

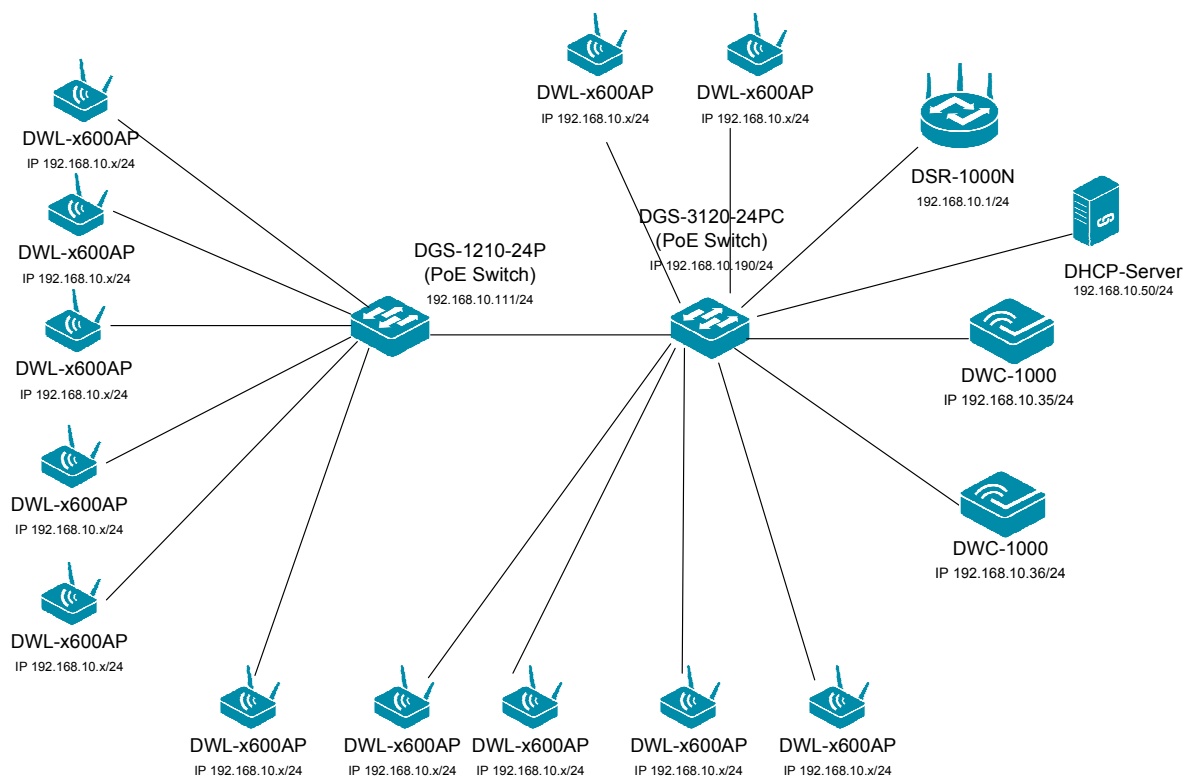
# HowTo: Einrichtung eines Cluster zwischen 2 und mehr DWC-1000

## [Voraussetzungen]

1. DWC-1000 mit Firmware Version: 4.2.0.3\_B301 und höher
2. Kompatibler AP mit aktueller Firmware 4.1.0.11 und höher (**DWL-8600AP, DWL-6600AP, DWL-3600AP & DWL-2600AP**)

## [Szenario]

2 DWC-1000 sollen im Cluster verbunden werden, um insgesamt 12 x DWL-6600AP zu verwalten. (Dieser Aufbau kann, je nach Anzahl der vorhandenen AP-Lizenzen, auf max. 24 APs je DWC-1000 und 96 APs im Peer-Verband erweitert werden)



