



Enhanced Test Command

Feature History

Release	Modification
12.2(4)T	This feature was introduced.
12.2(27)SBA	This feature was integrated into Cisco IOS Release 12.2(27)SBA.

Finding Support Information for Platforms and Cisco IOS Software Images

Use Cisco Feature Navigator to find information about platform support and Cisco IOS software image support. Access Cisco Feature Navigator at <http://www.cisco.com/go/fn>. You must have an account on Cisco.com. If you do not have an account or have forgotten your username or password, click **Cancel** at the login dialog box and follow the instructions that appear.

This feature module describes the Enhanced Test Command feature in Cisco IOS Release 12.2(4)T. It includes the following sections:

- [Feature Overview, page 1](#)
- [Supported Platforms, page 2](#)
- [Supported Standards, MIBs, and RFCs, page 3](#)
- [Configuration Tasks, page 3](#)
- [Configuration Examples, page 4](#)
- [Command Reference, page 5](#)
- [Glossary, page 9](#)

Feature Overview

The Enhanced Test Command feature introduces two new commands—**aaa user profile** and **aaa attribute**—that allow you to create a named user profile with calling line identification (CLID) or dialed number identification service (DNIS) attribute values, which can be associated with a **test aaa group** command.



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Use the **aaa attribute** command to add CLID or DNIS attribute values to a user profile, which is created by using the **aaa user profile** command. The CLID or DNIS attribute values can be associated with the record that is going out with the user profile (via the **test aaa group** command), thereby providing the RADIUS server with access to CLID or DNIS attribute information for all incoming calls.

Benefits

The Enhanced Test Command feature allows you to add a named user profile with CLID or DNIS attribute values and associate the user profile with the **test aaa group** command. Thus, the attribute values that are added to the user profile go to the RADIUS server, and the RADIUS server can access CLID or DNIS information when it receives a RADIUS record.

Restrictions

The **test aaa group** command does not work with TACACS+.

Related Documents

- *Cisco IOS Security Configuration Guide*, Release 12.2
- *Cisco IOS Security Command Reference*, Release 12.2

Supported Platforms

- Cisco 7100 series
- Cisco 7200 series

Platform Support Through Feature Navigator

Cisco IOS software is packaged in feature sets that support specific platforms. To get updated information regarding platform support for this feature, access Feature Navigator. Feature Navigator dynamically updates the list of supported platforms as new platform support is added for the feature.

Feature Navigator is a web-based tool that enables you to quickly determine which Cisco IOS software images support a specific set of features and which features are supported in a specific Cisco IOS image.

To access Feature Navigator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to cco-locksmith@cisco.com. An automatic check will verify that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password will be e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions at <http://www.cisco.com/register>.

Feature Navigator is updated when major Cisco IOS software releases and technology releases occur. As of May 2001, Feature Navigator supports M, T, E, S, and ST releases. You can access Feature Navigator at the following URL:

<http://www.cisco.com/go/fn>

Supported Standards, MIBs, and RFCs

Standards

None

MIBs

None

To obtain lists of supported MIBs by platform and Cisco IOS release, and to download MIB modules, go to the Cisco MIB website on Cisco.com at the following URL:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

RFCs

None

Configuration Tasks

See the following sections for configuration tasks for the Enhanced Test Command feature. Each task in the list is identified as either required or optional.

- [Configuring a User Profile](#) (required)
- [Associating a User Profile with a test aaa group Command](#) (required)
- [Verifying Enhanced Test Command](#) (optional)

Configuring a User Profile

To create a named user profile and add CLID or DNIS attribute values, use the following commands beginning in global configuration mode:

	Command	Purpose
Step 1	Router(config)# aaa user profile <i>profile-name</i>	Creates a user profile.
Step 2	Router(config-aaa-user)# aaa attribute {dnis clid} attribute-value	Adds DNIS or CLID attribute values to the user profile and enters AAA-user configuration mode.

