

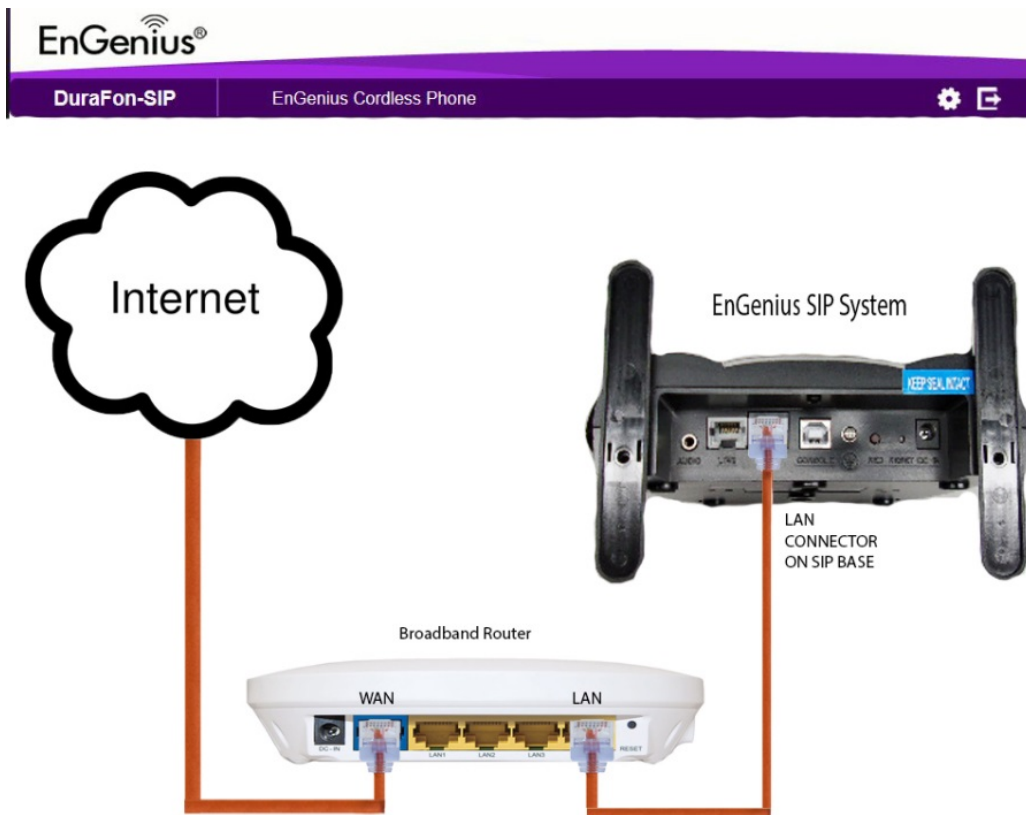


# How to Configure an EnGenius DuraFon SIP System with ONSIP Sip Service.

First you will need the following Hardware Equipment.



## 1. EnGenius DuraFon SIP System



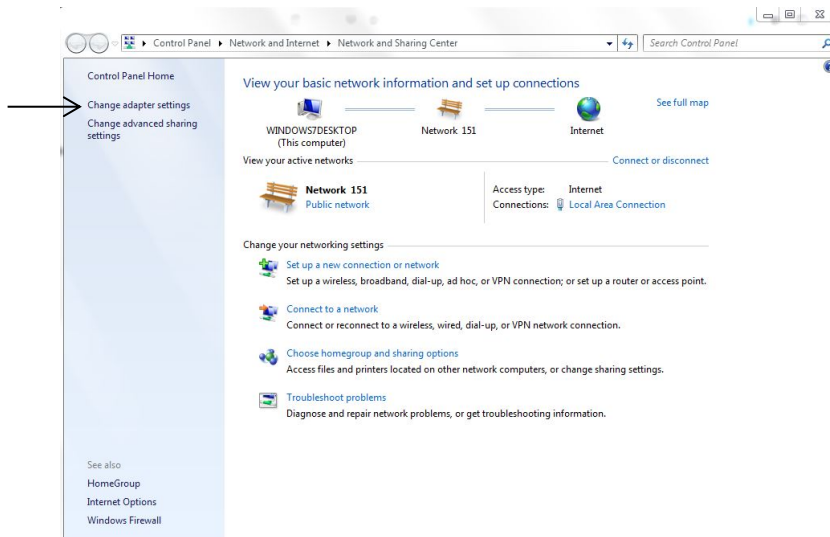
## 2. Broadband Router with Internet Access

