EnGenius Wireless Bridge Configuration

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The following is a procedure for setting up an EnGenius Wireless Bridge in **_WDS Mode_**.

Models used in this scenario are:

(1) ENS500EXT – Acting as an AP (Access Point) for the remote ENS500s.

(4) ENS500 –   Hard wired to remote SIP endpoint and communicating wirelessly
with the ENS500EXT.

A Maximum of (4) ENS500s may be used with the (1) ENS500EXT.

If using multiple ENS500EXT units it is recommended that they be placed to allow 100ft between them.

Maximum expected range from ENS500 to ENS500EXT is 700 – 800 ft.
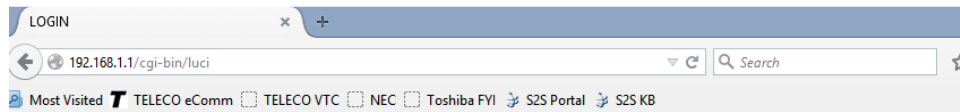(Dictated by environment.)

STEP-BY-STEP

Open a browser and log in to the ENS(XXX).

       Default Log In:
            (IP Address -- 192.168.1.1)
            (UserName -- "admin")
            (Password – "admin")

From the menu on the left side of the screen:

System > Operation Mode

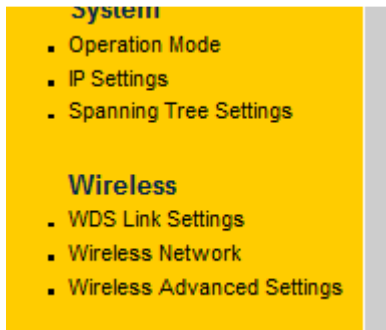In the System Properties window choose "WDS" and "Bridge."

Click on "Save and Apply" and wait for changes to upload.

You should now see a new section on the left Menu named "Wireless."

Click on "Wireless Network" and set Radio Channel.
(If applicable. Be sure to check local regulations)

Click on "Accept"

Wireless Network

Wireless Mode	802.11 A/N Mixed ⌄
Channel HT Mode	40MHz ⌄
Extension Channel	Lower Channel ⌄
Channel / Frequency	Ch120-5.6GHz ⌄

[Accept] [Cancel]

From the menu on the left side of the screen:

Wireless Link Settings

In the Mode Column dropdown shoose "Enable."

Enter the MAC address of the ENS500EXT you will be connecting to.

(In the ENS500EXT you will Enable and enter MAC addresses of all of the ENS500s that will connect to it.)

Click on Accept.

WDS Link Settings

Security	None
WEP Key		40/64-bit(10 hex digits)
AES Passphrase	(8-63 ASCII characters or 64 hexadecimal digits)

ID	MAC Address	Mode
1	88 : DC : 96 : 29 : C1 : 50	Enable
2	: : : : :	Disable
3	: : : : :	Disable
4	: : : : :	Disable

Accept   Cancel

From the menu on the left side of the screen:

System > IP Settings

Enter IP and DNS information.

Click on Accept.

IP Settings

System Information

IP Network Setting	◯ Obtain an IP address automatically (DHCP) ⦿ Specify an IP address
IP Address	192 . 168 . 33 . 244
IP Subnet Mask	255 . 255 . 255 . 0
Default Gateway	192 . 168 . 33 . 1
Primary DNS	192 . 168 . 33 . 1
Secondary DNS	8 . 8 . 8 . 8
Use Link-Local Address	☑
IPv6 IP Address	
IPv6 Subnet Prefix Length	
IPv6 Default Gateway	
IPv6 Primary DNS	
IPv6 Secondary DNS	

Accept   Cancel

From the menu on the left side of the screen:

Click on "Save/Reload:(x)" *(where (x) = the number of changes your are saving.)*

WDS Bridge

Status
- Save/Reload:9
- Main
- WDS Link List
- System Log

System
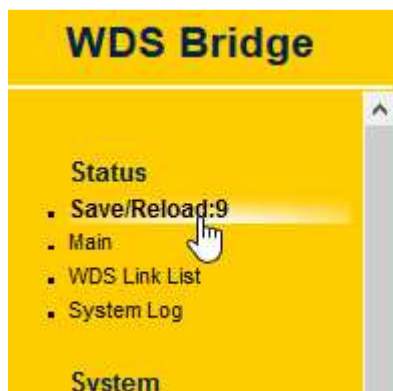
You will automatically be taken to the Save and Reload page.
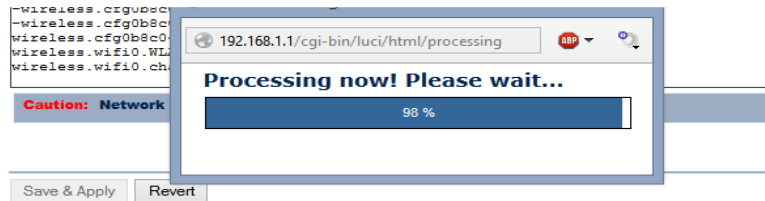Click "Save and Apply" and wait for changes to upload.

Save/Reload

Unsaved changes list

```
network.lan.gateway=192.168.33.1
network.lan.ipaddr=192.168.33.244
network.lan.dns=192.168.33.1 8.8.8.8
wireless.cfg0b8c04.WLANEnable=1
-wireless.cfg0b8c04.WLANWDSAESKey
-wireless.cfg0b8c04.WLANWDSWEPKey
wireless.cfg0b8c04.WLANWDSPeer=88DC9629C150v
wireless.wifi0.WLANExtChannel=1
wireless.wifi0.channel=120
```

Caution: Network Setting changed, redirect IP to 192.168.33.244

Save & Apply   Revert

```
-wireless.crgub8c
-wireless.cfg0b8c
wireless.cfg0b8c0
wireless.wifi0.WL
wireless.wifi0.ch
```

192.168.1.1/cgi-bin/luci/html/processing

Processing now! Please wait...

98 %

Caution: Network

Save & Apply   Revert

Unplug the LAN cable from your PC and the ENS500 will automatically switch to its wireless radio. Watch WLAN led on back of unit for status. When it goes solid it is online.

Connect to the ENS500EXT and go to "Link Status" on the left menu to verify that all ENS500 units are online. Link Status should show "UP."