Configuring the ADTRAN SoftPhone for use with the NetVanta 7100

Overview

This document outlines how to configure the NetVanta 7100 and ADTRAN SoftPhone for local use. Remember that in order for SoftPhone users to call other users on the system and vice versa inter-VLAN routing is required. This is in the default configuration of NetVanta 7100s beginning with AOS 15.06.00.SA.

Configuration Steps
1. Create a SIP User Account in the NetVanta 7100.
2. Add a SIP account to the SoftPhone that matches a user on the NetVanta 7100.
3. Confirm inter-VLAN routing is configured on the NetVanta 7100.

Creating a SIP User in the NetVanta 7100

1. Click on **User Accounts** under **Voice**.
2. Enter the **Extension**, **First Name**, and **Last Name**.
3. Choose **SIP** for the **Phone Type** and click Apply.

4. On the **Edit User** page (shown below), be sure the following values are configured:
   a. DID Numbers (if needed)
   b. Class of Service – types of calls this phone can make
   c. Call Coverage Tab
      i. Call Coverage List or
      ii. Custom Coverage List

d. VM Settings
        i. Voicemail PIN
        ii. VM Class of Service
5. Click **Apply** to save the configuration for this **User Account**.

Creating a SIP Account in the SoftPhone
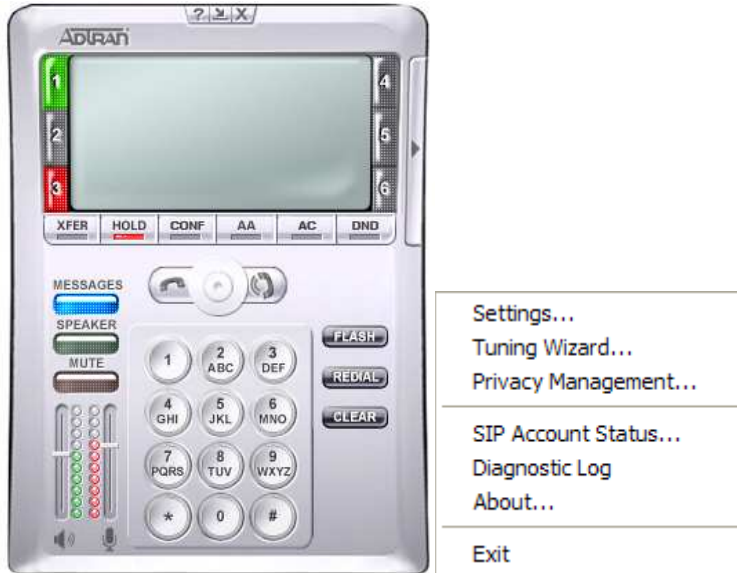
1. Right-click on the SoftPhone graphic and select **Settings**.
2. Select the Account you wish to configure or Click **Add a New SIP Account**
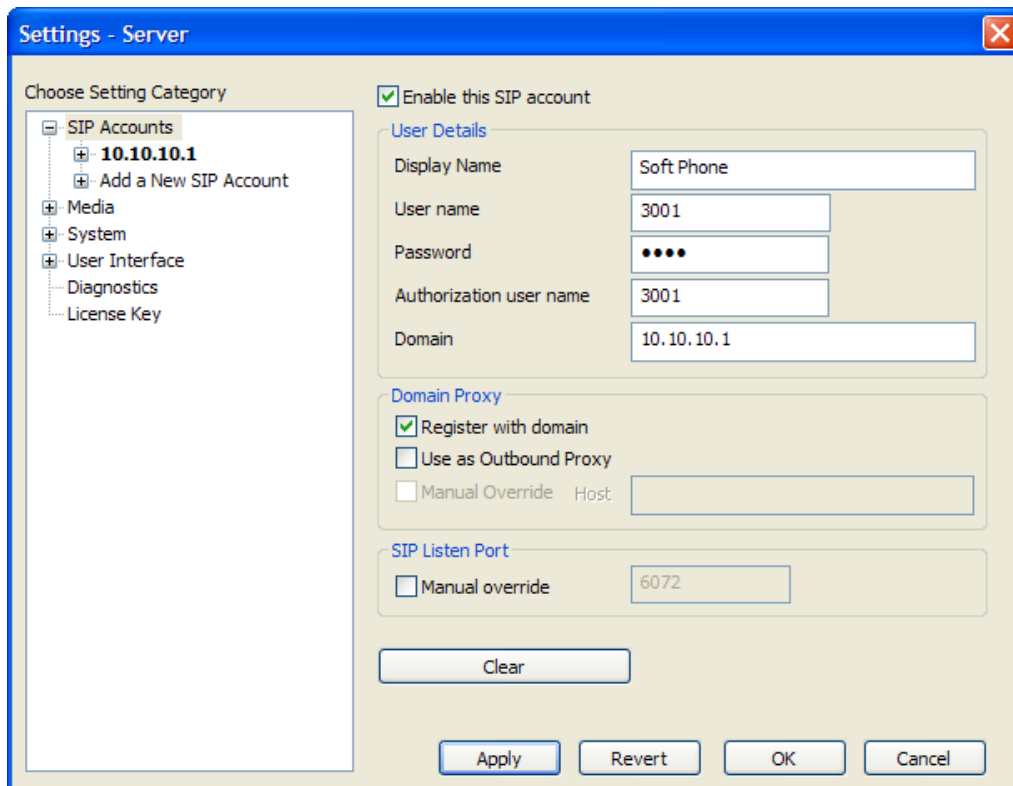
3. Check the box labeled **Enable this SIP Account.**