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

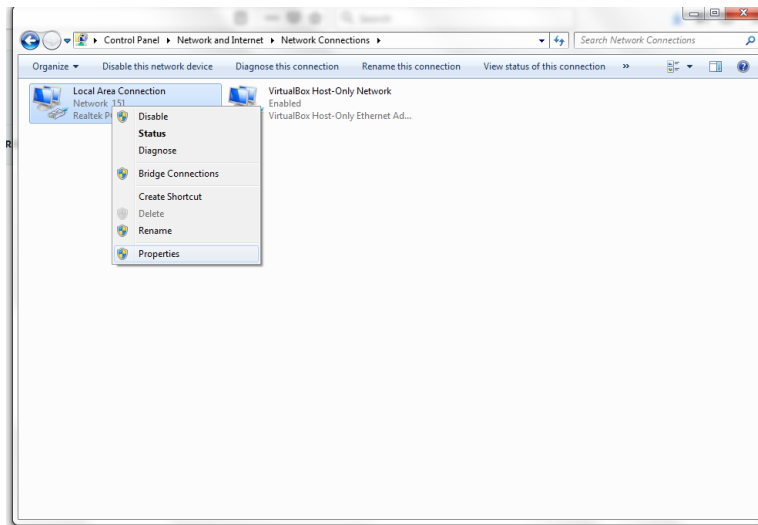
# Logging into SIP Base unit Gui

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

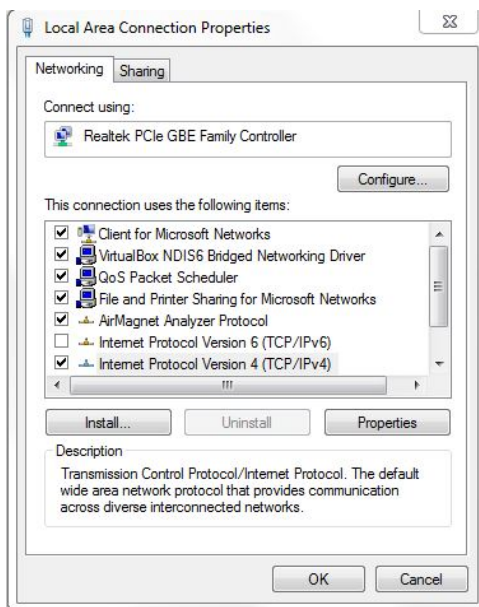
1. Go to the Network and sharing Center and click on “Change adapter settings”



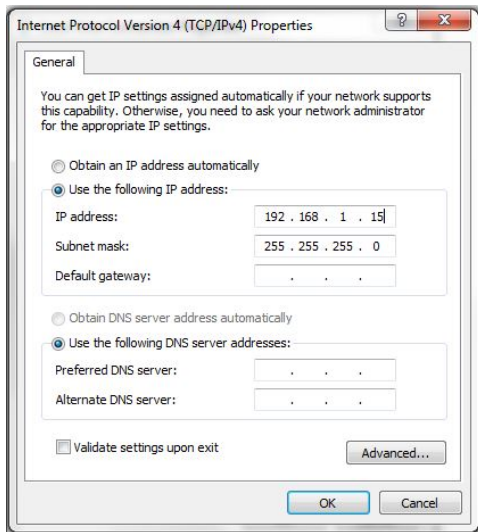
2. Right click on Local Area Connection and go to Properties



