



Wildix Configuration Guide: SIP Speakers

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Revision Information

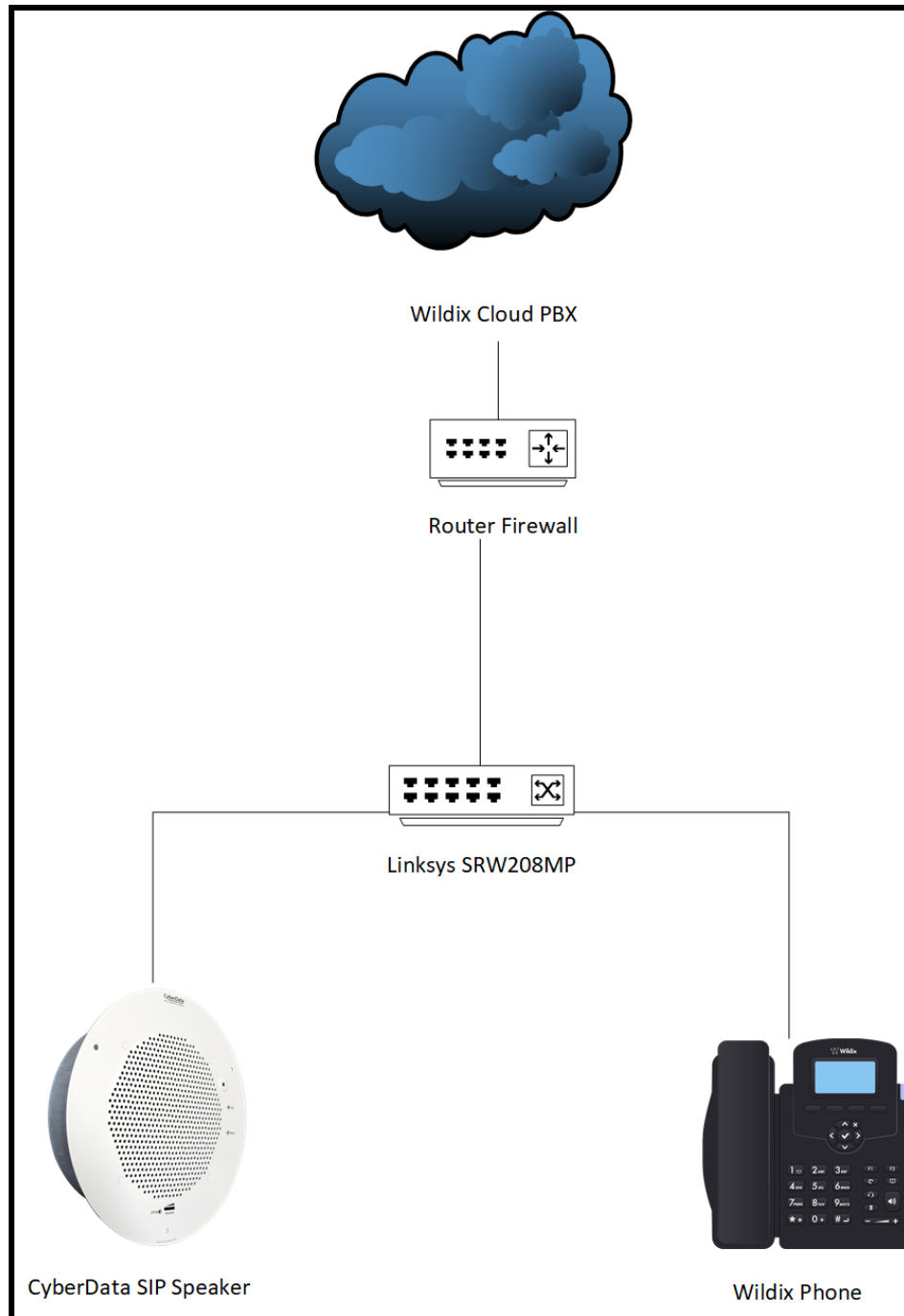
- 10/7/2021 – Initial Release
- 10/14/2021 – Updated extension creation process.
- 11/10/2021 – Updated screenshots and extension requirements.

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1.0 Setup Diagram

Figure 1-1: Interoperability Test Infrastructure



2.0 Test Setup Equipment

This section describes the products used for interoperability testing with Wildix.

Table 2-1: Setup Equipment

EQUIPMENT	MODEL or PART NUMBER	FIRMWARE VERSION
CYBERDATA SIP SPEAKER	011394	12.1.0
CYBERDATA SIP TALKBACK SPEAKER	011398	12.1.0
LINKSYS SWITCH	SRW208MP	---

3.0 Before You Start

This configuration guide documents the integration process of a CyberData SIP Speaker.

