

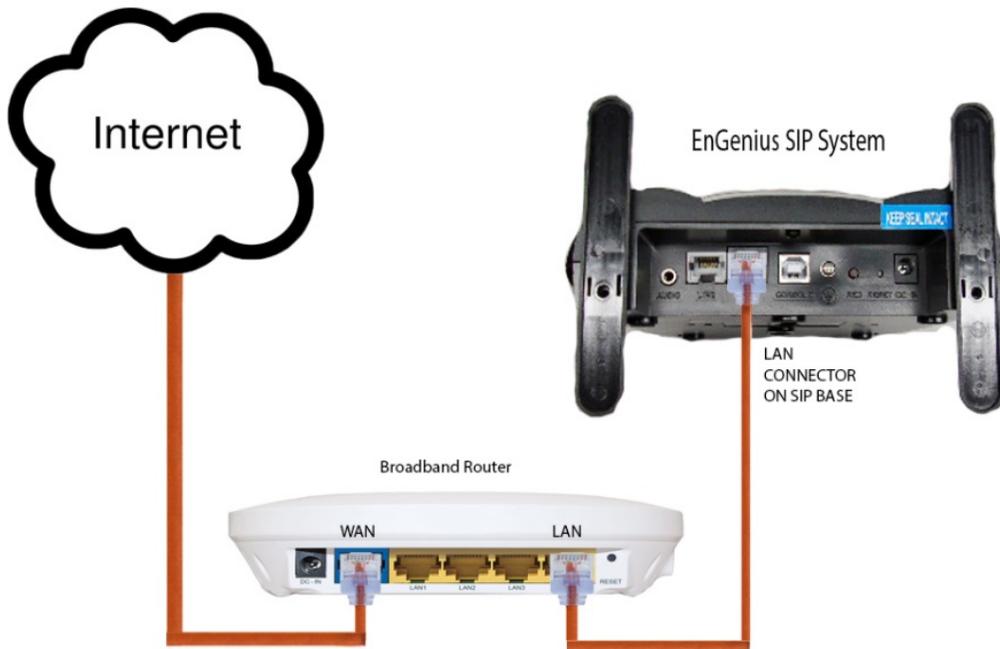


How to Configure an EnGenius DuraFon SIP System with ONSIP Sip Service.

First you will need the following Hardware Equipment.



1. EnGenius DuraFon SIP System



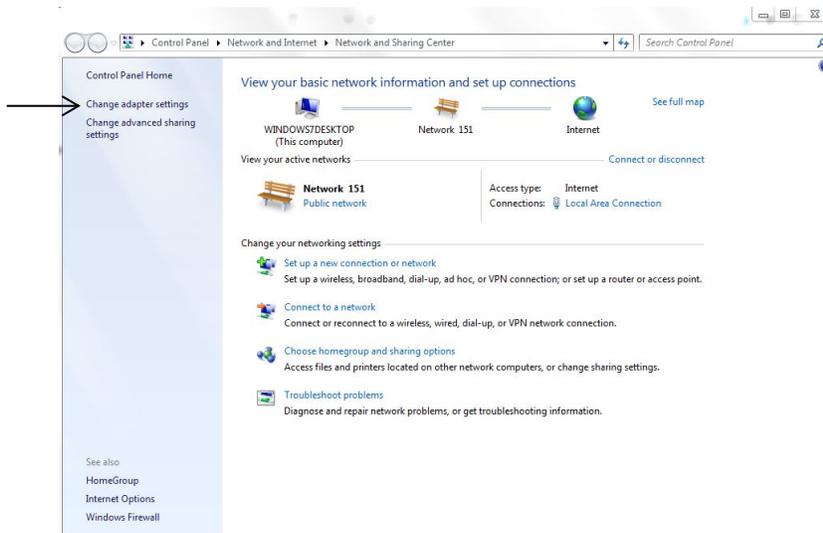
2. Broadband Router with Internet Access

Once everything is setup and connected, you are ready to setup the SIP Service.

