

Cisco Unified Wireless Network TACACS+ Configuration

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Introduction

This document provides a configuration example of Terminal Access Controller Access Control System Plus (TACACS+) in a Cisco Wireless LAN Controller (WLC) and a Cisco Wireless Control System (WCS) for a Cisco unified wireless network. This document also provides some basic troubleshooting tips.

TACACS+ is a client/server protocol that provides centralized security for users that attempt to gain management access to a router or network access server. TACACS+ provides these AAA services:

- Authentication of users attempting to log in to the network equipment
- Authorization to determine what level of access users should have
- Accounting to keep track of all changes the user makes

Refer to Configuring TACACS+ for more information on AAA services and TACACS+ functionality.

Refer to TACACS+ and RADIUS Comparison for a comparison of TACACS+ and RADIUS.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Knowledge of how to configure WLCs and lightweight access points (LAPs) for basic operation
- Knowledge of Lightweight Access Point Protocol (LWAPP) and wireless security methods
- Basic knowledge RADIUS and TACACS+
- Basic knowledge of Cisco ACS configuration

Components Used

The information in this document is based on these software and hardware versions:

- Cisco Secure ACS for Windows version 4.0
- Cisco Wireless LAN Controller that runs version 4.1.171.0. TACACS+ functionality on WLCs is supported on software version 4.1.171.0 or later.
- Cisco Wireless Control System that runs version 4.1.83.0. TACACS+ functionality on WCS is supported on software version 4.1.83.0 or later.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

TACACS+ Implementation in the Controller

Authentication

Authentication can be performed using a local database, RADIUS, or TACACS+ server that uses a username and a password. The implementation is not fully modular. Authentication and Authorization services are tied to each other. For example, if authentication is performed using RADIUS/local database, then authorization is not performed with TACACS+. It would use the permissions associated for the user in the local or RADIUS database, such as read-only or read-write, whereas when authentication is performed with TACACS+, authorization is tied to TACACS+.

In cases where multiple databases are configured, a CLI is provided to dictate the sequence in which the backend database should be referred.

Authorization

Authorization is task based rather than an actual per-command based authorization. The tasks are mapped to various tabs that correspond to the seven menu bar items that are currently on the web GUI. These are the menu bar items:

- MONITOR

- WLANS
- CONTROLLER
- WIRELESS
- SECURITY
- MANAGEMENT
- COMMAND

The reason for this mapping is based on the fact that most customers use web interface to configure the controller instead of CLI.

An additional role for lobby admin management (LOBBY) is available for users that need to have lobby admin privileges only.

The task that a user is entitled is configured in the TACACS+ (ACS) server using the custom Attribute–Value (AV) pairs. The user can be authorized for one or multiple tasks. The minimum authorization is MONITOR only and the maximum is ALL (authorized to perform all seven tabs). If a user is not entitled for a particular task, the user is still allowed to access that task in read–only mode. If authentication is enabled and the authentication server becomes unreachable or unable to authorize, the user cannot log in to the controller.

Accounting

Accounting occurs whenever a particular user–initiated action is performed successfully. The attributes changed are logged in the TACACS+ accounting server along with these:

- The user id of the individual who made the change
- The remote host from where the user is logged in
- The date and time when the command was performed
- Authorization level of the user
- A string that provides information as to what action was performed and the values provided

If the accounting server becomes unreachable, the user can still continue the session.

Note: Accounting records are not generated from WCS in software release 4.1 or earlier.

TACACS+ Configuration in the WLC

WLC Software release 4.1.171.0 and later introduces new CLIs and web GUI changes in order to enable the TACACS+ functionality on the WLC. The CLIs introduced are listed in this section for reference. The corresponding changes for web GUI are added under the Security tab.

This document assumes that the basic configuration of the WLC is already completed.

In order to configure TACACS+ in the WLC controller, you need to complete these steps:

1. Add a TACACS+ Authentication Server
2. Add a TACACS+ Authorization Server
3. Add a TACACS+ Accounting Server
4. Configure the Order of Authentication