Network Advisories

Wildix uses a Fully Qualified Domain Name (FQDN) for the SIP server address. The CyberData SIP Speaker needs to perform a DNS A query to resolve the IP address of Wildix's SIP Server FQDN. It is necessary to ensure the configured DNS server(s) have an A record for the SIP Server address.

In addition, be sure to verify the following ports are available for the button to use:

- UDP 5060 (SIP)
- UDP 10500 (RTP)

The speaker will need to traverse the public internet in order to operate with Wildix in the cloud.

The speaker's paging extension uses SIP port 5060 to receive SIP messages. The paging extension will send SIP messages to port 5060, the port used by Wildix's SIP Server.

SIP ports 5060 and RTP port 10500 are the default values on all noted firmware levels.

Alternatively, SIP ports for the paging extension are configurable on the **SIP** page of the web interface.

The CyberData Discovery Utility can be used to locate CyberData devices on your network. You may download it from the following web address:

<https://www.cyberdata.net/pages/discovery>

***Note:** DHCP addressing mode is enabled on default on all noted firmware levels.*

Product Documentation and Utilities

Before you start, download the Operation and Quick Start guides from the button's product webpage:

CyberData SIP Speaker ([011394](#))

https://files.cyberdata.net/assets/011393,011394/011394_931181L_SIP_Speaker_Ops_Guide.pdf

CyberData SIP Talkback Speaker ([011398](#))

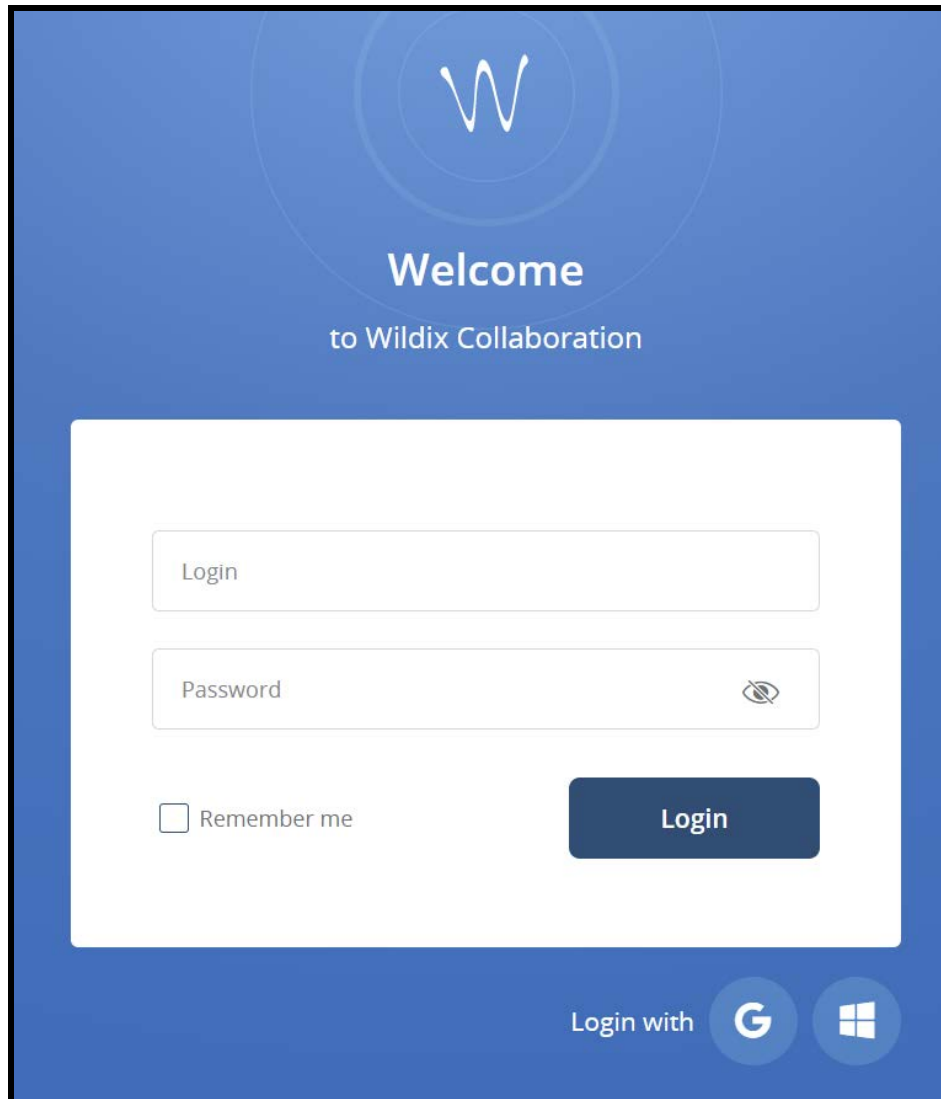
https://files.cyberdata.net/assets/011397,011398/011398_931191M_SIP_Talk-Back_Speaker_Operations_Guide.pdf