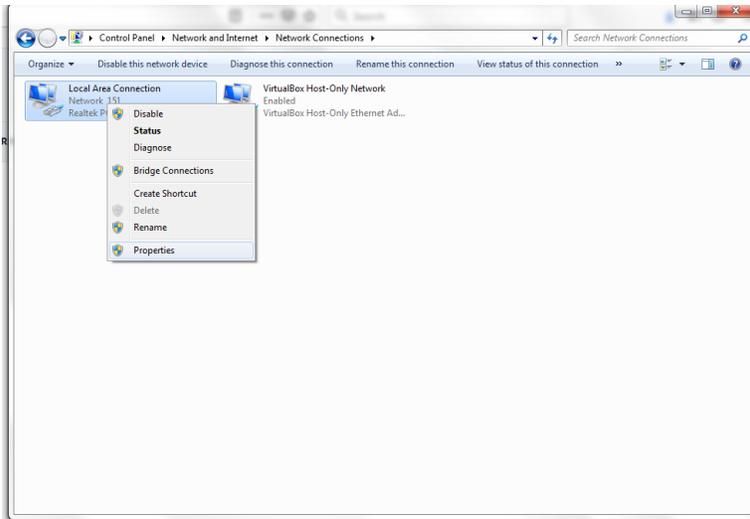
Logging into SIP Base unit Gui

FIRST you will need to change the LAN settings on the computer that is going to be used to setup the SIP Base Station.

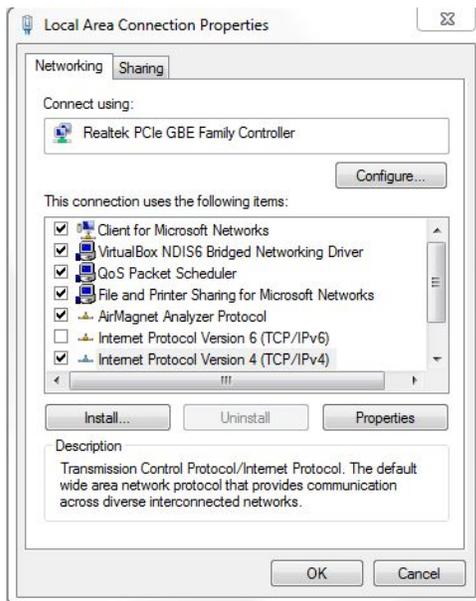
1. Go to the Network and sharing Center and click on “Change adapter settings”



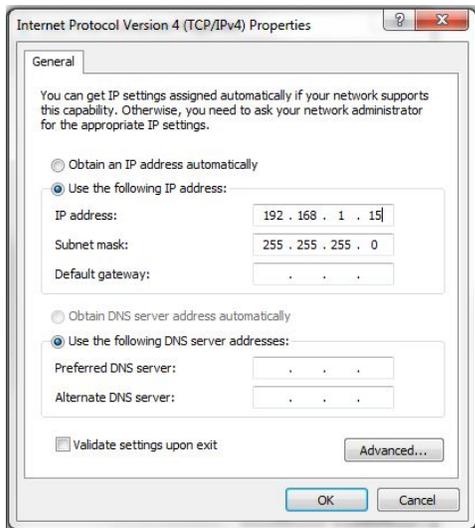
2. Right click on Local Area Connection and go to Properties



3. Select the internet protocol version 4 (TCP/IPv4)



4. Select: Use the following IP address (also known as a static IP address)



Input: **192.168.1.15** for the IP address and **255.255.255.0** for the subnet mask and press OK.

You are now ready to configure the EnGenius DuraFon SIP System.

Registration of Handsets

Before setting the SIP configuration, the available handset(s) of the DuraFon-SIP must register to the base.

Register Handset:

- (1) Press and hold the register key on the base until the "INTERCOM" LED changes to a flashing status. The base can perform the handset registration while the LED is flashing.
- (2) On handset, enter "MENU, 7,1" to enter the registration.
- (3) The assigned ID (from 10 to 19) will be displayed on handset LCD, indicating successful registration.
- (4) Repeat the above steps for all additional handsets.

Once you have successfully registered your handsets to the base unit, you can now go ahead and Login to the SIP Base Unit

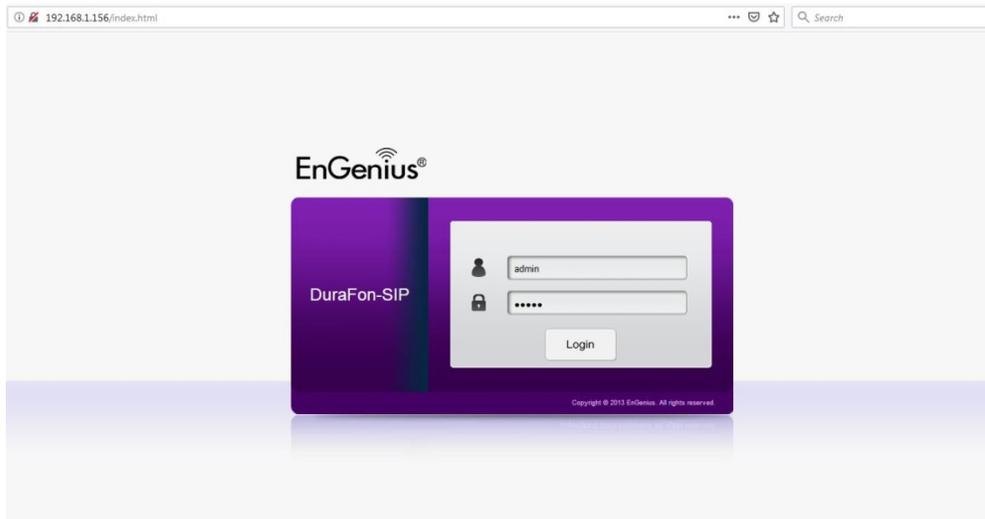
Go to any of your preferred Internet Browser (Internet Explorer/Firefox/Safari/Chrome) and enter the

