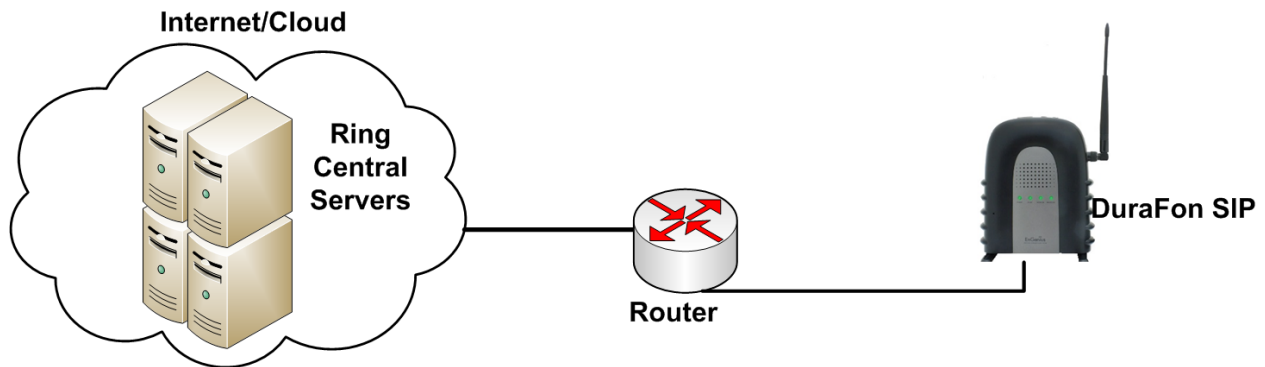# How to setup a DuraFon SIP with a Ringcentral Account

Below is the network topology for this setup guide. Note that the router has opened the appropriate ports for the DuraFon SIP to establish communication with RingCentral cloud servers and vice versa.

Note: In order for this setup to work the Gateway (router at the demark), must be properly configured for the Ringcentral cloud services to establish a connection and operate properly. Please consult with the networking equipment vendor in order to ensure the networking equipment is properly configured.

Below is the RingCentral support atricule on ports that need to be open for their cloud services to operate:

https://success.ringcentral.com/articles/en_US/RC_Knowledge_Article/9233

Below is an example RingCentral account information that needs to be input into the DuraFon SIP GUI is order for the DuraFon SIP to work with Ringcentral cloud services.

Field	Value
SIP Domain	sip.ringcentral.com:5060
Outbound Proxy	sip10.ringcentral.com:5090
Username	18887357888
Password	ABcDEFG
Authorization ID	1555867530942

First step is for the SIP base unit to be placed on the proper subnet. The LAN settings are found under System>LAN. Below is an example of the screen to perform this function.

Note: Before proceeding to the next steps please register all DuraFon SIP handsets to the system that are going to be utilizing the SIP accounts.

Note: Please refer to the DuraFon SIP FAQ on the default IP address of the DuraFon SIP default IP address.

After registering the DuraFon SIP handsets that will require SIP accounts to the DuraFon SIP base unit, the next step is to configure the SIP accounts in the DuraFon SIP base unit. This is found under VoIP>Basic.

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Below is the entire basic SIP options under VoIP>Basic. Below are the highlighted fields that need to be changed from default in order for the DuraFon SIP base unit to successfully communicate with the Ringcentral could services.

Single Base

VoIP Server IP	sip.ringcentral.com
VoIP Server Port	5060 (5060-5080) ☑ Indicating Server Port **1**
VoIP Dial Mode	RFC 2833 ▼ ☑ Enable Terminate Key
Primary Codec	G.711 u-law ▼
Secondary Codec	G.729 ▼
SIP Transport	Automatic ▼
STUN	Off ▼
External IP	199.255.120.146 **2**
QoS	On ▼
DNS SRV	Off ▼
Allow SDP NAT Rewrite	Off ▼
Local SIP Port	5060 (1-65535)
Local RTP Port	20000 (even number between 1024-65000)
RTP Ptime	20 ms ▼
SIP Outbound Proxy	sip10.ringcentral.com **3**
SIP Outbound Proxy Port	5090 (1-65535)
User-Agent Headers	SIP-UA/DuraFon
Registration Expire	360 (30-65535 seconds)
MWI Subscribe	Off ▼
Session Timer	On ▼
Call Hold Type	RFC 3264 ▼
NAT Keep Alive Method	Disable ▼
NAT Keep Alive Interval	15 (15-200 seconds)

[Apply] [Cancel]

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Fields #1:

As you can see the values entered in these fields are the SIP Domain and port number provided by the SIP provider.

