



## *Wildix Configuration Guide: SIP Paging Adapter*

Document Part # 931891A

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## **Wildix Configuration Guide: SIP Paging Adapter Document #931891A**

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## Revision Information

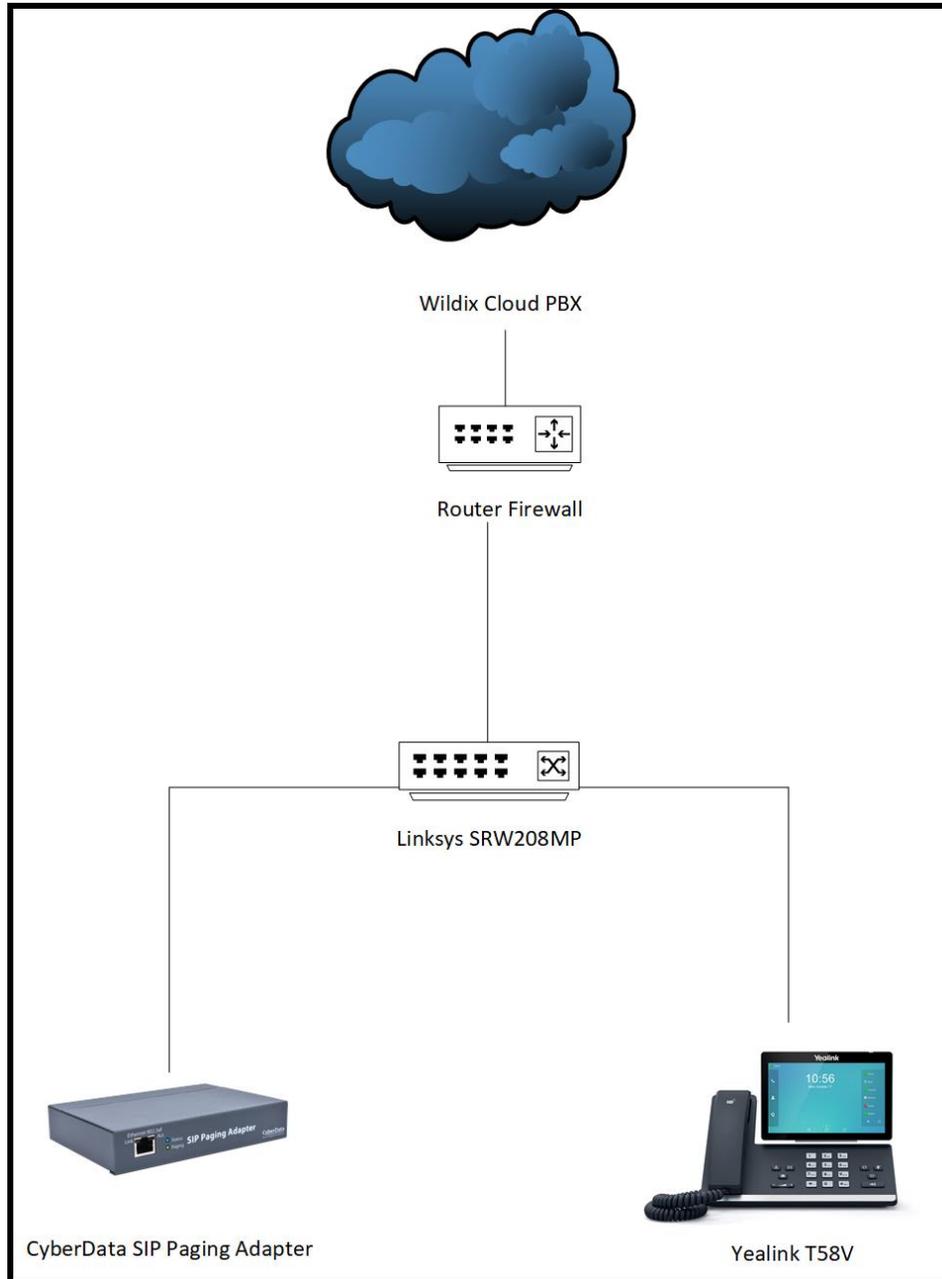
- 10/7/2021 – Initial Release

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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 PAGING ADAPTER	011233	20.1.0
YEALINK	T58A	58.83.3.6
LINKSYS SWITCH	SRW208MP	---

