David,
I downloaded this guide and inserted XBLUE info…

I got this guide at:
http://www.algosolutions.com/pdf/user_guides/SIP%20Registration%20Guide.pdf

Getting Started with Algo IP Endpoints: SIP Registration Guide

Need Help?

(604) 454-3792 or support@algosolutions.com

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Introduction

Algo IP products register with most hosted / cloud or premise-based telephone systems supporting 3rd party SIP endpoints. This guide provides instructions to get an Algo SIP endpoint registered as well as to troubleshoot a failed registration.

For a list of known phone systems which support Algo SIP devices and specific instructions, please visit the URL below:

http://www.algosolutions.com/voip

Please check the Appendix for instructions for a select number of the well-known platforms. For a complete list, please check the URL above.

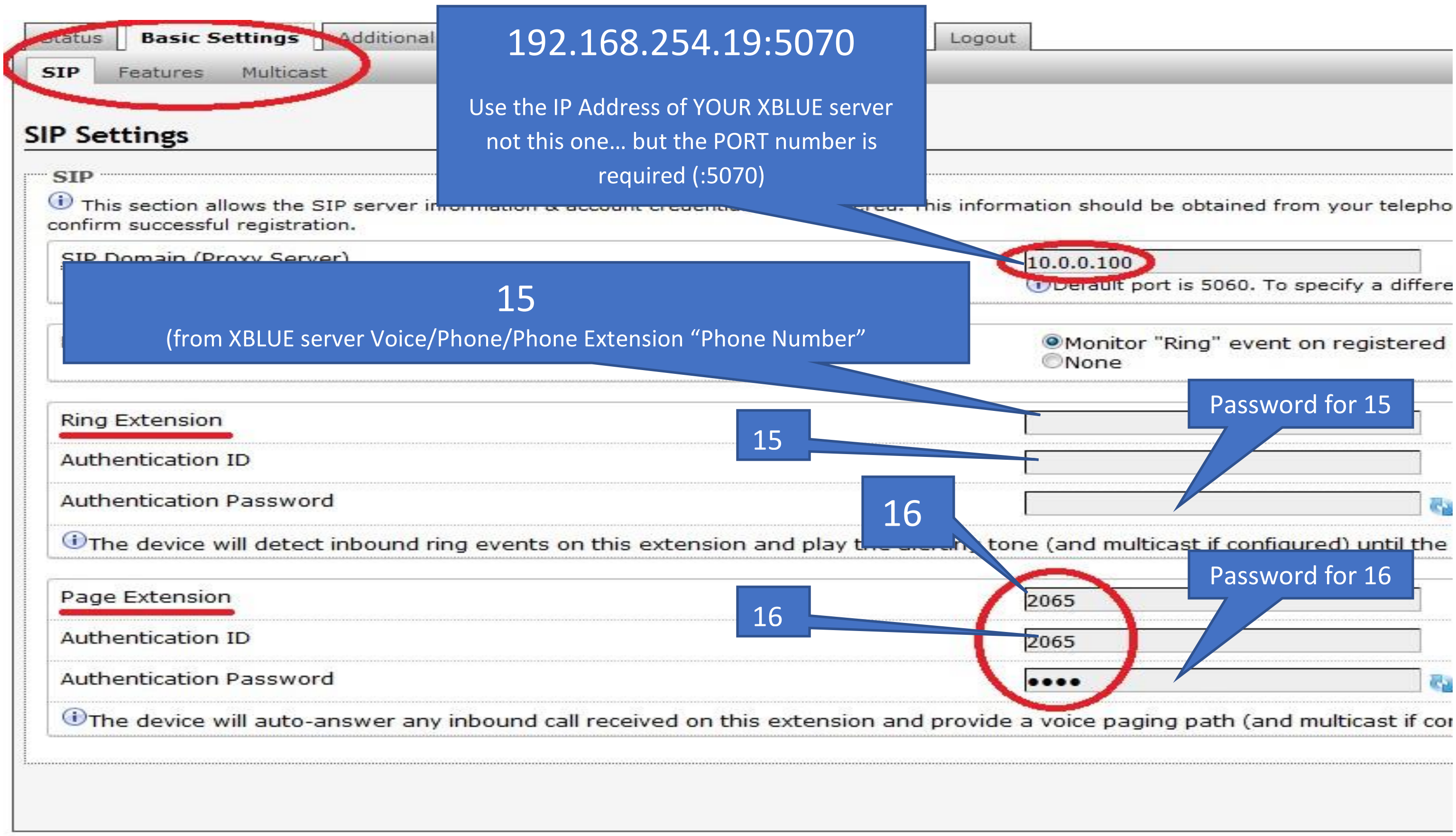
Note: Additional phone systems may not be listed, however, as long as 3rd party SIP endpoints are supported by the phone system then Algo endpoints will register without issue.

