



Enhanced Test Command

Last Updated: January 18, 2012

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.

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Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see 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 at the end of this document.

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

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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. Router# **test aaa group** {group-name | radius} username password new-code [profile profile-name]

DETAILED STEPS

Command or Action	Purpose
Step 1 enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2 configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3 aaa user profile <i>profile-name</i> Example: Router(config)# aaa user profile profilename1	Creates a user profile.
Step 4 aaa attribute {dnis clid} Example: Router# 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.

Command or Action	Purpose
<p>Step 6 Router# test aaa group {group-name radius} username password new-code [profile profile-name]</p> <p>Example:</p> <pre>Router# test aaa group radius secret new-code profile profilename1</pre>	<p>Associates a DNIS or CLID named user profile with the record 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 the Enhanced Test Command Configuration

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

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 for Enhanced Test Command

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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 8 172.22.71.21:1645, 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	<i>Cisco IOS Security Command Reference</i>

Standards

Standard	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	--

MIBs

MIB	MIBs Link
No new or modified MIBs are supported by this feature, and support for existing MIBs has not been modified by this feature.	To locate and download MIBs for selected platforms, Cisco IOS XE software releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

RFCs

RFC	Title
No new or modified RFCs are supported by this feature, and support for existing RFCs has not been modified by this feature.	--

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>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.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<p>http://www.cisco.com/techsupport</p>

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 www.cisco.com/go/cfn. 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 Release 2.1	<p>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</p> <p>In Cisco IOS XE Release 2.1, this feature was introduced on Cisco ASR 1000 Series Routers.</p> <p>The following commands were introduced or modified by this feature: aaa attribute, aaa user profile, test aaa group.</p>

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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