## 3.0 Before You Start

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

### Network Advisories

Wildix uses a Fully Qualified Domain Name (FQDN) for the SIP server address. The CyberData SIP Paging Adapter 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 paging adapter will need to traverse the public internet in order to operate with Wildix in the cloud.

The paging adapter'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:

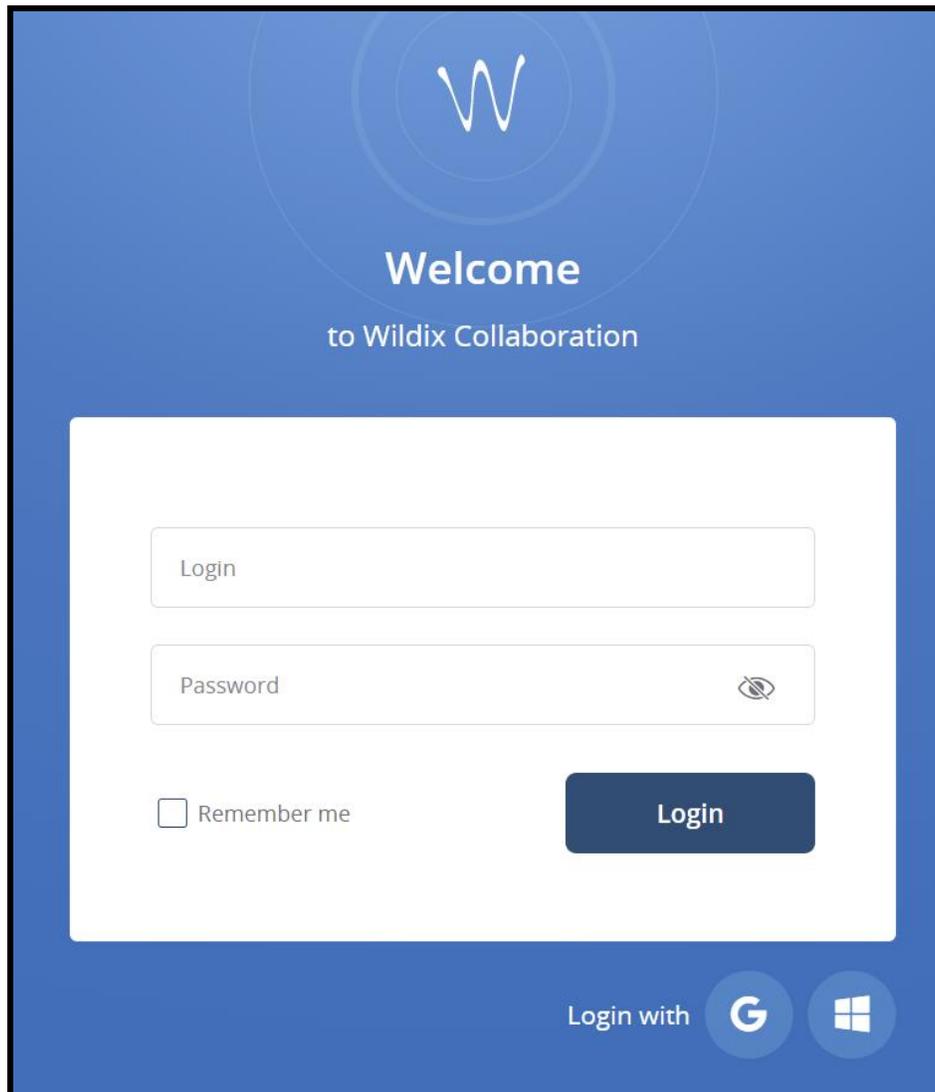
CyberData SIP Paging Adapter ([011233](#))