Instructions

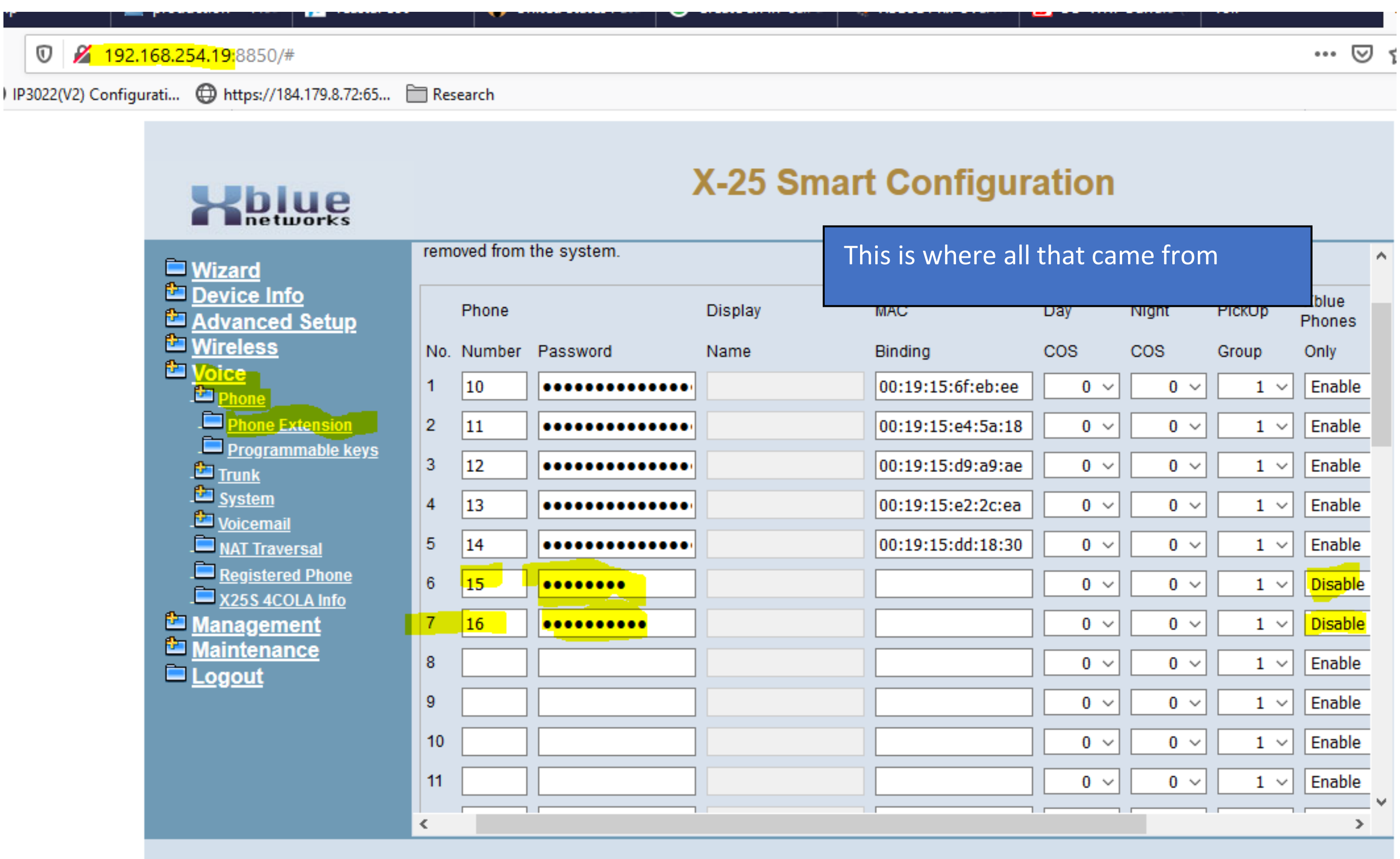
1. Log into the web interface by typing the device's IP address in the web browser. For devicespecific instructions to discover the IP address, check its User Guide, or use the Network Device Locator.
2. Get in touch with your service provider or network administrator to request the following:
    a. SIP Server Address / Domain Name
    b. Create a new SIP Extension, Authentication ID and Password
    Note: On some phone systems if no Authentication ID is available use the extension # in this field.
    c. (Not mandatory – dependent upon service provider settings) IP address / Domain Name for Outbound Proxy
3. Enter the SIP server's IP address / Domain Name into the **SIP Domain (Proxy Server)** field under the **Basic Settings** -> **SIP** tab.
4. Enter the **Page** and/or **Ring Extension**, **Authentication ID** and **Password**.

