

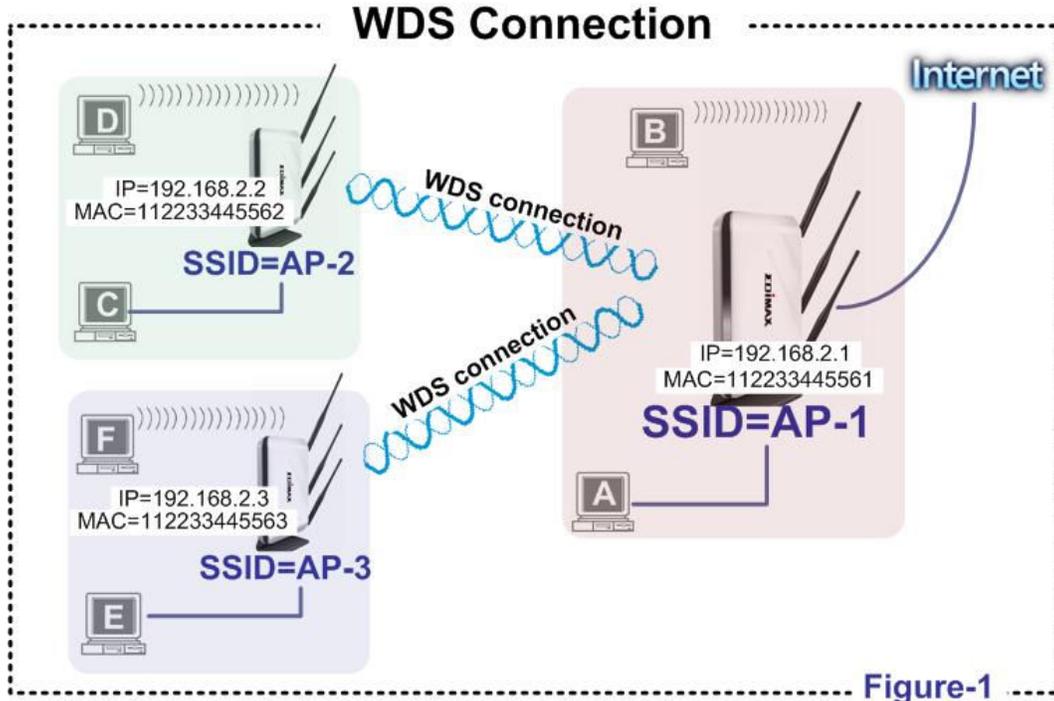
How to set up 2 WDS connections using 3 Edimax APs (or AP-Router)

This FAQ applies to the following models:

All series of the Edimax wireless access points and AP routers.

Introduction:

The WDS (Wireless Distribution System) is a wireless technology for connecting 2 wireless access points (IEEE.802.11 wireless LAN). The benefit is that you could extend the wireless coverage at relatively inexpensive cost. The effect of a successfully WDS setup is that the wired PC A, C, E and wireless PC B, D and F are linked together (as illustrated in **Figure-1**). But the drawback is that wireless performance is affected in the range between 30% to 70%.



Step by Step:

Step 1 : Separate the IP address of the 3 APs. In this example, we set the AP-1 as 192.168.2.1, AP-2 as 192.168.2.2, AP-3 as 192.168.2.3

Step 2 : Write down the MAC address of the 3 APs. In this example, the MAC addresses for the 3 APs are:
AP-1 = 112233445561
AP-2 = 112233445562
AP-3 = 112233445563

Step 3 : Set up WDS between AP-1 and AP-2

In the AP-1 : <http://192.168.2.1> setup page.

(3.1). Go to the configuration page:

/"Wireless"/Basic Setting

(3.2). Change the Mode to "AP Bridge-WDS".

(3.3). Enter the MAC address of the AP-2 (112233445562) in "MAC address 1" box.

(3.4). Click "Apply".

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Quick Setup General Setup Status Info System Tools

Wireless Setting

Mode :	AP Bridge-WDS
Band :	2.4 GHz (B+G)
ESSID :	AP-1
Channel Number :	11
Associated Clients :	Show Active Clients
MAC Address 1 :	112233445562
MAC Address 2 :	000000000000
MAC Address 3 :	000000000000
MAC Address 4 :	000000000000
MAC Address 5 :	000000000000
MAC Address 6 :	000000000000
Set Security :	Set Security

System
WAN
LAN
Wireless
Basic Setting
NAT
Firewall

Apply Cancel

(3.5). Click "Apply" to take the above settings into effect.

