

## How to setup AP failover using a DWC cluster/peer scenario?

This demonstration is setting up AP failover when we have two or more DWCs setup clustering.

### [Topology]

PC01----(LAN)DWC-2000(1)(LAN)-----Firewall(WAN)---(internet)

AP------(LAN)DWC-2000(2)(LAN)----- |

DWC-2000(3)(LAN)----- |

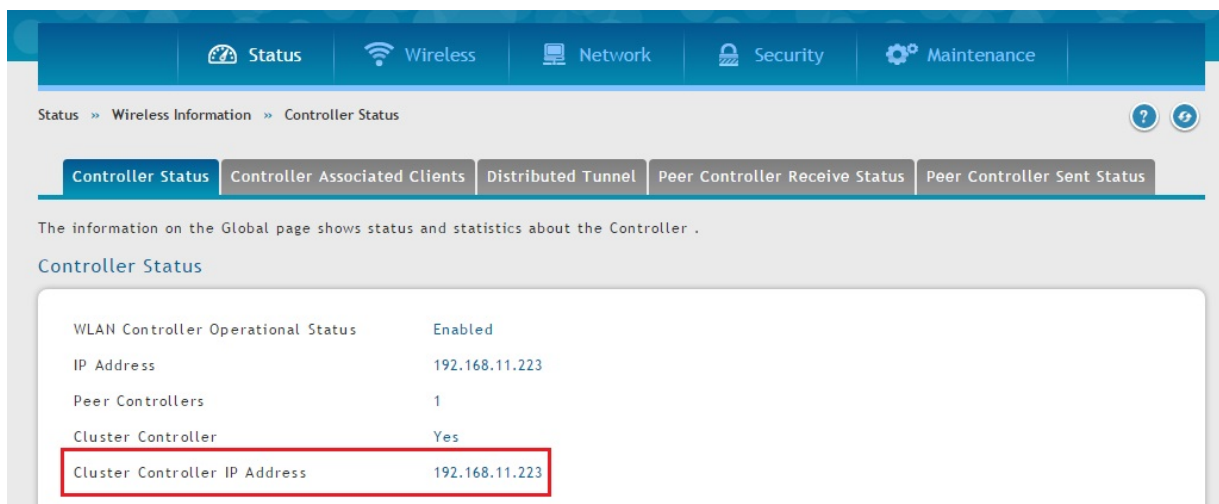
### [Device]

DWC-2000x3 (FW: 4.3.0.3)

PCx1

APx1 (DWL-8610, FW: 4.3.0.2\_B061)

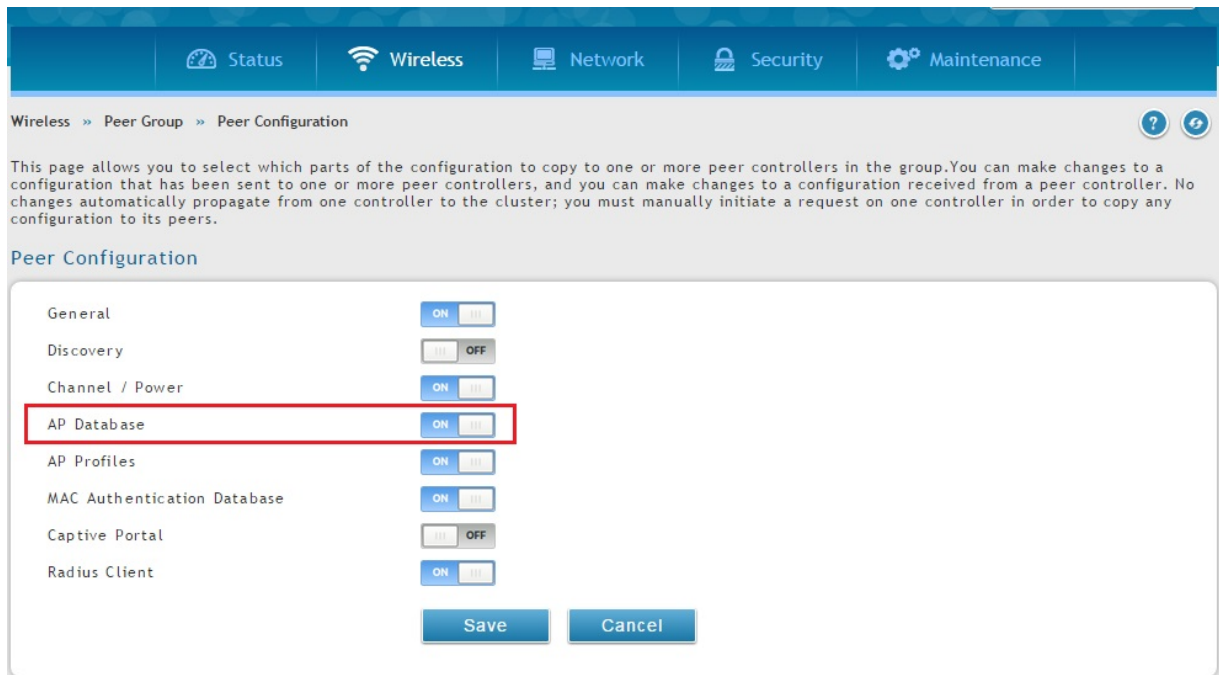
### [Configuration]