## [Vorbereitung]

- ⇒ Der DWC-1000 hat im Auslieferungszustand die Standard IP 192.168.10.1/24 sowie den Benutzernamen „admin“ & Passwort „admin“
- ⇒ Bitte ändern Sie dies bei der Ersteinrichtung (Integration in Ihre bestehende Infrastruktur) des DWC-1000 in Ihrem Netzwerk, für die genaue Vorgehensweise der Einstellung der IP & des Benutzernamens schlagen Sie bitte im Handbuch ([ftp://ftp.dlink.de/dwc/dwc-1000/documentation/DWC-1000\\_HowTo/](ftp://ftp.dlink.de/dwc/dwc-1000/documentation/DWC-1000_HowTo/)) nach
- ⇒ Stellen Sie bitte sicher, dass Sie die aktuellste Firmware für den DWC-1000 installiert haben ([ftp://ftp.dlink.de/dwc/dwc-1000/driver\\_software/](ftp://ftp.dlink.de/dwc/dwc-1000/driver_software/))
- ⇒ Bitte lesen Sie vorab das Handbuch und die bereits vorhandenen Anleitungen um die grundlegende Konfiguration des DWC-1000 zu erledigen.
- ⇒ Bitte lesen Sie vorab das Handbuch und die bereits vorhandenen Anleitungen um die grundlegende Konfiguration des entsprechenden DWL-x600 zu erledigen.
- ⇒ **Mit der derzeitigen Firmwareversion werden im Peer-Verband bei einem Ausfall Captive Portal Sitzungen und Benutzer nicht vom Mastercontroller auf den Slavecontroller übertragen.**
- ⇒ **Je nach Konfiguration des Peering ist es möglich, ein Active-Backup Ausfallszenario oder eine Erweiterung der maximalen Anzahl der managebaren APs zu konfigurieren. Eine Mischung der beiden Betriebsarten ist innerhalb des Gesamtmaximums von 24 APs je DWC und maximal 96 APs im Cluster/Peer-Verband möglich.**

[Abgeschlossene Vorarbeiten]

- 1.) IP Adresseinstellungen der entsprechenden DWC-1000 durchgeführt
  - a. DWC-1000 Peer-Master IP = 192.168.10.35/24

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

The screenshot shows the 'LAN SETUP' page of the D-Link DWC-1000 web interface. The page is titled 'LAN SETUP' and includes a 'LOGOUT' link. Below the title, there is a description: 'The LAN Configuration page allows you to configure the LAN interface of the router including the DHCP Server which runs on it.' There are two buttons: 'Save Settings' and 'Don't Save Settings'. The configuration is divided into several sections:

- LAN IP Address Setup:** IP Address: 192.168.10.35, Subnet Mask: 255.255.255.0
- DHCP:** DHCP Mode: None, Starting IP Address: 192.168.10.100, Ending IP Address: 192.168.10.254, Default Gateway (Optional): 192.168.10.1
- LAN Proxy:** Enable DNS Proxy:
- Default Route:** Enable Default Route: , Gateway: 192.168.10.1, DNS Server: 8.8.8.8, SNAT:

On the right side, there is a 'Helpful Hints...' section with text: 'Changes here affect all devices connected to the router's LAN switch and also wireless LAN clients. Note that a change to the LAN IP address will require all LAN hosts to be in the same subnet and use the new address to access this GUI.' There is also a 'More...' link.

At the bottom of the page, it says 'WIRELESS CONTROLLER'.

- b. DWC-1000 Peer-Slave IP = 192.168.10.36/24

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

The screenshot shows the 'LAN SETUP' page of the D-Link DWC-1000 web interface, similar to the previous one but with the Peer-Slave IP configuration. The configuration is as follows:

- LAN IP Address Setup:** IP Address: 192.168.10.36, Subnet Mask: 255.255.255.0
- DHCP:** DHCP Mode: None, Starting IP Address: 192.168.10.100, Ending IP Address: 192.168.10.254, Default Gateway (Optional): 192.168.10.36
- Default Route:** Enable Default Route: , Gateway: 192.168.10.1, DNS Server: 8.8.8.8, SNAT:

The rest of the interface, including the navigation menu and the 'Helpful Hints...' section, is identical to the previous screenshot.

At the bottom of the page, it says 'WIRELESS CONTROLLER'.