4.0 Configuration Procedure: Extension Creation

Note: Wildix requires a Wildix UC-Basic (simple intercom usage or Vision & Super Vision user) or Wildix UC-Essential (users who want to manage the intercom from Collaboration) to use CyberData products on the platform.

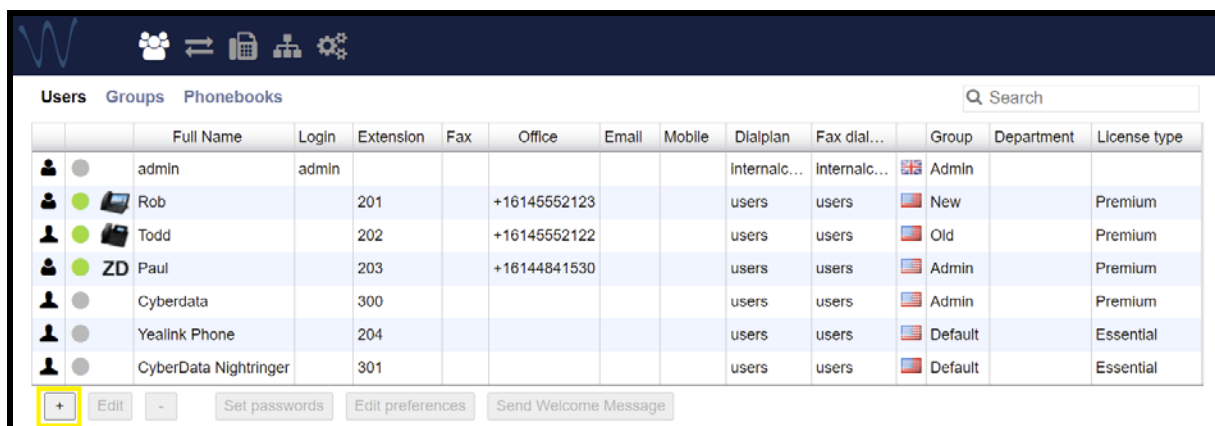
1. Log into Wildix.

Figure 4-1: Log into Wildix

The image shows the Wildix Collaboration login interface. It features a blue background with a large white 'W' logo at the top center. Below the logo, the text 'Welcome to Wildix Collaboration' is displayed. In the center, there is a white rectangular box containing the login form. The form has two input fields: 'Login' and 'Password'. The 'Password' field includes a toggle icon for visibility. Below the 'Password' field is a checkbox labeled 'Remember me'. To the right of the checkbox is a dark blue 'Login' button. At the bottom right of the white box, there is a 'Login with' label followed by two circular icons: a Google 'G' logo and a Windows logo.

- On the **Users Menu** page press the + button to add a new extension. .

