers
- Trap Controls
- Trap Logs

HTTP

Telnet-SSH

Serial Port

Local Management Users

User Sessions

Logs

Mgmt Via Wireless

Tech Support

Community Name	IP Address	Status
nac-cam-rcv	10.2.54.5	Enable

http://10.2.14.10/screens/snmp/trap\_rcvr\_cfg\_list.html

Download No Rank 0

# NAM Configuration

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10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

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**CISCO** Cisco Clean Access Super Manager Version 4.5.1

Device Management > Clean Access Servers

Device Management

- CCA Servers
- Filters
- Clean Access

OOB Management

- Profiles
- Devices

User Management

- User Roles
- Auth Servers
- Local Users

Monitoring

- Summary
- Online Users
- Event Logs
- SNMP

Administration

- CCA Manager
- User Pages
- Admin Users
- Backup

List of Servers

IP Address	Type	Location	Status	Manage	Disconnect	Reboot	Delete
10.2.53.5	Out-of-Band Virtual Gateway		Connected				

https://10.2.54.5/admin/sslist.jsp?CCA\_TOKEN=KeNUyMiPraBrCswDRsvzTg0aofV5v4l-OPTEXBa2Ze.

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**CISCO** Cisco Clean Access Super Manager Version 4.5.1

User Management > Auth Servers

Auth Servers

- Lookup Servers
- Mapping Rules
- Auth Test
- Accounting

Authentication Cache Timeout (seconds):  Update

Provider Name	Authentication Type	Description	Mapping	Edit	Delete
Local DB	local	Cisco local authentication			

Done

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Remember Never for This Site Not Now

# Cisco Clean Access Super Manager Version 4.5.1

**User Management > Local Users**

Guest Users Local Users

List New

User Name	Role Name	Description	Edit	Delete
guest	Unauthenticated Role	guest user		
cisco	guest	test account		

Done

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

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WLC-2106 WLC2106... NAC Out... Invalid... The pag... ATT Wir... nac oob... Cisco N... m woob... cisco se... Secure... ccmigra... Cisco N...

Remember Never for This Site Not Now

# Cisco Clean Access Super Manager Version 4.5.1

**Device Management > Clean Access**

Certified Devices General Setup Network Scanner Clean Access Agent Updates

Web Login Agent Login

User Role:

Operating System:

(By default, 'ALL' settings apply to all client operating systems. OS-specific settings are specified.)

- Show [Network Scanner User Agreement page](#) to web login users
- Enable pop-up scan vulnerability reports from User Agreement page
- Require users to be certified at every login
- Exempt certified devices from web login requirement by adding to MAC filters
- Block/Quarantine users with [vulnerabilities](#) in role:

Show quarantined users User Agreement Page of:

Done

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

Most Visited Getting Started Latest Headlines Computer Networks...

Cisco Clean Access Super Manager Version 4.5.1

Log in to the Cisco Clean Access Super Manager. (Note: Settings apply to all Cisco operating systems unless otherwise specified.)

**Device Management**

- CCA Servers
- Filters
- Clean Access**

**OOB Management**

- Profiles
- Devices

**User Management**

- User Roles
- Auth Servers
- Local Users

**Monitoring**

- Summary
- Online Users
- Event Logs
- SNMP

**Administration**

- CCA Manager
- User Pages
- Admin Users
- Backup

**Require use of Clean Access Agent** (for Windows & Macintosh OSX only)  
Clean Access Agent Download Page Message (or URL):

**Require use of Cisco NAC Web Agent** (for Windows 2000/XP/Vista only)  
Cisco NAC Web Agent Launch Page Message (or URL):

**Allow restricted network access in case user cannot use Clean Access Agent or Cisco NAC Web Agent**  
 Restricted Access User Role:   
 Restricted Access Button Text:   
 Restricted Network Access Message:

**Show Network Policy to Clean Access Agent and Cisco NAC Web Agent users** (for Windows only)  
Network Policy Link:

**Logoff Clean Access Agent users from network on their machine logoff or shutdown after**  secs (for Windows & In-Band setup)  
(Setting the time to zero secs will logoff user immediately. Valid range: 0 - 300 secs.)

**Refresh Windows domain group policy after login** (for Windows only)

**Automatically close login success screen after**  secs  
(Setting the time to zero secs will not display the login success screen. Valid range: 0 - 300 secs.)

**Automatically close logout success screen after**  secs (for Windows only)  
(Setting the time to zero secs will not display the logout success screen. Valid range: 0 - 300 secs.)