2.) Das AP-Profil wurde bereits am zukünftigen Peer-Master DWC-1000 erstellt und konfiguriert.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WIDS Security Client WDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**AP PROFILES SUMMARY** LOGOUT

This page displays the virtual access point (VAP) settings associated with the selected AP profile. Each VAP is identified by its network number and Service Set Identifier (SSID).

Save Settings Don't Save Settings

**AP Profile VAP Configuration**

**AP Profile:** AP Profile 1-Default

**Radio Mode:**  1-Off  2-802.11b/g/n

**List of SSID**

	Network	VLAN	Mode SSID	Security	Redirect
<input checked="" type="checkbox"/>	1 - Cluster-WL Edit	1-default	Disabled	WPA Personal	None
<input type="checkbox"/>	2 - dlink2 Edit	1-default	Disabled	None	None
<input type="checkbox"/>	3 - dlink3 Edit	1-default	Disabled	None	None
<input type="checkbox"/>	4 - dlink4 Edit	1-default	Disabled	None	None
<input type="checkbox"/>	5 - dlink5 Edit	1-default	Disabled	None	None
<input type="checkbox"/>	6 - dlink6 Edit	1-default	Disabled	None	None
<input type="checkbox"/>	7 - dlink7 Edit	1-default	Disabled	None	None
<input type="checkbox"/>	8 - dlink8 Edit	1-default	Disabled	None	None

Helpful Hints... You can configure and enable up to 16 VAPs per radio on each physical access point. More...

## [Einstellen des Peering]

### 1.) Auswahl des Master-Controllers

- a. Gehen Sie hierzu auf „Advanced -> Global -> General“

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP **ADVANCED** TOOLS STATUS HELP

Global ▾ **General**

Peer Controllers ▾ SNMP Trap LOGOUT

AP Profile Distributed Tunneling

SSIDs

WIDS Security ▾

Client

WDS Configuration ▾

IPv6 ▾

Routing ▾

Certificates

Users ▾

IP/MAC Binding

Radius Settings

Switch Settings

Save Settings Don't Save Settings

**Wireless Configuration**

Peer Group ID	1	(1 to 255)
Client Roam Timeout	30	(1 to 120 Seconds)
Ad Hoc Client Status Timeout	24	(0 to 168 Hours)
AP Failure Status Timeout	24	(0 to 168 Hours)
MAC Authentication Mode	white-list	
RF Scan Status Timeout	24	(0 to 168 Hours)
Detected Clients Status Timeout	24	(0 to 168 Hours)
Tunnel IP MTU Size	1500	
Cluster Priority	1	(0 to 255, 0 - Disable)
AP Client QoS	Disable	

WIRELESS CONTROLLER

Helpful Hints... Wireless Configurations are set on this page. We can Configure Wireless by setting the fields shown on this page like Peer Group ID, Client Roam Timeout ... More...

### b. Passen Sie nun die „Cluster Priority“ des PeerMaster DWC-1000 an

- i. Cluster Master wird der DWC-1000 mit dem höchsten Wert (z.B. 255)

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP **ADVANCED** TOOLS STATUS HELP

Global ▾

Peer Controllers ▾

AP Profile

SSIDs

WIDS Security ▾

Client

WDS Configuration ▾

IPv6 ▾

Routing ▾

Certificates

Users ▾

IP/MAC Binding

Radius Settings

Switch Settings

Save Settings Don't Save Settings

**CONFIGURATION ITEMS** LOGOUT

The fields on this page are settings that apply to the Unified Wireless controller.

**Wireless Configuration**

Peer Group ID	1	(1 to 255)
Client Roam Timeout	30	(1 to 120 Seconds)
Ad Hoc Client Status Timeout	24	(0 to 168 Hours)
AP Failure Status Timeout	24	(0 to 168 Hours)
MAC Authentication Mode	white-list	
RF Scan Status Timeout	24	(0 to 168 Hours)
Detected Clients Status Timeout	24	(0 to 168 Hours)
Tunnel IP MTU Size	1500	
<b>Cluster Priority</b>	<b>255</b>	(0 to 255, 0 - Disable)
AP Client QoS	Disable	

WIRELESS CONTROLLER

Helpful Hints... Wireless Configurations are set on this page. We can Configure Wireless by setting the fields shown on this page like Peer Group ID, Client Roam Timeout ... More...