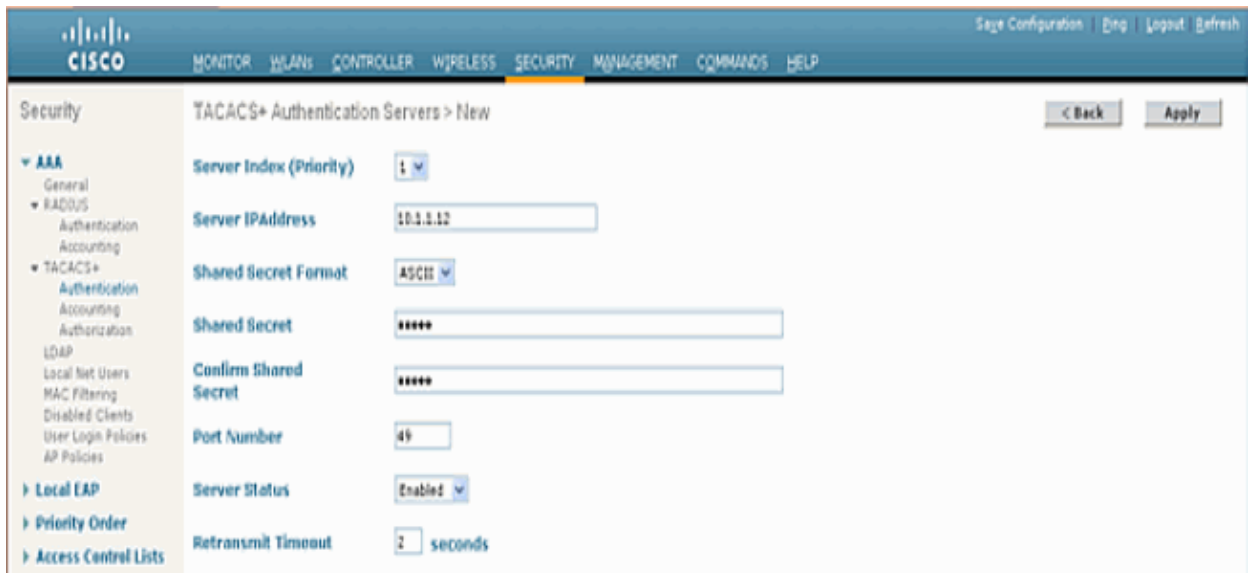
Add a TACACS+ Authentication Server

Complete these steps in order to add a TACACS+ Authentication Server:

1. Use the GUI, and go to **Security > TACACS+ > Authentication**.



2. Add the IP address of the TACACS+ server and enter the shared secret key. If required, change the default port of TCP/49.



3. Click **Apply**.

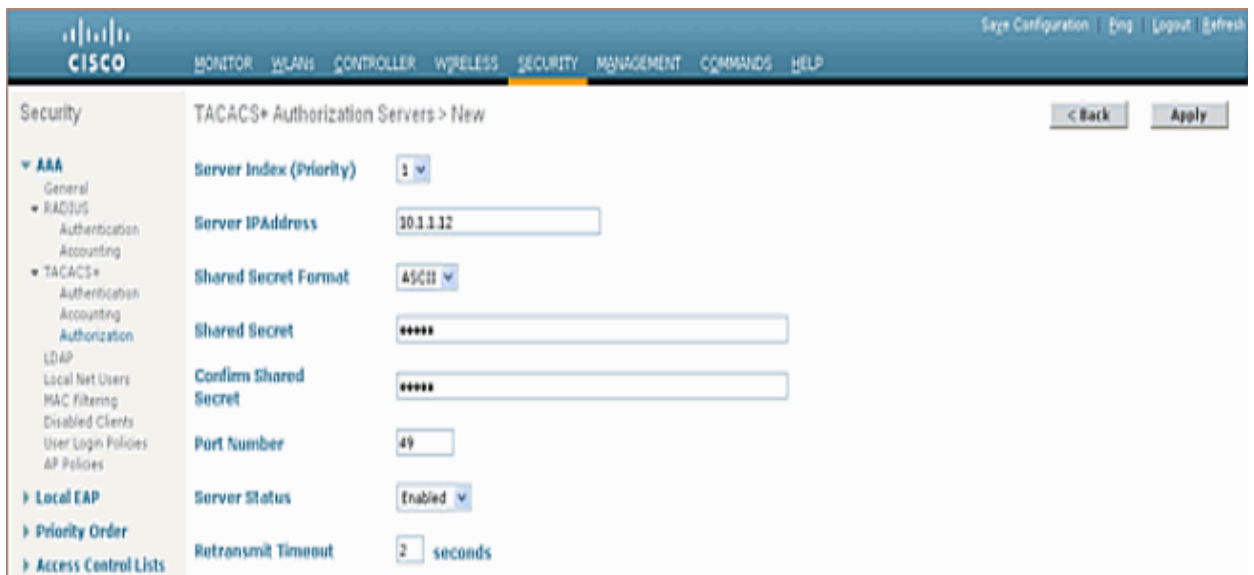
You can accomplish this from CLI using the **config tacacs auth add** <Server Index> <IP addr> <port> [ascii/hex] <secret> command:

```
(Cisco Controller) >config tacacs auth add 1 10.1.1.12 49 ascii cisco123
```

Add a TACACS+ Authorization Server

Complete these steps in order to add a TACACS+ Authorization Server:

1. From the GUI, go to **Security > TACACS+ > Authorization**.
2. Add the IP address of the TACACS+ server and enter the shared secret key. If required, change the default port of TCP/49.



The screenshot shows the Cisco GUI for configuring TACACS+ Authorization Servers. The left sidebar shows the navigation menu with 'Security' expanded. The main content area is titled 'TACACS+ Authorization Servers > New'. The form includes the following fields:

- Server Index (Priority): 1
- Server IP Address: 10.1.1.12
- Shared Secret Format: ASCII
- Shared Secret: cisco123
- Confirm Shared Secret: cisco123
- Port Number: 49
- Server Status: Enabled
- Retransmit Timeout: 2 seconds

Buttons for '< Back' and 'Apply' are visible in the top right corner.

3. Click **Apply**.

You can accomplish this from CLI using the **config tacacs athr add** <Server Index> <IP addr> <port> [ascii/hex] <secret> command:

```
(Cisco Controller) >config tacacs athr add 1 10.1.1.12 49 ascii cisco123
```

Add a TACACS+ Accounting Server

Complete these steps in order to add a TACACS+ Accounting Server:

1. Use the GUI, and go to **Security > TACACS+ > Accounting**.
2. Add the IP address of the server and enter the shared secret key. If required, change the default port of TCP/49.