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Quick Setup General Setup Status Info System Tools

System
WAN
LAN
Wireless
Access Control
NAT
Firewall

Settings saved successfully!

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system for changes to take effect

Continue Apply

In the AP-2: <http://192.168.2.2> setup page

(3.6). Go to configuration page:

/"Wireless"/Basic Setting

(3.7). Change the Mode to "AP Bridge-WDS".

(3.8). Enter the MAC address of the AP-1(112233445561) in "MAC address 1" box.

(3.9). Click "Apply".

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Quick Setup General Setup Status Info System Tools

Wireless Setting

Mode :	AP Bridge-WDS
Band :	2.4 GHz (B+G)
ESSID :	AP-2
Channel Number :	11
Associated Clients :	Show Active Clients
MAC Address 1 :	112233445561
MAC Address 2 :	000000000000
MAC Address 3 :	000000000000
MAC Address 4 :	000000000000
MAC Address 5 :	000000000000
MAC Address 6 :	000000000000
Set Security :	Set Security

System
WAN
LAN
Wireless
Basic Setting
NAT
Firewall

Apply Cancel

(3.10) . Click “Apply” to take the above settings into effect.

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Quick Setup General Setup Status Info System Tools

System
WAN
LAN
Wireless
Access Control
NAT
Firewall

Settings saved successfully!

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system for changes to take effect

Continue Apply

At this stage, the WDS between AP-1 and AP-2 is ok. The PC A,B,C and D are now linked.

Step 4 : Set up WDS between AP-1 and AP-3

In the AP-1: <http://192.168.2.1> setup page.

(4.1). Go to the configuration page:

/"Wireless"/Basic Setting

(4.2). Change the Mode to “AP Bridge-WDS”.

(4.3). Enter the MAC address of the AP-3 (112233445563) in “MAC address 2” box.

(4.4). Click “Apply”.

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Quick Setup General Setup Status Info System Tools

Wireless Setting

Mode :	AP Bridge-WDS
Band :	2.4 GHz (B+G)
ESSID :	AP-1
Channel Number :	11
Associated Clients :	Show Active Clients
MAC Address 1 :	112233445562
MAC Address 2 :	112233445563
MAC Address 3 :	000000000000
MAC Address 4 :	000000000000
MAC Address 5 :	000000000000
MAC Address 6 :	000000000000
Set Security :	Set Security

Apply Cancel

(4.5) . Click “Apply ” to take the above settings into effect.

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Quick Setup General Setup Status Info System Tools

System
WAN
LAN
Wireless
Access Control
NAT
Firewall

Settings saved successfully!

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system for changes to take effect

Continue Apply

In the AP-3: <http://192.168.2.3> setup page

(4.6). Go to configuration page:

/"Wireless"/Basic Setting

(4.7). Change the Mode to “AP Bridge-WDS”.

(4.8). Enter the MAC address of the AP-1(112233445561) in “MAC address 1” box.

(4.9). Click “Apply”.



Quick Setup General Setup Status Info System Tools

Wireless Setting

Mode :	AP Bridge-WDS
Band :	2.4 GHz (B+G)
ESSID :	AP-3
Channel Number :	11
Associated Clients :	Show Active Clients
MAC Address 1 :	112233445561
MAC Address 2 :	000000000000
MAC Address 3 :	000000000000
MAC Address 4 :	000000000000
MAC Address 5 :	000000000000
MAC Address 6 :	000000000000
Set Security :	Set Security

System
WAN
LAN
Wireless
 • **Basic Setting**
 NAT
 Firewall

Apply Cancel

(4.10) . Click “Apply” to take the above settings into effect.



Quick Setup **General Setup** Status Info System Tools

System
WAN
LAN
Wireless
 • **Access Control**
 NAT
 Firewall

Settings saved successfully!

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system for changes to take effect

Continue **Apply**



All WDS settings required for AP-1, AP-2 and AP-3 are complete. Please check whether wired PC A, C, E and wireless PC B, D and F are linked together and can access the Internet.