Figure 4-2: Users Menu

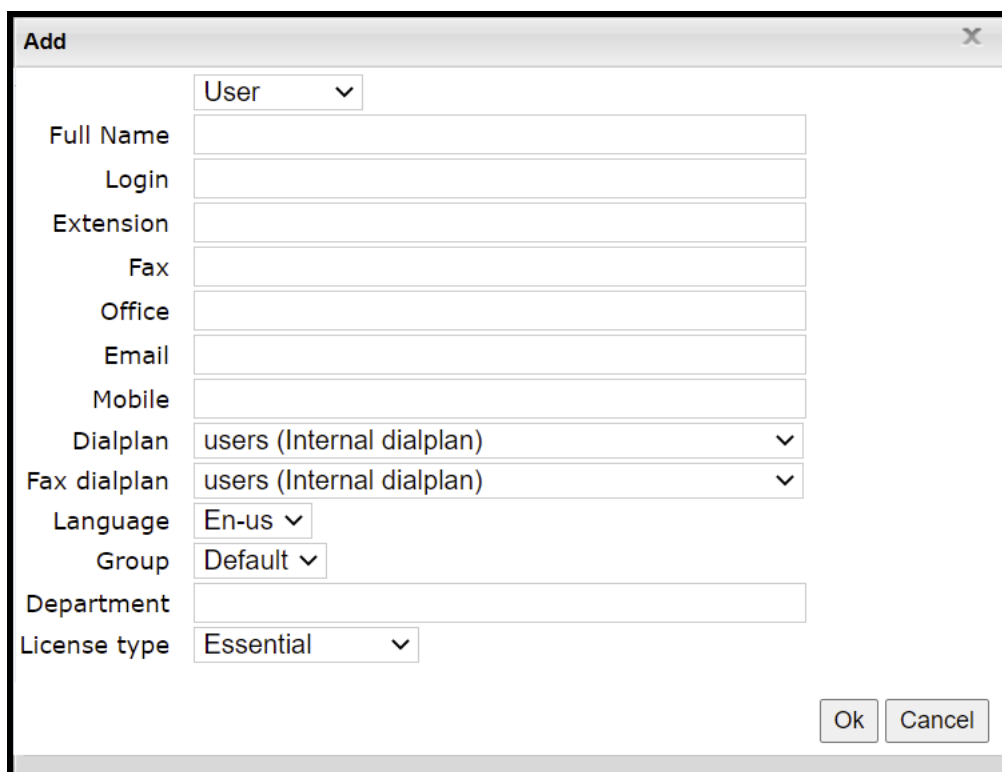


The screenshot shows the 'Users' tab selected in the top navigation bar. Below the navigation bar is a search bar and a table of users. The table has columns: Full Name, Login, Extension, Fax, Office, Email, Mobile, Dialplan, Fax dial..., Group, Department, and License type. The table contains several rows of user data. At the bottom left of the table, there is a '+ Add' button highlighted with a yellow box, followed by an 'Edit' button and a minus sign. Below the table are buttons for 'Set passwords', 'Edit preferences', and 'Send Welcome Message'.

	Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial...	Group	Department	License type
	admin	admin						Internalc...	Internalc...	Admin		
	Rob		201		+16145552123			users	users	New		Premium
	Todd		202		+16145552122			users	users	Old		Premium
	ZD Paul		203		+16144841530			users	users	Admin		Premium
	Cyberdata		300					users	users	Admin		Premium
	Yealink Phone		204					users	users	Default		Essential
	CyberData Nightringer		301					users	users	Default		Essential

- A pop-up to create the extension will appear.

Figure 4-3: Extension creation



The screenshot shows a 'Add' pop-up window with a close button (X) in the top right corner. The form contains the following fields and controls:

- A dropdown menu labeled 'User' with a downward arrow.
- Text input fields for: Full Name, Login, Extension, Fax, Office, Email, and Mobile.
- Dropdown menus for: Dialplan (showing 'users (Internal dialplan)'), Fax dialplan (showing 'users (Internal dialplan)'), Language (showing 'En-us'), Group (showing 'Default'), and License type (showing 'Essential').
- A text input field for Department.
- 'Ok' and 'Cancel' buttons at the bottom right.

4. Make sure the drop-down menu has **User** selected.
5. Set the full name to the location of the speaker.
6. Set the **Extension Number** desired for the device.

Note: Other values can be set, but for the purposes of this guide all other fields are left blank.

Figure 4-4: Filled Extension Popup

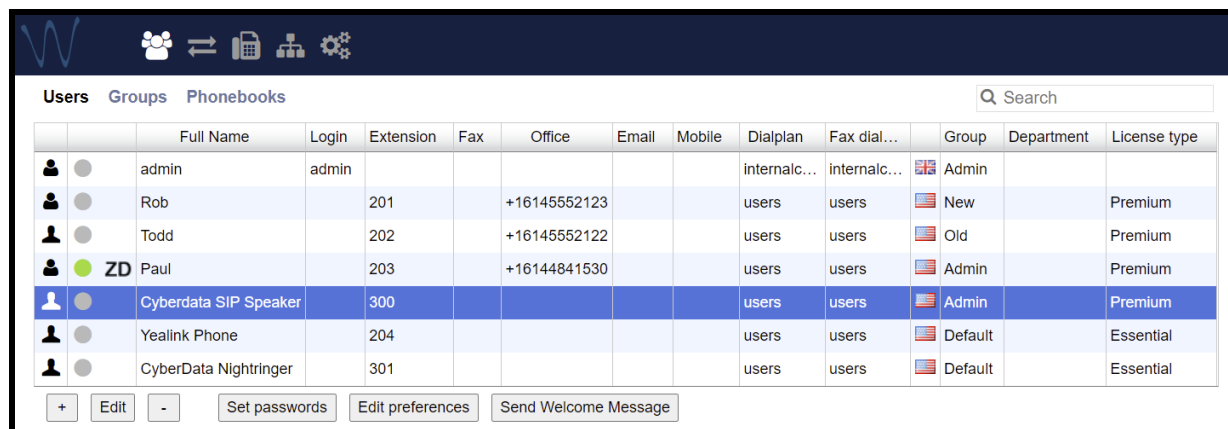
The screenshot shows a window titled "Edit" with a close button (X) in the top right corner. Inside the window, there are several fields and dropdown menus:

- User**: A dropdown menu with "User" selected.
- Full Name**: A text field containing "Cyberdata SIP Speaker".
- Login**: An empty text field.
- Extension**: A text field containing "300".
- Fax**: An empty text field.
- Office**: An empty text field.
- Email**: An empty text field.
- Mobile**: An empty text field.
- Dialplan**: A dropdown menu with "users (Internal dialplan)" selected.
- Fax dialplan**: A dropdown menu with "users (Internal dialplan)" selected.
- Language**: A dropdown menu with "En-us" selected.
- Group**: A dropdown menu with "Admin" selected.
- Department**: An empty text field.
- License type**: A dropdown menu with "Premium" selected.

At the bottom right of the window, there are two buttons: "Ok" and "Cancel".

7. Press **Ok** to save the extension.
8. After creating the extension, select it out of the list.

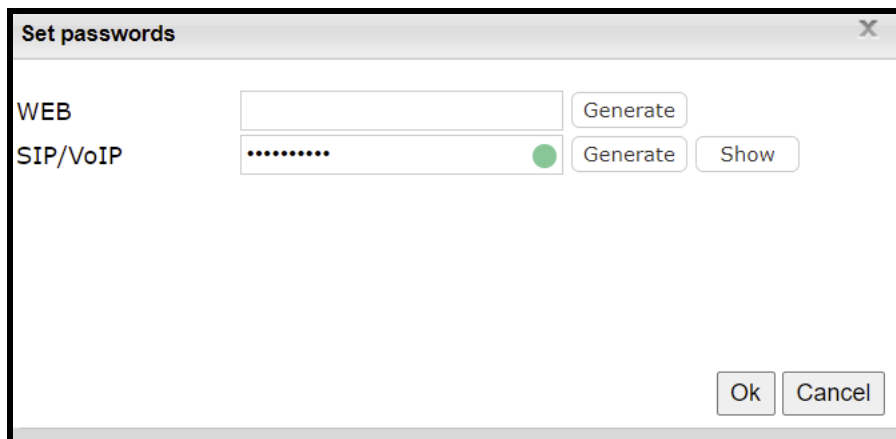
Figure 4-5: Extension Created



	Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial...	Group	Department	License type
admin	admin							internalc...	internalc...	Admin		
Rob			201		+16145552123			users	users	New		Premium
Todd			202		+16145552122			users	users	Old		Premium
ZD Paul			203		+16144841530			users	users	Admin		Premium
Cyberdata SIP Speaker			300					users	users	Admin		Premium
Yealink Phone			204					users	users	Default		Essential
CyberData Nighthtringer			301					users	users	Default		Essential

9. After selecting the extension, press **Set Passwords**.
10. Click on the **Generate** button for **SIP/VoIP** to create a password.

