XWO-BAP1/XWO-BKT1 Wireless Bridge Configuration

To configure a wireless bridge using two XWO-BAP1's, follow the directions on this page starting with the "Configure the ROOT Access Point"

The XWO-BKT1 is preconfigured with a wireless bridge on the 5 Ghz frequency band. To connect an additional XWO-BAP1 to a pair of bridged XWO-BAP1's, follow only the directions in the "Configure the REMOTE Access Point" section.

STEP 1: CONFIGURE THE ROOT ACCESS POINT

To get started, identify which XWO-BAP1 will be located at the ROOT location and which one will be at the REMOTE site. The ROOT access point will generally be the access point connected to the main part of the network.

Supply power to the ROOT AP only; the REMOTE AP should be left unpowered. The XWO-BAP1 default IP address will be 192.168.0.10. Your computer will need to be on the same 192.168.0.X subnet to access the AP.

Enter 192.168.0.10 in your browser and log in to the AP using "admin" for both User Name and Password.

✅ **SECURITY NOTE:** You will be required to change the default administrator password.

This will open the Quick Setup page. Decide if you want to setup the Bridge on the 2.4GHz or 5GHz frequency band. In the **Wireless Settings** for the frequency you choose, make the following changes:

1. Change **Operating Mode** from **Access Mode** to **WDS Mode**.
2. Enter the desired **Network Name (SSID)** you want to use for the bridge.
3. Change Security Mode from Open to WPA2-Personal.
4. Enter the desired PassPhrase for this SSID. Any connected clients will require this Passphrase.
5. Select the desired channel.
6. In the **Remote AP MAC Address** field, enter a false MAC address in this field so that the configuration can be saved. Use FF:FF:FF:FF:FF if you like. You'll return later for final configuration.
7. Select **Save** and then select **Apply**

DISABLE OR SECURE THE SSID

On the frequency you did NOT choose for the bridge, you should either disable or secure the SSID.

A. DISABLE THE SSID

Select Advanced Settings and Performance, then change the Wireless setting from On to Off, then Select Save and Apply.

B. SECURE THE SSID

Select the Quick Setup page, then the frequency with the Operating Mode configured as Access Mode, make the following changes:

1. Enter your desired Network Name (SSID).
2. Change the Security Mode from Open System to WPA2-Personal.
3. Enter your desired PassPhrase to secure the SSID.
4. Change the channel as needed.

ASSIGN THE IP ADDRESS

The last item to configure on the ROOT access point is the IP address. Even if you will use the 192.168.0.X network scheme, you still need to change the IP address because the REMOTE AP will have the same IP address once it's powered on. Choose an IP address unoccupied on the network so you can manage it later.

Select the Quick Setup page and make the following changes:

1. Enter an unused **IP Address** on your network/management VLAN.
2. Confirm that the **Subnet Mask** is correct.
3. Enter the **Default Gateway** for the subnet the access point will occupy.
4. Enter the **DNS Server** the access point should use.

Alternately, you can change the **DHCP Client** from **Disabled** to **Enabled** to allow the access point to use your DHCP server to acquire an IP address.

STEP 2: CONFIGURE THE REMOTE ACCESS POINT

Supply power to the REMOTE AP. The XWO-BAP1 default IP address will be 192.168.0.10. Your computer will need to be on the same 192.168.0.X subnet to access the AP.

Enter **192.168.0.10** in your browser and log in to the AP using "admin" for both User Name and Password. This will open the Quick Setup page.

✅ **SECURITY NOTE:** You will be required to change the default administrator password.

Select **Basic Settings**, then select **Wireless** to access the **Wireless Setup** page. Configure the access point as follows:

1. Choose the wireless frequency that matches the frequency that was used on the ROOT AP. The two must match for the bridge to function.