Mittels des Button „Save Setting“ speichern Sie Ihre Änderungen ab.

- c. Führen Sie diesen Vorgang nun erneut für den PeerSlave-DWC-1000 durch
  - i. Cluster Slave wird der DWC-1000 mit dem kleinsten Wert (z.B. 1)

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

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DWC-1000 // **SETUP** ADVANCED TOOLS STATUS HELP

Global ▾

Peer Controllers ▾ **CONFIGURATION ITEMS** LOGOUT

AP Profile

SSIDs

WIDS Security ▾

Client

WDS Configuration ▾

IPv6 ▾

Routing ▾

Certificates

Users ▾

IP/MAC Binding

Radius Settings

Switch Settings

**Wireless Configuration**

The fields on this page are settings that apply to the Unified Wireless controller.

**Peer Group ID**  (1 to 255)

**Client Roam Timeout**  (1 to 120 Seconds)

**Ad Hoc Client Status Timeout**  (0 to 168 Hours)

**AP Failure Status Timeout**  (0 to 168 Hours)

**MAC Authentication Mode**

**RF Scan Status Timeout**  (0 to 168 Hours)

**Detected Clients Status Timeout**  (0 to 168 Hours)

**Tunnel IP MTU Size**

**Cluster Priority**  (0 to 255, 0 - Disable)

**AP Client QoS**

**Helpful Hints...**  
Wireless Configurations are set on this page. We can Configure Wireless by setting the fields shown on this page like Peer Group ID, Client Roam Timeout ...  
[More...](#)

**WIRELESS CONTROLLER**

- 2.) Passen Sie jetzt die zu peerenden Einstellungen auf dem Master-Controller an  
 a. Gehen Sie hierzu auf „Advanced -> Peer Controllers -> Configuration Items“

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP **ADVANCED** TOOLS STATUS HELP

Global ▾  
**Peer Controllers** ▾  
 AP Profile  
 SSIDs  
 WIDS Security ▾  
 Client  
 WDS Configuration ▾  
 IPv6 ▾  
 Routing ▾  
 Certificates  
 Users ▾  
 IP/MAC Binding  
 Radius Settings  
 Switch Settings

Configuration Request Status **MS** LOGOUT

**Configuration Items** settings that apply to the Unified Wireless controller.

Save Settings Don't Save Settings

**Wireless Configuration**

Peer Group ID	1	(1 to 255)
Client Roam Timeout	30	(1 to 120 Seconds)
Ad Hoc Client Status Timeout	24	(0 to 168 Hours)
AP Failure Status Timeout	24	(0 to 168 Hours)
MAC Authentication Mode	white-list	
RF Scan Status Timeout	24	(0 to 168 Hours)
Detected Clients Status Timeout	24	(0 to 168 Hours)
Tunnel IP MTU Size	1500	
Cluster Priority	255	(0 to 255, 0 - Disable)
AP Client QoS	Disable	

WIRELESS CONTROLLER

Helpful Hints...  
 Wireless Configurations are set on this page. We can Configure Wireless by setting the fields shown on this page like Peer Group ID, Client Roam Timeout ...  
[More...](#)

- b. Wählen Sie die zu peerenden Einstellungen aus

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global ▾  
 Peer Controllers ▾  
 AP Profile  
 SSIDs  
 WIDS Security ▾  
 Client  
 WDS Configuration ▾  
 IPv6 ▾  
 Routing ▾  
 Certificates  
 Users ▾  
 IP/MAC Binding  
 Radius Settings  
 Switch Settings

**CONFIGURATION ITEMS** LOGOUT

The Peer Controller Configuration page allows you to select which parts of the configuration to copy to one or more peer controllers in the group.

