

[Log in / create account](#)

Navigation

- ▶ Main Page
- ▶ Community portal
- ▶ Current events
- ▶ Recent changes
- ▶ Random page
- ▶ Help

Search the Wiki

AirOS Wireless Repeater Configuration

Contents

- 1 AirOS Wireless Repeater/Network Extender Configuration
 - 1.1 Introduction
 - 1.2 Configuring
 - 1.2.1 AP #1 Setup
 - 1.2.2 AP #2 Setup

AirOS Wireless Repeater/Network Extender Configuration

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Contents: How to make a Wireless Repeater AirOS

Introduction

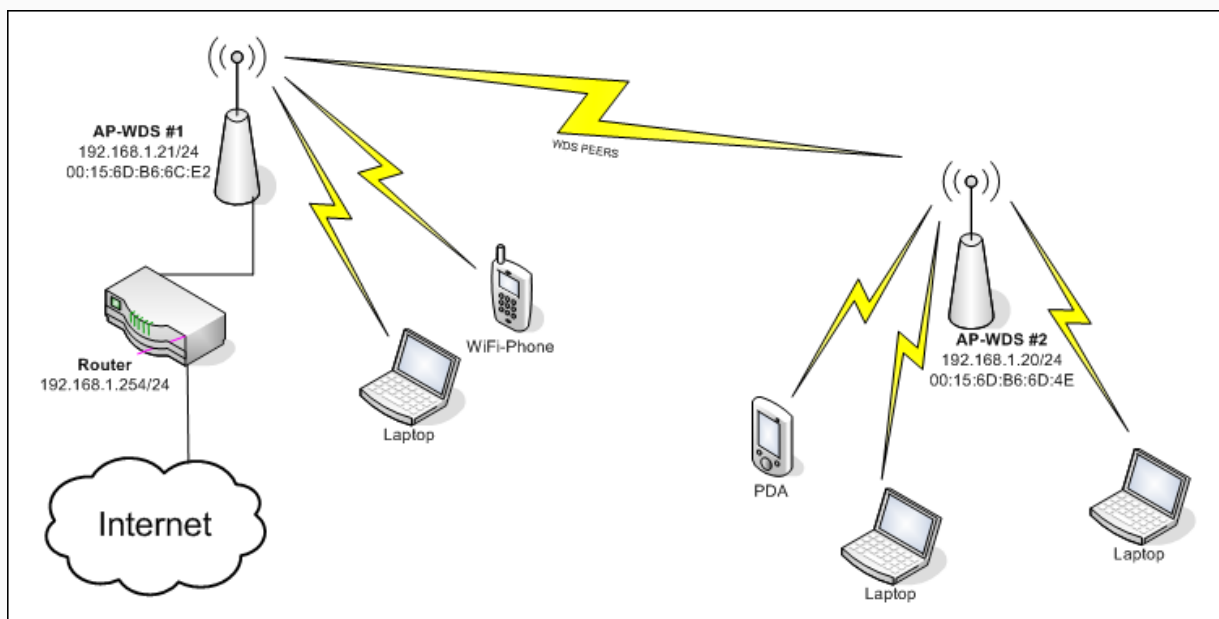
Wireless Repeater (<http://en.wikipedia.org/wiki/Repeater>) or Network Extender

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.



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 string 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

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**
 - ▶ 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 string 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**
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