The screenshot shows the Cisco GUI for configuring TACACS+ Accounting Servers. The left sidebar shows the navigation menu with 'Security' expanded. The main content area is titled 'TACACS+ Accounting Servers > New'. The form includes the following fields:

- Server Index (Priority): 1
- Server IP Address: 10.1.1.12
- Shared Secret Format: ASCII
- Shared Secret: cisco123
- Confirm Shared Secret: cisco123
- Port Number: 49
- Server Status: Enabled
- Retransmit Timeout: 2 seconds

Buttons for '< Back' and 'Apply' are visible in the top right corner.

3. Click **Apply**.

You can accomplish this from CLI using the **config tacacs acct add** <Server Index> <IP addr> <port> [ascii/hex] <secret> command:

```
(Cisco Controller) >config tacacs acct add 1 10.1.1.12 49 ascii cisco123
```

Configure the Order of Authentication

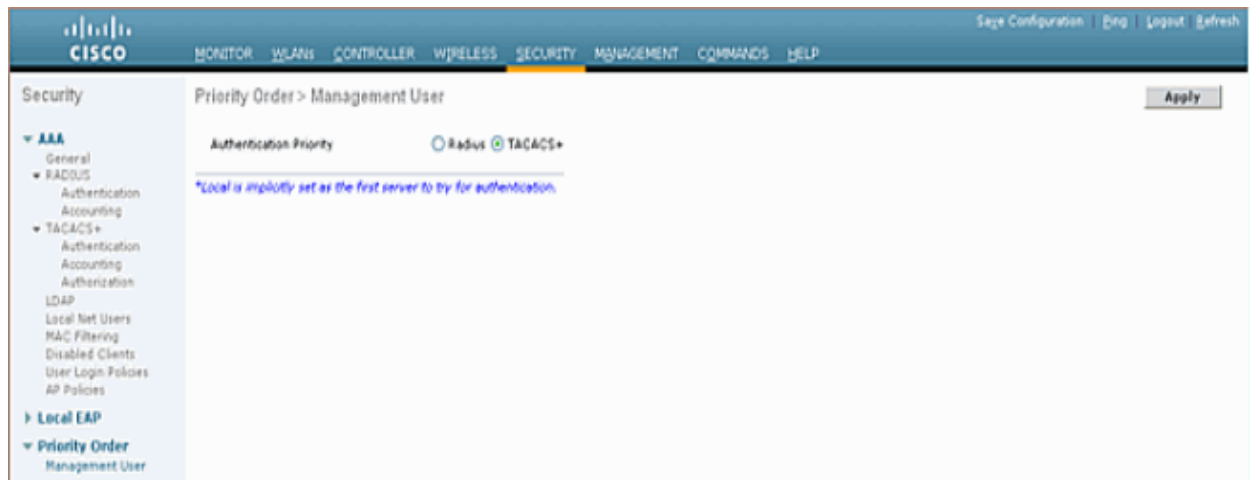
This step explains how to configure the AAA order of authentication when there are multiple databases configured. The order of authentication can be **local and RADIUS**, or **local and TACACS**. The default controller configuration for order of authentication is *local and RADIUS*.

Complete these steps in order to configure the order of authentication:

1. From the GUI, go to **Security > Priority Order > Management User**.
2. Select the Authentication Priority.

In this example, TACACS+ has been selected.

3. Click **Apply** in order for the selection to take place.



You can accomplish this from CLI using the **config aaa auth mgmt [radius or tacacs]** command:

```
(Cisco Controller) >config aaa auth mgmt tacacs
```

Verify Configuration

This section describes the commands used to verify TACACS+ configuration on the WLC. These are some useful **show** commands that help to determine if the configuration is correct:

- **show aaa auth** Provides information on the order of the authentication.

```
(Cisco Controller) >show aaa auth
Management authentication server order:
 1..... local
 2..... Tacacs
```

- **show tacacs summary** Displays a summary of TACACS+ services and statistics.

```
(Cisco Controller) >show tacacs summary
Authentication Servers

Idx  Server Address  Port  State  Tout
---  -
1    10.1.1.12      49    Enabled  2

Authorization Servers

Idx  Server Address  Port  State  Tout
---  -
```

```
1      10.1.1.12      49      Enabled      2
```

Accounting Servers

Idx	Server Address	Port	State	Tout
1	10.1.1.12	49	Enabled	2

- **show tacacs auth stats** Displays TACACS+ authentication server statistics.

```
(Cisco Controller) >show tacacs auth statistics
```

Authentication Servers:

```
Server Index..... 1
Server Address..... 10.1.1.12
Msg Round Trip Time..... 0 (1/100 second)
First Requests..... 7
Retry Requests..... 3
Accept Responses..... 3
Reject Responses..... 0
Error Responses..... 0
Restart Responses..... 0
Follow Responses..... 0
GetData Responses..... 0
Encrypt no secret Responses..... 0
Challenge Responses..... 0
Malformed Msgs..... 0
Bad Authenticator Msgs..... 0
Timeout Requests..... 12
Unknowntype Msgs..... 0
Other Drops..... 0
```

