

*Microsoft Lync 2010 with
CyberData VoIP Devices Using
AudioCodes Mediant 1000
Modular Gateway*

1.0 How to Set Up SAS on the 6.0 Firmware

Note This document is for reference only and the configurations are examples of an existing environment. Changes to the settings should be made to work with the environment of the gateway.

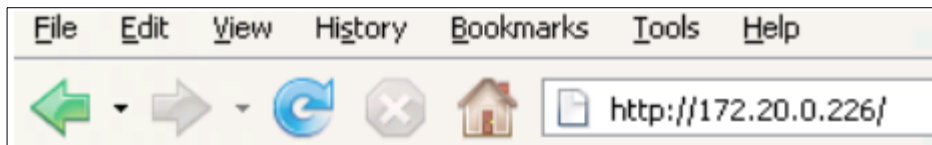
Note Stand Alone Survivability is a chargeable feature on digital gateways that requires 'SAS' to be activated.

Note For all menus to be shown, select **Full** on the top of the configuration menu.

Note In this configuration example, the IP addresses used for configurations are:
172.22.201.1 = SAS gateway IP address (gateway being configured to host SAS)

1. Access the board's web interface (<http://xx.xx.xx.xx>) (Figure 1).

Figure 1. Board's Web Interface



2. Enter the default **User Name** and **Password: Admin** (Figure 2).

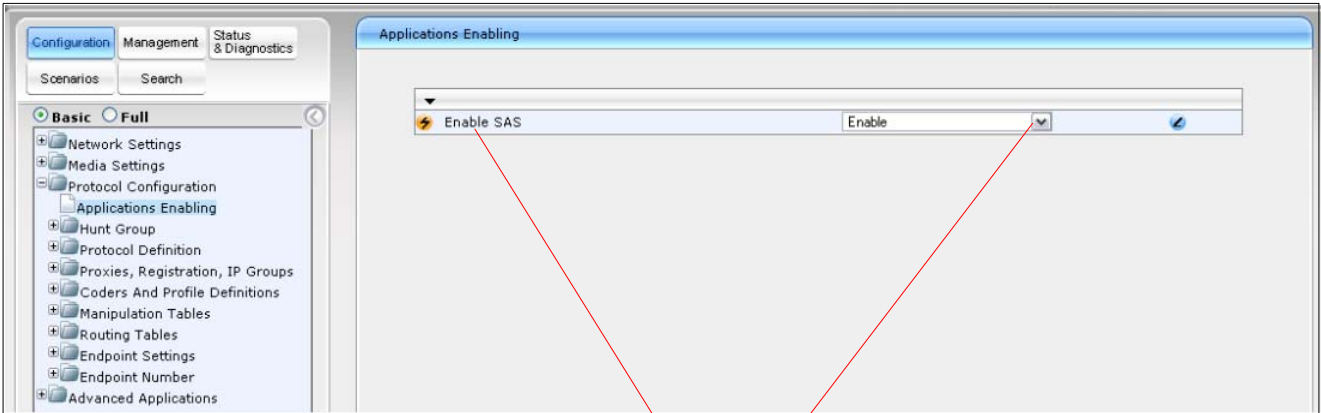
Figure 2. User Name and Password



Enter **Admin**

- 3. Configure the **Applications Enabling** page (Figure 3):
 - a. Enable **Enable SAS**.

Figure 3. Applications Enabling Page



Enable SAS

- 4. Click the **Burn** button (Figure 4).