IP Address: 192.168.1.156

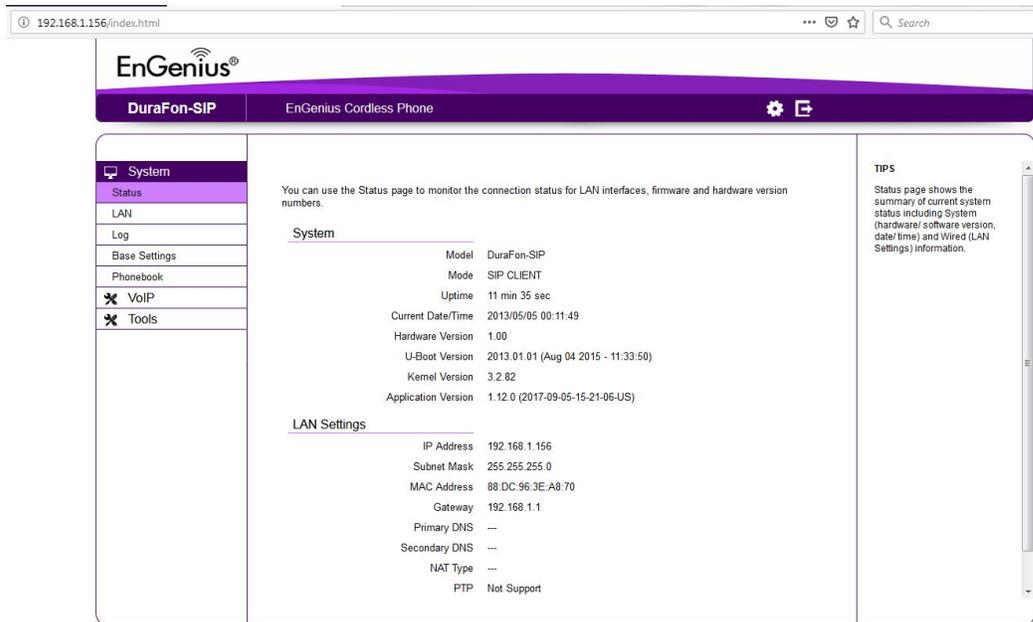
Once prompted to the EnGenius DuraFon SIP Log in page type:

Username: admin

Password: admin

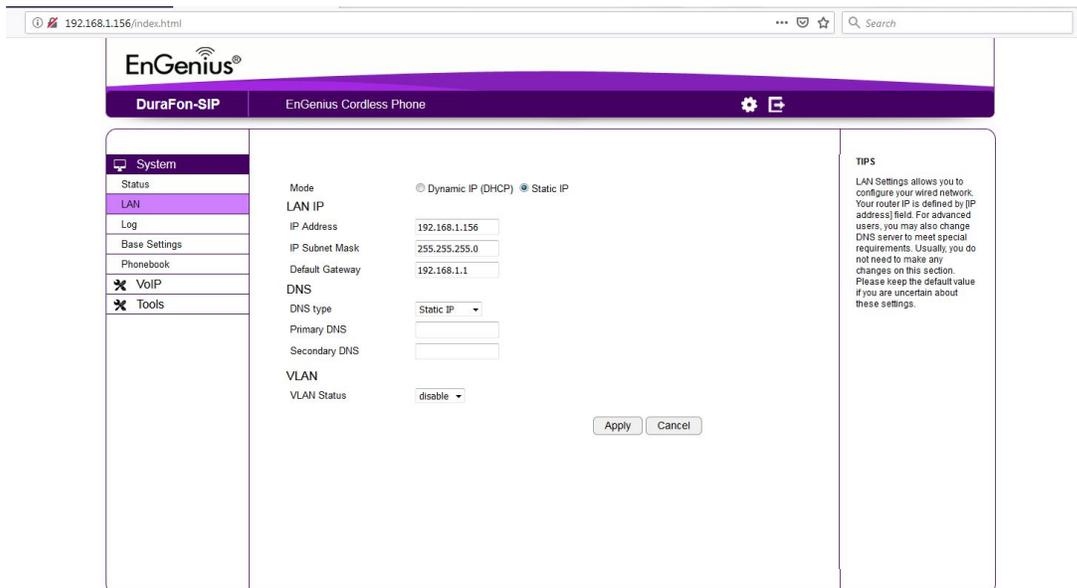


Once you have entered the correct username and password, click the Login button to open the web-base configuration page.