- **show tacacs athr stats** Displays TACACS+ authorization server statistics.

```
(Cisco Controller) >show tacacs athr statistics
```

Authorization Servers:

```
Server Index..... 1
Server Address..... 10.1.1.12
Msg Round Trip Time..... 0 (1/100 second)
First Requests..... 3
Retry Requests..... 3
Received Responses..... 3
Authorization Success..... 3
Authorization Failure..... 0
Challenge Responses..... 0
Malformed Msgs..... 0
Bad Athrenticator Msgs..... 0
Timeout Requests..... 0
Unknowntype Msgs..... 0
Other Drops..... 0
```

- **show tacacs acct stats** Displays TACACS+ accounting server statistics.

```
(Cisco Controller) >show tacacs acct statistics
```

Accounting Servers:

```
Server Index..... 1
Server Address..... 10.1.1.12
Msg Round Trip Time..... 0 (1/100 second)
First Requests..... 133
Retry Requests..... 0
Accounting Response..... 0
Accounting Request Success..... 0
Accounting Request Failure..... 0
Malformed Msgs..... 0
Bad Authenticator Msgs..... 0
Timeout Requests..... 399
```

```

Unknowntype Msgs..... 0
Other Drops..... 0

```

Configure Cisco Secure ACS Server

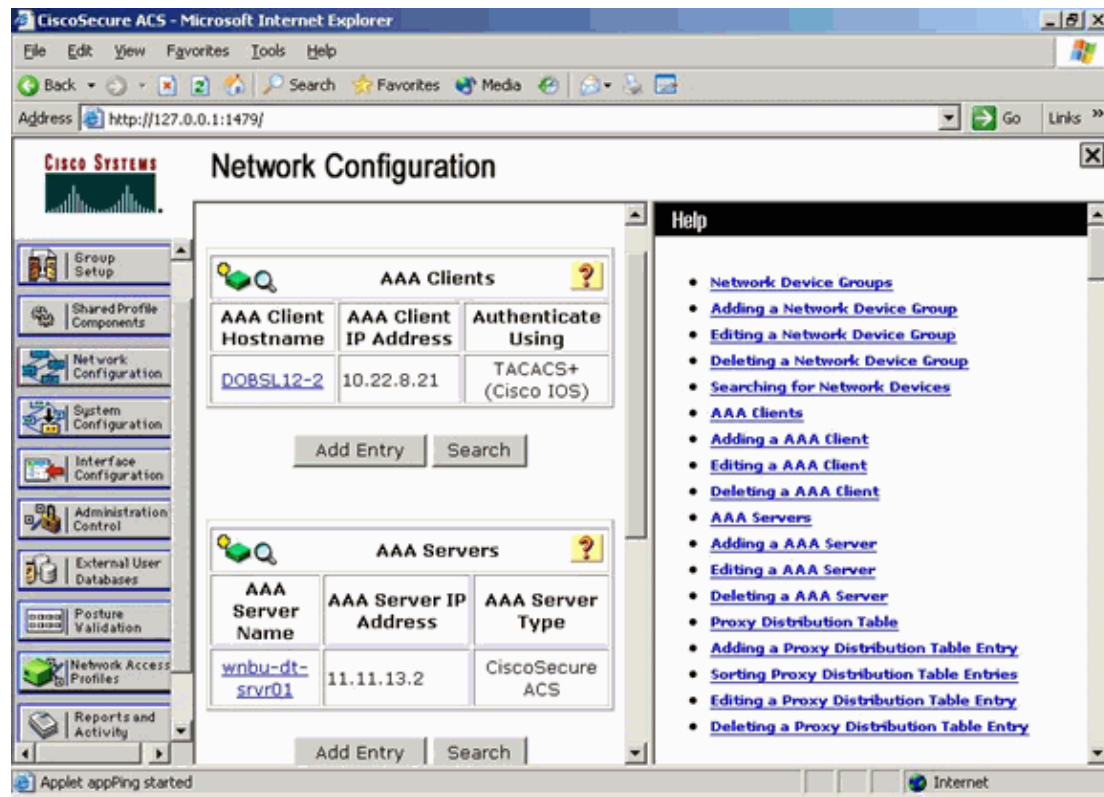
This section provides the steps involved in the TACACS+ ACS Server to create services and custom attributes, and assign the roles to the users or groups.

The creation of users and group is not explained in this section. It is assumed that the users and groups are created as needed. Refer to User Guide for Cisco Secure ACS for Windows Server 4.0 for information on how to create users and user groups.

Network Configuration

Complete this step:

Add the Controller management IP address as AAA client with Authentication mechanism as TACACS+ (Cisco IOS).




Interface Configuration

Complete these steps:

1. In the Interface Configuration menu, select the **TACACS+ (Cisco IOS)** link.
2. Enable the **New Services**.
3. Check both the **User** and **Group** check boxes.
4. Enter **ciscowlc** for Service and **common** for Protocol.
5. Enable the **Advanced TACACS+ Features**.