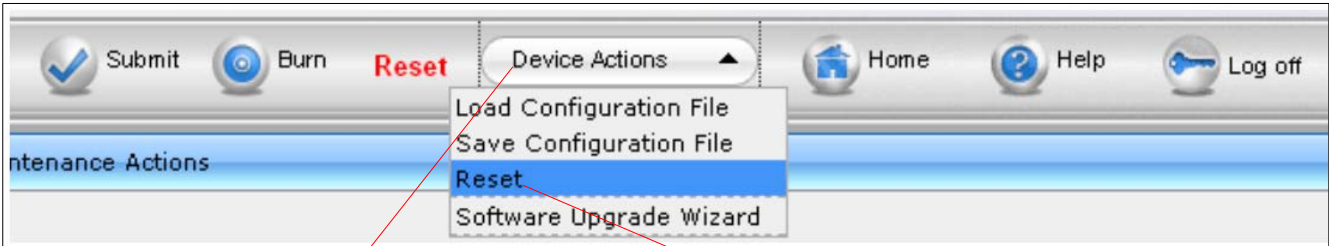
Figure 4. Burn Button



Burn button

- 5. Select **Device Actions** and then **Reset** (Figure 5).

Figure 5. Device Actions and Reset



Device Actions

Reset

6. Click **Reset** (Figure 6).

Figure 6. Click Reset

The screenshot shows a web-based configuration interface. On the left is a navigation tree with 'Basic' and 'Full' tabs, and a list of configuration categories including Network Settings, Media Settings, PSTN Settings, SS7 Configuration, Sigtran Configuration, Security Settings, Protocol Configuration, SIP Advanced Parameters, Manipulation Tables, Routing Tables, Profile Definitions, Trunk/IP Group, Digital Gateway, IP Media, Advanced Applications, and TDM Configuration. The main area is titled 'Maintenance Actions' and contains three expandable sections:

- Reset Configuration:** Includes a 'Reset' button, 'Burn To FLASH' (Yes), and 'Graceful Option' (No).
- LOCK / UNLOCK:** Includes a 'LOCK' button, 'Graceful Option' (No), and 'Current Admin State' (UNLOCKED).
- Save Configuration:** Includes a 'BURN' button.

Below these sections are two paragraphs of text:

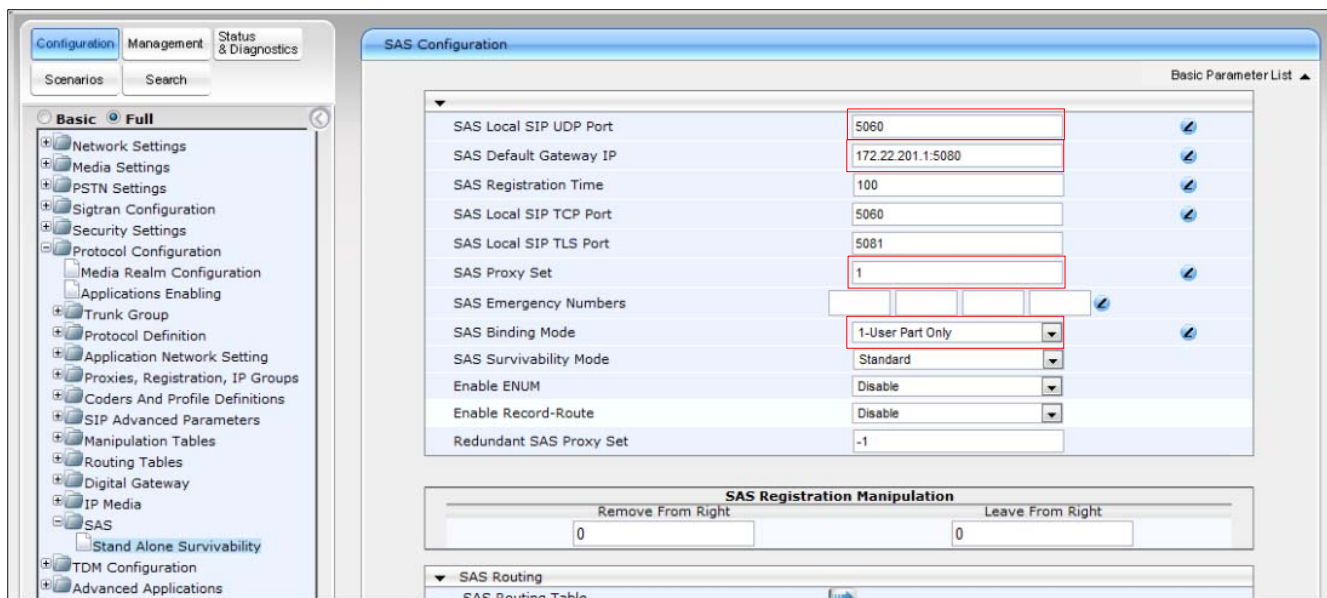
For Reset Board :
If you choose not to burn the device's configuration into flash memory, all changes made since the last time the configuration was burned will be lost after the device is reset.

