



NetVanta Unified Communications Technical Note

Installing and Configuring the Cisco 7912 IP Phone

Introduction

The Cisco 7912 is a basic IP phone that is designed to be easy to use with conveniently placed features. The phone also features a pixel-based display and support for two simultaneous calls. The 7912 cannot be autodetected or configured automatically. The purpose of this technical note is to provide instructions about manually configuring the 7912 to work with the NetVanta Enterprise Communications Server.

Known Integration Issues

- Call pickup is unable to pick up parked calls from other phones.

Upgrading the Firmware

Refer to *NetVanta UC Server Interoperable SIP Device Features and Comparisons* technical note, available online at <http://kb.adtran.com>, to determine the most recently supported version of firmware for the Cisco 7912.

To determine what version of firmware the Cisco phone is using:

1. Power on the phone.
2. Find the IP address of the phone by doing the following:
 - Press the **Menu** button.
 - Choose **Settings > Network Configuration**.
 - Scroll to **IP Address**.
3. Enter the IP address found in Step 2 in your Web browser.
4. The firmware version will appear under **Software Version**.

If the firmware version on the phone is earlier than the version noted in *UC Server Interoperable SIP Device Features and Comparisons* technical note, available online at <http://kb.adtran.com>, then you must upgrade the firmware. The firmware can be upgraded automatically as described in the next section.

Automatic TFTP Firmware Upgrade

1. Save the appropriate firmware in the **Trivial File Transfer Protocol (TFTP) folder**. This is located in: *X:\Program Files\ADTRAN\NetVanta UC Server\Data\TFTP*, where *X* is the drive where the UC server program files are installed.
2. If Dynamic Host Configuration Protocol (DHCP) option 66 is set, the phone will automatically connect to the specified address and start the firmware update. If you are not able to configure this option or do not have a DHCP server with configurable options, please read the section below titled *Manual TFTP Firmware Updates*.
3. Power on the phone. After a brief period, the phone will start the update process.

The phone might restart automatically a few times. When the phone reaches the idle screen, the update is complete.

Manual TFTP Firmware Updates

1. Save the appropriate firmware in the **TFTP** folder. This is located in: *X:\Program Files\ADTRAN\NetVanta UC Server\Data\TFTP*, where *X* is the drive where the UC server program files are installed.
2. Navigate to the phone configuration Web page.
3. In the left pane under **Change Configuration**, select **Network Parameters**.
4. Enter **1234** in the **UIPassword** box and select **Apply**.
5. To set the TFTP Server in the **TFTPServer1** field, enter the IP address of the UC server and select **Apply**.
6. Restart the phone by completing the following steps:
 - Press the **Menu** button.
 - Choose **Settings > Network Configuration**.
 - Press the following keys in order: ****#****
 - Answer **Yes** to the prompt.

The phone might restart automatically a few times. When the phone reaches the idle screen, the update is complete.

Telephone Configuration

Gathering Information

To configure a Cisco phone, you need the following information.

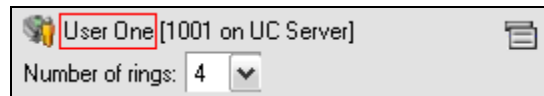
SIP User ID This is equivalent to the identity address that you want to associate with the Cisco phone.

Authentication ID This is the SIP authentication identifier associated with the above identity. This is required by any SIP endpoint to register with the SIP PBX.

Authentication Password This is the SIP authentication password associated with the above identity. This is typically the same value as your voicemail access PIN.

Determining the Authentication ID and Password as the User (that owns the identity)

1. Launch the UC client.
2. Log in as the user you want to associate to the phone. In the left bottom pane, take note of the identity name.