Associating a User Profile with a test aaa group Command

To associate a user profile with a **test aaa group** command, use the following command in privilege EXEC mode:

Command	Purpose
Router# test aaa group {group-name radius} username password new-code [profile profile-name]	<p>Associates a DNIS or CLID named user profile with the record that is sent to the RADIUS server.</p> <p>Note The <i>profile-name</i> must match the <i>profile-name</i> specified in the aaa user profile command.</p>

Verifying Enhanced Test Command

To verify the enhanced test command configurations, use the following privilege EXEC commands:

Command	Purpose
Router# debug radius	Displays information associated with RADIUS.
Router# more system:running-config	Displays the contents of the current running configuration file. (Note that the more system:running-config command has replaced the show running-config command.)

Configuration Examples

This section provides the following configuration example:

- [User Profile Associated With a test aaa group command Example](#)

User Profile Associated With a test aaa group command Example

The following example shows how to configure the dnis = dnisvalue user profile “prfl1” and associate it with a **test aaa group** command. In this example, the **debug radius** command has been enabled and the output follows the configuration.

```
aaa user profile prfl1
  aaa attribute dnis
  aaa attribute dnis dnisvalue
  no aaa attribute clid
! Attribute not found.
  aaa attribute clid clidvalue
  no aaa attribute clid
  exit
!
! Associate the dnis user profile with the test aaa group command.
test aaa group radius user1 pass new-code profile prfl1
!
!
!
```

```

! debug radius output, which shows that the dnis value has been passed to the radius
! server.
*Dec 31 16:35:48: RADIUS: Sending packet for Unique id = 0
  *Dec 31 16:35:48: RADIUS: Initial Transmit unknown id 8 171.69.71.21:1645,
Access-Request, len 68
  *Dec 31 16:35:48: RADIUS: code=Access-Request id=08 len=0068
    authenticator=1E CA 13 F2 E2 81 57 4C - 02 EA AF 9D 30 D9 97 90
      T=User-Password[2]                L=12 V=*
      T=User-Name[1]                    L=07 V="kalki"
      T=Called-Station-Id[30]           L=0B V="dnisvalue"
      T=Service-Type[6]                  L=06 V=Login [1]
      T=NAS-IP-Address[4]                L=06 V=10.0.1.81

*Dec 31 16:35:48: RADIUS: Received from id 8 171.69.71.21:1645, Access-Accept, len 38
*Dec 31 16:35:48: RADIUS: code=Access-Accept id=08 len=0038

```

Command Reference

This section documents new commands. All other commands used with this feature are documented in the Cisco IOS Release 12.2 command reference publications.

- [aaa attribute](#)
- [aaa user profile](#)
- [test aaa group](#)

aaa attribute

To add calling line identification (CLID) and dialed number identification service (DNIS) attribute values to a user profile, use the **aaa attribute** command in AAA-user configuration mode. To remove this command from your configuration, use the **no** form of this command.

```
aaa attribute {clid | dnis} attribute-value
```

```
no aaa attribute {clid | dnis} attribute-value
```

Syntax Description

clid	Adds CLID attribute values to the user profile.
dnis	Adds DNIS attribute values to the user profile.
<i>attribute-value</i>	Specifies a name for CLID or DNIS attribute values.

Defaults

If this command is not enabled, you will have an empty user profile.

Command Modes

AAA-user configuration

Command History

Release	Modification
12.2(4)T	This command was introduced.
12.2(27)SBA	This command was integrated into Cisco IOS Release 12.2(27)SBA.

Usage Guidelines

Use the **aaa attribute** command to add CLID or DNIS attribute values to a named user profile, which is created by using the **aaa user profile** command. The CLID or DNIS attribute values can be associated with the record that is going out with the user profile (via the **test aaa group** command), thereby providing the RADIUS server with access to CLID or DNIS information when the server receives a RADIUS record.