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

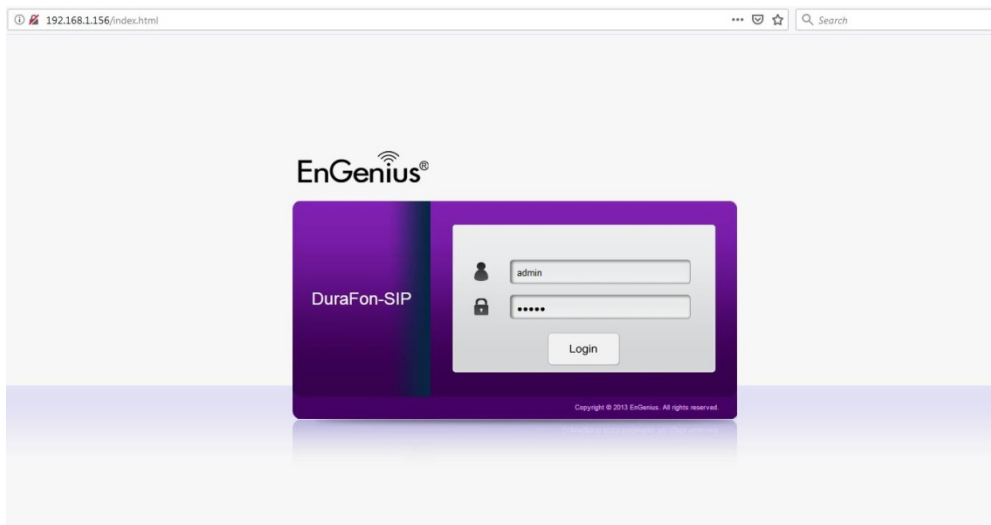
Go to any of your preferred Internet Browser (Internet Explorer/Firefox/Safari/Chrome) and enter the

**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.

192.168.1.156/index.html

EnGenius®

DuraFon-SIP EnGenius Cordless Phone

**System**

Status

LAN

Log

Base Settings

Phonebook

VoIP

Tools

You can use the Status page to monitor the connection status for LAN interfaces, firmware and hardware version numbers.

**System**

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
Application Version	1.12.0 (2017-09-05-15-21-06-US)

**LAN Settings**

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	---
PTP	Not Support

**TIPS**

Status page shows the summary of current system status including System (hardware/software version, date/time) and Wired (LAN Settings) information.

Go to the LAN Tab settings

192.168.1.156/index.html

EnGenius®

DuraFon-SIP EnGenius Cordless Phone

**System**

Status

**LAN**

Log

Base Settings

Phonebook

VoIP

Tools

Mode ☐ Dynamic IP (DHCP) ☒ Static IP

**LAN IP**

IP Address

IP Subnet Mask

Default Gateway

**DNS**

DNS type

Primary DNS

Secondary DNS

**VLAN**

VLAN Status

Apply Cancel

**TIPS**

LAN Settings allows you to configure your wired network. Your router IP is defined by (IP address) field. For advanced users, you may also change DNS server to meet special requirements. Usually, you do not need to make any changes on this section. Please keep the default value if you are uncertain about these settings.