Address <http://127.0.0.1:1767/> Go Links



Interface Configuration

User Setup

Group Setup

Shared Profile Components

Network Configuration

System Configuration

Interface Configuration

Administration Control

External User Databases

Posture Validation

Network Access Profiles

Reports and Activity

Online Documentation

TACACS+ Services

User	Group	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	PPP IP
<input type="checkbox"/>	<input type="checkbox"/>	PPP IPX
<input type="checkbox"/>	<input type="checkbox"/>	PPP Multilink
<input type="checkbox"/>	<input type="checkbox"/>	PPP Apple Talk
<input type="checkbox"/>	<input type="checkbox"/>	PPP VPDN
<input type="checkbox"/>	<input type="checkbox"/>	PPP LCP
<input type="checkbox"/>	<input type="checkbox"/>	ARAP
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shell (exec)
<input type="checkbox"/>	<input type="checkbox"/>	PIX Shell (pixshell)
<input type="checkbox"/>	<input type="checkbox"/>	SLIP

New Services

		Service	Protocol
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ciscowlc	common
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		

Advanced Configuration Options

☒ Advanced TACACS+ Features

☐ Display a Time-of-Day access grid for every TACACS+ service where you can

Submit Cancel

6. Click **Submit** in order to apply the changes.

User/Group Setup

Complete these steps:

1. Select a previously created User/Group.
2. Go to **TACACS+ Settings**.
3. Check the check box that corresponds to the *ciscowlc* service that was created in the Interface Configuration section.
4. Check the **Custom attributes** check box.

Group Setup

Jump To: Access Restrictions

Shell Command Authorization Set

☒ None

☐ Assign a Shell Command Authorization Set for any network device

☐ Per Group Command Authorization

Unmatched Cisco IOS commands

☐ Permit

☒ Deny

☐ Command:

Arguments:

Unlisted arguments

☐ Permit

☒ Deny

☒ **ciscoIec common**

☒ Custom attributes

role1=ALL

☐ **Wireless-WCS HTTP**

☐ Custom attributes

IETF RADIUS Attributes

☐ [006] Service-Type

Callback: NAS Domain

Submit Submit + Restart Cancel

5. In the text box below Custom attributes, enter this text if the user created needs access only to WLAN, SECURITY and CONTROLLER: **role1=WLAN role2=SECURITY role3=CONTROLLER**.

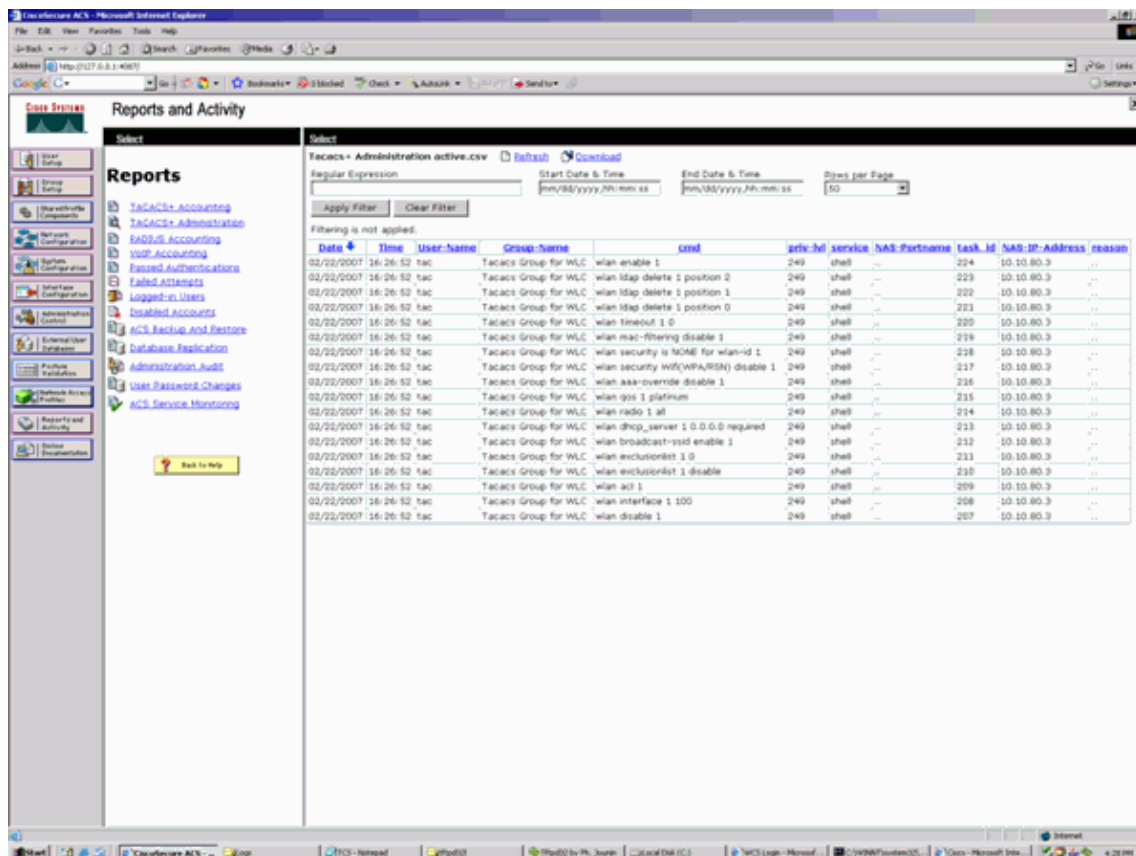
If the user needs access only to the SECURITY tab, enter this text: **role1=SECURITY**.