[https://files.cyberdata.net/assets/011233/011233\\_931763C\\_SIP\\_Paging\\_Adapter\\_Operations\\_Guide.pdf](https://files.cyberdata.net/assets/011233/011233_931763C_SIP_Paging_Adapter_Operations_Guide.pdf)

## 4.0 Configuration Procedure: Extension Creation

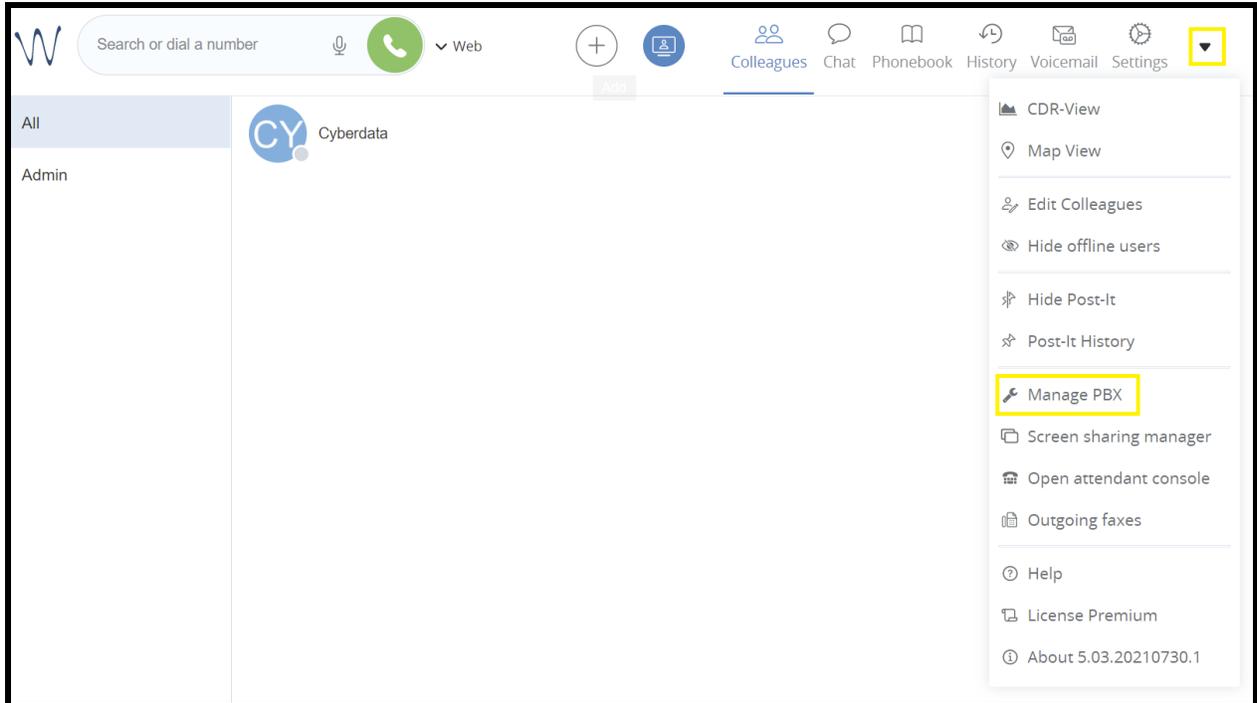
1. Log into Wildix.