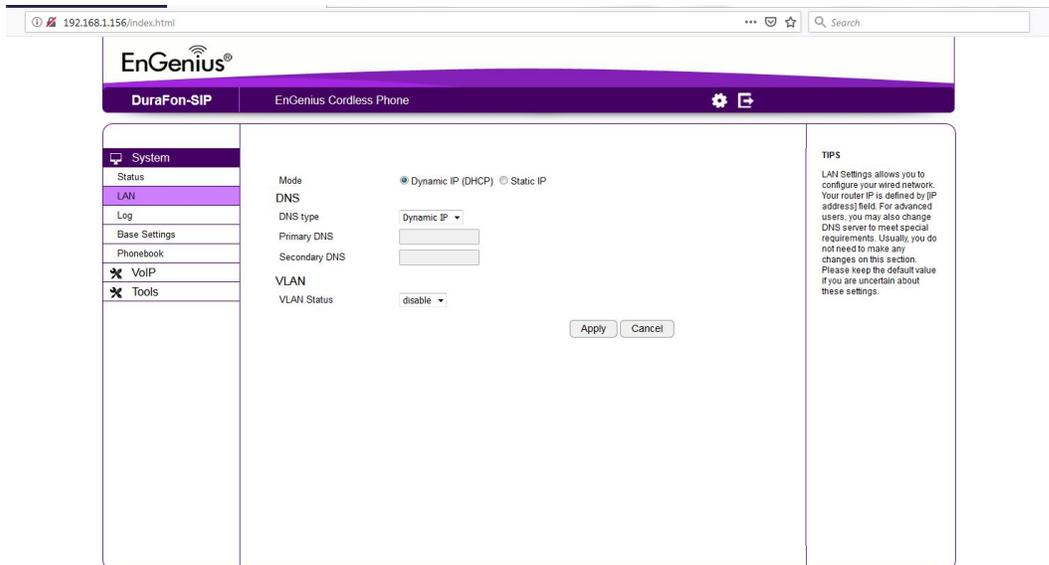
The screenshot shows the EnGenius DuraFon-SIP web interface. The browser address bar displays '192.168.1.156/index.html'. The page title is 'EnGenius Cordless Phone'. A left-hand navigation menu includes 'System', 'Status', 'LAN', 'Log', 'Base Settings', 'Phonebook', 'VoIP', and 'Tools'. The 'Status' page is active, displaying system and LAN information. The 'System' section lists: Model (DuraFon-SIP), Mode (SIP CLIENT), Uptime (11 min 35 sec), Current Date/Time (2013/05/05 00:11:49), Hardware Version (1.00), U-Boot Version (2013.01.01 (Aug 04 2015 - 11:33:50)), Kernel Version (3.2.82), and Application Version (1.12.0 (2017-09-05-15-21-06-US)). The 'LAN Settings' section lists: IP Address (192.168.1.156), Subnet Mask (255.255.255.0), MAC Address (88:DC:96:3E:A8:70), Gateway (192.168.1.1), Primary DNS (---), Secondary DNS (---), NAT Type (---), and PTP (Not Support). A 'TIPS' box on the right explains that the Status page shows a summary of current system status, including System (hardware/software version, date/time) and Wired (LAN Settings) information.