The role corresponds to the seven menu bar items in the controller web GUI. The menu bar items are MONITOR, WLAN, CONTROLLER, WIRELESS, SECURITY, MANAGEMENT and COMMAND.

6. Enter the role that a user needs for role1, role2 and so on. If a user needs all the roles, then the keyword **ALL** should be used. For the lobby admin role, the keyword **LOBBY** should be used.

Accounting Records in Cisco Secure ACS

TACACS+ accounting records from the WLC are available in Cisco Secure ACS in the TACACS+ Administration of Reports and Activity:



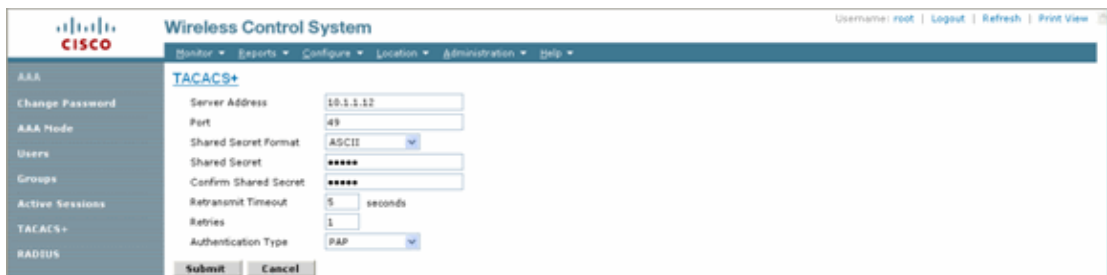
TACACS+ Configuration in the WCS

Complete these steps:

1. From the GUI, log in to the WCS with the root account.
2. Add the TACACS+ server. Go to **Administration > AAA > TACACS+ > Add TACACS+ Server**.



3. Add the TACACS+ server details, such as IP address, port number (49 is default), and shared secret key.



4. Enable TACACS+ authentication for administration in the WCS. Go to **Administration > AAA > AAA Mode > Select TACACS+**.



WCS using Virtual Domains

Virtual Domain is a new feature introduced with WCS version 5.1. A WCS virtual domain consists of a set of devices and maps and restricts a user's view to information relevant to these devices and maps. Through a virtual domain, an administrator can ensure that users can only view the devices and maps for which they are responsible. In addition, because of the virtual domain's filters, users can configure, view alarms, and generate reports for only their assigned part of the network. The administrator specifies a set of allowed virtual domains for each user. Only one of these can be active for that user at login. The user can change the current virtual domain by selecting a different allowed virtual domain from the Virtual Domain drop-down menu at the top of the screen. All reports, alarms, and other functionality are now filtered by that virtual domain.

If there is only one virtual domain defined (root) in the system and the user does not have any virtual domains in the custom attributes fields in the TACACS+/RADIUS server, the user is assigned the root virtual domain by default.

If there is more than one virtual domain, and the user does not have any specified attributes, then the user is blocked from logging in. In order to allow the user to log in, the Virtual Domain custom attributes must be exported to the Radius/TACACS+ server.

The Virtual Domain Custom Attributes window allows you to indicate the appropriate protocol-specific data for each virtual domain. The Export button on the Virtual Domain Hierarchy sidebar pre-formats the virtual domain's RADIUS and TACACS+ attributes. You can copy and paste these attributes into the ACS server. This allows you to copy only the applicable virtual domains to the ACS server screen and ensures that the users only have access to these virtual domains.

In order to apply the pre-formatted RADIUS and TACACS+ attributes to the ACS server, complete the steps explained in the Virtual Domain RADIUS and TACACS+ Attributes section.

Configure Cisco Secure ACS to Use WCS

The section provides the steps involved in the TACACS+ ACS Server to create services and custom attributes, and assign the roles to the users or groups.

The creation of users and group is not explained in this section. It is assumed that the users and groups are created as needed.

Network Configuration

Complete this step:

Add the WCS IP address as AAA client with Authentication mechanism as TACACS+ (Cisco IOS).

The image shows a screenshot of the Cisco Systems Network Configuration web interface. The top header includes the Cisco Systems logo and the title "Network Configuration". Below the header is a black bar with the word "Edit" in white. On the left side, there is a vertical navigation menu with icons and labels for various configuration sections: User Setup, Group Setup, Shared Profile Components, Network Configuration, System Configuration, Interface Configuration, Administration Control, External User Databases, Posture Validation, Network Access Profiles, Reports and Activity, and Online Documentation. The main content area is titled "AAA Client Setup For WCS". It contains several input fields and checkboxes. The "AAA Client IP Address" field is set to "192.168.60.5". The "Key" field is set to "cisco". The "Authenticate Using" dropdown menu is set to "TACACS+ (Cisco IOS)". There are four checkboxes: "Single Connect TACACS+ AAA Client (Record stop in accounting on failure)" is unchecked, "Log Update/Watchdog Packets from this AAA Client" is checked, "Log RADIUS Tunneling Packets from this AAA Client" is checked, and "Replace RADIUS Port info with Username from this AAA Client" is checked. At the bottom of the form, there are five buttons: "Submit", "Submit + Apply", "Delete", "Delete + Apply", and "Cancel". Below these buttons is a yellow button with a question mark icon and the text "Back to Help".