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



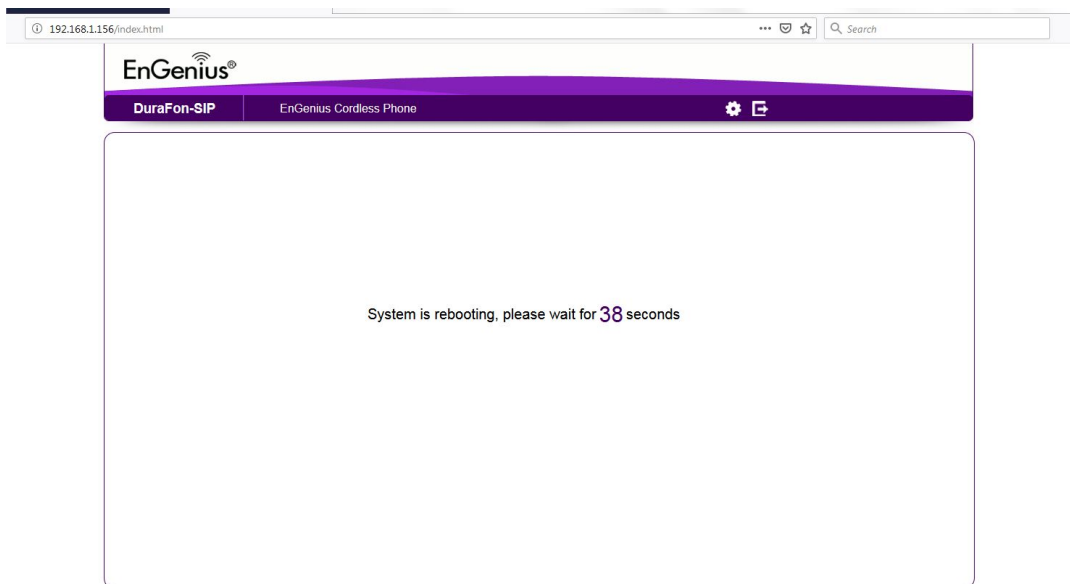
The screenshot shows the EnGenius DuraFon-SIP web interface. The browser address bar displays '192.168.1.156/index.html'. The interface has a purple header with the EnGenius logo and 'DuraFon-SIP' and 'EnGenius Cordless Phone' tabs. A left sidebar contains a menu with 'System' (selected), 'Status', 'LAN', 'Log', 'Base Settings', 'Phonebook', 'VoIP', and 'Tools'. The main content area is titled 'LAN' and contains the following settings:

- Mode: ☒ Dynamic IP (DHCP) ☐ Static IP
- DNS type:
- Primary DNS:
- Secondary DNS:
- VLAN:
- VLAN Status:

At the bottom right of the settings area are 'Apply' and 'Cancel' buttons. On the far right, a 'TIPS' section provides information about LAN settings.

**TIPS**  
LAN Settings allows you to configure your wired network. Your router IP is defined by [IP address] field. For advanced users, you may also change DNS server to meet special requirements. Usually, you do not need to make any changes on this section. Please keep the default value if you are uncertain about these settings.

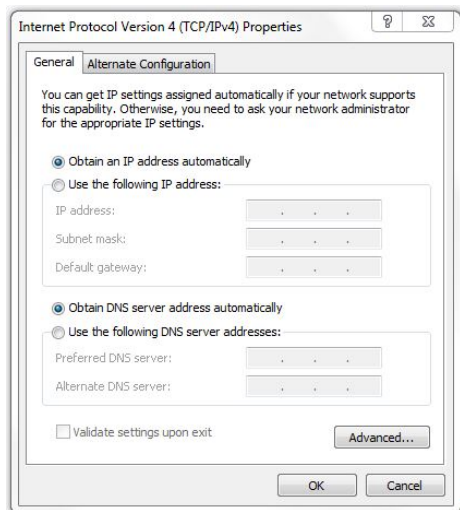
Once you click apply, it will reboot the device for 39 seconds



**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.**

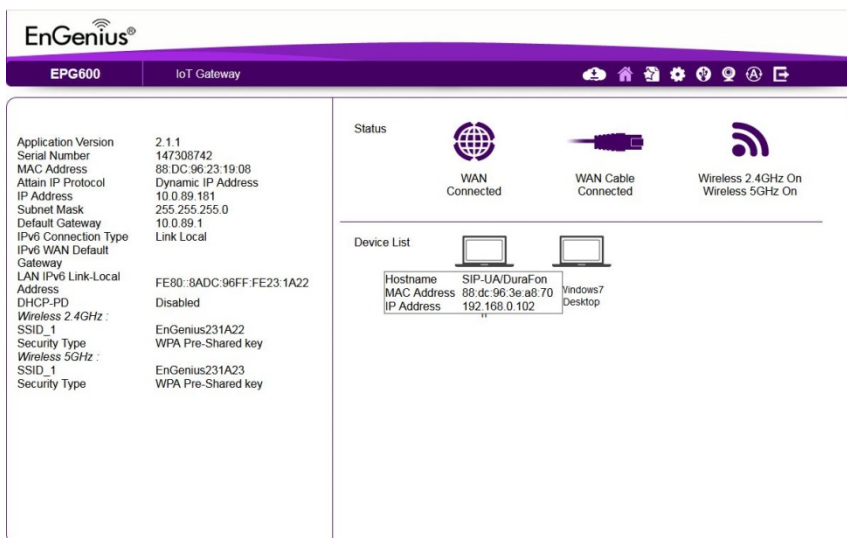
Go back to the TCP/IP properties tab and select