Done

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

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Cisco Clean Access Super Manager Version 4.5.1

**OOB Management > Profiles**

Group	Device	Port	VLAN	SNMP Receiver
List · New · Edit				

(These settings must match the device setup to ensure that the Clean Access Manager can read/write to the device correctly)

Profile Name:

Device Model:

SNMP Port:

Description:

**SNMP Read Settings**

SNMP Version:

Community String:

**SNMP Write Settings**

SNMP Version:

Community String:

Done



File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

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Cisco Clean Access Super Manager Version 4.5.1

**OOB Management > Profiles**

Group Device Port VLAN **SNMP Receiver**

SNMP Trap - Advanced Settings

(Configure the SNMP daemon running on the Clean Access Manager. The device setup must match these settings to be able to send traps to the Clean Access Manager)

Trap Port on Clean Access Manager

**SNMP V1 Settings**

Community String

**SNMP V2c Settings**

Community String

**SNMP V3 Settings**

Security Method

User Name

User Auth

User Priv

https://10.2.54.5/admin/switch/profile\_trap\_edit.jsp?CCA\_TOKEN=KeNUyMiPraBrCswDtrsvzTg0aofV5v4l-OPTExBa2zE.

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

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Cisco Clean Access Super Manager Version 4.5.1

**OOB Management > Devices**

Devices Discovered Clients

Wired Clients Wireless Clients

(This page shows all the clients discovered from SNMP traps sent by Cisco Wireless LAN Controllers.)

Show clients connected to WLC with IP:

Show client with MAC:

Clients/Page:

Clients 1-1 of 1 | First | Previous | Next | Last |

MAC	IP	WLC	SSID	AP MAC	Auth VLAN	Access VLAN	Last Update	
00:1D:E0:0D:6A:EF	N/A	10.2.14.10	cisco	00:26:0B:2A:AF:10	50	51	2010-07-22 13:55:36.404	<input type="checkbox"/>

https://10.2.54.5/admin/switch/mgmt\_client\_wlc.jsp?CCA\_TOKEN=KeNUyMiPraBrCswDtrsvzTg0aofV5v4l-OPTExBa2zE.

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

Most Visited Getting Started Latest Headlines Computer Networks...

Cisco Clean Access Super Manager Version 4.5.1

Device Management > Clean Access Servers > 10.2.53.5

Device Management

- CCA Servers
  - Filters
  - Clean Access
- OoB Management
  - Profiles
  - Devices
- User Management
  - User Roles
  - Auth Servers
  - Local Users
- Monitoring
  - Summary
  - Online Users
  - Event Logs
  - SNMP
- Administration
  - CCA Manager
  - User Pages
  - Admin Users
  - Backup

Status Network Filter Advanced Authentication Misc

Module	Status
IP Filter	Started
DHCP Forward	Started
Active Directory SSO	Stopped
Windows NetBIOS SSO	Stopped

Done

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

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Cisco Clean Access Super Manager Version 4.5.1

Device Management > Clean Access Servers > 10.2.53.5

Device Management

- CCA Servers
  - Filters
  - Clean Access
- OoB Management
  - Profiles
  - Devices
- User Management
  - User Roles
  - Auth Servers
  - Local Users
- Monitoring
  - Summary
  - Online Users
  - Event Logs
  - SNMP
- Administration
  - CCA Manager
  - User Pages
  - Admin Users
  - Backup

Status Network Filter Advanced Authentication Misc

IP · DHCP · DNS

Clean Access Server Type: Out-of-Band Virtual Gateway

Enable L3 support  
 Enable L3 strict mode to block NAT devices with Clean Access Agent  
 Enable L2 strict mode to block L3 devices with Clean Access Agent

Platform: APPLIANCE

Trusted Interface (to protected network)

IP Address: 10.2.53.5  
 Subnet Mask: 255.255.255.0  
 Default Gateway: 10.2.53.1  
 Set management VLAN ID: 53  
 Pass through VLAN ID to managed network

Untrusted Interface (to managed network)

IP Address: 10.2.53.5  
 Subnet Mask: 255.255.255.0  
 Default Gateway: 10.2.53.1  
 Set management VLAN ID: 0  
 Pass through VLAN ID to protected network

(Make sure the Clean Access Server is on VLAN n before you set its management VLAN ID to n.)

Update Reboot

Waiting for 10.2.54.5...

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10.2.54.5 https://10.2.54.5/admin/

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Cisco Clean Access Super Manager Version 4.5.1

Device Management > Clean Access Servers > 10.2.53.5

Device Management

- CCA Servers
  - Filters
  - Clean Access
- OOB Management
  - Profiles
  - Devices
- User Management
  - User Roles
  - Auth Servers
  - Local Users
- Monitoring
  - Summary
  - Online Users
  - Event Logs
  - SNMP
- Administration
  - CCA Manager
  - User Pages
  - Admin Users
  - Backup

Status Network Filter Advanced Authentication Misc

Managed Subnet VLAN Mapping NAT 1:1 NAT Static Routes ARP Proxy

Enable subnet-based VLAN retag

IP Address

Subnet Mask

VLAN ID  (-1 for non-VLAN)