For Save Configuration: Saving configuration to flash memory may cause some temporary degradation in voice quality, therefore, it is recommended to perform this during low-traffic periods

Reset

7. After the board is reset, configure the **Stand Alone Survivability** page (Figure 7):
 - a. The default value for **SAS Local SIP UDP Port** is 5080.
 - This is the port used for IP gateways/endpoints to REGISTER through the SAS gateway.
 - Set the value to 5060.
 - b. Enter **SAS Default Gateway IP**.
 - In this example, 172.22.201.1:5080.
 - c. Configure **SAS Proxy Set** to 1.
 - d. Set **SAS Binding Mode** to User Part Only.

Figure 7. Stand Alone Survivability Page



8. Configure the SIP General Parameters page (Figure 8):
 - a. Set SIP UDP Local Port to 5080.
 - b. Set SIP TCP Local Port to 5080.

Figure 8. SIP General Parameters Page

The screenshot shows the 'SIP General Parameters' configuration page. The left sidebar contains a tree view with 'SIP General Parameters' selected. The main area displays the following settings:

Parameter	Value
NAT IP Address	0.0.0.0
PRACK Mode	Supported
Channel Select Mode	Cyclic Ascending
Enable Early Media	Enable
Session-Expires Time	0
Minimum Session-Expires	90
Session Expires Method	Re-INVITE
Asserted Identity Mode	Disabled
Fax Signaling Method	No Fax
SIP Transport Type	UDP
SIP UDP Local Port	5080
SIP TCP Local Port	5080

9. Configure the Tel to IP Routing page (Figure 9):
 - a. Send all traffic (using the * sign) to Dest IP Address of 172.22.201.1 and port 5060 by completing the following:
 - Set Dest. Phone Prefix to *.
 - Set Source Phone Prefix to *.
 - Set Dest IP Address to 172.22.201.1.
 - Set Port to 5060.

Figure 9. Tel to IP Routing Page

The screenshot shows the 'Outbound IP Routing Table' configuration page. The table below is the configuration for Tel to IP Routing:

Routing Index	Src. Trunk Group ID	Dest. Phone Prefix	Source Phone Prefix	Dest. IP Address	Port	Transport Type	IP
1		*	*	172.22.201.1	5060	UDP	
2						Not Configured	
3						Not Configured	
4						Not Configured	
5						Not Configured	
6						Not Configured	

