



Adding a Third EZ-Bridge LT2 Unit

Summary: It's possible to mesh 3 to 5 EZ-Bridge individual units together to create a 3-5 way bridge. The throughput is reduced every time another unit is added so we recommend no more than 5 units configured like this to avoid poor performance. If you need more units, we recommend setting 1 unit as an AP and the other units as client units.

1. Change **WIRELESS BASIC SETTINGS** | **Mode** to **WDS** on the two original EZ-Bridge units.
2. The units should still be able to communicate with each other. Make sure you check connectivity using the e-zy.net Discovery Tool or pinging across the wireless link.
3. Setup the next unit (the third unit in our case). Set its mode to **WDS**. Set its channel to the same channel as the first two units. Make sure it has a unique IP address.
4. Change the WDS SECURITY on all 3 units. You access WDS Security by changing to Advanced Web, then **WIRELESS** | **WDS SETTINGS** then **SET SECURITY**. WPA2 is the best security but you can set the security to anything you desire. You can also disable the security. To set security choose an encryption type, then create a key. This has to be exactly the same on all units.
5. If the First unit is A and the second is B and the new third unit is C, and assuming that unit C is has the best line of site to unit A, we would add the MAC addresses of each unit in the peer unit's Current **WDS AP List** on the WDS Settings page as follows:

Unit A MAC into unit B and unit C **WDS AP List**
Unit B MAC into unit A **WDS AP List**
Unit C MAC into unit A **WDS AP List**

6. After entering the MACs into the **WDS AP List** table and if the units are on the same channel and have the same WDS security, they should all be bridged together. You can confirm by using the Discover Tool or pinging each IP address. You may need to power cycle the units after setup to clear any temporary settings.
7. The same concept will work for 3 to 5 units.

Note: If during the setup process you get stuck, it's best to take the units back to factory defaults and start over. You can reset to factory defaults on the **ADMIN** page and then click on **Reset To Defaults** button. You can also reset to factory defaults by powering up the unit, waiting at least 2 minutes, then pressing and holding the black reset button on the bottom of the unit for at least 15 seconds. Then wait for at least 2 minutes for reboot.

Addendum: Setting one or more WDS bridged units to provide Access Point Services to client devices.

1. If you want to setup one or more units as an AP (Access Point) so that devices like laptops or PDA or WiFi enabled phones can connect to the network, just change the unit to **AP+WDS** mode in the **WIRELESS BASIC SETTINGS** page. Please do this only after you have bridged the units successfully using WDS mode.
2. After making this change the unit should still be bridged to the other units through WDS. Check this using the Discovery Tool or pinging to the unit.
3. Set the AP side security by going to **WIRELESS** | **SECURITY SETTINGS**, choose an encryption and enter a key. Keep in mind that the security type you choose has to be compatible with the capabilities of the client devices that you want to use with the AP. Some client devices can only handle WEP encryption.
4. Set Your customized **SSID** on the **WIRELESS BASIC SETTINGS** page. This is the SSID that is seen when you perform a site survey on a client. It should be unique to you.
5. You should be able to connect to your new AP using your client device. You may need to power cycle the EZ-Bridge unit to clear any temporary settings.