**Figure 4-1:** Log into Wildix



- From the landing page select the **Other** down arrow button and pick **Manage PBX..**

**Figure 4-2: Manage PBX page**



3. On the **Manage PBX** page press the + button to add a new extension. .

**Figure 4-3: Manage PBX**

	Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial...	Group	Department	License type
admin	admin	admin						internalc...	internalc...	Admin		
Rob			201		+1614552123			users	users	New		Premium
Todd			202		+1614552122			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

Below the table, there is a row of buttons: a highlighted '+' button, 'Edit', a '-' button, 'Set passwords', 'Edit preferences', and 'Send Welcome Message'.

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

**Figure 4-4: Extension creation**

**Add** [Close]

User [v]

Full Name [ ]

Login [ ]

Extension [ ]

Fax [ ]

Office [ ]

Email [ ]

Mobile [ ]

Dialplan users (Internal dialplan) [v]

Fax dialplan users (Internal dialplan) [v]

Language En-us [v]

Group Default [v]

Department [ ]

License type Essential [v]

[Ok] [Cancel]

5. Make sure the drop-down menu has **User** selected.
6. Set the full name to the location of the paging adapter.
7. 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 4-5:** Filled Extension Popup

The screenshot shows a window titled "Edit" with a close button (X) in the top right corner. The window contains the following fields and values:

- Drop-down menu: User
- Full Name: CyberData SIP Paging Adapter
- Login: (empty)
- Extension: 300
- Fax: (empty)
- Office: (empty)
- Email: (empty)
- Mobile: (empty)
- Dialplan: users (Internal dialplan)
- Fax dialplan: users (Internal dialplan)
- Language: En-us
- Group: Admin
- Department: (empty)
- License type: Premium

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

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

**Figure 4-6: Extension Created**

	Full Name	Login	Extension	Fax	Office	Email	Mobile	Dialplan	Fax dial...	Group	Department	License type
admin	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 Paging Ada...			300					users	users	Admin		Premium
Yealink Phone			204					users	users	Default		Essential
CyberData Nightringer			301					users	users	Default		Essential

10. After selecting the extension press **Set Passwords**.

11. Click on the **Generate** button to create a password

**Figure 4-7: Set Passwords Popup**

12. 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

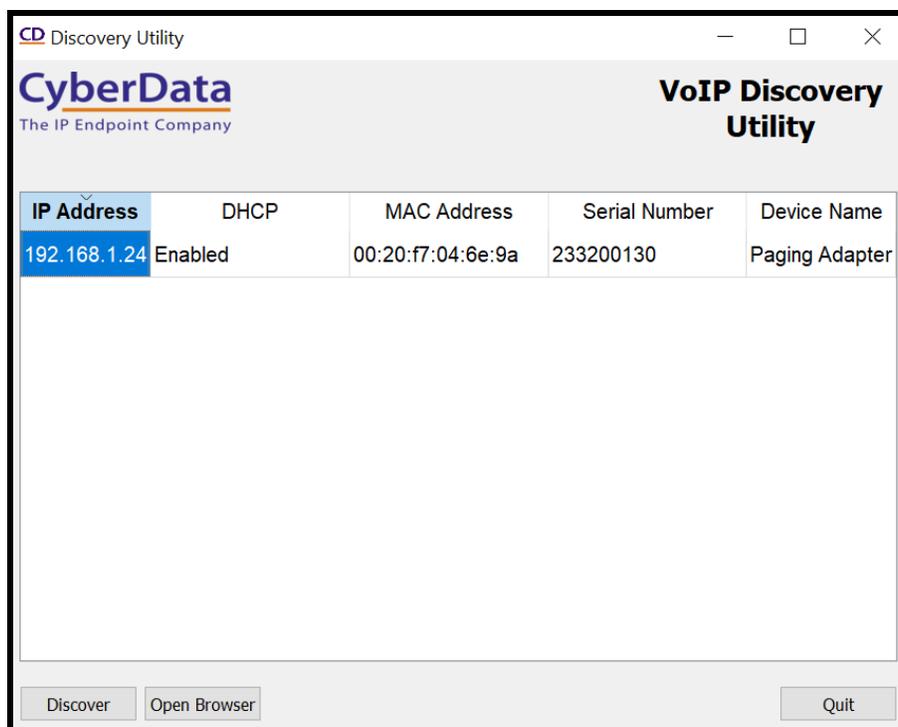
If you are configuring through the web interface, use the following steps to login to the web interface of your CyberData device.