10. Click the **Burn** button (Figure 10).

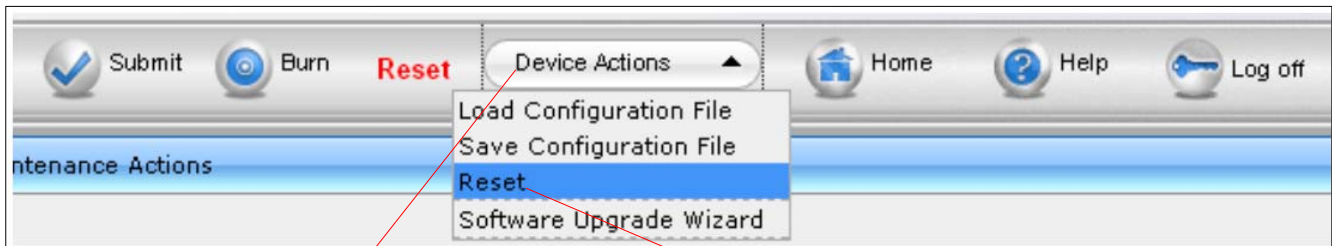
Figure 10. Burn Button



Burn button

11. Select **Device Actions** and then **Reset** (Figure 11).

Figure 11. Device Actions and Reset

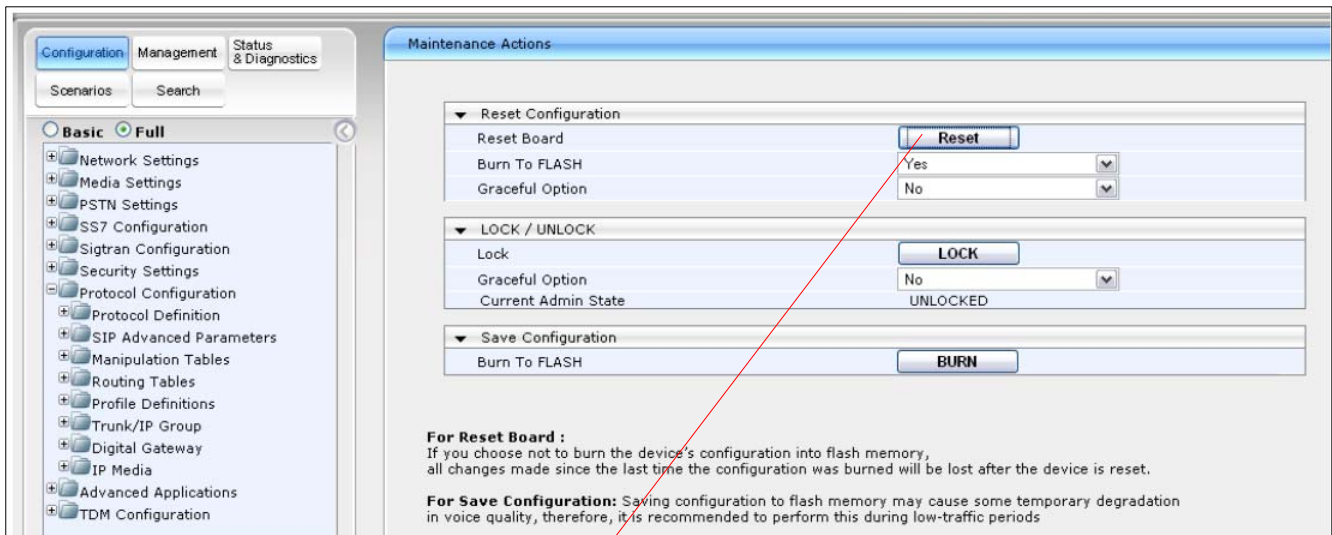


Device Actions

Reset

12. Click **Reset** (Figure 12).

Figure 12. Click Reset



Reset

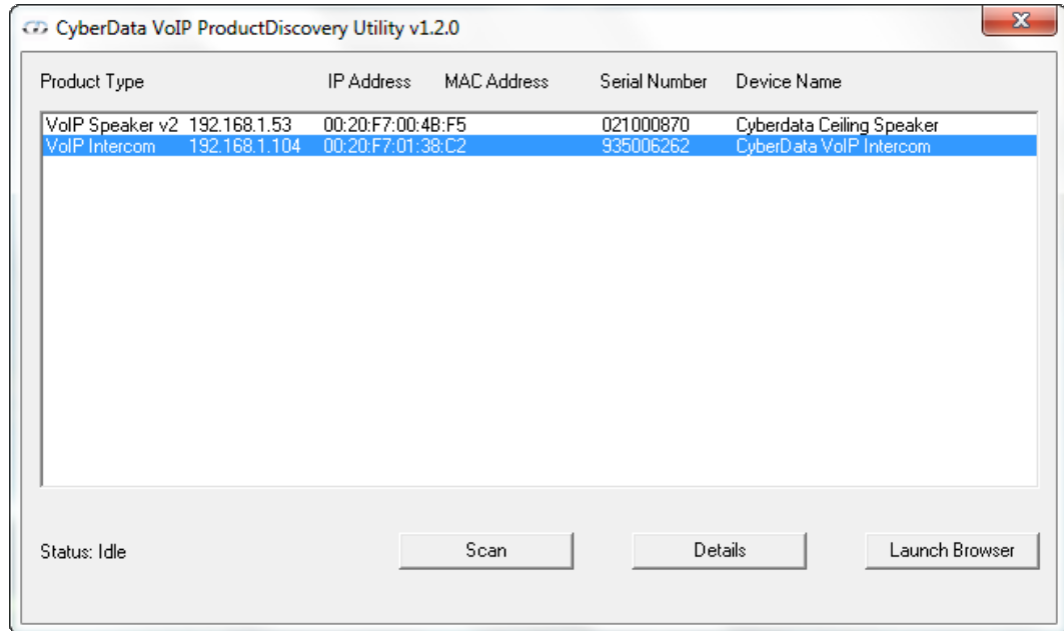
2.0 How to Configure the CyberData SIP Parameters

1. Login to the CyberData web interface.

Note Download the CyberData Discovery Utility (Figure 13) if you are having trouble locating the device on your network:

http://www.cyberdata.net/support/voip/discovery_utility.html

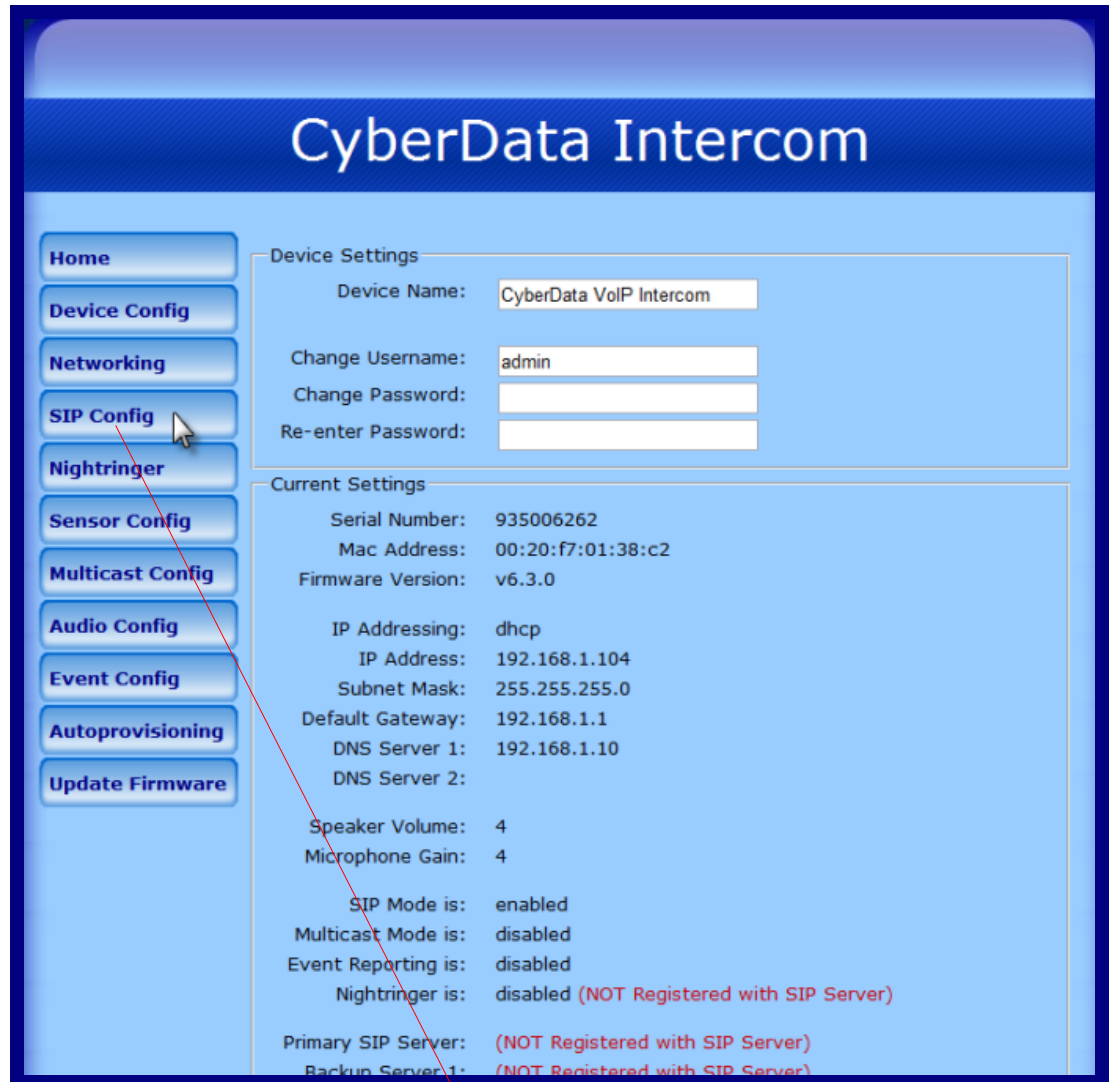
Figure 13. CyberData Discovery Utility



- a. The default credentials are **admin/admin**.

2. On the **Home Page**, click on the **SIP Config** button to go to the **SIP Configuration** page (Figure 14).

Figure 14. SIP Config Button



SIP Config button

3. Enter the SIP parameters (Figure 15):
 - a. Check the box to **Enable SIP operation**.
 - b. Enter the **SAS gateway IP address** into the **SIP Server** field.
 - c. Enter the extension number from the VCX phone system as the **SIP user ID** and **Authenticate ID**.
 - d. You may enter any value into the **Authenticate Password** field. The SAS gateway does not need to use authentication.
 - e. Check the box to **Register with a SIP server**.
 - f. Enter **100** for the **Re-registration interval**.
 - g. Leave **Unregister on Reboot** unchecked.
 - h. Enter the extension number you wish the device to dial as the **Dial out Extension**.
 - i. Enter the caller ID information you wish the intercom to use.
 - j. Click the **Save** button, and then click the **Reboot** button.