Go to the LAN Tab settings

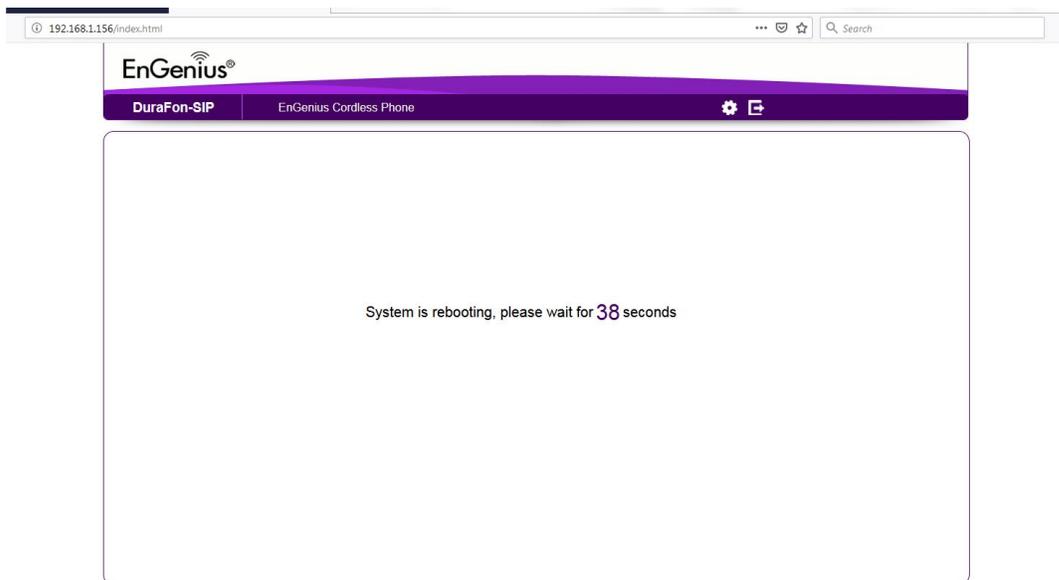


The screenshot shows the EnGenius DuraFon-SIP web interface with the 'LAN' settings page selected. The browser address bar displays '192.168.1.156/index.html'. The left-hand navigation menu is the same as in the previous screenshot. The 'LAN' settings page is active, showing configuration options for the network. The 'Mode' is set to 'Static IP' (selected with a radio button). The 'LAN IP' section includes input fields for IP Address (192.168.1.156), IP Subnet Mask (255.255.255.0), and Default Gateway (192.168.1.1). The 'DNS' section includes a dropdown for 'DNS type' (set to 'Static IP'), and input fields for 'Primary DNS' and 'Secondary DNS'. The 'VLAN' section includes a dropdown for 'VLAN Status' (set to 'disable'). 'Apply' and 'Cancel' buttons are located at the bottom right of the settings area. A 'TIPS' box on the right explains that LAN Settings allows configuration of the wired network, noting that the router IP is defined by the (IP address) field and that advanced users may also change the DNS server to meet special requirements. It advises that changes should not be made unless necessary and that default values should be kept if uncertain.

As shown, its default setting is on Static IP address.
It is recommended to set the LAN in DHCP mode



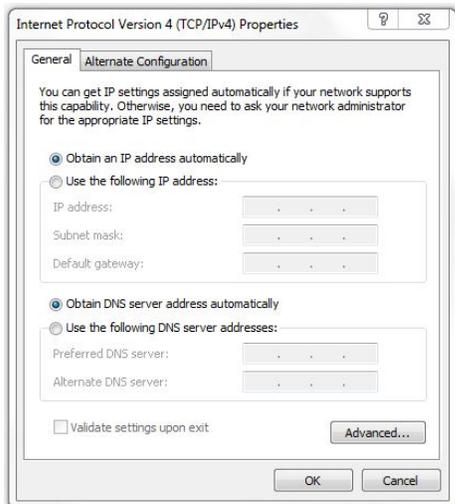
Once you click apply, it will reboot the device for 39 seconds



Note: When you change the LAN IP to DHCP, once you click Apply, the change will take effect. You will need to revise your new IP Address from the DHCP Clients on your network.

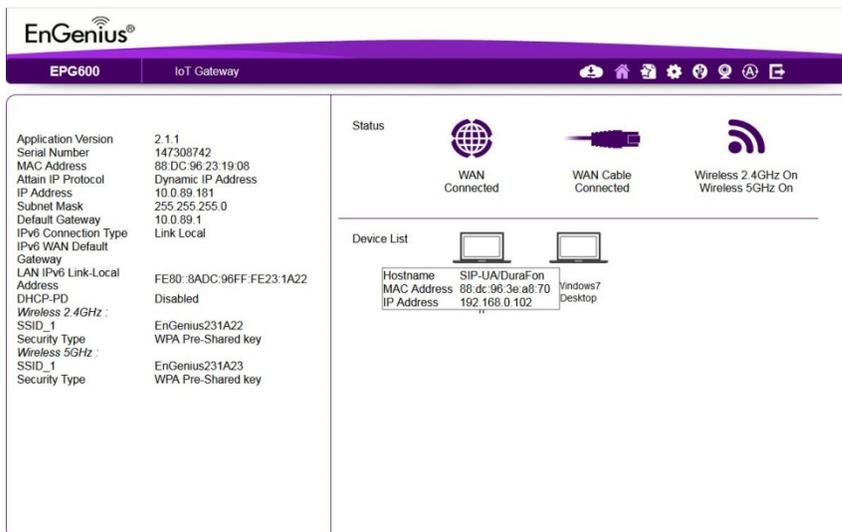
Go back to the TCP/IP properties tab and select