Figure 4-6: Set Passwords Popup



Set passwords

WEB

SIP/VoIP

11. Click the show button and copy the auto-generated password which will be required in the next section.

5.0 Configuration Procedure: Setting up the Paging Extension

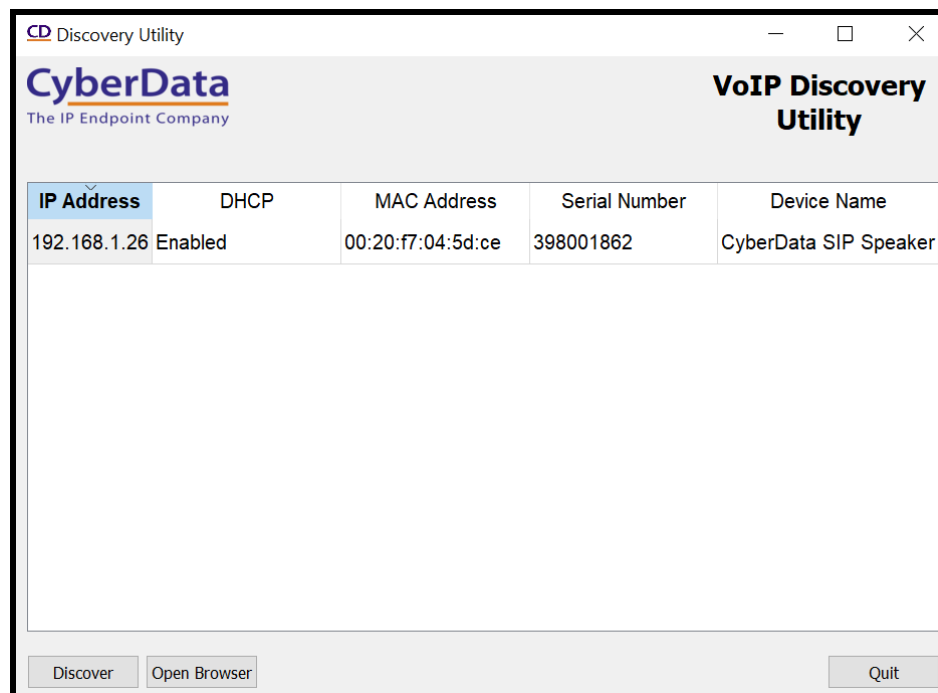
If you are configuring through the web interface, use the following steps to login to the web interface of your CyberData device.

Table 5-1: Setting Name correlation

CyberData Setting	Wildix Provisioning Pop-up
Primary SIP Server	SIP Domain
Primary SIP User ID	Extension Number
Primary SIP Auth ID	Extension Number
Primary SIP Auth Password	Password

1. Click **Launch Browser** from the CyberData Discovery Utility or point your browser to the CyberData device's IP address to access the Home Page of the web interface.

Figure 5-1: CyberData Discovery Utility



2. Enter the default credentials when prompted and click the **Log In** button.

Username: admin

Password: admin

Figure 5-2: Home Tab

The screenshot shows the 'Home' tab of the CyberData SIP Speaker web interface. At the top is a navigation bar with tabs: Home, Device, Audio, Network, SIP, Multicast, SSL, Sensor, Audiofiles, Events, Autopro, and Firmware. The main content area has a light blue background with the title 'CyberData SIP Speaker' in large black font. Below the title are three main sections: 'Current Status', 'Admin Settings', and 'Import Settings'. The 'Current Status' section lists various system parameters. The 'Admin Settings' section includes login fields for Username, Password, and Confirm Password, along with 'Save', 'Reboot', and 'Toggle Help' buttons. The 'Import Settings' section has a 'Choose File' button and an 'Import Config' button. Below these is an 'Export Settings' section with an 'Export Config' button. At the bottom, a status section shows registration status for various servers.

Section	Parameter	Value
Current Status	Serial Number:	398001862
	Mac Address:	00:20:f7:04:5d:ce
	Firmware Version:	v12.1.1
	IP Addressing:	DHCP
	IP Address:	192.168.1.26
	Subnet Mask:	255.255.255.0
	Default Gateway:	192.168.1.1
	DNS Server 1:	192.168.1.1
	DNS Server 2:	
	SIP Mode	SIP Mode:
Multicast Mode:		Disabled
Event Reporting:		Disabled
Nightringer:		Disabled
SIP Server Status	Primary SIP Server:	Not registered
	Backup Server 1:	Not registered
	Backup Server 2:	Not registered
	Nightringer Server:	Not registered
	Monitor SIP Server:	Not registered

Admin Settings

Username:

Password:

Confirm Password:

Import Settings

No file chosen

Export Settings

3. Navigate to the SIP Tab.

Figure 5-3: SIP Tab

The screenshot displays the SIP configuration interface, organized into several sections:

- SIP Settings:** Includes checkboxes for 'Enable SIP operation' (checked), 'Verify Server Certificate' (unchecked), and 'Register with a SIP Server' (checked). It features dropdowns for 'SIP Transport Protocol' (UDP) and 'TLS Version' (1.2 only). Text fields are provided for 'Primary SIP Server' (wildixstudent9.wildixin.com), 'Primary SIP User ID' (300), 'Primary SIP Auth ID' (300), and 'Primary SIP Auth Password' (masked). Backup settings for two servers are also available. Other fields include 'Remote SIP Port' (5060), 'Local SIP Port' (5060), 'Outbound Proxy', 'Outbound Proxy Port' (0), 'Monitor User ID', 'Monitor Authenticate ID', 'Monitor Authenticate Password', 'Disable rport Discovery' (unchecked), 'Buffer SIP Calls' (unchecked), 'Re-registration Interval (in seconds)' (360), 'Unregister on Boot' (unchecked), and 'Keep Alive Period' (0).
- Nightringer Settings:** Includes 'Enable Nightringer' (unchecked), 'SIP Server' (10.0.0.253), 'Remote SIP Port' (5060), 'Local SIP Port' (5060), 'Outbound Proxy', 'Outbound Proxy Port' (0), 'User ID' (241), 'Authenticate ID' (241), 'Authenticate Password' (masked), and 'Re-registration Interval (in seconds)' (360).
- RTP Settings:** Includes 'RTP Port (even):' (10500), 'Jitter Buffer' (50), and 'SRTP' (Disabled).
- Call Disconnection:** Includes 'Terminate Call after delay:' (0).
- Codec Selection:** Includes 'Force Selected Codec:' (unchecked) and 'Codec:' (PCMU (G.711, u-law)).
- Button Settings:** Includes 'Dial Out Extension:' (204) and 'Extension ID:' (id204).