David, you mentioned ringing as well as paging so you'll need two extensions on the XBLUE phone system, one for paging the other for ringing.

ALGO



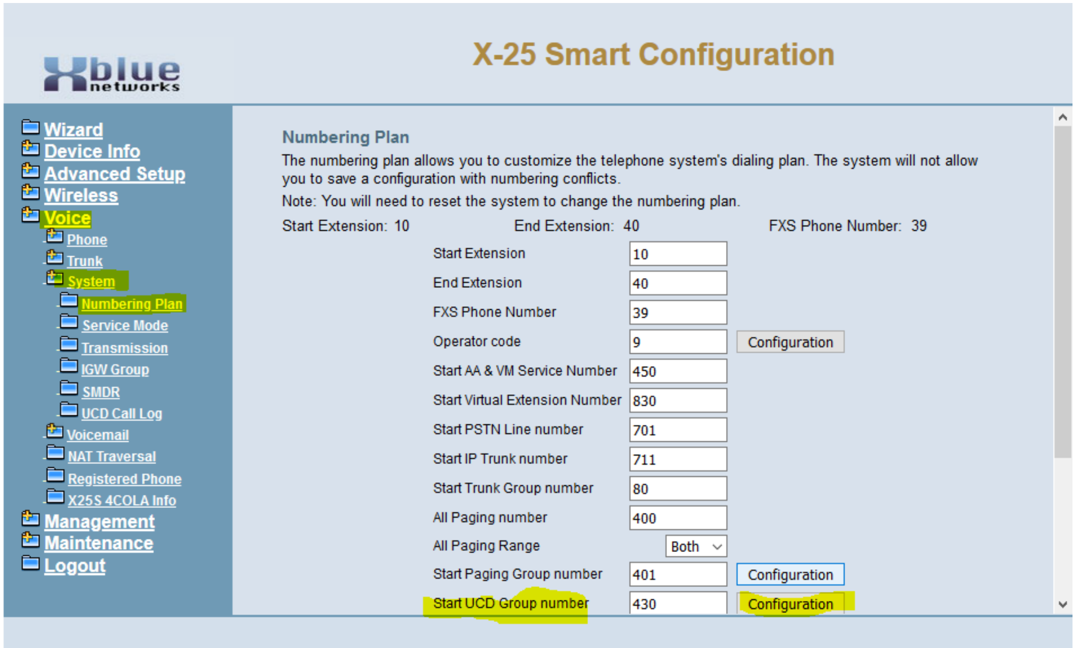
Status
Basic Settings
Additional
Logout
SIP
Features
Multicast
SIP Settings
SIP
This section allows the SIP server information & account credentials... This information should be obtained from your telepho
confirm successful registration.
SIP Domain (Proxy Server)
10.0.0.100
Default port is 5060. To specify a differe
Monitor "Ring" event on registered
None
Ring Extension
Authentication ID
Authentication Password
The device will detect inbound ring events on this extension and play tone (and multicast if configured) until the
Page Extension
2065
Authentication ID
2065
Authentication Password
The device will auto-answer any inbound call received on this extension and provide a voice paging path (and multicast if co
192.168.254.19:5070
Use the IP Address of YOUR XBLUE server not this one… but the PORT number is required (:5070)
15
(from XBLUE server Voice/Phone/Phone Extension "Phone Number"
15
Password for 15
16
16
Password for 16