Note The Default **Remote SIP port** and **Local SIP port** values in Figure 15 correlate to the SIP UDP port changes made to the SAS gateway.

Figure 15. SIP Parameters

The screenshot displays the 'SIP Configuration' page. On the left is a navigation menu with buttons for Home, Device Config, Networking, SIP Config, Nightringer, Sensor Config, Multicast Config, Audio Config, Event Config, Autoprovisioning, and Update Firmware. The main content area is titled 'SIP Configuration' and contains the following settings:

- Enable SIP operation:**
- SIP Settings:**
 - SIP Server: 172.22.201.1
 - Backup SIP Server 1: (empty)
 - Backup SIP Server 2: (empty)
 - Remote SIP Port: 5060
 - Local SIP Port: 5060
 - Outbound Proxy: (empty)
 - Outbound Proxy Port: 0
 - SIP User ID: 4356
 - Authenticate ID: 4356
 - Authenticate Password: ext4356
- Register with a SIP Server:**
- Re-registration Interval (in seconds):** 100
- Unregister on Reboot:**
- Call disconnection:**
 - Terminate call after delay (in seconds): 0
 - Note: A value of 0 will disable this function
- RTP Settings:**
 - RTP Port (even): 10500
- Dial Out Settings:**
 - Dial out Extension: 4357
 - Extension ID: CyberData Intercom