- Obtain an IP address automatically
- Obtain DNS server address automatically

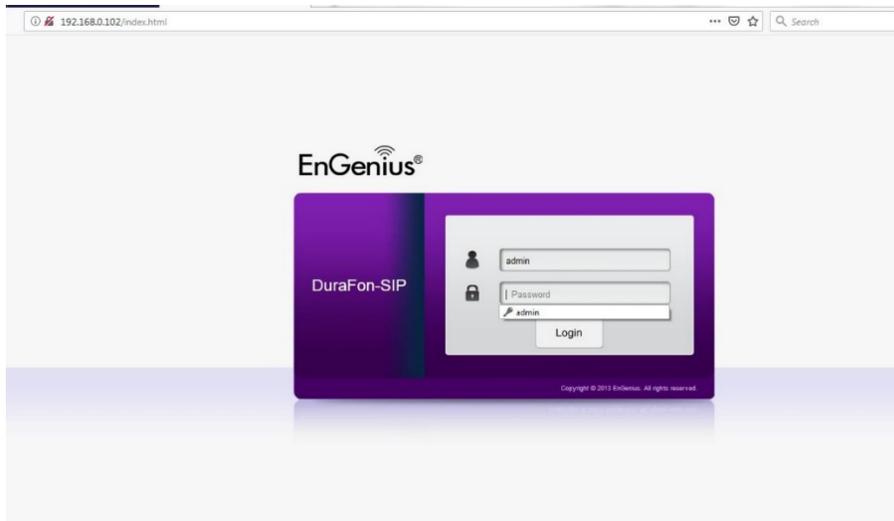


With this step, you will be able to log in to your EnGenius DuraFon SIP base through DHCP.

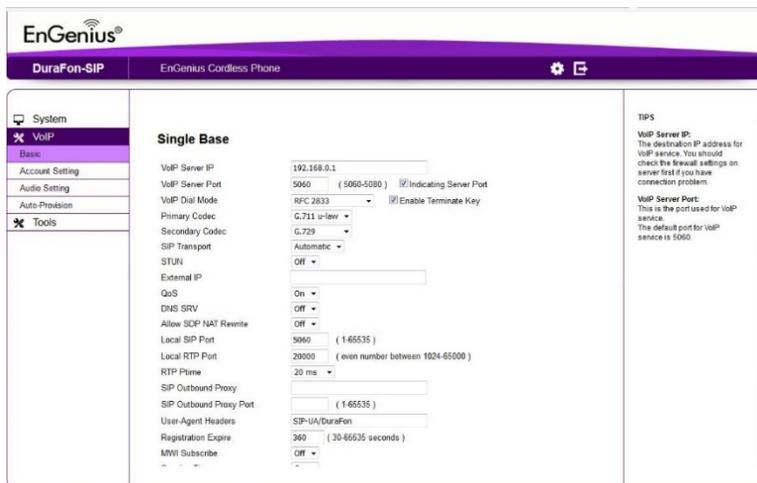
For demonstration purposes, we have used an example of an EnGenius Router, where it showed us the DHCP Client list and our new DHCP IP address to access the Durafon SIP base unit.



Once obtained the new IP address, we can log in and continue with our setup.



Once you are on the main menu, click on the VoIP Tab and click on the Basic Tab.



In this section, is where you will need to setup your SIP Account Service information, in this case we will be using our ONSIP Service.

***The key information needed to establish connection with the OnSip Service are the following:**

VoIP Server IP: engenius.onsip.com
VoIP Server Port: 5060
Local Sip Port: 5060
SIP Outbound Proxy: sip.onsip.com
SIP Outbound Proxy Port: 5060

The screenshot shows the EnGenius DuraFon-SIP configuration interface. The left sidebar contains a menu with 'System', 'VoIP', 'Basic', 'Account Setting', 'Audio Setting', 'Auto-Provision', and 'Tools'. The 'VoIP' section is selected, and the 'Single Base' configuration page is displayed. The settings are as follows:

Setting	Value
VoIP Server IP	engenius.onsip.com
VoIP Server Port	5060 (5060-5080) <input checked="" type="checkbox"/> Indicating Server Port
VoIP Dial Mode	RFC 2833 <input checked="" type="checkbox"/> Enable Terminate Key
Primary Codec	G.711 u-law
Secondary Codec	G.729
SIP Transport	Automatic
STUN	Off
External IP	
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 Ptme	20 ms
SIP Outbound Proxy	sip.onsip.com
SIP Outbound Proxy Port	5060 (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)

At the bottom of the configuration area are 'Apply' and 'Cancel' buttons. On the right side, there is a 'TIPS' section with the following text:

VoIP Server IP:
The destination IP address for VoIP service. You should check the firewall settings on server first if you have connection problem.