4. Enter the following information from the NetVanta 7100
    a. **Display Name** – **First and Last Name** on User Account in the NetVanta 7100.
    b. **User name** – **User Account** (extension) in the NetVanta 7100
    c. **Password** – **SIP Auth Password** for the NetVanta 7100 User Account (default is 1234).
    d. **Authorization user name** – same as **User Account** for the NetVanta 7100.
    e. **Domain** – IP address or domain name of the NetVanta 7100
5. Click on the + beside **Advanced** and remove the check from the following settings:
    a. Ignore ACK delivery failure
    b. Ignore SDP version
    c. Send SIP keep-alives
    d. Use rport
    e. SIP rport detection

6. Expand the Media and Audio menus.
7. Click on Advanced and then Codecs.
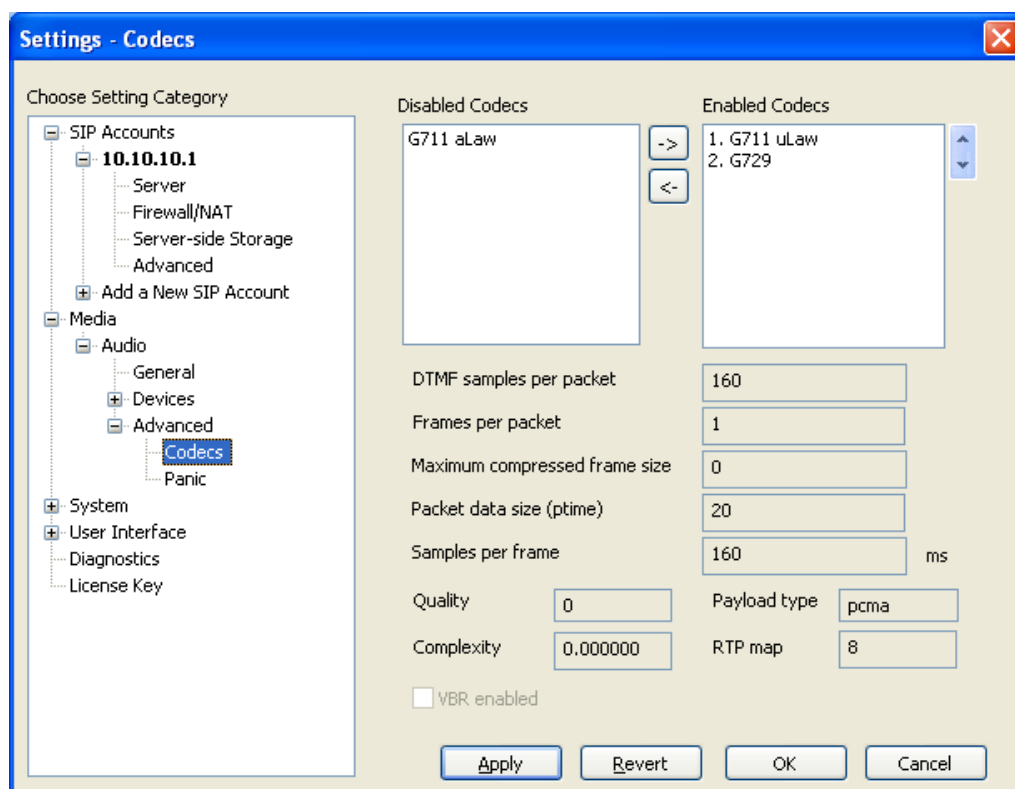
In order to access Voicemail and Auto Attendants in the NetVanta 7100, the SoftPhone will need to allow the use of the G.729 codec. The recommended configuration is to enable both the G.711 uLaw and G.729 coecs.

