ADTRAN®

NetVanta Unified Communications Technical Note

# Configuring the CyberData VoIP 4-Port Zone Controller with Audio Out

Introduction

The CyberData Voice over Internet Protocol (VoIP) zone controller enables access to existing paging speakers through a VoIP phone system. The interface is designed to use a standard paging amplifier with audio inputs and supports paging up to 15 zone groups from a VoIP phone. This technical note describes configuring the CyberData VoIP zone controller with the UC server.

Network Topology

Below is an example of how the CyberData VoIP zone controller could be deployed in your network.
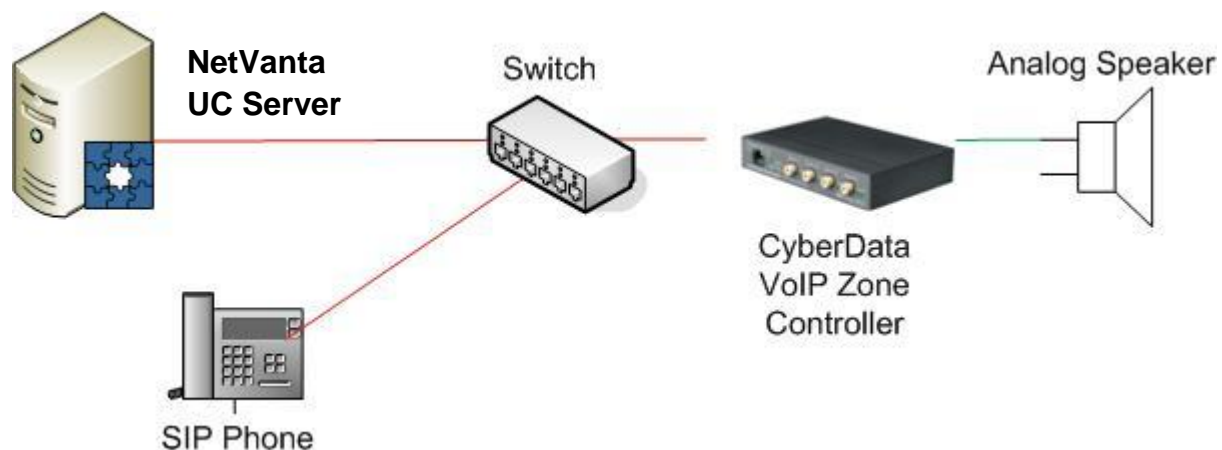
Known Integration Issues

Supervised transfers cannot be completed. Transferring a call to the paging speaker indicates a successful transfer.

Preparation

This section provides instructions on applying firmware updates, if necessary, and setting up the device for manual configuration.

PC Network Settings

The factory default on CyberData products is a static IP address. To access the device, you must change your PC to the same subnet.

NOTE: *Make a note of your original network settings before making any changes. You must restore these settings after changing the network configuration on the zone controller.*

To change the IP address of your computer, do the following:

For Windows® Server 2003/Windows XP:

1. Select **Start > Control Panel**.

2. If you have the Classic View, select **Network Connections**. If you have the Category View, select **Network and Internet Connections**, and then select **Network Connections**.

3. Double-click your active **LAN** or **Internet connection**.

4. Select **Properties**.

5. In the **General** tab, highlight the **Internet Protocol (TCP/IP)** item, and select **Properties**.

6. In the **General** tab, select **Use the following IP address**, and enter:

IP Address	192.168.3.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.3.10

7. Select **OK**.

For Windows Server 2008/Windows Vista:

1. Select **Start > Control Panel**.

2. If you have the Classic View, select **Network and Sharing Center** and then select **Manage Network Connections**. If you have the Category View, select **Network and Internet**, **View network status and tasks**, and then **Manage Network Connections**.

3. Double-click the active **LAN** or **Internet connection**.

4. Select **Properties**.

5. In the **Networking** tab, highlight the **Internet Protocol (TCP/IP)** item, and select **Properties**.

6. In the **General** tab, select **Use the following IP address**, and enter:

IP Address	192.168.3.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.3.10

7. Select **OK**.

CyberData VoIP Zone Controller Network Settings

The zone controller is configured with a static IP address by factory default. This must be changed so that the device is connected to your network.

To enter network settings for the CyberData VoIP zone controller:

1. Open your browser and enter the IP address of the speaker. The factory default is 192.168.3.10.

2. When prompted, use the following default Web Access user name and password:

   - Web Access User Name: **admin**

   - Web Access Password: **admin**

3. Select **Network Setup**.

4. Under **IP Addressing**, select **DHCP**.

5. Select **Save Settings**.

Firmware Upgrades

Refer to *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 zone controller. If the firmware version on your device is earlier than the version noted, upgrade the firmware. The factory firmware version can be found on the check-off list shipped with your zone controller.

To perform the upgrade:

1. Retrieve the latest firmware from the CyberData website at http://www.cyberdata.net/products/voip/legacyanalog/pagingzone4portaudio/*downloads*.html.

2. Unzip the file to the NetVanta Trivial File Transfer Protocol (TFTP) folder, located in *X:\Program Files\ADTRAN\NetVanta UC Server\Data\TFTP*, where *X* is the drive where the UC server program files are installed.