3. Select the icon on the right and select **SIP Authentication**.

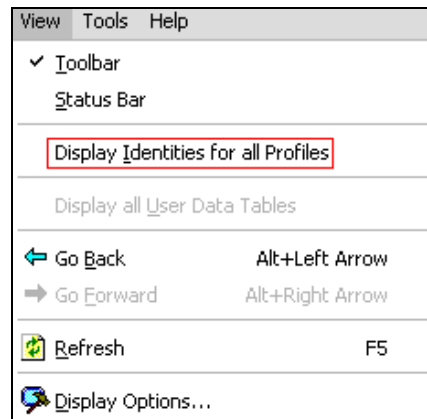


- Record the User/login name and password from the following dialog box because they will be required later to configure the phone.



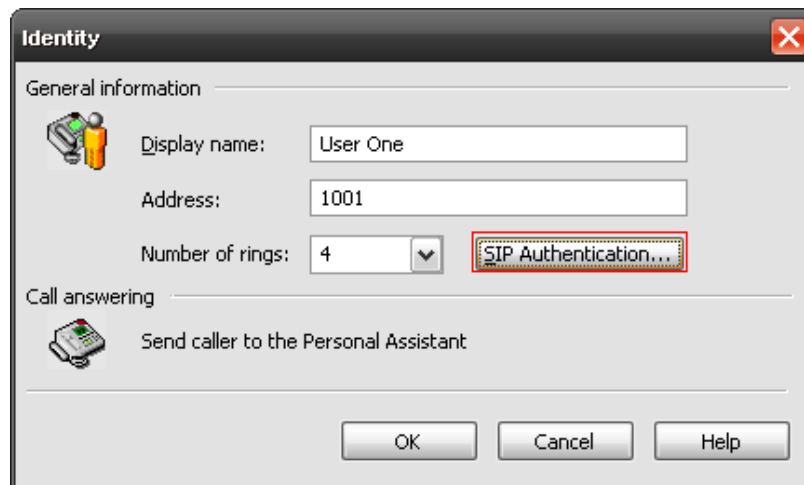
Determining the Authentication ID and Password as the Administrator

- Launch the UC client.
- Log in as the admin user.
- Select the **Identities** tab in the left pane.
- Go to **View > Display Identities for all Profiles**.



- In the list, double-click the identity that you want to use.

6. Select **SIP Authentication**.



7. Record the User/login name and password from the following dialog box because they will be required later to configure the phone.



Applying the Configuration

The Cisco 7912 phones are configured using the Web interface of the phone. Use the Web interface to configure the phone to operate with the UC server.

To configure the phone:

1. Find the IP address of the phone:
 - Press the **Menu** button.
 - Choose **Settings > Network Configuration**.
 - Scroll to **IP Address**.

2. Enter the IP address in your Web browser.
3. In the left pane under **Change Configuration**, select **SIP Parameters**.
4. Enter **1234** as the **UIPassword** and select **apply**.
5. Enter the following:

Account name	<Identity address>
Proxy	<IP address of the UC server>
UID	<SIP User ID>
PWD	<Authentication Password>
Name	<Identity Name>
SIPRegOn	1

6. Select **apply**.

The figure below shows an example of how to complete the required fields.

SIP Parameters

Cisco IP Phone 7912

UID	<input type="text" value="1001"/>
PWD	<input type="password" value="••••"/>
Proxy	<input type="text" value="192.168.8.251"/>
AltProxyTimeOut	<input type="text" value="0"/>
UseLoginID	<input type="text" value="0"/>
LoginID	<input type="text" value="0"/>
SIPRegInterval	<input type="text" value="3600"/>
MaxRedirect	<input type="text" value="5"/>
SIPRegOn	<input type="text" value="1"/>
NATIP	<input type="text" value="0.0.0.0"/>
SIPPort	<input type="text" value="5060"/>
MediaPort	<input type="text" value="16384"/>
OutBoundProxy	<input type="text" value="0"/>
MsgRetryLimits	<input type="text" value="0x00000000"/>
NatServer	<input type="text" value="0"/>
NatTimer	<input type="text" value="0x00000000"/>
DialPlan	<input type="text" value="911 1>#t8.r9t2- 0>#t811.r"/>
IPDialPlan	<input type="text" value="1"/>