At the bottom of the SIP Settings section, there are buttons for 'Save', 'Reboot', and 'Toggle Help'.

4. Set the **Primary SIP Server** to the FQDN of the Wildix Server.
5. Set the **Primary SIP User ID** to the extension number.
6. Set the **Primary SIP Auth ID** to the extension number.
7. Set the **Primary SIP Auth Password** to the auto-generated password from the previous section.
8. Set the **Keep Alive Period** to 0.
9. Save.
10. Reboot.

Once the unit reboots it should be registered with Wildix.

6.0 Configuration Procedure: Setting up the Nightringer Extension

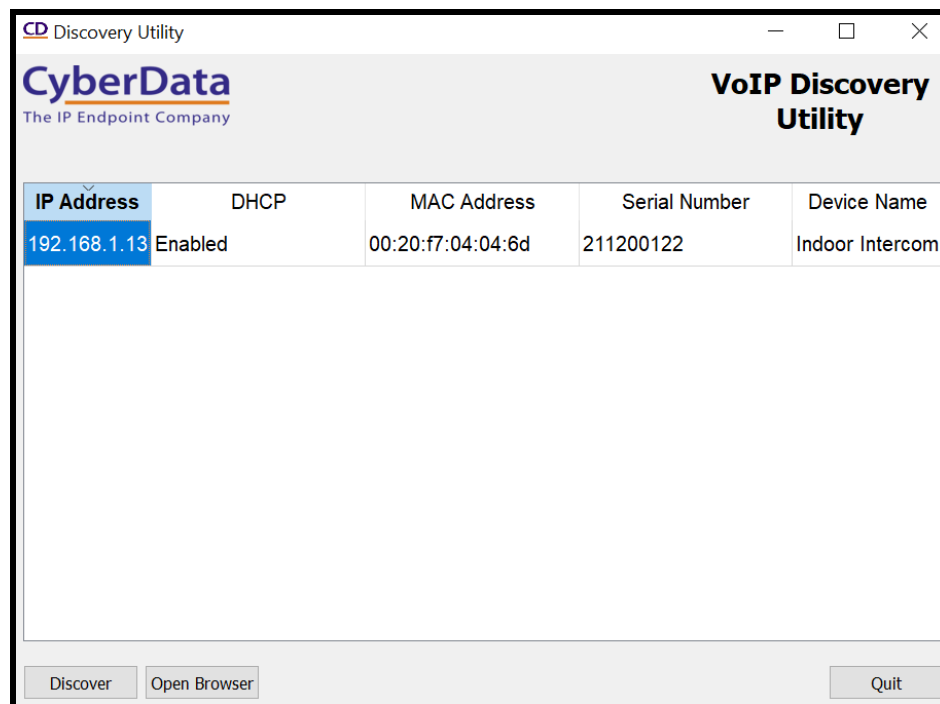
If you are configuring through the web interface, use the following steps to login to the web interface of your CyberData device.

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CyberData Setting	Wildix Provisioning Pop-up
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Primary SIP User ID	Extension Number
Primary SIP Auth ID	Extension Number
Primary SIP Auth Password	Password

1. Click **Launch Browser** from the CyberData Discovery Utility or point your browser to the CyberData device's IP address to access the Home Page of the web interface.

