AirOS Wireless Repeater Configuration

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AirOS Wireless Repeater/Network Extender Configuration

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Contents: How to make a Wireless Repeater AirOS

Introduction

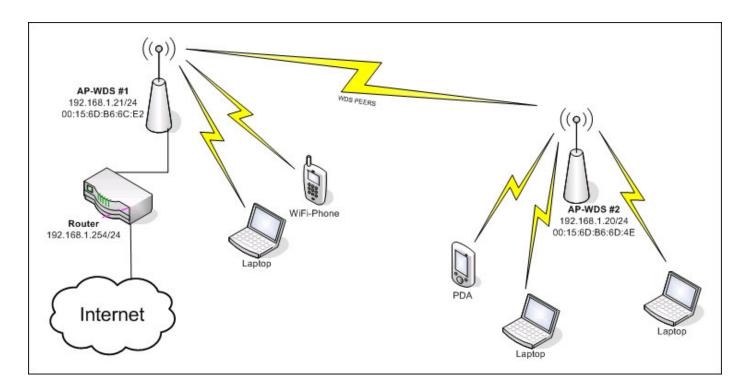
Wireless Repeater (http://en.wikipedia.org/wiki/Repeater) or Network Extender From UBNT Forum (http://ubnt.com/forum/viewtopic.php?t=7204)

Typical scenario is to install a Network Extender device to provide wireless signal to Clients that cannot be reached from **AP #1** (poor signal level). We consider this simply network topology:

- 1 Router connected to Internet and/or private LAN (IP Address: 192.168.1.254/24)
- 1 AirOS device AP #1 directly connected to Router (IP Address: 192.168.1.21/24)
- 1 AirOS device AP #2 connected via wireless to AP #1 (IP Address: 192.168.1.20/24)
- 1 or more Wireless Clients (Notebook, WiFi-Phone, other Wireless devices...)
- The Router assign IP Address to network devices by DHCP Server. Alternatively, if you prefer, you can set static IP Address to Clients.

In this schema, AP #2 is a Wireless Repeater device.

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Configuring

Minimal configuration:

- all AirOS devices in AP-WDS mode
- same SSID
- same Channel
- enter mutual WDS Peers (or enable Auto WDS, not recommended)

AP #1 Setup

Login into AirOS WEB User Interface of AP #1 and set as below:

■ **NETWORK** Tab

Network Mode: Bridge
Bridge IP Address: Static
IP Address: 192.168.1.21
Netmask: 255.255.255.0
Gateway IP: 192.168.1.254
Click Change button to confirm

- Click Apply button to apply changes
- Wait until process is complete

LINK SETUP Tab

- Wireless Mode: Access Point WDS
- WDS Peers: 00:15:6D:B6:6D:4E (WLAN MAC of AP #2, you can see on MAIN Tab of AP #2)
- SSID: mywlan (or any stringh to identify your WLAN, but the same for all WDS Peers)
- Country Code: set according your location
- IEEE 802.11 Mode: B/G mixed (assuming devices running in 2.4 GHz band)
- Channell Spectrum Width: 20MHz
- Channel: 1 2412 MHz (or any other free channel, but the same for all WDS Peers)
- Output Power: 10 dBm (or check Obey Regulatory Power according your country law)
- Data Rate, Mbps: 54, Auto
- Click Change button to confirm
- Click Apply button to apply changes
- Wait until process is complete

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AP #2 Setup

Login into AirOS WEB User Interface of AP #2 and set as below:

■ **NETWORK** Tab

Network Mode: Bridge
Bridge IP Address: Static
IP Address: 192.168.1.20
Netmask: 255.255.255.0
Gateway IP: 192.168.1.254
Click Change button to confirm
Click Apply button to apply changes
Wait until process is complete

■ LINK SETUP Tab

- Wireless Mode: Access Point WDS
- Auto: enable check box
- WDS Peers: 00:15:6D:B6:6C:E2' (WLAN MAC of AP #1, you can see on MAIN Tab of AP #1)
- SSID: mywlan (or any stringh to identify your WLAN, but the same for all WDS Peers)
- Country Code: set according your location
- IEEE 802.11 Mode: **B/G mixed** (assuming devices running in 2.4 GHz band)
- Channell Spectrum Width: 20MHz
- Channel: 1 2412 MHz (or any other free channel, but the same for all WDS Peers)
- Output Power: **10 dBm** (or check *Obey Regulatory Power* according your country law)
- Data Rate, Mbps: **54, Auto**
- Click *Change* button to confirm
- Click Apply button to apply changes
- Wait until process is complete

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