Examples

The following example shows how to add CLID and DNIS attribute values to the user profile “cat”:

```
aaa user profile cat
aaa attribute clid clidval
aaa attribute dnis dnisval
```

Related Commands

Command	Description
aaa user profile	Creates a AAA user profile.
test aaa group	Associates a DNIS or CLID user profile with the record that is sent to the RADIUS server.

aaa user profile

To create an authentication, authorization, and accounting (AAA) named user profile, use the **aaa user profile** command in global configuration mode. To remove a user profile from the configuration, use the **no** form of this command.

```
aaa user profile profile-name
```

```
no aaa user profile profile-name
```

Syntax Description	<i>profile-name</i>	Character string used to name the user profile.
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Defaults	No default behavior or values.
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Command Modes	Global configuration
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Command History	Release	Modification
	12.2(4)T	This command was introduced.
12.2(27)SBA	This command was integrated into Cisco IOS Release 12.2(27)SBA.	

Usage Guidelines	Use the aaa user profile command to create a AAA user profile. Used in conjunction with the aaa attribute command, which adds calling line identification (CLID) and dialed number identification service (DNIS) attribute values, the user profile can be associated with the record that is sent to the RADIUS server (via the test aaa group command), which provides the RADIUS server with access to CLID or DNIS attribute information when the server receives a RADIUS record.
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Examples	The following example shows how to configure a dnis = dnisvalue user profile named “prfl1”:
-----------------	---

```
aaa user profile prfl1
aaa attribute dnis
aaa attribute dnis dnisvalue
no aaa attribute clid
! Attribute not found.
aaa attribute clid clidvalue
no aaa attribute clid
```

Related Commands	Command	Description
	aaa attribute	Adds DNIS or CLID attribute values to a user profile.
	test aaa group	Associates a DNIS or CLID user profile with the record that is sent to the RADIUS server.

test aaa group

To associate a dialed number identification service (DNIS) or calling line identification (CLID) user profile with the record that is sent to the RADIUS server, use the **test aaa group** command in privileged EXEC mode.

```
test aaa group {group-name | radius} username password new-code [profile profile-name]
```

Syntax Description

<i>group-name</i>	Subset of RADIUS servers that are used as defined by the server group <i>group-name</i> .
radius	Uses RADIUS servers for authentication.
<i>username</i>	Specifies a name for the user.
<i>password</i>	Character string that specifies the password.
new-code	The code path through the new code, which supports a CLID or DNIS user profile association with a RADIUS server.
profile <i>profile-name</i>	(Optional) Identifies the user profile specified in the aaa user profile command. To associate a user profile with the RADIUS server, the user profile name must be identified.

Defaults

If this command is not enabled, DNIS or CLID attribute values will not be sent to the RADIUS server.

Command Modes

Privileged EXEC

Command History

Release	Modification
12.2(4)T	This command was introduced.
12.2(27)SBA	This command was integrated into Cisco IOS Release 12.2(27)SBA.

Usage Guidelines

Use the **test aaa group** command to associate a DNIS or CLID named user profile with the record that is sent to the RADIUS server, which can then access DNIS or CLID information when the server receives a RADIUS record.



Note

The **test aaa group** command does not work with TACACS+.

Examples

The following example shows how to configure a `dnis = dnisvalue` user profile named “prfl1” and associate it with a **test aaa group** command:

```
aaa user profile prfl1
  aaa attribute dnis
  aaa attribute dnis dnisvalue
  no aaa attribute clid
! Attribute not found.
  aaa attribute clid clidvalue
  no aaa attribute clid
  exit
!
! Associate the dnis user profile with the test aaa group command.
test aaa group radius user1 pass new-code profile prfl1
```

Related Commands

Command	Description
aaa attribute	Adds DNIS or CLID attribute values to a user profile.
aaa user profile	Creates an AAA user profile.

Glossary

attribute—RADIUS Internet Engineering Task Force (IETF) attributes are the original set of 255 standard attributes that are used to communicate AAA information between a client and a server. Because IETF attributes are standard, the attribute data is predefined and well known; thus all clients and servers who exchange AAA information via IETF attributes must agree on attribute data such as the exact meaning of the attributes and the general bounds of the values for each attribute.

CLID—calling line identification. Also called caller ID. CLID provides the number from which a call originates.

DNIS—dialed number identification service. DNIS provides the number that is dialed.

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