Description

IP/Netmask	Description	VLAN	Delete
10.2.53.5 / 255.255.255.0	Main Subnet	-1	
10.2.51.254 / 255.255.255.0	users on vlan 51	50	X

Done

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/

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Cisco Clean Access Super Manager Version 4.5.1

Device Management > Clean Access Servers > 10.2.53.5

Device Management

- CCA Servers
  - Filters
  - Clean Access
- OOB Management
  - Profiles
  - Devices
- User Management
  - User Roles
  - Auth Servers
  - Local Users
- Monitoring
  - Summary
  - Online Users
  - Event Logs
  - SNMP
- Administration
  - CCA Manager
  - User Pages
  - Admin Users
  - Backup

Status Network Filter Advanced Authentication Misc

Managed Subnet VLAN Mapping NAT 1:1 NAT Static Routes ARP Proxy

VLAN Packet Handling

Enable VLAN Pruning  
When enabled along with VLAN Mapping, disallows any VLAN Packet to pass through to other interface in either direction if VLAN mapping cannot be done for the packet. If enabled alone, discards all VLAN packets from passing through in either direction.

Enable VLAN Mapping

VLAN Mapping Assignments

Untrusted network VLAN ID  (-1 for non-VLAN)

Trusted network VLAN ID  (-1 for non-VLAN)

Description

Untrusted VLAN ID	Trusted VLAN ID	Description	Del
50	51	users on vlan 51	X

Done

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

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## Cisco Clean Access Super Manager Version 4.5.1

Device Management > Clean Access Servers > 10.2.53.5

[Status](#)
[Network](#)
[Filter](#)
[Advanced](#)
[Authentication](#)
[Misc](#)

[Login Page](#)
[VPN Auth](#)
[Windows Auth](#)
[OS Detection](#)

List | Add | File Upload

Override Global Settings [Update](#)

VLAN ID	Subnet	OS	Edit	Del	Move
51	10.2.51.0/255.255.255.0	ALL			

Done

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

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WLC-2106 wlc2106... NAC Out... Invalid ... The pag... ATT Wir... nac oob ... Cisco N... m woob... cisco se... Secure ... ccmigra... Cisco N

## Cisco Clean Access Super Manager Version 4.5.1

OOB Management > Profiles

[Group](#)
[Device](#)
[Port](#)
[VLAN](#)
[SNMP Receiver](#)

List | New

Group Name	Description	Devices	Edit	Delete
wlc	cisco wireless lan controller			
default	Default Group			

https://10.2.54.5/admin/switch/profile\_group\_list.jsp?CCA\_TOKEN=KeNUyMiPraBrCswDtRsvzTg0aofV5v4l-OPTExBa2zE.

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

Most Visited Getting Started Latest Headlines Computer Networks...

WLC-2106 wlc2106... NAC Out... Invalid ... The pag... ATT Wir... nac oob ... Cisco N... m woob... cisco se... Secure ... ccmigra... Cisco N...

## Cisco Clean Access Super Manager Version 4.5.1

**OOB Management > Devices**

Device Management: CCA Servers, Filters, Clean Access

OOB Management: Profiles, **Devices**

User Management: User Roles, Auth Servers, Local Users

Monitoring: Summary, Online Users, Event Logs, SNMP

Administration: CCA Manager, User Pages, Admin Users, Backup

Devices | Discovered Clients

List · New · Search

Device Group: ALL Device Profile: wlc  
 Device IP: Port Profile: ALL

IP	MAC	Model	Description	Profile	Config	Ports	Delete
10.2.14.10	00:25:45:9B:B8:00	WLC		wlc			

Done Download No Rank

File Edit View History Bookmarks Tools Help

10.2.54.5 https://10.2.54.5/admin/ cisco secure wireless

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WLC-2106 wlc2106... NAC Out... Invalid ... The pag... ATT Wir... nac oob ... Cisco N... m woob... cisco se... Secure ... ccmigra... Cisco N...

## Cisco Clean Access Super Manager Version 4.5.1

**User Management > User Roles**

Device Management: CCA Servers, Filters, Clean Access

OOB Management: Profiles, Devices

User Management: **User Roles**, Auth Servers, Local Users

Monitoring: Summary, Online Users, Event Logs, SNMP

Administration: CCA Manager, User Pages, Admin Users, Backup

List of Roles | New Role | Traffic Control | Bandwidth | Schedule

Role Name	VLAN	Description	Policies	BW	Edit	Del
Unauthenticated Role		Role for unauthenticated users				
Temporary Role		Role for users to download requirements				
Quarantine Role		Role for quarantined users				
guest	:51	test-role				

https://10.2.54.5/admin/rolelist.jsp?CCA\_TOKEN=KeNUyMiPrBrCswDTRsvzTg0aofV5v4l-OPTEXBa2zE. Download No Rank