VoIP Server Port:
This is the port used for VoIP service. The default port for VoIP service is 5060.

***Everything else stays default, unless requires by the VoIP service provider**

Once you have entered the correct information, you can press APPLY.

***Please note that the information used in this section is for demonstration purposes, you will need to have a SIP Account Service Provider (In this case we used OnSIP Hosted PBX) or a SIP server to set this up.**

Now Go to the Account Setting Tab.

The screenshot shows the EnGenius DuraFon-SIP web interface. The top navigation bar includes the EnGenius logo, 'DuraFon-SIP', 'EnGenius Cordless Phone', and a settings icon. The left sidebar contains a menu with 'System', 'VoIP', 'Basic', 'Account Setting', 'Audio Setting', 'Auto-Provision', and 'Tools'. The main content area displays a 'User List' table with columns for HS ID, BS-Reg Status, SIP Number, Display Name, SIP-Reg Status, Account Active, and Action. The table lists 19 individual users and 3 group accounts, all with 'Disable' status. The 'Action' column for each row contains 'Edit' and 'Release' buttons. To the right of the table is a 'TIPS' section with explanatory text for various status indicators.

HS ID	BS-Reg Status	SIP Number	Display Name	SIP-Reg Status	Account Active	Action
10	●	10	10	●	Disable	Edit Release
11	●	11	11	●	Disable	Edit Release
12	●	12	12	●	Disable	Edit Release
13	●	13	13	●	Disable	Edit Release
14	●	14	14	●	Disable	Edit Release
15	●	15	15	●	Disable	Edit Release
16	●	16	16	●	Disable	Edit Release
17	●	17	17	●	Disable	Edit Release
18	●	18	18	●	Disable	Edit Release
19	●	19	19	●	Disable	Edit Release
Group Acc						
1	●	20	Group1	●	Disable	Edit Release
2	●	21	Group2	●	Disable	Edit Release
3	●	22	Group3	●	Disable	Edit Release

TIPS
 You can specify the SIP account according to SIP server for each handset. The handset ID from 10 to 19 is provided by the base automatically after doing registration. You can give one SIP account associated with the handset ID.
BS-Reg Status
 Indication of the HS registers with BASE station or not.
SIP Number
 This is the SIP number name displayed on VoIP user's SIP contact list. Administrator can modify the display name in this page.
Display Name:
 This is the display name displayed on VoIP user's SIP contact list. Administrator can modify the display name in this page.
SIP-Reg Status
 This item displayed the VoIP user connected status.
Account Active:
 This item displayed the account active status.
Action:

In this section, is where your SIP Account Users (Extensions) will need to be registered.

Up to 10 Sip Accounts can be registered on an EnGenius DuraFon SIP Base Unit.

***By default, all accounts are disabled, as you add accounts, you will need to enable them as you go.**

Please follow the following steps to add SIP Accounts.

1. Press the edit tab under the "Action menu".
2. Once you are in the user information settings, the fields that need to be filled are the following"

1. **SIP Number:** In this field you will type in your **“Username”** given by the On Sip service provider.
2. **Display Name:** In this field you can input any name you wish; this will be like the caller id name it will show on the recipient’s phone screen.
3. **Auth Name:** In this field, is where you input the Auth Username given by the SIP Provider.
4. **Password:** In this field you will input the password supplied by the SIP Service, In this case the SIP PASSWORD on your OnSIP Account.

The screenshot displays the EnGenius DuraFon-SIP web interface. The top navigation bar includes the EnGenius logo, 'DuraFon-SIP', 'EnGenius Cordless Phone', and a settings icon. A left sidebar menu lists 'System', 'VoIP', 'Basic', 'Account Setting', 'Audio Setting', 'Auto-Provision', and 'Tools'. The main content area is titled 'User Information Settings' and contains the following fields and options:

- SIP Number: repair
- Display Name: repair
- Auth Name: engenius_doug
- Password: *****
- Account Active: Enable Disable

Below these fields are 'Apply' and 'Cancel' buttons. On the right side, there is a 'TIPS' section with the following text:

TIPS
You can specify the SIP account according to SIP server for each handset. The handset ID from 10 to 19 is provided by the base automatically after doing registration. You can give one SIP account associated with the handset ID.

BS-Reg Status
Indication of the HS registers with BASE station or not.

