



Setting up Algo SIP Endpoints with Wildix PBX Platform

Application Note

V1.2

Table of Contents

Introduction	3
Get Help	3
Algo 8301 Paging Adapter & Scheduler	3
Algo 8201 SIP PoE Intercom	5
Algo 8188 SIP Ceiling Speaker	6
Algo 8039 SIP Video Intercom	8
Compatibility with Web Collaboration Portal and Mobile Apps	10

Introduction

These Application Notes describe the configuration steps required for Algo 8301 Paging Adapter & Scheduler, 8201 SIP PoE Intercom, 8188 SIP Ceiling Speaker, and 8039 SIP Video Intercom to interoperate with Wildix PBX Platform. These are SIP-based devices that can register with Wildix PBX Platform as SIP endpoints. Note: Other Algo SIP endpoints will register in a similar way.

Firmware used for testing:

- Algo 8301 – 1.5.6
- Algo 8201 – 1.5.6
- Algo 8188 – 1.5.6
- Algo 8039 – 1.5.6

Get Help

For more information about Wildix PBX Platform, refer to Wildix tech support. For technical questions about the Algo products, please contact Algo support: at 604-454-3792 or support@algosolutions.com.

Additional helpful Algo resources:

- [Network Device Locator](#)
- [Provisioning Guide](#)
- [Multicast Guide](#)
- [Paging & Notification System Overview](#)

Algo 8301 Paging Adapter & Scheduler

- 1) To configure the 8301, open an empty web browser, enter the device's IP address in the address field, and press Enter
- 2) To find the device's IP address, please refer to the user guide available at: <http://www.algosolutions.com/8301/guide>



- 3) In the web interface, enter the password to log in (default password is **algo**)
- 4) Click on **Basic Settings** tab and then **SIP** tab. To register the 8301 with Wildix Server, enter the domain name in the **SIP Domain** field (e.g. "mysystem.wildix.com"). Enter a unique **Extension**, **Authentication ID** (login) and **Authentication Password** for page and/or ring. At the bottom of the screen click **Save**

The screenshot displays the Wildix web interface for configuring SIP settings. At the top, there are navigation tabs: 'Status', 'Basic Settings', 'Additional Features', 'Advanced Settings', 'System', and 'Logout'. The 'Basic Settings' tab is selected and circled in red. Below it, there are sub-tabs: 'SIP', 'Features', and 'Multicast'. The 'SIP' sub-tab is also circled in red. The main content area is titled 'SIP Settings' and contains the following fields and options:

- SIP Domain (Proxy Server):** A text input field containing 'mysystem.wildix.com', which is circled in red. Below it is a small note: 'Default port is 5060. To specify a different port, enter PROXY:PORT, e.g., my_proxy.com:5070, or 192.168.1.10:5080.'
- Ring/Alert Mode:** Radio buttons for 'Monitor Ring' (selected) and 'None'.
- Ring Extension:** A text input field containing '993', circled in red.
- Authentication ID:** A text input field containing '993', circled in red.
- Authentication Password:** A password input field with masked characters '*****', circled in red.
- Page Extension:** A text input field containing '992', circled in red.
- Authentication ID:** A text input field containing '992', circled in red.
- Authentication Password:** A password input field with masked characters '*****', circled in red.

At the bottom right of the form, there is a 'Save' button with a green checkmark icon, which is circled in red.

- 5) Click on **Status** tab and verify whether the extension(s) registered successfully with the server

Welcome to the Algo 8301 Paging Adapter & Scheduler Control Panel

Setting up your Paging Adapter & Scheduler:

Step 1: Configure your Paging Adapter & Scheduler
Log in with the default password and use the Basic Settings pages to set up the basic information.

Step 2: Check network settings (Optional)
Use the Network page under the Advanced Settings tab to change network settings. The default setting for the device is to obtain its IP address from a DHCP server. Contact your Network System administrator if you plan to assign a static IP address, Mask, and Gateway to the device.

Step 3: Secure your Paging Adapter & Scheduler (Optional)
Use the Admin page under the Advanced Settings tab to change the administrator password.
⚠ Changing the password is extremely important if the device is directly connected to a public network.

Step 4: Register your Paging Adapter & Scheduler (Optional)
Please register your product using the link below:
<http://www.algosolutions.com/register>
Registration ensures your access to the latest upgrades to this product and important service notices.

Status	
Device Name	pagingadapter
SIP Registration	Ring #1 Page Successful Successful (Extension 393) (Extension 392)
Call Status	Idle
Proxy Status	Single proxy mode
Provisioning Status	None Found
MAC	00:22:ee:09:00:45
IP	10.0.17.20
Netmask	255.0.0.0
Date/Time	Wed Feb 28 20:05:26 UTC 2018
Volume	Page Volume: 0 (-30dB), Ring Volume: 0 (-30dB)
Multicast Mode	Master Mode, Idle.
Relay Input Status	Disabled

Algo 8201 SIP PoE Intercom

- 1) To configure the 8201, open an empty web browser, enter the device's IP address in the address field, and press Enter
- 2) To find the device's IP address, please refer to the user guide available at: <http://www.algosolutions.com/8201/guide>