Save Settings Don't Save Settings

**Peer Controller Configuration**

Global	Enable
Discovery	Enable
Channel/Power	Enable
AP Database	Enable
AP Profiles	Enable
Known Client	Enable
Captive Portal	Disable
RADIUS Client	Enable

WIRELESS CONTROLLER

Helpful Hints...  
 You can make changes to a configuration that has been sent to one or more peer controllers, and you can make changes to a configuration received from a peer controller. No changes automatically propagate from one controller to the cluster; you must manually initiate a request on one controller in order to copy any configuration to its peers.  
[More...](#)

Mittels des Button „Save Setting“ speichern Sie Ihre Änderungen ab.

c. Wiederholen Sie den Vorgang auf dem Slave-Controller

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP **ADVANCED** TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WIDS Security Client WIDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**CONFIGURATION ITEMS** LOGOUT

The Peer Controller Configuration page allows you to select which parts of the configuration to copy to one or more peer controllers in the group.

Save Settings Don't Save Settings

**Peer Controller Configuration**

Global	Enable
Discovery	Enable
Channel/Power	Enable
AP Database	Enable
AP Profiles	Enable
Known Client	Enable
Captive Portal	Disable
RADIUS Client	Enable

WIRELESS CONTROLLER

Helpful Hints... You can make changes to a configuration that has been sent to one or more peer controllers, and you can make changes to a configuration received from a peer controller. No changes automatically propagate from one controller to the cluster; you must manually initiate a request on one controller in order to copy any configuration to its peers. More...

Mittels des Button „Save Setting“ speichern Sie Ihre Änderungen ab.

d. Gehen Sie nun auf „Advanced -> Peer Controllers -> Configuration Request Status“

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP **ADVANCED** TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WIDS Security Client WIDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**Configuration Request Status** LOGOUT

The Peer Controller Configuration page allows you to select which parts of the configuration to copy to one or more peer controllers in the group.

Save Settings Don't Save Settings

**Peer Controller Configuration**

Global	Enable
Discovery	Enable
Channel/Power	Enable
AP Database	Enable
AP Profiles	Enable
Known Client	Enable
Captive Portal	Disable
RADIUS Client	Enable

WIRELESS CONTROLLER

Helpful Hints... You can make changes to a configuration that has been sent to one or more peer controllers, and you can make changes to a configuration received from a peer controller. No changes automatically propagate from one controller to the cluster; you must manually initiate a request on one controller in order to copy any configuration to its peers. More...



- e. Auf dem Peer Master wählen Sie nun die IP-Adresse des/der Slave DWC-1000 aus
- f. Mittels des Button „Start“ oder „Start All“ führen Sie nun das Übertragen der Einstellungen vom Peer-Master zum Peer-Slave aus

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

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DWC-1000	SETUP	ADVANCED	TOOLS	STATUS	HELP						
<ul style="list-style-type: none"> <li>Global</li> <li>Peer Controllers</li> <li>AP Profile</li> <li>SSIDs</li> <li>WIDS Security</li> <li>Client</li> <li>WDS Configuration</li> <li>IPv6</li> <li>Routing</li> <li>Certificates</li> <li>Users</li> <li>IP/MAC Binding</li> <li>Radius Settings</li> <li>Switch Settings</li> </ul>	<div style="text-align: right; border-bottom: 1px solid black; padding-bottom: 5px;"><b>CONFIGURATION REQUEST</b> <span style="float: right; font-weight: normal;">LOGOUT</span></div> <p>The Peer Controller Configuration Request Status page provides information about the status of the configuration upgrade on the controllers in the cluster.</p> <p><b>Peer Controller Configuration Request Status</b></p> <p><b>Configuration Request Status:</b> Not Started</p> <p><b>Total Count:</b> 0</p> <p><b>Success Count:</b> 0</p> <p><b>Failure Count:</b> 0</p> <p><b>List of Peers</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 40%;">Peer IP Address</th> <th style="width: 55%;">Configuration Request Status</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>192.168.10.36</td> <td>Not Started</td> </tr> </tbody> </table> <p style="text-align: center;"> <input type="button" value="Refresh"/> <input type="button" value="Start"/> <input type="button" value="Start All"/> </p>					Peer IP Address	Configuration Request Status	<input type="checkbox"/>	192.168.10.36	Not Started	<p><b>Helpful Hints...</b></p> <p>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.</p> <p><a href="#">More...</a></p>
	Peer IP Address	Configuration Request Status									
<input type="checkbox"/>	192.168.10.36	Not Started									