192.168.254.19:8850/#
IP3022(V2) Configurati…
https://184.179.8.72:65…
Research
Xblue networks
X-25 Smart Configuration
This is where all that came from
Wizard
Device Info
Advanced Setup
Wireless
Voice
Phone
Phone Extension
Programmable keys
Trunk
System
Voicemail
NAT Traversal
Registered Phone
X25S 4COLA Info
Management
Maintenance
Logout
removed from the system.
No.
Phone Number
Password
Display Name
MAC Binding
Day COS
Night COS
PickUp Group
Xblue Phones Only
1 10 00:19:15:6f:eb:ee Enable
2 11 00:19:15:e4:5a:18 Enable
3 12 00:19:15:d9:a9:ae Enable
4 13 00:19:15:e2:2c:ea Enable
5 14 00:19:15:dd:18:30 Enable
6 15 Disable
7 16 Disable
8 Enable
9 Enable
10 Enable
11 Enable

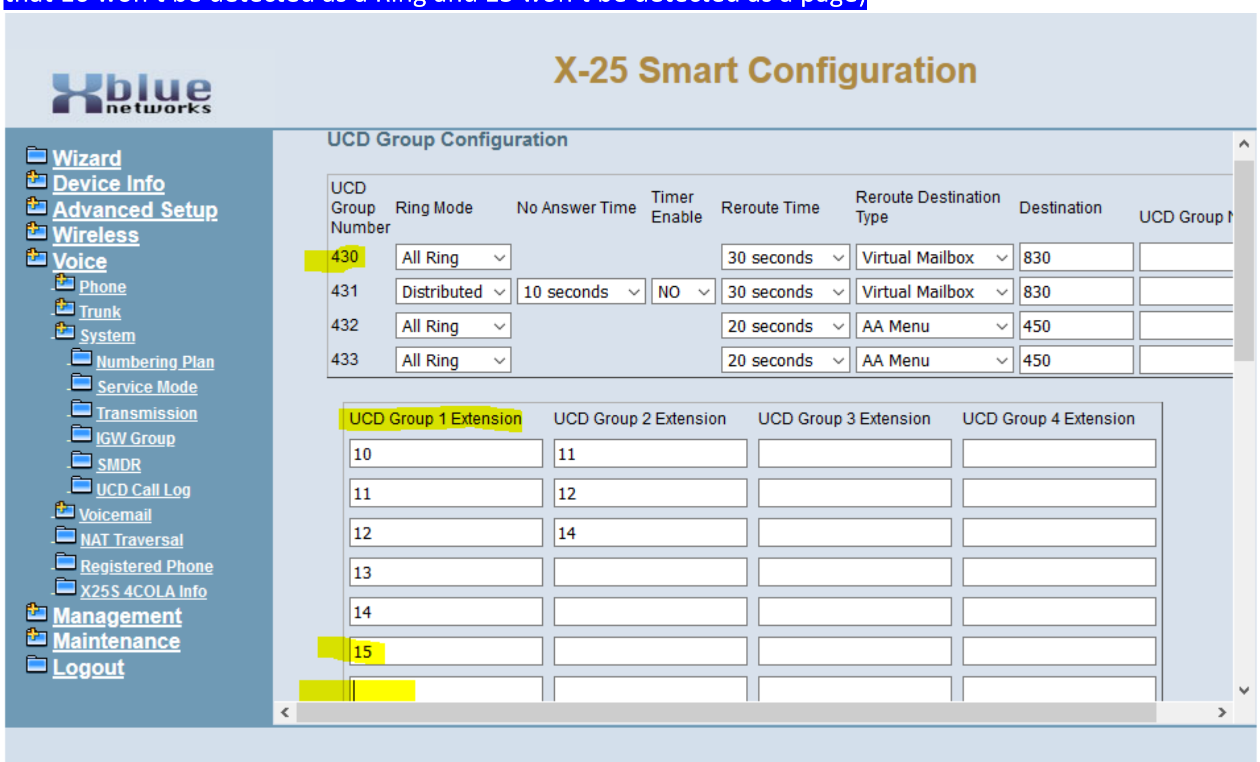
Set ringing for 15:

Go to Voice/System/Numbering Plan and click on Configuration button for UCD Group:



XBLUE set all ringing phones in UCD Group 1

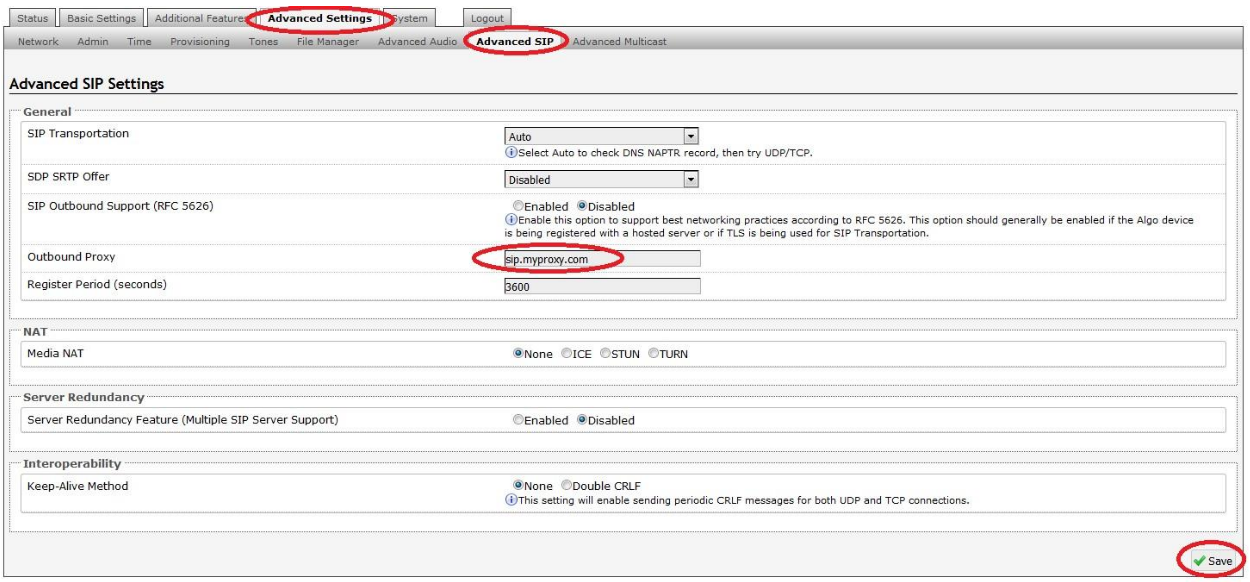
Make sure that 15 is in the Group and 16 is not. (I'm not sure how the Algo will behave but this makes sure that 16 won't be detected as a Ring and 15 won't be detected as a page)