Cisco Systems Network Configuration

Edit

AAA Client Setup For WCS

AAA Client IP Address: 192.168.60.5

Key: cisco

Authenticate Using: TACACS+ (Cisco IOS)

☐ Single Connect TACACS+ AAA Client (Record stop in accounting on failure).

☒ Log Update/Watchdog Packets from this AAA Client

☒ Log RADIUS Tunneling Packets from this AAA Client

☒ Replace RADIUS Port info with Username from this AAA Client

Submit Submit + Apply Delete Delete + Apply Cancel

Back to Help


Interface Configuration

Complete these steps:

1. In the Interface Configuration menu, select the **TACACS+ (Cisco IOS)** link.
2. Enable the **New Services**.
3. Check both the **User** and **Group** check boxes.
4. Enter **Wireless–WCS** for Service and **HTTP** for Protocol.

Note: HTTP must be in CAPS.

5. Enable the **Advanced TACACS+ Features**.



User Setup

Group Setup

Shared Profile Components

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Interface Configuration

<input type="checkbox"/>	<input checked="" type="checkbox"/>	PPP IP
<input type="checkbox"/>	<input type="checkbox"/>	PPP IPX
<input type="checkbox"/>	<input type="checkbox"/>	PPP Multilink
<input type="checkbox"/>	<input type="checkbox"/>	PPP Apple Talk
<input type="checkbox"/>	<input type="checkbox"/>	PPP VPDN
<input type="checkbox"/>	<input type="checkbox"/>	PPP LCP
<input type="checkbox"/>	<input type="checkbox"/>	ARAP
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shell (exec)
<input type="checkbox"/>	<input type="checkbox"/>	PIX Shell (pixshell)
<input type="checkbox"/>	<input type="checkbox"/>	SLIP

New Services

		Service	Protocol
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ciscowlc	common
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Wireless-WCS	HTTP
<input type="checkbox"/>	<input type="checkbox"/>		

Advanced Configuration Options

☒ Advanced TACACS+ Features
 ?

6. Click **Submit** in order to apply the changes.

User/Group Setup

Complete these steps:

1. In the WCS GUI, navigate to **Administration > AAA > Groups** to select any of the pre-configured user groups, such as SuperUsers in the WCS.

CISCO

Wireless Control System

Username: root | Logout | Refresh | Print View

Monitor

Reports

Configure

Location

Administration

Help

AAA

Change Password

Local Password Policy

AAA Node

Users

Groups

Active Sessions

TACACS+

RADIUS

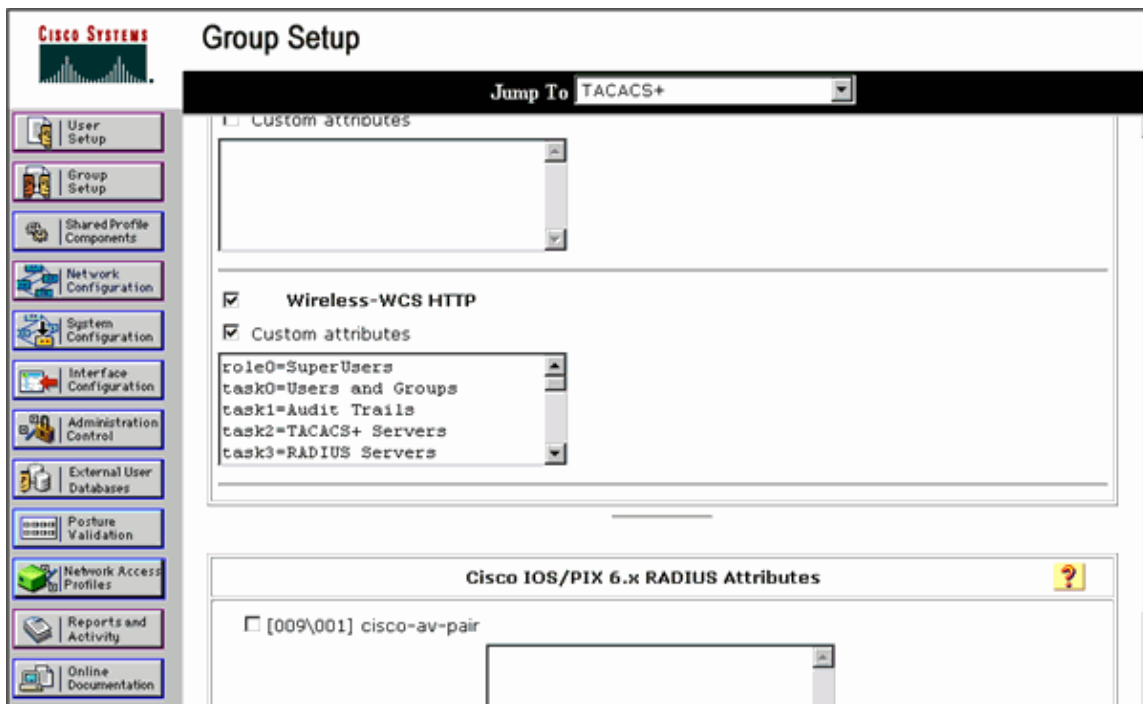
All Groups

Group Name	Members	Audit Trail	Export
Admin	---		Task List
ConfAppMaster	---		Task List
CustomMaster	---		Task List
UsersAssistant	---		Task List
UnlabeledMaster	---		Task List
MonitorLib	---		Task List
NorthBoundAPI	---		Task List
SuperMaster	---		Task List
Test	---		Task List
User Defined 1	---		Task List
User Defined 2	---		Task List
User Defined 3	---		Task List
User Defined 4	---		Task List