Figure 6-1: CyberData Discovery Utility



2. Enter the default credentials when prompted and click the **Log In** button.

Username: admin

Password: admin

Figure 6-2: Home Tab

The screenshot shows the 'Home' tab of the CyberData SIP Speaker configuration interface. The top navigation bar includes tabs for Home, Device, Audio, Network, SIP, Multicast, SSL, Sensor, Audiofiles, Events, Autoprovisioning, and Firmware. The main content area has a light blue background with the title 'CyberData SIP Speaker' in large black font. Below the title, there are three main sections: 'Current Status', 'Admin Settings', and 'Import Settings'. The 'Current Status' section displays various system parameters including Serial Number, Mac Address, Firmware Version, IP Addressing, IP Address, Subnet Mask, Default Gateway, DNS Server 1, DNS Server 2, SIP Mode, Multicast Mode, Event Reporting, Nighthtringer, and a list of SIP servers (Primary, Backup 1, Backup 2, Nighthtringer, Monitor) with their registration status. The 'Admin Settings' section contains fields for Username, Password, and Confirm Password, along with 'Save', 'Reboot', and 'Toggle Help' buttons. The 'Import Settings' section has a 'Choose File' button, a 'No file chosen' message, and an 'Import Config' button. Below these is an 'Export Settings' section with an 'Export Config' button.

Section	Parameter	Value		
Current Status	Serial Number:	398001862		
	Mac Address:	00:20:f7:04:5d:ce		
	Firmware Version:	v12.1.1		
	IP Addressing:	DHCP		
	IP Address:	192.168.1.26		
	Subnet Mask:	255.255.255.0		
	Default Gateway:	192.168.1.1		
	DNS Server 1:	192.168.1.1		
	DNS Server 2:			
	SIP Mode:	Enabled		
Admin Settings	Username:	admin		
	Password:			
	Confirm Password:			
	Buttons	Save, Reboot, Toggle Help		
	Import Settings	Choose File	No file chosen	
		Import Config	Button	
		Export Settings	Export Config	Button

3. Navigate to the SIP Tab.

Figure 6-4: SIP Tab

The screenshot displays the SIP configuration interface, organized into several sections:

- SIP Settings:** Includes checkboxes for 'Enable SIP operation' (checked), 'Register with a SIP Server' (checked), and 'Use Cisco SRST' (unchecked). It features dropdowns for 'SIP Transport Protocol' (UDP) and 'TLS Version' (1.2 only). Text fields include 'Primary SIP Server' (wildixstudent9.wildix.com), 'Primary SIP User ID' (300), 'Primary SIP Auth ID' (300), 'Primary SIP Auth Password' (masked), and 'Re-registration Interval (in seconds)' (360). Backup server fields (1 and 2) are also present.
- Nightringer Settings:** Includes 'Enable Nightringer' (checked), 'SIP Server' (wildixstudent9.wildix.com), 'Remote SIP Port' (5060), 'Local SIP Port' (5061), 'Outbound Proxy' (empty), 'Outbound Proxy Port' (0), 'User ID' (301), 'Authenticate ID' (301), 'Authenticate Password' (masked), and 'Re-registration Interval (in seconds)' (360).
- RTP Settings:** Includes 'RTP Port (even)' (10500), 'Jitter Buffer' (50), and 'SRTP' (Disabled).
- Call Disconnection:** Includes 'Terminate Call after delay' (0).
- Codec Selection:** Includes 'Force Selected Codec' (unchecked) and 'Codec' (PCMU (G.711, u-law)).
- Button Settings:** Includes 'Dial Out Extension' (204) and 'Extension ID' (id204).

At the bottom of the SIP Settings section, there are checkboxes for 'Disable rport Discovery' (unchecked), 'Buffer SIP Calls' (unchecked), 'Unregister on Boot' (unchecked), and 'Keep Alive Period' (0). At the very bottom are 'Save', 'Reboot', and 'Toggle Help' buttons.

4. Set the **SIP Server** to the FQDN of the Wildix Server.
5. Set the **SIP User ID** to the extension number.
6. Set the **SIP Auth ID** to the extension number.
7. Set the **SIP Auth Password** to the auto-generated password from the previous section.
8. Set the **Keep Alive Period** to 0.
9. Save.
10. Reboot.

Once the unit reboots it should be registered with Wildix.

7.0 Contact CyberData Corporation

Sales

For sales-related questions, please visit our [Contact CyberData Sales](#) web page for more information.

Technical Support

For CyberData Technical Support, please submit a [Contact CyberData VoIP Technical Support](#) form on our website.

The CyberData VoIP Technical Support Contact form initiates a troubleshooting ticket which CyberData uses for quality assurance purposes.

Additionally, the Contact VoIP Tech Support form tells us which phone system you are using, the make and model of the network switch, and other essential troubleshooting information we need to efficiently assist with a resolution. Please also include as much detail as possible in the Describe Problem section of the form. Your installation is extremely important to us.

Documentation Feedback

We realize changes to the software or hardware of the Wildix PBX solution may render this document obsolete. We welcome and encourage documentation feedback to ensure continued applicability.