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

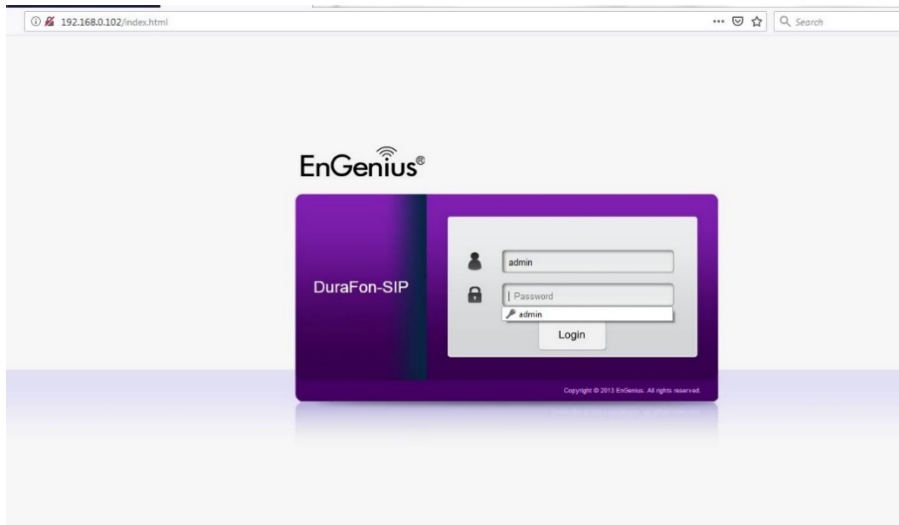


With this step, you will be able to log in to your EnGenius DuraFon SIP base through DHCP.

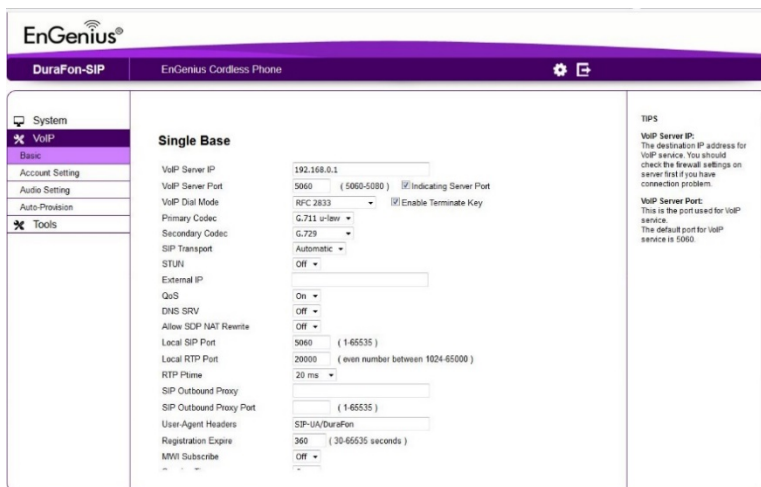
For demonstration purposes, we have used an example of an EnGenius Router, where it showed us the DHCP Client list and our new DHCP IP address to access the DuraFon SIP base unit.



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 Ptime	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 right of the configuration area are 'Apply' and 'Cancel' buttons. On the right side of the interface, 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.