- 3) In the web interface, enter the password to log in (default password is **algo**)
- 4) Click on **Basic Settings** tab and then **SIP** tab. To register the 8201 with Wildix Server, enter the domain name in the **SIP Domain** field (e.g. "mysystem.wildix.com"). Enter a unique **Extension**, **Authentication ID** (login), **Authentication Password**, and **Extension to Dial** when pressing the button. At the bottom of the screen click **Save**

[Status](#) | **Basic Settings** | [Additional Features](#) | [Advanced Settings](#) | [System](#) | [Logout](#)

[STP](#) | [Features](#) | [Door Control](#) | [Multicast](#)

SIP Settings

SIP

This section allows the SIP server information & account credentials to be entered. This information should be obtained from your telephone system administrator or hosted account provider. After saving these settings, see the [Status](#) tab to confirm successful registration.

SIP Domain (Proxy Server)

Proxy Port (Default: 5060): To specify a different port, enter PROXY:PORT, e.g. my_proxy.com:5070, or 192.168.1.10:5080.

SIP Extension

Authentication ID

Authentication Password

Extension to Dial

Phone number to be dialed when the call button is pressed.

5) Click on **Status** tab and verify whether the extension registered successfully with the server

[Status](#) | **Basic Settings** | [Additional Features](#) | [Advanced Settings](#) | [System](#) | [Logout](#)

Device Status

Welcome to the Algo 8201 SIP PoE Intercom Control Panel

Setting up your SIP PoE Intercom:

Step 1: Configure your SIP PoE Intercom
Log in with the default password and use the Basic Settings pages to set up the basic information.

Step 2: Check network settings (Optional)
Use the Network page under the Advanced Settings tab to change network settings. The default setting for the device is to obtain its IP address from a DHCP server. Contact your Network System administrator if you plan to assign a static IP address, Mask, and Gateway to the device.

Step 3: Secure your SIP PoE Intercom (Optional)
Use the Admin page under the Advanced Settings tab to change the administrator password.
⚠️ Changing the password is extremely important if the device is directly connected to a public network.

Step 4: Register your SIP PoE Intercom (Optional)
Please register your product using the link below:
<http://www.algosolutions.com/register>
Registration ensures your access to the latest upgrades to this product and important service notices.

Status	
Device Name	sipintercom
SIP Registration	Successful (Extension 991)
Call Status	Idle
Proxy Status	Single proxy mode
Provisioning Status	None Found
MAC	00:22:ee:0c:02:52
IP	10.30.14.248
Netmask	255.0.0.0
Date/Time	Wed Mar 7 17:01:23 UTC 2018
Volume	Speaker Volume: 4 (-18dB)
Door Relay	Terminal Enabled, Door Locked
Network Door Controller	Not Configured
Extension to Dial	Not Configured

Algo 8188 SIP Ceiling Speaker

- 1) To configure the 8188, open an empty web browser, enter the device's IP address in the address field, and press Enter
- 2) To find the device's IP address, please refer to the user guide available at: <http://www.algosolutions.com/8188/guide>



- 3) In the web interface, enter the password to log in (default password is **algo**)
- 4) Click on **Basic Settings** tab and then **SIP** tab. To register the 8188 with Wildix Server, enter the domain name in the **SIP Domain** field (e.g. "mysystem.wildix.com"). Enter a unique **Extension**, **Authentication ID** (login) and **Authentication Password** for page and/or ring. At the bottom of the screen click **Save**

The screenshot shows the 'SIP Settings' configuration page. The 'Basic Settings' tab is selected, and the 'SIP' sub-tab is active. The 'SIP Domain (Proxy Server)' field contains 'mysystem.wildix.com'. The 'Page Extension' and 'Authentication ID' fields both contain '392'. The 'Authentication Password' field contains six asterisks. A 'Save' button is visible at the bottom right.

- 5) Click on **Status** tab and verify whether the extension(s) registered successfully with the server

Welcome to the Algo 8188 SIP Ceiling Speaker Control Panel

Setting up your SIP Ceiling Speaker:

Step 1: Configure your SIP Ceiling Speaker
Log in with the default password and use the Basic Settings pages to set up the basic information.

Step 2: Check network settings (Optional)
Use the Network page under the Advanced Settings tab to change network settings. The default setting for the device is to obtain its IP address from a DHCP server. Contact your Network System administrator if you plan to assign a static IP address, Mask, and Gateway to the device.

Step 3: Secure your SIP Ceiling Speaker (Optional)
Use the Admin page under the Advanced Settings tab to change the administrator password.
⚠️ Changing the password is extremely important if the device is directly connected to a public network.

Step 4: Register your SIP Ceiling Speaker (Optional)
Please register your product using the link below:
<http://www.algosolutions.com/register>
Registration ensures your access to the latest upgrades to this product and important service notices.