2. Change the **Mode** from **Access Point** to **WDS**.

3. Enter the same **SSID (Network Name)** you configured in the ROOT AP.

4. Select your desired **SSID Visibility**.

5. Configure **Auto Channel Selection** to match the configuration in the ROOT AP.

6. Configure **Channel** to match the configuration in the ROOT AP.

7. Configure **Channel Width** to match the configuration in the ROOT AP.

8. Configure the **WDS**. Select the **Scan** button and the system will retrieve the information from the ROOT. Select the button next to the **Channel** setting and the **Remote AP MAC** Address will automatically appear.

9. Change **Authentication** from **Open System** to **WPA2-Personal** and confirm that the **Passphrase** matches the ROOT AP's Passphrase configuration.

DISABLE OR SECURE THE SSID

On the frequency you did NOT choose for the bridge, you should either disable or secure the SSID.

A. DISABLE THE SSID

Select **Advanced Settings** and **Performance**, then change the **Wireless** setting from **On** to **Off**, then select **Save and Apply**.

B. SECURE THE SSID

Select the **Quick Setup** page, then in the frequency with the **Operating Mode** configured as **Access Mode**, make the following changes:

1. Enter your desired **Network Name (SSID)**.

2. Change the **Security Mode** from **Open System** to **WPA2-Personal**.

3. Enter your desired **PassPhrase** to secure the SSID.

4. Change the **Channel** as needed.

ASSIGN THE IP ADDRESS

The last configuration change to make on the REMOTE access point is the IP address. Even if you are using the 192.168.0.X network scheme, you should still change the IP address because any additional XWO-BAP1's will use the same default IP address. Choose an IP address unoccupied on the network so you can manage it later.

Select the Quick Setup page and make the following changes:

1. Enter an unused **IP Address** on your network/management VLAN.
2. Confirm that the **Subnet Mask** is correct.
3. Enter the **Default Gateway** for the subnet the access point will occupy.
4. Enter the **DNS Server** the access point should use.

Alternately, you can change the **DHCP Client** from **Disabled** to **Enabled** to allow the access point to use your DHCP server to acquire an IP address.

STEP 3: FINAL ROOT ACCESS POINT CONFIGURATION

With the REMOTE AP configured, you need to make one final change to the ROOT AP. Log back in to the ROOT access point and update the Remote AP MAC Address to match the MAC address created by the REMOTE AP's SSID.

Log in to the AP using the default "admin" for both User Name admin and Password, or your User Name and Password selections if you changed them.

✅ **SECURITY NOTE:** You will be required to change the default administrator password.

Select **Basic Settings** and **Wireless**.

Change the **Wireless Bandwidth** to the Frequency that your wireless bridge will use.

In the **WDS** section, you should see the fake **Remote AP MAC Address** you entered earlier. Highlight the entry and delete it.

In **Site Survey**, select the **Scan** button to scan for the **MAC Address** of the REMOTE AP.

The REMOTE access point information should be retrieved. Select the button next to the **Channel** setting and the REMOTE AP MAC Address should appear.

Select **Save** and then **Apply** at the bottom of the page.

Wireless Settings

Wireless Band	5GHz ▼
Mode	WDS ▼
Network Name (SSID)	Your_SSID_Here
SSID Visibility	Enable ▼
Auto Channel Selection	Disable ▼
Channel	153 ▼
Channel Width	Auto 20/40/80 MHz ▼

WDS

Remote AP MAC Address

1. A4:13:4E:42:29:CC 2. _____ 3. _____ 4. _____

Site Survey

Scan

	CH	RSSI	BSSID	Security	SSID
⦿	153	100%	A4:13:4E:42:29:CC	WPA2-PSK	Your_SSID_Here

Authentication   WPA-Personal ▼

PassPhrase Settings

WPA Mode	WPA2 Only ▼
Cipher Type	AES ▼ Group Key Update Interval 3600 (Sec)
PassPhrase	Luxul123
Confirm PassPhrase	Luxul123

notice: 8~63 in ASCII or 64 in Hex.
(0-9,a-z,A-Z,~!@#$%^&*()_+`-={}[];'\:"|,./<>?)

Save   Apply   Cancel