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WG102 – Wireless Repeating: Use and Configuration

CONFIGURATION – How to set up the access points:

The layout for this example will be a WG102 as the MASTER Access Point, and two other WG102 as REPEATER units for two areas in a building.

All the devices must use the exact same settings, with the exception of their IP address; for the IP address, use another unallocated address in the same subnet - Same SSID, same channel, same encryption, and so on. (All these settings can be found in the basic and wireless settings)

CONFIGURATION – Central "Master" unit:

Once this access point has its basic configuration set and you've confirmed it to be working properly, go to the 'Access Point Settings' section and verify it has no options selected.

Advanced Access Point Settings

Access Point Mode

☐ Enable Wireless Bridging and Repeating

   ○ Wireless Point-to-Point Bridge
     ☐ Enable Wireless Client Association
     Remote MAC Address [ ]:[ ]:[ ]:[ ]:[ ]:[ ]

   ○ Wireless Point to Multi-Point Bridge
     ☐ Enable Wireless Client Association
     Remote MAC Address 1 [ ]:[ ]:[ ]:[ ]:[ ]:[ ]
     Remote MAC Address 2 [ ]:[ ]:[ ]:[ ]:[ ]:[ ]
     Remote MAC Address 3 [ ]:[ ]:[ ]:[ ]:[ ]:[ ]
     Remote MAC Address 4 [ ]:[ ]:[ ]:[ ]:[ ]:[ ]

   ◉ Repeater with Wireless Client Association
     Parent AP MAC Address [ ]:[ ]:[ ]:[ ]:[ ]:[ ]
     Child AP MAC Address [ ]:[ ]:[ ]:[ ]:[ ]:[ ]

[Apply] [Cancel]

CONFIGURATION – Secondary "REPEATER" units:

Once this access point has its basic configuration set and you've confirmed it to be working properly, go to the 'Access Point Settings' section and enable wireless bridging and repeating, select 'Repeater with Wireless Client Association'.

Advanced Access Point Settings

Access Point Mode

☑ Enable Wireless Bridging and Repeating

○ Wireless Point-to-Point Bridge
    ☐ Enable Wireless Client Association
        Remote MAC Address   ☐ : ☐ : ☐ : ☐ : ☐ : ☐

○ Wireless Point to Multi-Point Bridge
    ☐ Enable Wireless Client Association
        Remote MAC Address 1   ☐ : ☐ : ☐ : ☐ : ☐ : ☐
        Remote MAC Address 2   ☐ : ☐ : ☐ : ☐ : ☐ : ☐
        Remote MAC Address 3   ☐ : ☐ : ☐ : ☐ : ☐ : ☐
        Remote MAC Address 4   ☐ : ☐ : ☐ : ☐ : ☐ : ☐

◉ Repeater with Wireless Client Association
        Parent AP MAC Address   ☐ : ☐ : ☐ : ☐ : ☐ : ☐
        Child AP MAC Address   ☐ : ☐ : ☐ : ☐ : ☐ : ☐

[Apply]   [Cancel]

In the 'Parent AP MAC Address' field insert the MAC address of the MASTER unit. If you plan to add another unit that it'd receive signal from this one, insert the MAC address of it under the 'Child AP MAC Address' field, otherwise just leave it empty.

This way, you're making a logically arranged chain of devices. The first device being parent to the second, the second being parent to the third, and so on.

TESTING – Verifying the connection:

To verify this connection, try connecting wirelessly to the main unit and using the 'ping' DOS command to the IP address of the other access points. If the replies are successful, you'll know the configuration was correct.