**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**

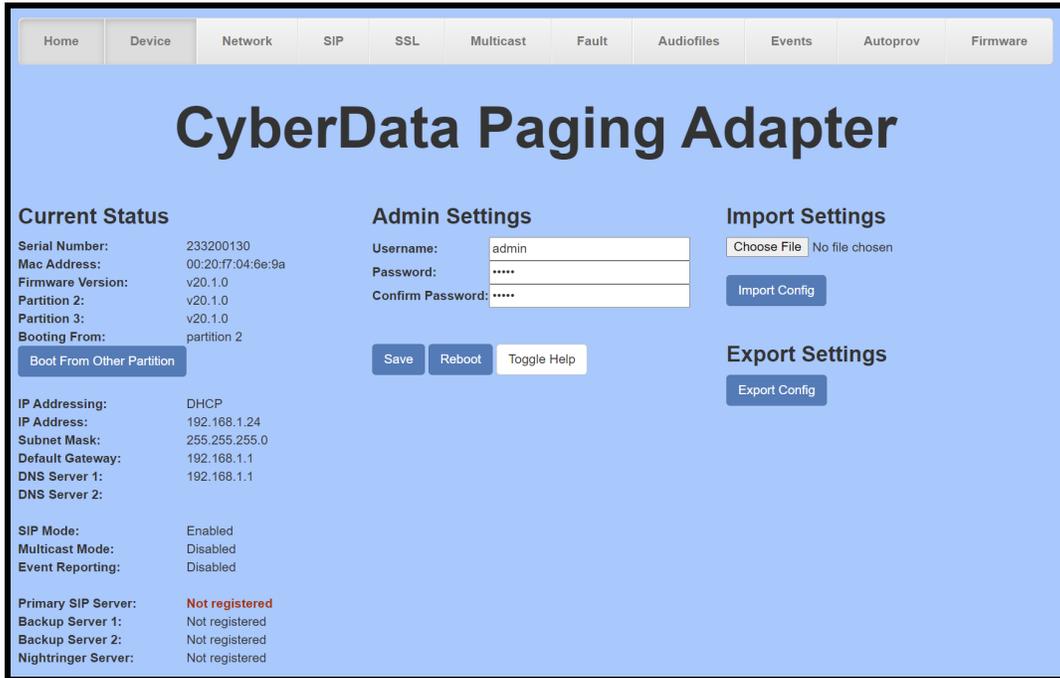


2. Enter the default credentials when prompted and click the **Log In** button.

Username: admin

Password: admin

Figure 5-2: Home Tab



3. Navigate to the SIP Tab.

**Figure 5-3: SIP Tab**

The screenshot shows the configuration page for the CyberData Paging Adapter. The page is titled "CyberData Paging Adapter" and is divided into several sections:

- SIP Settings:** Includes checkboxes for "Enable SIP operation" and "Register with a SIP Server", both checked. Other fields include "Buffer SIP Calls" (unchecked), "Primary SIP Server" (wildixstudent9.wildixin.com), "Primary SIP User ID" (300), "Primary SIP Auth ID" (300), "Primary SIP Auth Password" (masked), "Re-registration Interval (in seconds)" (360), and backup server information for three servers.
- Nightringer Settings:** Includes fields for "SIP Server", "SIP User ID", "SIP Auth ID", "SIP Auth Password", and "Re-registration Interval (in seconds)" (360).
- Call Disconnection:** Includes a field for "Terminate Call after delay" (0).
- Audio Codec Selection:** Includes a dropdown menu for "Codec" set to "Auto Select".
- RTP Settings:** Includes fields for "RTP Port (even)" (10500), "Asymmetric RTP" (unchecked), "Jitter Buffer" (50), and "RTP Encryption (SRTP)" (Disabled).
- Other Settings:** Includes "Remote SIP Port" (5060), "Local SIP Port" (5060), "SIP Transport Protocol" (UDP), "TLS Version" (1.2 only (recommended)), "Verify Server Certificate" (unchecked), "Outbound Proxy" (Host or IP address), "Outbound Proxy Port" (0), "Use Cisco SRST" (unchecked), "Disable rport Discovery" (unchecked), and "Keep Alive Period" (10000).