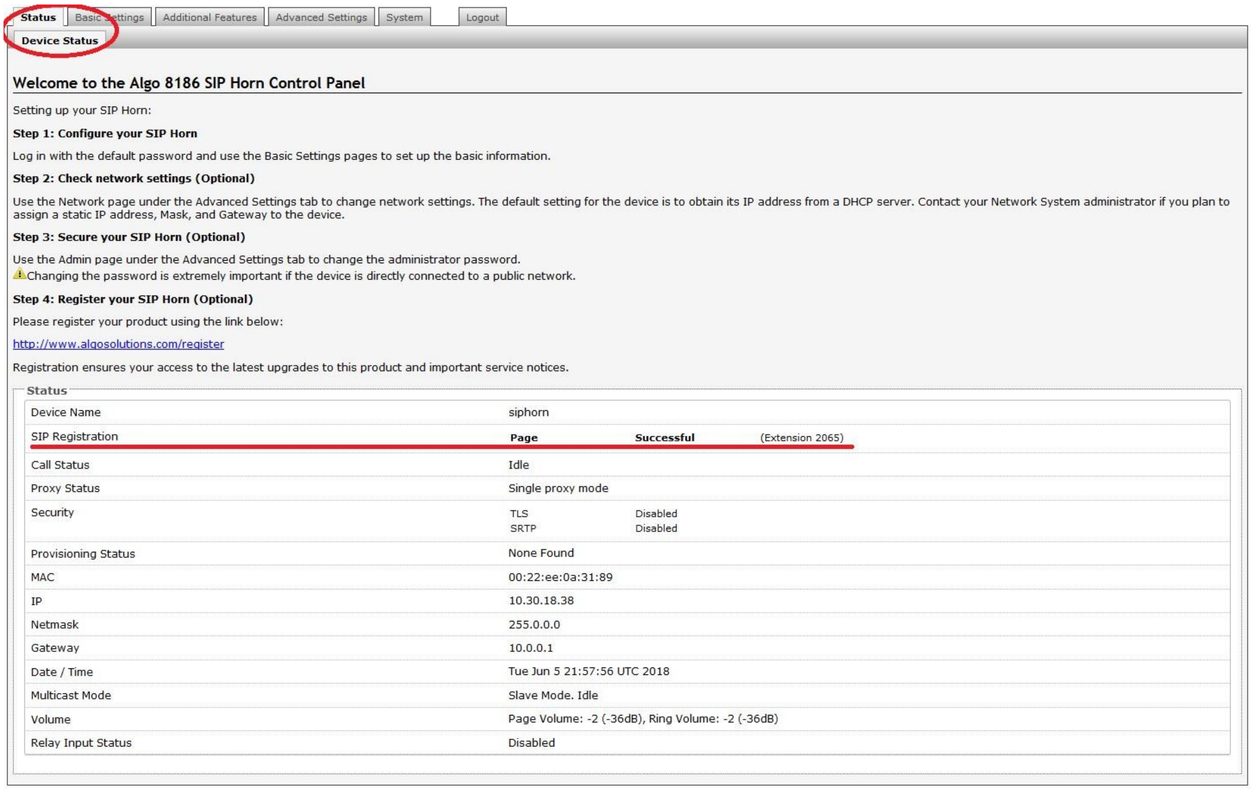
You should be able to call Ext 16 and do a page announcement, and the loudspeaker should ring

Note: Algo SIP speakers and the 8301 paging adapter support two types of SIP extensions. A Page Extension auto-answers for voice page announcements. A Ring Extension plays an audio WAV file (e.g. ring tone, alert announcement, etc.). It is not required that you register both extensions for a device to register. Leave blank the appropriate extension if only registering a single extension. For converting and uploading a custom WAV files, reference the Tone Conversion Guide.