Status	
Device Name	siphom
SIP Registration	Page Successful (Extension 332)
Call Status	Idle
Proxy Status	Single proxy mode
Provisioning Status	Disabled
MAC	00:22:ee:07:00:73
IP	10.30.14.43
Netmask	255.0.0.0
Date/Time	Wed Mar 7 12:48:57 EST 2018
Volume	Page Volume: 3 (-21dB)
Multicast Mode	Slave Mode, Idle
Relay Input Status	Disabled

Algo 8039 SIP Video Intercom

- 1) To configure the 8039, open an empty web browser, enter the device's IP address in the address field, and press Enter
- 2) To find the device's IP address, please refer to the user guide available at: <http://www.algosolutions.com/8039/guide>



- 3) In the web interface, enter the password to log in (default password is **algo**)
- 4) Click on **Basic Settings** tab and then **SIP** tab. To register the 8039 with Wildix Server, enter the domain name in the **SIP Domain** field (e.g. "mysystem.wildix.com"). Enter a unique **Extension**, **Authentication ID** (login), **Authentication Password**, and **Extension to Dial** when pressing the button. At the bottom of the screen click **Save**

Status | **Basic Settings** | Advanced Settings | System | Logout
SIP | Features | Video | Keypad | Door Control | Multicast

SIP Settings

SIP

This section allows the SIP server information & account credentials to be entered. This information should be obtained from your telephone system administrator or hosted account provider. After saving these settings, see the [Status](#) tab to confirm successful registration.

SIP Domain (Proxy Server)
(Default: 192.168.1.10:5060). To specify a different port, enter PROXY:PORT, e.g. my_proxy.com:5070, or 192.168.1.10:5060.

SIP Extension

Authentication ID

Authentication Password

Extension to Dial
Phone number to dial when the Call Button is pressed. See "Basic Settings > Keypad" to configure alternate keypad modes.

5) Click on **Status** tab and verify whether the extension registered successfully with the server

Status | **Basic Settings** | Advanced Settings | System | Logout
Device Status | Video

Welcome to the Algo 8039 SIP Video Intercom Control Panel

Setting up your SIP Video Intercom:

Step 1: Configure your SIP Video Intercom
 Log in with the default password and use the Basic Settings pages to set up the basic information.

Step 2: Check network settings (Optional)
 Use the Network page under the Advanced Settings tab to change network settings. The default setting for the device is to obtain its IP address from a DHCP server. Contact your Network System administrator if you plan to assign a static IP address, Mask, and Gateway to the device.

Step 3: Secure your SIP Video Intercom (Optional)
 Use the Admin page under the Advanced Settings tab to change the administrator password.
 ⚠ Changing the password is extremely important if the device is directly connected to a public network.

Step 4: Register your SIP Video Intercom (Optional)
 Please register your product using the link below:
<http://www.algosolutions.com/register>
 Registration ensures your access to the latest upgrades to this product and important service notices.

Status

Device Name	videodoorphone
SIP Registration	Successful (Extension 992)
Call Status	Idle
Proxy Status	Single proxy mode
Provisioning Status	None Found
MAC	00:22:ee:0b:00:13
IP	10.30.14.115
Netmask	255.0.0.0
Date/Time	Wed Mar 7 19:13:57 UTC 2018
Volume	Speaker Volume: 0 [-30dB]
Door Relay	Terminal Enabled, Door Locked
Network Door Controller	10.30.1.54, Offline
Extension to Dial	391

Compatibility with Web Collaboration Portal and Mobile Apps

Compatibility tests for ringing, paging (one-way and talkback), and video with Wildix Collaboration Portal and Mobile Apps were successful and presented no issues whatsoever.

Wildix PBX Configuration via WMS

Since all Algo devices discussed within this document are SIP devices, the only configuration necessary on the Wildix system is to add users for the devices to register into. Each device is simply a SIP endpoint on the Wildix PBX. To access WMS, open a browser and navigate to the PBX url (e.g. mysystem.wildix.com or mysystem.wildixin.com). Login with 'admin' account or any other account that has the correct privileges to add user accounts to the system.

Adding a Wildix User

Once logged in, the administrator will see the following near the top left of the page. The icons left to right represent Users, Trunks, Devices, Dialplans and Settings. Select the users icon as is done in the screenshot (notice the users icon is white/selected), the admin will see the Users, Groups, PBXes and Phonebooks options below the set of icons).



Users Groups PBXes Phonebooks

Click on Users to show a list of all of the users in the Wildix PBX and gain access to the ability to add users. Once clicking on Users, the following options will be displayed below the current list of users:



Select the + symbol to add a user and fill out the User data as shown below. Note that the user in the example below is '1234' and that their Login is set to '1234' as well. However, also make note that there is no password set for this user yet.

After entering the user details click on OK, then select the new user in the list and click on the 'Set passwords' button below the users list. See the screenshot above that has the + option in it to add users. The Set passwords button is in that same row on the configuration UI.

Enter the password desired or auto generate the passwords via the 'Generate' button. Once the passwords have been filled in, click Ok.

you now have a user in the Wildix system that can be used by the Algo devices. Note that the fields is the Wildix user relate to the configuration parameters on the Algo devices in the following way.

Wildix Parameter	Algo Parameter
Login	Authentication ID
Extension	SIP Extension
WEB Password	<not required on Algo devices>
SIP/VoIP Password	Authentication Password
<any valid extension in pbx>	Extension to Dial