At the bottom of the configuration page, there are three buttons: "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.

Figure 5-4: Home Tab - Registered

The screenshot displays the 'Home' tab of the CyberData Paging Adapter web interface. At the top, a navigation menu includes 'Home', 'Device', 'Network', 'SIP', 'SSL', 'Multicast', 'Fault', 'Audiofiles', 'Events', 'Autoprov', and 'Firmware'. The main heading is 'CyberData Paging Adapter'. The interface is divided into three main sections: 'Current Status', 'Admin Settings', and 'Import Settings'. The 'Current Status' section lists various system parameters such as Serial Number, Mac Address, Firmware Version, Partition information, Booting From, IP Addressing, IP Address, Subnet Mask, Default Gateway, DNS Servers, SIP Mode, Multicast Mode, Event Reporting, and SIP Server registration status. The 'Admin Settings' section includes fields for Username, Password, and Confirm Password, along with 'Save', 'Reboot', and 'Toggle Help' buttons. The 'Import Settings' section features a 'Choose File' button and an 'Import Config' button. An 'Export Settings' section with an 'Export Config' button is also visible.

Section	Parameter	Value
Current Status	Serial Number:	233200130
	Mac Address:	00:20:f7:04:6e:9a
	Firmware Version:	v20.1.0
	Partition 2:	v20.1.0
	Partition 3:	v20.1.0
	Booting From:	partition 2
	IP Addressing:	DHCP
	IP Address:	192.168.1.24
	Subnet Mask:	255.255.255.0
	Default Gateway:	192.168.1.1
DNS Server 1:	192.168.1.1	
	DNS Server 2:	192.168.1.1
SIP Mode:	Enabled	
	Multicast Mode:	Disabled
	Event Reporting:	Disabled
SIP Server Status	Primary SIP Server:	Registered
	Backup Server 1:	Not registered
	Backup Server 2:	Not registered
	Nightringer Server:	Not registered

## 6.0 Configuration Procedure: Setting up the Nightringer Extension

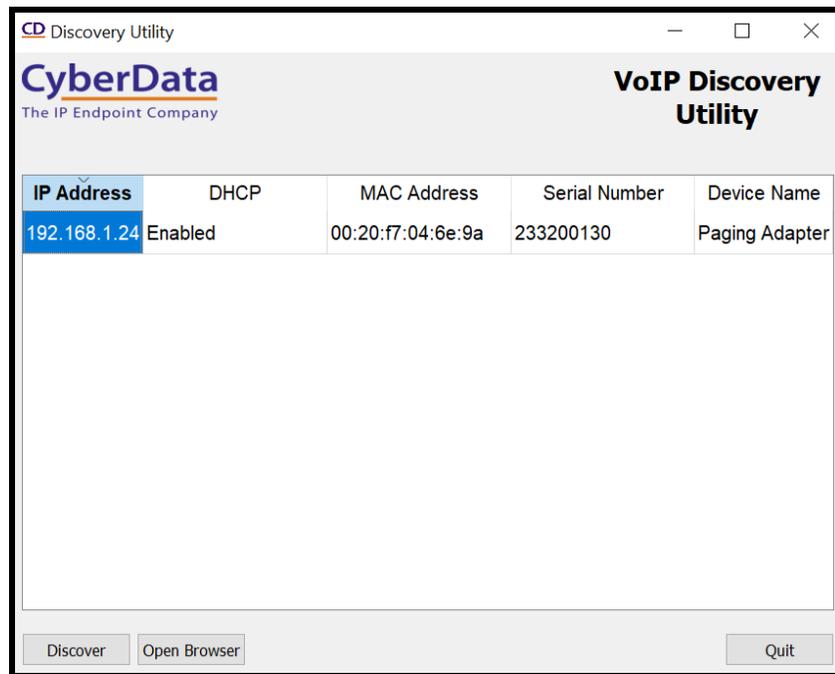
If you are configuring through the web interface, use the following steps to login to the web interface of your CyberData device.