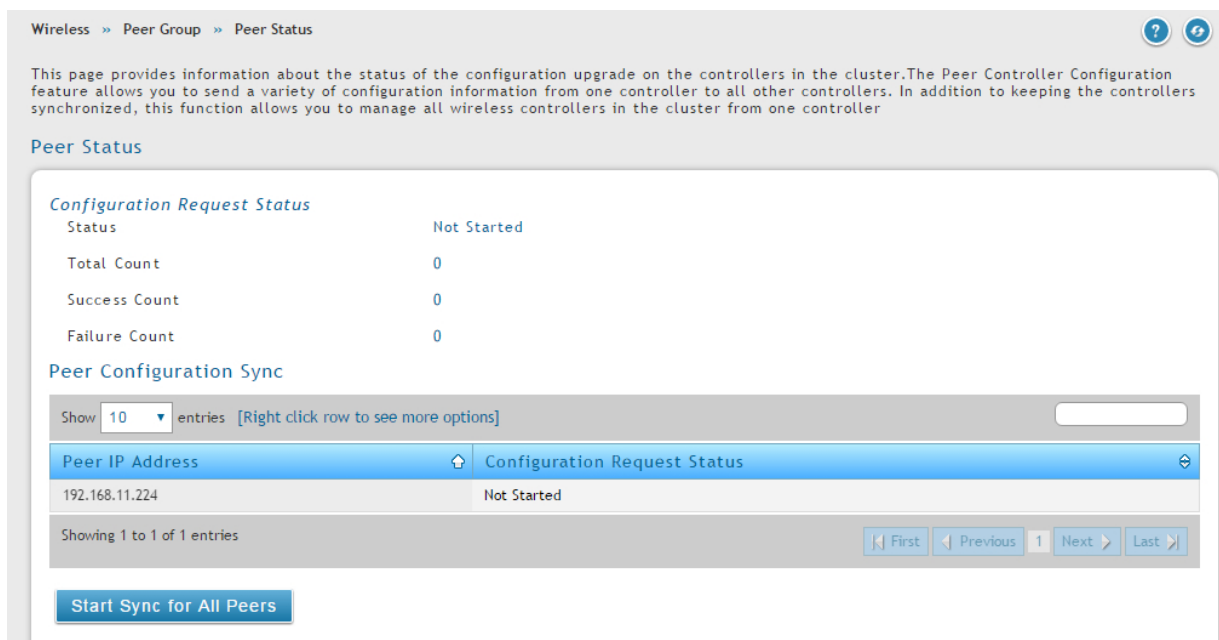
The screenshot shows the FortiGate web interface for configuring the Controller Status. The breadcrumb navigation is Status >> Wireless Information >> Controller Status. The page has several tabs: Controller Status (selected), Controller Associated Clients, Distributed Tunnel, Peer Controller Receive Status, and Peer Controller Sent Status. Below the tabs, there is a note: "The information on the Global page shows status and statistics about the Controller .". The Controller Status section displays the following information:

WLAN Controller Operational Status	Enabled
IP Address	192.168.11.223
Peer Controllers	1
Cluster Controller	Yes
Cluster Controller IP Address	192.168.11.223

1. setup the IPs for the controllers respectively. (eg. 192.168.11.223/192.168.11.224)
2. when these controllers are connected in the same LAN, they will discover each other and the cluster will be automatically up, the lowest IP will be the master controller ( eg. 192.168.11.223)
3. if the cluster is up, navigate to Status-Wireless Information-Controller Status



- now, if you want to sync the AP database or other configuration, navigate to Wireless-Peer Group-Peer Configuration, check the AP Database to ON and press SAVE.



- When you want to synchronize the configuration to all the Peer controllers, navigate to Wireless-Peer Group-Peer Status and press "start to synchronize for All peers"

Wireless » Peer Group » Peer Status

This page provides information about the status of the configuration upgrade on the controllers in the cluster. The Peer Controller Configuration feature allows you to send a variety of configuration information from one controller to all other controllers. In addition to keeping the controllers synchronized, this function allows you to manage all wireless controllers in the cluster from one controller.

### Peer Status

**Configuration Request Status**

Status	Complete
Total Count	1
Success Count	1
Failure Count	0

**Peer Configuration Sync**

Show 10 entries [Right click row to see more options]

Peer IP Address	Configuration Request Status
192.168.11.224	Success

Showing 1 to 1 of 1 entries

Start Sync for All Peers

6. when the synchronize is done, you will see the Success status

Status | Wireless | Network | Security | Maintenance

Wireless » Access Point » Managed APs List » AP Provisioning

Valid APs | Managed APs | **AP Provisioning**

This page shows information about all provisioned APs. It will show data only when the controller is configured as the Cluster Controller. The AP Provisioning feature helps us to add new APs to an existing controller cluster. With AP Provisioning, we can configure the access points with parameters that are needed to connect to the wireless network.

### AP Provisioning Status List

Show 10 entries [Right click row to see more options]

MAC Address	IP Address	Primary IP	Backup IP	New IP	New Backup IP	Status
*fc:75:16:76:0c:00	192.168.11.147	192.168.11.222	192.168.11.223	0.0.0.0	0.0.0.0	Not Started
3c:1e:04:f9:cf:00	192.168.11.111	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	Not Started

Showing 1 to 2 of 2 entries

7. Finally, for the last part, how to setup Failover for AP, for this we need to setup AP provisioning function at Wireless-Access Point-Managed AP list-AP provisioning

You will be able to see the MAC address and we can right click on it and press EDIT, we then can assign the Primary controller IP and the Backup controller IP of which we need the AP to failover to. For the above screenshot example, the primary IP is 192.168.11.222 and the backup is 192.168.11.223, so when the primary IP controller fails, it will automatically failover to backup IP to get managed.

\*Now keep in mind, that when the primary IP comes back up again, the AP wont go back to be managed by the Primary controller, the administrator must manually reboot the AP, or the AP loses the management from the backup controller, will the AP gets managed by the primary IP again.

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