Enhanced Test Command

The Enhanced Test Command feature allows a named user profile to be created with calling line ID (CLID) or dialed number identification service (DNIS) attribute values. The CLID or DNIS attribute values can be associated with the RADIUS record that is sent with the user profile so that the RADIUS server can access CLID or DNIS attribute information for all incoming calls.

Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see Bug Search Tool and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Restrictions for the Enhanced Test Command

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

How to Configure the Enhanced Test Command

Configuring a User Profile and Associating it with the RADIUS Record

This section describes how to create a named user profile with CLID or DNIS attribute values and associate it with the RADIUS record.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **aaa user profile** *profile-name*
4. **aaa attribute** {**dnis** | **clid**}
5. **exit**
6. **test aaa group** {*group-name* | } *username password* **new-code** [**profile** *profile-name*]

DETAILED STEPS

	Command or Action	Purpose
Step 1	**enable** **Example:** `Device> enable`	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	**configure terminal** **Example:** `Device# configure terminal`	Enters global configuration mode.
Step 3	**aaa user profile** *profile-name* **Example:** `Device(config)# aaa user profile profilename1`	Creates a user profile.
Step 4	**aaa attribute** {**dnis**	**clid**} **Example:** `Device# configure terminal`	Adds DNIS or CLID attribute values to the user profile and enters AAA-user configuration mode.
Step 5	**exit**	Exit Global Configuration mode.
Step 6	**test aaa group** {*group-name*	} *username password* **new-code** [**profile** *profile-name*]	Associates a DNIS or CLID named user profile with the record sent to the RADIUS server.

	Command or Action	Purpose
	Example: `Device# test aaa group username secret new-code profile profilename1`	**Note** The *profile-name* must match the profile-name specified in the **aaa user profile** command.

Verifying the Enhanced Test Command Configuration

To verify the Enhanced Test Command configuration, use the following commands in privileged EXEC mode:

Command	Purpose
`Device# debug radius`	Displays information associated with RADIUS.
`Device# 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 Example for Enhanced Test Command

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 profl1
!
!
!
! 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 8 172.22.71.21:1645, 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="test"
        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 8 172.22.71.21:1645, Access-Accept, len 38
*Dec 31 16:35:48: RADIUS: code=Access-Accept id=08 len=0038
```

Additional References

The following sections provide references related to Enhanced Test Command.

Related Documents

Related Topic	Document Title
Security Commands	*Cisco IOS Security Command Reference*

Standards

Standard	Title
None	--

MIBs

MIB	MIBs Link
None	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

RFCs

RFC	Title
None	--

Technical Assistance

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies. To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds. Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	http://www.cisco.com/techsupport

Feature Information for Enhanced Test Command

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to . An account on Cisco.com is not required.

Table 1: Feature Information for Enhanced Test Command

Feature Name	Releases	Feature Information
Enhanced Test Command	Cisco IOS XE 3.3SG Cisco IOS XE 3.5E Cisco IOS XE Release 3.6E	The Enhanced Test Command feature allows a named user profile to be created with calling line ID (CLID) or Dialed Number Identification Service (DNIS) attribute values. The CLID or DNIS attribute values can be associated with the RADIUS record that is sent with the user profile so that the RADIUS server can access CLID or DNIS attribute information for all incoming calls. The following commands were introduced or modified: **aaa attribute**, **aaa user profile**, and **test aaa group** In Cisco IOS XE Release 3.6E, this feature is supported on Cisco Catalyst 3850 Series Switches.

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 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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