2. Select the Task List for the pre-configured user groups and copy paste to the ACS.



3. Select a previously created User/Group and go to **TACACS+ Settings**.
4. In ACS GUI, select the check box that corresponds to Wireless–WCS service that was created earlier.
5. In ACS GUI, check the **Custom attributes** box.
6. In the text box below Custom attributes, enter this role and task information copied from the WCS.
For example, enter the list of tasks permitted by the SuperUsers.



7. Then, log in to the WCS with the newly created username/password in the ACS.

Debugs

Debugs from WLC for role1=ALL

```
(Cisco Controller) >debug aaa tacacs enable
```

```
(Cisco Controller) >Wed Feb 28 17:36:37 2007: Forwarding request to 10.1.1.12 port=49
Wed Feb 28 17:36:37 2007: tplus response: type=1 seq_no=2 session_id=5eaa857e
length=16 encrypted=0
Wed Feb 28 17:36:37 2007: TPLUS_AUTHEN_STATUS_GETPASS
Wed Feb 28 17:36:37 2007: auth_cont get_pass reply: pkt_length=22
Wed Feb 28 17:36:37 2007: processTplusAuthResponse: Continue auth transaction
Wed Feb 28 17:36:37 2007: tplus response: type=1 seq_no=4 session_id=5eaa857e
length=6 encrypted=0
Wed Feb 28 17:36:37 2007: tplus_make_author_request() from tplus_authen_passed returns rc=
Wed Feb 28 17:36:37 2007: Forwarding request to 10.1.1.12 port=49
Wed Feb 28 17:36:37 2007: author response body: status=1 arg_cnt=1 msg_len=0 data_len=0
```

```
Wed Feb 28 17:36:37 2007: arg[0] = [9][role1=ALL]
Wed Feb 28 17:36:37 2007: User has the following mgmtRole ffffffff8
```

Debugs from WLC for Multiple Roles

```
(Cisco Controller) >debug aaa tacacs enable
```

```
Wed Feb 28 17:59:33 2007: Forwarding request to 10.1.1.12 port=49
Wed Feb 28 17:59:34 2007: tplus response: type=1 seq_no=2
session_id=b561ad88 length=16 encrypted=0
Wed Feb 28 17:59:34 2007: TPLUS_AUTHEN_STATUS_GETPASS
Wed Feb 28 17:59:34 2007: auth_cont get_pass reply: pkt_length=22
Wed Feb 28 17:59:34 2007: processTplusAuthResponse: Continue auth transaction
Wed Feb 28 17:59:34 2007: tplus response: type=1 seq_no=4 session_id=b561ad88
length=6 encrypted=0
Wed Feb 28 17:59:34 2007: tplus_make_author_request() from tplus_authen_passed
returns rc=0
Wed Feb 28 17:59:34 2007: Forwarding request to 10.1.1.12 port=49
Wed Feb 28 17:59:34 2007: author response body: status=1 arg_cnt=4 msg_len=0 data_len=0
Wed Feb 28 17:59:34 2007: arg[0] = [11][role1=WLAN]
Wed Feb 28 17:59:34 2007: arg[1] = [16][role2=CONTROLLER]
Wed Feb 28 17:59:34 2007: arg[2] = [14][role3=SECURITY]
Wed Feb 28 17:59:34 2007: arg[3] = [14][role4=COMMANDS]
Wed Feb 28 17:59:34 2007: User has the following mgmtRole 150
```

Debugs from a WLC for Authorization Failure

```
(Cisco Controller) >debug aaa tacacs enable
```

```
Wed Feb 28 17:53:04 2007: Forwarding request to 10.1.1.12 port=49
Wed Feb 28 17:53:04 2007: tplus response: type=1 seq_no=2 session_id=89c553a1
length=16 encrypted=0
Wed Feb 28 17:53:04 2007: TPLUS_AUTHEN_STATUS_GETPASS
Wed Feb 28 17:53:04 2007: auth_cont get_pass reply: pkt_length=22
Wed Feb 28 17:53:04 2007: processTplusAuthResponse: Continue auth transaction
Wed Feb 28 17:53:04 2007: tplus response: type=1 seq_no=4 session_id=89c553a1
length=6 encrypted=0
Wed Feb 28 17:53:04 2007: tplus_make_author_request() from tplus_authen_passed
returns rc=0
Wed Feb 28 17:53:04 2007: Forwarding request to 10.1.1.12 port=49
Wed Feb 28 17:53:04 2007: author response body: status=16 arg_cnt=0 msg_len=0 data_len=0
Wed Feb 28 17:53:04 2007: User has the following mgmtRole 0
Wed Feb 28 17:53:04 2007: Tplus authorization for tac failed status=16
```

Related Information

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