5. (Not mandatory) If the service provider uses an **Outbound Proxy**, enter its address under **Advanced Settings** -> **Advanced SIP**.



6. Check SIP Registration Status. If the status is not "Successful", read the Troubleshooting section below.



7. Call to the endpoint by dialling its Page / Ring extension

Troubleshooting

SIP Registration Status = "Rejected by Server"

Meaning: The server receives Register packets from the endpoint and responds with an unauthorized message.

- Ensure the credentials (extension, authentication ID, password) on the device match on the Server.
- Under Basic Settings -> SIP, click on the blue circular arrows to the right of the Password field. If the Password is not what it should be, the web browser is probably autofilling the password field. If so, any change on a page containing a password could be filled in with an undesired string.
- Many VoIP Phone Systems don't accept more than 1 device registered to an extension. Make sure that the endpoint is registering with an extension that is not being used by any other device.
- Check the System Log (System -> System Log tab). If you see "500 Server Internal Error", it often this means that this is not actually the correct address/port for the SIP server (although the server does know enough to reject the request).

- Lastly, if the Extension and Authentication ID are not the same, copy & paste the Extension to Authentication ID.

SIP Registration Status = “No reply from server”

Meaning: the device is not able to communicate across the network to the phone server.

- Double check the "SIP Domain (Proxy Server)", under Basic Settings -> SIP tab field is filled out correctly with the address of your server and port number.
- Check if the service provider uses an Outbound Proxy. If so, enter it under Advanced Settings -> Advanced SIP
- Ensure the firewall (if present) is not blocking the incoming packets from the server.

Registration Drops Constantly

- Enable the Keep-alive method. Navigate to Advanced Settings -> Advanced SIP, set Keep-alive to "Double CRLF" and set the period to 30 seconds.

Appendix

Cisco Call Manager

A step-by-step guide can be found at the address below:

http://www.algosolutions.com/pdf/Cisco%20CUCM%2012.0%20Config%20Guide%20for%20Algo%208186%20SIP%20Horn%20Speaker.pdf.

When registering two or more extensions to a single 3rd party SIP endpoint in CUCM, it must be configured using as "Third Party Advanced" as opposed to "Third Party Basic". This will allow more than one extension per MAC address. Configuration as Basic is only designed for one extension.

It will be necessary to delete the basic extension and reconfigure, because it cannot be changed into Advanced after it's created.

Nextiva

Extension field is the SIP Username and Authentication ID is Authentication Name.

Vonage

- Alerter/Speaker/Horn - https://businesssupport.vonage.com/articles/answer/Algo-Alerter-1002
- Doorphone - https://businesssupport.vonage.com/articles/answer/Algo-Doorphone-1003

RingCentral

To provision an Algo unit on RingCentral platform, log in to the online administration portal, go to "Phone & Devices" -> "User Phones". Click "+ Add Device". On step 3 "Buy Phones" choose "Other phones" and "Existing Phone". Keep following the steps until the end.

Once this is completed, click on "Setup & Provision" -> "Other Phones". Copy and paste the credentials on the Algo Endpoint:

- Ring Central User Name is entered into the Extension field
- Ring Central Authorization ID is entered into the Authentication ID field • Ring Central Password is entered into the Password field

The SIP Domain must be: sip.ringcentral.com:5060

Outbound Proxy must be: sip20.ringcentral.com:5090 or sip10.ringcentral.com:5090

If RingCentral provides a different port number than what is referenced above, try their values first.

Note: a SIP endpoint may also be configured as Paging Device and assigned to a Group on the RingCentral platform.

Digium

On the Digium platform follow the path below:

Setup -> Manage -> Modify extension -> Phone Settings -> Common Settings -> Phone Password

Extension field on the Algo endpoint = extension number

Authentication ID field on the Algo endpoint = extension number