



Configuring Digest Authentication for the SIP Phone

When you configure digest authentication for SIP phones, Cisco Unified CallManager challenges the identity of the phone every time that the phone sends a SIP request to Cisco Unified CallManager. For additional information on how digest authentication works for SIP phones, see the [“Digest Authentication” section on page 1-16](#).

For information about configuring digest authentication for non-Cisco SIP phones, refer to Appendix C in the *Cisco Unified CallManager Administration Guide*.

This chapter contains information on the following topics:

- [SIP Phone Digest Authentication Configuration Checklist, page 8-1](#)
- [Configuring Digest Authentication Service Parameters, page 8-2](#)
- [Configuring Digest Credentials in the End User Configuration Window, page 8-3](#)
- [End User Digest Credential Configuration Settings, page 8-3](#)
- [Configuring the Digest User in the Phone Configuration Window, page 8-4](#)
- [Where to Find More Information, page 8-4](#)

SIP Phone Digest Authentication Configuration Checklist

[Table 8-1](#) describes the tasks to configure digest authentication for SIP phones.

Table 8-1 *SIP Phone Digest Authentication Configuration Checklist*

Configuration Steps		Related Procedures and Topics
Step 1	Configure the SIP phone security profiles; make sure that you check the Enable Digest Authentication check box.	Configuring a Phone Security Profile, page 5-1
Step 2	Apply a SIP phone security profile to the phone.	Configuring a Phone Security Profile, page 5-1
Step 3	If you want to update the default setting, configure service parameters that are related to digest authentication; for example, configure the SIP Station Realm service parameter.	Configuring Digest Authentication Service Parameters, page 8-2

Table 8-1 SIP Phone Digest Authentication Configuration Checklist (continued)

Configuration Steps		Related Procedures and Topics
Step 4	Configure the digest credentials in the End User Configuration window.	• Configuring Digest Credentials in the End User Configuration Window, page 8-3 • End User Digest Credential Configuration Settings, page 8-3
Step 5	Choose the Digest User in the Phone Configuration window. Choosing a digest user for a Cisco Unified SIP IP Phone models 7970, 7971, 7961G/41G, 7961GE/41GE, and 7911 ensures that the digest credentials get included in the phone configuration file.	Configuring the Digest User in the Phone Configuration Window, page 8-4
Step 6	On the Cisco Unified SIP IP Phone models 7940 or 7960, enter the digest credentials that you configured in the End User Configuration window.	The <i>Cisco Unified CallManager Security Guide</i> does not provide information on how to enter the digest authentication credentials on the phone. For information on how to perform this task, refer to the Cisco Unified IP Phone administration guide that supports your phone model and this version of Cisco Unified CallManager.

Configuring Digest Authentication Service Parameters

The SIP Realm Station service parameter, which supports the Cisco CallManager service, specifies the string that is used in the realm field when Cisco Unified CallManager challenges a SIP phone in response to a 401 Unauthorized message. For additional information on the parameter, click the question mark or the parameter name link that displays in the Service Parameter Configuration window.

To update digest authentication service parameters, for example, the SIP Realm Station parameter, perform the following procedure:

Procedure

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- Step 1** In Cisco Unified CallManager Administration, choose **System > Service Parameters**.
 - Step 2** From the Server drop-down list box, choose a node where you activated the Cisco Unified CallManager service.
 - Step 3** From the Service drop-down list box, choose the Cisco CallManager service. Verify that the word, Active, displays next to the service name.
 - Step 4** Update the **SIP Realm Station** parameter, as described in the help. To display help for the CAPF service parameters, click the question mark or the parameter name link.
 - Step 5** Click **Save**.
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Additional Information

See the [“Related Topics”](#) section on page 8-4.

Configuring Digest Credentials in the End User Configuration Window

The following procedure assumes that the end user exists in the Cisco Unified CallManager database. To configure digest credentials for the end user, perform the following procedure:

Procedure

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- Step 1** Find the end user, as described in the *Cisco Unified CallManager Administration Guide*.
- Step 2** After the specific End User Configuration window displays, enter the appropriate settings, as described in [Table 8-2](#).
- Step 3** Click **Save**.
- Step 4** Repeat the procedure to configure digest credentials for additional end users.
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Additional Steps

After you configure digest credentials in the End User Configuration window, choose the digest user for the phone by accessing the Phone Configuration window in Cisco Unified CallManager Administration.

After you choose the digest user, enter the digest authentication credentials that you get from the End User Configuration window on the Cisco Unified SIP IP Phone 7960 or 7940.

Additional Information

See the [“Related Topics” section on page 8-4](#).

End User Digest Credential Configuration Settings

[Table 8-2](#) describes the settings for the digest credential settings in the End User Configuration window in Cisco Unified CallManager Administration. For related procedures, see the [“Configuring the Digest User in the Phone Configuration Window” section on page 8-4](#).

Table 8-2 **Digest Credentials**

Setting	Description
Digest Credentials	Enter a string of alphanumeric characters.
Confirm Digest Credentials	To confirm that you entered the digest credentials correctly, enter the credentials in this field.

Configuring the Digest User in the Phone Configuration Window

To associate a digest user with a phone, perform the following procedure:

Procedure

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- Step 1** Find the phone, as described in the *Cisco Unified CallManager Administration Guide*.
 - Step 2** After the specific Phone Configuration window displays, locate the **Digest User** setting and choose the end user that you want to associate with the phone.
 - Step 3** Click **Save**.
 - Step 4** Click **Reset**.

After you associate the end user with the phone, save the configuration and reset the phone, Cisco Unified CallManager challenges all SIP requests from the phone; Cisco Unified CallManager uses the digest credentials for the end user, as configured in the End User Configuration window, to validate the credentials that the phone offers.

If the phone supports extension mobility, then Cisco Unified CallManager uses the digest credentials for the extension mobility end user, as configured in the End User Configuration window, when the extension mobility user logs in.

Additional Information

See the [“Related Topics”](#) section on page 8-4.

Where to Find More Information

Related Topics

- [Digest Authentication, page 1-16](#)
- [Configuring a Phone Security Profile, page 5-1](#)
- [SIP Phone Digest Authentication Configuration Checklist, page 8-1](#)
- [Configuring Digest Authentication Service Parameters, page 8-2](#)
- [Configuring Digest Credentials in the End User Configuration Window, page 8-3](#)
- [End User Digest Credential Configuration Settings, page 8-3](#)
- [Configuring the Digest User in the Phone Configuration Window, page 8-4](#)

Related Cisco Documentation

Cisco Unified IP Phone administration guide that supports your phone model and this version of Cisco Unified CallManager