8. Click on the Right or Left arrows to add or remove codecs until only G.711 uLaw and G.729 are in the **Enabled Codecs** list.
9. Click **Apply** and **OK**.

Remote SoftPhones

For use of the SoftPhone remote to the NetVanta 7100, it is recommended that the PC running the SoftPhone use a VPN Client to connect back to the NetVanta 7100. This is recommended due to the fact that some firewall devices do not allow for all aspects of SIP/RTP traffic through the firewall. In the case that only SIP is allowed, then one-way audio can occur.

If a VPN Client is not available, the following configuration steps must be used.

- Under SIP Accounts
  - Under Server: Change the Domain to be the private IP of the 7100 (10.1.1.101)
  - Under Firewall/NAT:
    1) Set "Sent Internal IP" to "Never"
    2) Uncheck "Manual override" via STUN server
    3) Set "Firewall Outbound Proxy" to "Use Always" and configure "Host" as the public IP of the firewall on the SoftPhone side. This will change the IP address used in the Register, Contact, To, etc fields.
    4) Uncheck Enable ICE
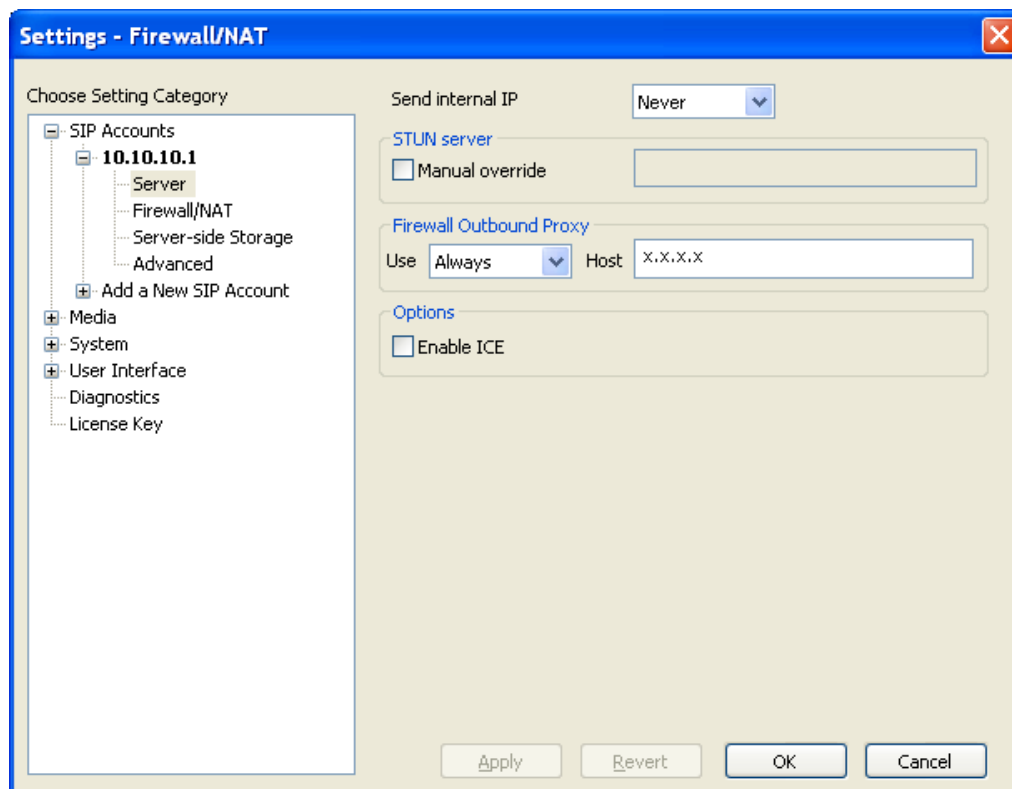
For more details on configuring remote phones on the NetVanta 7100, see the *NetVanta 7100 Remote Phone Configuration Guide* - http://kb.adtran.com/article.asp?article=2072&p=2