DuraFon-SIP

EnGenius Cordless Phone

System

**VoIP**

Basic

Account Setting

Audio Setting

Auto-Provision

**Tools**

User List

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

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 header includes the EnGenius logo and the text 'DuraFon-SIP' and 'EnGenius Cordless Phone'. A left sidebar contains navigation links: System, VoIP (selected), Basic, Account Setting (highlighted), Audio Setting, Auto-Provision, and Tools. The main content area is titled 'User Information Settings' and contains the following fields:

- SIP Number: repair
- Display Name: repair
- Auth Name: engenius\_doug
- Password: (masked with asterisks)
- Account Active: ☒ Enable ☐ Disable

Below these fields are 'Apply' and 'Cancel' buttons. On the right side of the interface, 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.

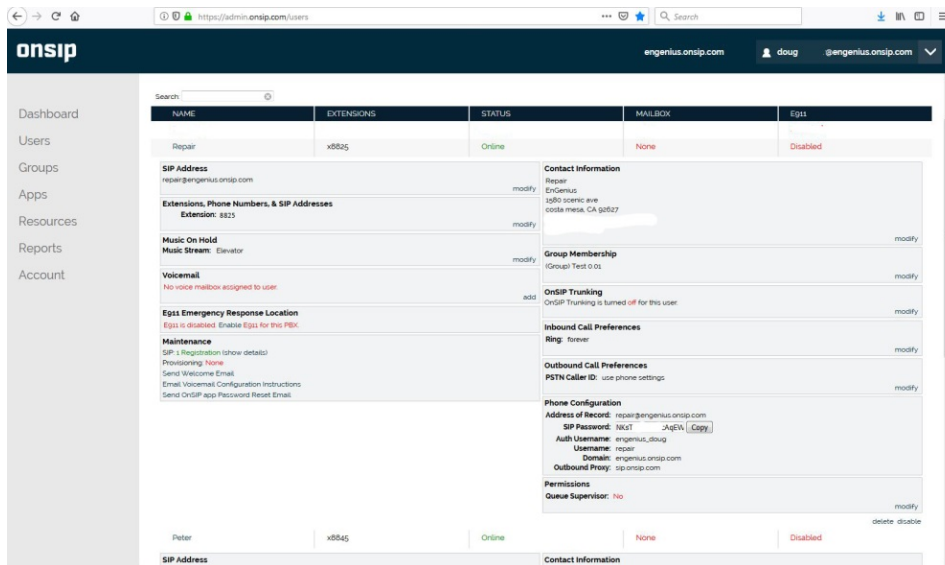
**Display Name:**  
This is the display name displayed on VoIP user's SIP contact list. Administrator can modify the display name in this page.

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

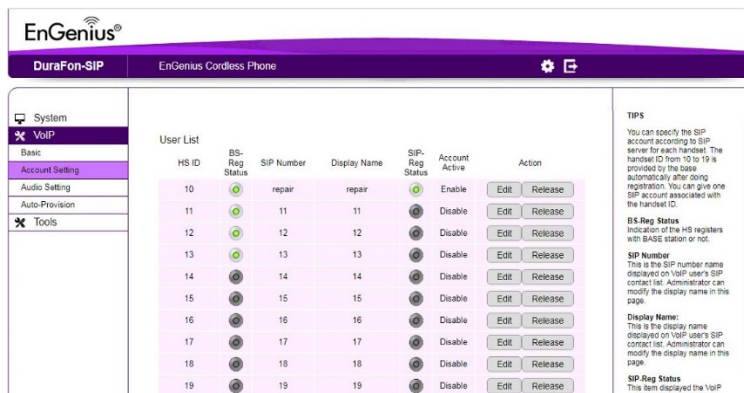
**Account Active:**  
This item displayed the account active status.

At the bottom of the tips section, the word 'Active' is visible.

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.

DuraFon-SIP
EnGenius Cordless Phone

13

13

13

Disable

Edit

Release

14

14

14

Disable

Edit

Release

15

15

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Disable

Edit

Release

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16

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Disable

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Group3

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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.