**Table 6-1:** Setting Name correlation

CyberData Setting	Wildix Provisioning Pop-up
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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 Paging Adapter configuration interface. The page has a light blue background and a navigation bar at the top with tabs for Home, Device, Network, SIP, SSL, Multicast, Fault, Audiofiles, Events, Autopro, and Firmware. The main content area is divided into several sections:

- Current Status:** Displays device information such as Serial Number (233200130), Mac Address (00:20:f7:04:6e:9a), Firmware Version (v20.1.0), and Partition 2 (v20.1.0). It also shows booting information and a 'Boot From Other Partition' button.
- Admin Settings:** Includes fields for Username (admin), Password (masked with dots), and Confirm Password (masked with dots). It features 'Save', 'Reboot', and 'Toggle Help' buttons.
- Import Settings:** Contains a 'Choose File' button (with 'No file chosen' text) and an 'Import Config' button.
- Export Settings:** Features an 'Export Config' button.
- Network Settings:** Lists IP Addressing (DHCP), IP Address (192.168.1.24), Subnet Mask (255.255.255.0), Default Gateway (192.168.1.1), and DNS Server 1 (192.168.1.1).
- Mode Settings:** Shows SIP Mode (Enabled), Multicast Mode (Disabled), and Event Reporting (Disabled).
- SIP Server Status:** Lists Primary SIP Server (Not registered), Backup Server 1 (Not registered), Backup Server 2 (Not registered), and Nightringer Server (Not registered).

3. Navigate to the SIP Tab.

**Figure 6-4: SIP Tab**

The screenshot shows the configuration page for the CyberData Paging Adapter. The page is titled "CyberData Paging Adapter" and is divided into several sections:

- SIP Settings:** Includes checkboxes for "Enable SIP operation" and "Register with a SIP Server" (both checked). Fields include "Primary SIP Server" (wildixstudent9.wildix.com), "Primary SIP User ID" (300), "Primary SIP Auth ID" (300), "Primary SIP Auth Password" (masked), "Re-registration Interval (in seconds)" (360), and similar fields for Backup SIP Server 1 and 2. It also includes "Remote SIP Port" (5060), "Local SIP Port" (5060), "SIP Transport Protocol" (UDP), "TLS Version" (1.2 only), "Verify Server Certificate" (unchecked), "Outbound Proxy" (Host or IP address), "Outbound Proxy Port" (0), "Use Cisco SRST" (unchecked), "Disable rport Discovery" (unchecked), and "Keep Alive Period" (10000).
- Nightringer Settings:** Includes "SIP Server" (wildixstudent9.wildix.com), "SIP User ID" (301), "SIP Auth ID" (301), "SIP Auth Password" (masked), and "Re-registration Interval (in seconds)" (360).
- Call Disconnection:** Includes "Terminate Call after delay" (0).
- Audio Codec Selection:** Includes "Codec" (Auto Select).
- RTP Settings:** Includes "RTP Port (even)" (10500), "Asymmetric RTP" (unchecked), "Jitter Buffer" (50), and "RTP Encryption (SRTP)" (Disabled).

At the bottom right, there are buttons for "Save", "Reboot", and "Toggle Help".

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.