SIP Number
This is the SIP number name displayed on VoIP user's SIP contact list. Administrator can modify the display name in this page.

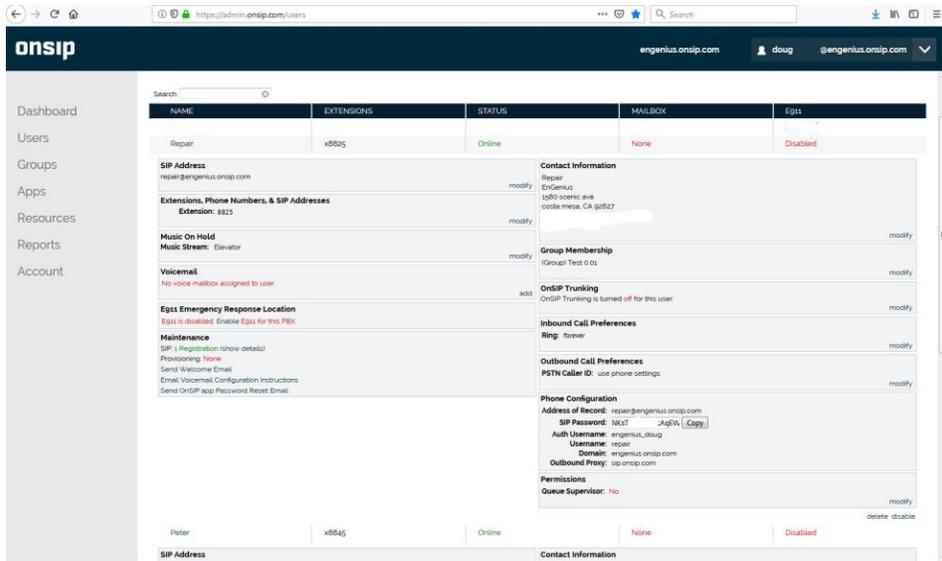
Display Name:
This is the display name displayed on VoIP user's SIP contact list. Administrator can modify the display name in this page.

SIP-Reg Status
This item displayed the VoIP user connected status.

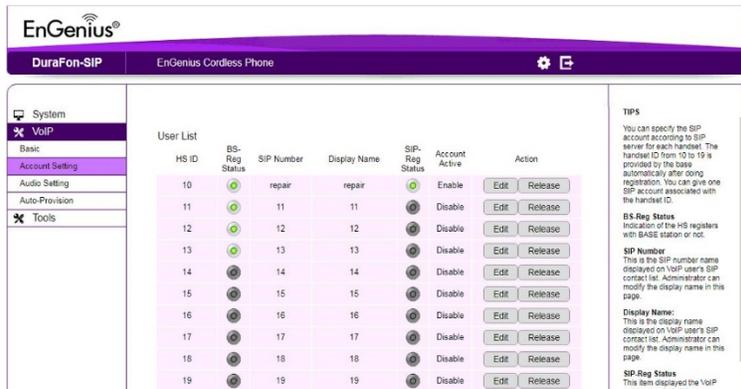
Account Active:
This item displayed the account active status.

Active

In the window below, it shows the OnSIP account information setting.



Once you have inputted the correct Log In information press **Apply**
 If you successfully inputted the information, you should get a green light on **"SIP- Reg Status"**. This indicates that the account is active.



Scroll Down and Press "APPLY" to save all changes.

EnGenius®
DuraFon-SIP EnGenius Cordless Phone

13		13	13		Disable	Edit	Release
14		14	14		Disable	Edit	Release
15		15	15		Disable	Edit	Release
16		16	16		Disable	Edit	Release
17		17	17		Disable	Edit	Release
18		18	18		Disable	Edit	Release
19		19	19		Disable	Edit	Release
Group Acc							
1		20	Group1		Disable	Edit	Release
2		21	Group2		Disable	Edit	Release
3		22	Group3		Disable	Edit	Release
4		23	Group4		Disable	Edit	Release
5		24	Group5		Disable	Edit	Release
6		25	Group6		Disable	Edit	Release
7		26	Group7		Disable	Edit	Release

Apply

SIP Number
This is the SIP number name displayed on VoIP user's SIP contact list. Administrator can modify the display name in this page.

Display Name:
This is the display name displayed on VoIP user's SIP contact list. Administrator can modify the display name in this page.

SIP-Reg Status
This item displayed the VoIP user connected status.

Account Active:
This item displayed the account active status.

Action:
Edit - To edit the VoIP account setting.
Release - Release this account to default settings.

You have successfully registered a SIP account, if you need to add more Sip Accounts extensions, follow the steps.