VoIP Server IP	sip.ringcentral.com
VoIP Server Port	5060 (5060-5080) ☑ Indicating Server Port

Field #2:

This is derived from the list of Ringcentral Supernets listed in the Ringcentral KB link on page #1.

| Table 2. RingCentral Supernets	
Region	Supernet
USA	104.245.56.0/21 192.209.24.0/21 199.68.212.0/22 199.255.120.0/22 208.87.40.0/22
EUROPE	185.23.248.0/22
ASIA	103.44.68.0/22

External IP	199.255.120.146

Fields #3:

These values are derived from the outbound proxy information provided by the SIP provider.

SIP Outbound Proxy	sip10.ringcentral.com
SIP Outbound Proxy Port	5090 (1-65535)

Next is to setup the account information. This is under VoIP>Account Settings page.

✕ VoIP

Basic

Account Setting

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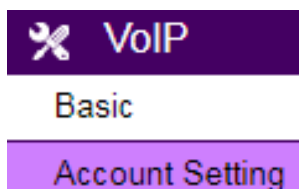
Click the edit button next to the handset ID you wish to configure with the SIP account settings.

After clicking the Edit button the User Information Settings page will be displayed.

Field A:

The value in this field is the same as the username value provided by Ringcentral
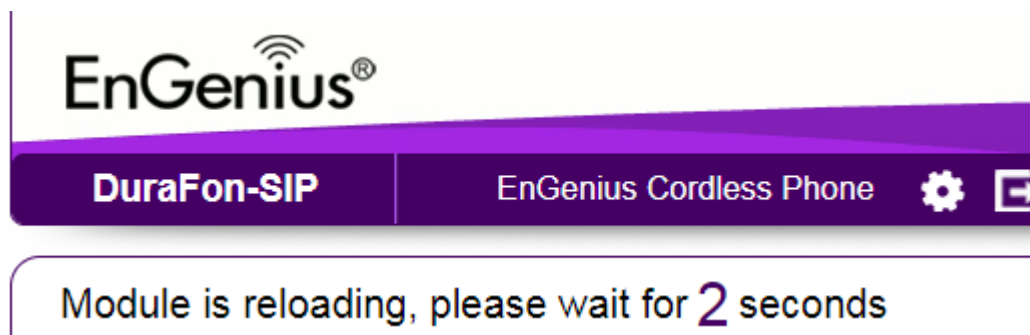
Field B:

The value in this field is the same as the Authorization ID value provided by Ringcentral

Field C:

The value in this field is the same as the Password value provided by Ringcentral

After entering in these fields, click the Apply button and you should see a quick countdown timer similar to the one displayed below.

Below is what should display after entering the values in the User Information Settings page.
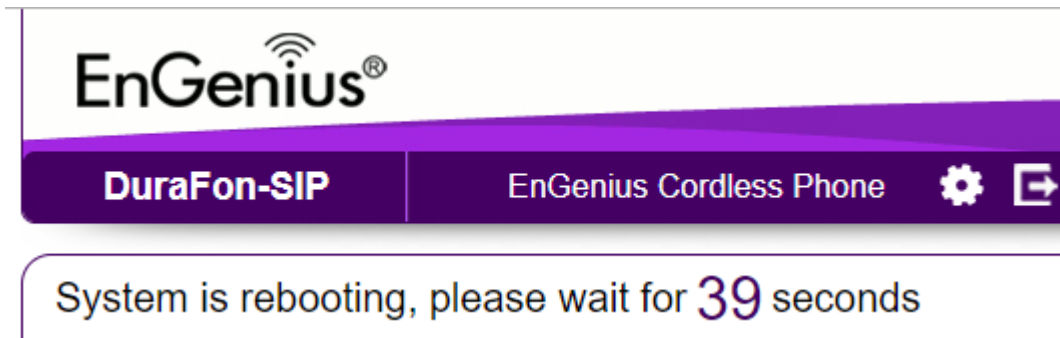
HS ID	BS-Reg Status	SIP Number	Display Name	SIP-Reg Status	Account Active	Action	
10	🟢	18887357888	10	⚫	Enable	Edit	Release

Note: The SIP number now displays the value entered in field A, and the Account Active field is set to enable, but the status indicator under SIP-Reg Status is still not green.

Next is to scroll all the way to the bottom of the page below the Group Acc fields and click the Apply button.
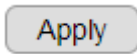
Apply

After clicking the Apply button a longer count down timer is displayed. At this time the DuraFon SIP base unit will reboot.

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System is rebooting, please wait for 39 seconds

After the DuraFon SIP base unit reboots, and after you log back into the base unit you should see the SIP Reg Status green.

HS ID	BS-Reg Status	SIP Number	Display Name	SIP-Reg Status	Account Active	Action	
10	🟢	18887357888	10	🟢	Enable	Edit	Release

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