3. Open your browser and enter the IP address of the zone controller.

4. When prompted, use the following default Web Access user name and password:

   - Web Access User Name: **admin**

   - Web Access Password: **admin**

5. Select the **Upgrade** button.

6. Enter the IP address of your UC server under the TFTP **Server IP** field.

7. Under **New Filename**, enter the file name of the read only memory (ROM) file that you unzipped from the firmware zip file. For example, **400-romdisk-spk-sip.img**.

8. Select **Upload File**.

9. Once the ROM image file has finished uploading, repeat Step 6 to upload the image file by entering the file name of the image. For example, **400-image-spk-sip.bin**.

10. Select **Upload File**.

11. Select the **reboot** button.

SIP Configuration

Gathering Information

To configure the device, you need the following information.

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

Authenticate ID   This is the SIP authentication identifier associated with the above identity. This is required by any SIP endpoint to register with the SIP private branch exchange (PBX).

Authenticate Password   This is the SIP authentication password associated with the above identity.

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

1. Start the UC client.

2. Log in as the user you want to associate to the device. In the bottom left pane, take note of the identity name.
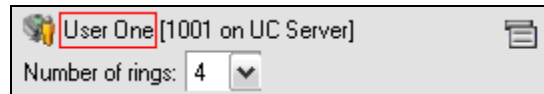
3. Select the icon on the right and select **SIP Authentication**.
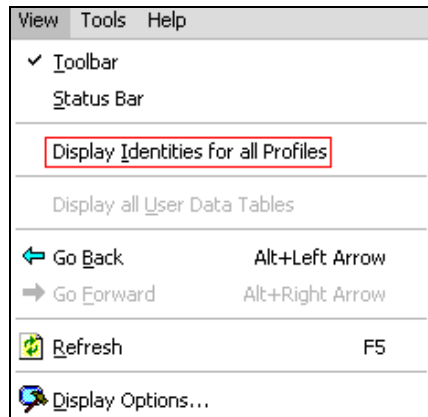

4. Record the **User/login name** and **Password** from the following dialog box. You will need them later when you configure the device.
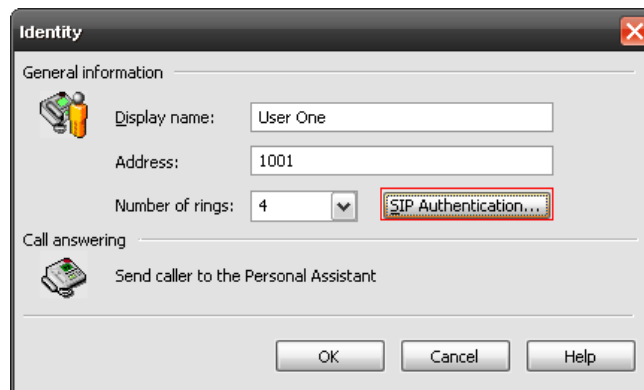
Determining the Authentication ID and Password as the Administrator

1. Start the UC client.

2. Log in as the admin user.

3. Select the **Identities** tab in the left pane. Select **View > Display Identities for all Profiles**.

4. Find the identity in the list you want to use and double-click the entry.

5. Select **SIP Authentication**.

6. Record the **User/login name** and **Password** from the following dialog box. You will need them later when you configure the device.
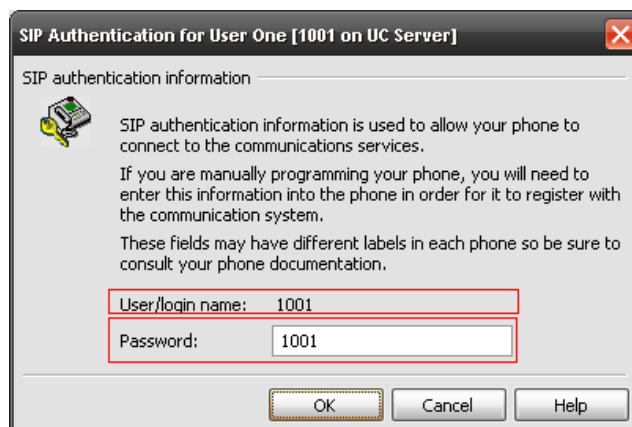
Device Configuration

1. Open your browser and enter the IP address of the zone controller.

2. When prompted, use the following default Web Access user name and password:

   - Web Access User Name: **admin**

   - Web Access Password: **admin**

3. Select the **SIP Setup** button.

4. Enter the following information:

   SIP Server: <IP address of the UC server>

   SIP User ID: <SIP User ID>

   SIP Authenticate ID: <SIP User ID>

   SIP Password: <Authentication Password>

   SIP Registration: Yes

5. Select **Save Settings**.

The figure below shows an example of completing the required fields.

Troubleshooting

1. **You receive a voicemail prompt when dialing the identity of the device.**

   Verify the following:

   - The identity was created in the UC server and the correct User ID and password are configured on the device.

     – Refer to *SIP Configuration on page 4*.

   - The SIP Server address on the device is set to the correct IP address of the UC server

     – Refer to *Device Configuration on page* 7.

   - SIP Registration is enabled on the device

     – Refer to *Device Configuration on page 7*.

2. **You are unable to access the Web interface to configure the paging device.**

   Verify the following:

   - Your PC is set to the same address range as the device for first-time configuration.

     – Refer to *PC Network Settings on page 2*.

3. **No audio when calling into paging device.**

   Verify the following:

   - The volume level is set correctly on the speaker.