

WDS DWL-6700AP within 5GHz Radio

Requirements:

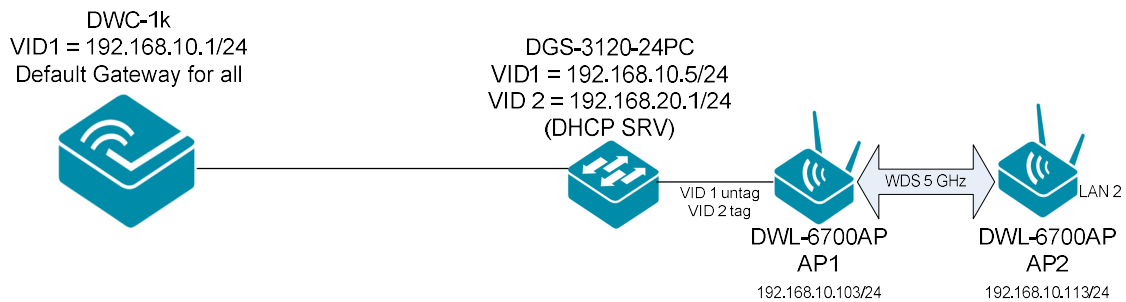
DWL-6700AP Firmware 4.5.0.5B006 or newer

Both APs must be in direct line of sight without any interferences/obstacles.

Test-setup:

AP1 = WDS Root

AP2 = WDS Client



DWL-6700AP SSID Setting

- set the VAP0 SSID within 5 GHz for WDS use
- define the security as WPA2 AES
- if you want, you can use VAP0 SSID within 2.4 GHz for WLAN Clients

AP1 & AP2

2.4GHz	Enabled	VLAN ID	SSID	Broadcast SSID	Security	MAC Auth Type	Redirect Mode	Redirect URL
VAP 0	<input checked="" type="checkbox"/>	1	Client_SSID	<input checked="" type="checkbox"/>	WPA Personal	Disabled	None	
VAP 1	<input type="checkbox"/>	1	dlink	<input checked="" type="checkbox"/>	None	Disabled	None	
VAP 2	<input type="checkbox"/>	1	dlink	<input checked="" type="checkbox"/>	None	Disabled	None	
VAP 3	<input type="checkbox"/>	1	dlink	<input checked="" type="checkbox"/>	None	Disabled	None	

5GHz VAP	Enabled	VLAN ID	SSID	Broadcast SSID	Security	MAC Auth Type	Redirect Mode	Redirect URL
VAP 0	<input checked="" type="checkbox"/>	1	WDS	<input checked="" type="checkbox"/>	WPA Personal	Disabled	None	
					WPAVersions:			
					Cipher Suites:	<input type="checkbox"/> WPA <input checked="" type="checkbox"/> WPA2 <input type="checkbox"/> TKIP <input checked="" type="checkbox"/> CCMP (AES)		
					Key:	<input type="text" value="*****"/>		
					Broadcast Key Refresh Rate (Range: 0-86400)	<input type="text" value="300"/>		
VAP 1	<input type="checkbox"/>	1	dlink	<input checked="" type="checkbox"/>	None	Disabled	None	
VAP 2	<input type="checkbox"/>	1	dlink	<input checked="" type="checkbox"/>	None	Disabled	None	
VAP 3	<input type="checkbox"/>	1	dlink	<input checked="" type="checkbox"/>	None	Disabled	None	

Click "Apply" to save the new settings.

DWL-6700AP Root AP Settings WDS-Settings

Configure WDS bridges to other access points

Spanning Tree Mode Enabled Disabled

5GHz Radio MAC Address C4:12:F5:1C:16:E0

ACK Timer Value (Range: 64-200 μ s)

WDS type Basic Advanced

Remote Address

Encryption ▼

SSID

Key

DWL-6700AP Client AP Settings WDS-Settings

Configure WDS bridges to other access points

Spanning Tree Mode Enabled Disabled

5GHz Radio MAC Address C4:12:F5:1C:16:E0

ACK Timer Value (Range: 64-200 μ s)

WDS type Basic Advanced

Remote Address

Encryption ▼

SSID **5GHz VAP0 SSID**

Key **5GHz VAP0 SSID_Key**

DWL-6700AP Radio Setting 5 GHz

AP1 & AP2

5GHz Radio Interface	<input checked="" type="radio"/> On <input type="radio"/> Off
MAC Address	C4:12:F5:1C:16:E0
Mode	IEEE 802.11n ▼
Channel	100 ▼
Station Isolation	No ▼
Channel Bandwidth	40 MHz ▼
Primary Channel	Lower ▼
Short Guard Interval Supported	Yes ▼
Protection	Auto ▼
Beacon Interval	<input type="text" value="200"/> (Msec, Range: 100 - 2000)
DTIM Period	<input type="text" value="1"/> (Range: 1-255)
Fragmentation Threshold	<input type="text" value="2346"/> (Range: 256-2346, Even Numbers)
RTS Threshold	<input type="text" value="2347"/> (Range: 0-2347)
Maximum Stations	<input type="text" value="20"/> (Range: 0-127)
Transmit Power	<input type="text" value="100"/> (Percent, Range: 1 - 100)
Fixed Multicast Rate	Auto ▼ Mbps
<input type="checkbox"/> Forced Roaming	Forced Roaming Threshold <input type="text" value="30"/> (Percent, Range: 20 - 50)
<input type="checkbox"/> MultiCast To Unicast	
<input type="checkbox"/> DHCP Offer/ACK To Unicast	

Please set for WDS both APs manually to the same WIFI Channel.
Also please adhere to the regulatory regulations like DFS, TPC, ..