WDS with 3 APs

In a WDS setup between 2 APs, one acts as a Root and the other acts as Extender based on the device MAC Address. Device with higher MAC acts Root whereas the device with lower MAC address acts as the Repeater, irrespective of the ethernet connection.

In case of WDS setup with 3 APs, the following combinations are possible based on the device MAC address.

1. One AP can act as Root to other 2 APs
2. First AP can act as Root to the second AP, and second AP can act as Root to the third AP

Note : But a single AP cannot be a Repeater to two different Root APs.

For example,

Consider the following MAC address.

AP-1 : **6C-CD-D6-AC-A2-6C**
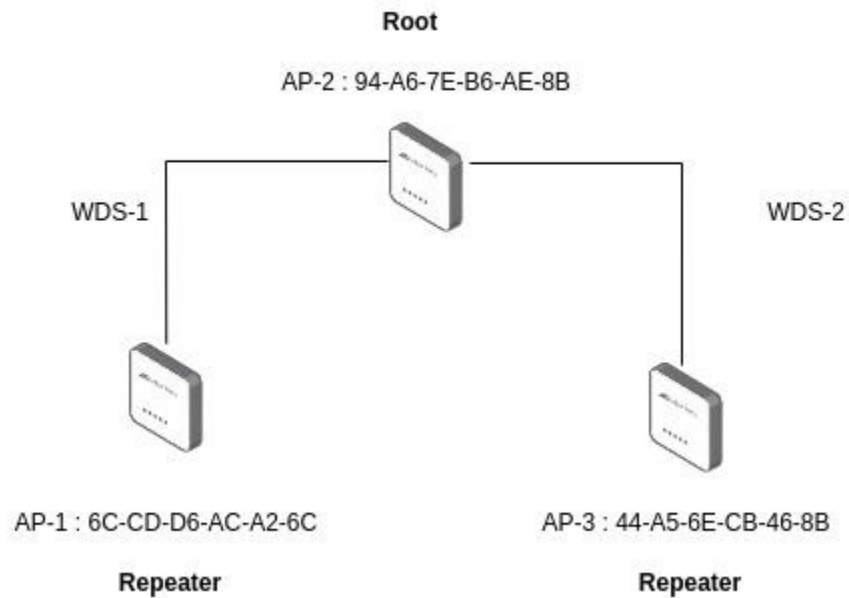AP-2 : **94-A6-7E-B6-AE-8B**
AP-3 : **44-A5-6E-CB-46-8B**

Here, AP-2 MAC address is greater than AP-1 and AP-3.

Scenario 1 :

To establish WDS, the user needs to configure WDS between ***AP-2 (Root) and AP-1 (Repeater)***, and ***AP-2 (Root) and AP-3 (Repeater)***.

Please refer to the screenshot below.

Root

AP-2 : 94-A6-7E-B6-AE-8B

WDS-1   WDS-2

AP-1 : 6C-CD-D6-AC-A2-6C   AP-3 : 44-A5-6E-CB-46-8B

Repeater   Repeater

Possibility 2 :

To establish WDS, the user needs to configure the WDS between ***AP-2 (Root) and AP-1 (Repeater)***, and ***AP-1 (Root) and AP-3 (Repeater)***.

Please refer to the screenshot below.

Root

AP-2 : 94-A6-7E-B6-AE-8B

WDS-1

Repeater

Root   WDS-2   Repeater

AP-1 : 6C-CD-D6-AC-A2-6C   AP-3 : 44-A5-6E-CB-46-8B