**WIRELESS CONTROLLER**

- g. Bestätigen Sie die Sicherheitsabfrage mit „OK“

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

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DWC-1000	SETUP	ADVANCED	TOOLS	STATUS	HELP						
<ul style="list-style-type: none"> <li>Global</li> <li>Peer Controllers</li> <li>AP Profile</li> <li>SSIDs</li> <li>WIDS Security</li> <li>Client</li> <li>WDS Configuration</li> <li>IPv6</li> <li>Routing</li> <li>Certificates</li> <li>Users</li> <li>IP/MAC Binding</li> <li>Radius Settings</li> <li>Switch Settings</li> </ul>	<div style="text-align: right; border-bottom: 1px solid black; padding-bottom: 5px;"><b>CONFIGURATION REQUEST</b> <span style="float: right; font-weight: normal;">LOGOUT</span></div> <p>The Peer Controller Configuration Request Status page provides information about the status of the configuration upgrade on the controllers in the cluster.</p> <p><b>Peer Controller Configuration Request Status</b></p> <p><b>Configuration Request Status:</b> Not Started</p> <p><b>Total Count:</b> 0</p> <p><b>Success Count:</b> 0</p> <p><b>Failure Count:</b> 0</p> <p><b>List of Peers</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 40%;">Peer IP Address</th> <th style="width: 55%;">Configuration Request Status</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>192.168.10.36</td> <td>Not Started</td> </tr> </tbody> </table> <p style="text-align: center;"> <input type="button" value="Refresh"/> <input type="button" value="Start"/> <input type="button" value="Start All"/> </p>					Peer IP Address	Configuration Request Status	<input checked="" type="checkbox"/>	192.168.10.36	Not Started	<p><b>Helpful Hints...</b></p> <p>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.</p> <p><a href="#">More...</a></p>
	Peer IP Address	Configuration Request Status									
<input checked="" type="checkbox"/>	192.168.10.36	Not Started									

Are you sure you want to push config to all the peer switches?

**WIRELESS CONTROLLER**

- h. Anschließend werden die Daten vom Peer-Master an den/die entsprechenden Peer-Slaves übertragen

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global  
Peer Controllers  
AP Profile  
SSIDs  
WIDS Security  
Client  
WDS Configuration  
IPv6  
Routing  
Certificates  
Users  
IP/MAC Binding  
Radius Settings  
Switch Settings

**CONFIGURATION REQUEST** LOGOUT

The Peer Controller Configuration Request Status page provides information about the status of the configuration upgrade on the controllers in the cluster.

**Peer Controller Configuration Request Status**

<b>Configuration Request Status:</b>	Send Requested
<b>Total Count:</b>	1
<b>Success Count:</b>	0
<b>Failure Count:</b>	0

**List of Peers**

Peer IP Address	Configuration Request Status
<input type="checkbox"/> 192.168.10.36	Send Requested

Refresh Start Start All

**Helpful Hints...**  
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.  
[More...](#)

WIRELESS CONTROLLER

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global  
Peer Controllers  
AP Profile  
SSIDs  
WIDS Security  
Client  
WDS Configuration  
IPv6  
Routing  
Certificates  
Users  
IP/MAC Binding  
Radius Settings  
Switch Settings

**CONFIGURATION REQUEST** LOGOUT

The Peer Controller Configuration Request Status page provides information about the status of the configuration upgrade on the controllers in the cluster.

**Peer Controller Configuration Request Status**

<b>Configuration Request Status:</b>	Complete
<b>Total Count:</b>	1
<b>Success Count:</b>	1
<b>Failure Count:</b>	0

**List of Peers**

Peer IP Address	Configuration Request Status
<input type="checkbox"/> 192.168.10.36	Success

Refresh Start Start All

**Helpful Hints...**  
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.  
[More...](#)

WIRELESS CONTROLLER

3.) Nach dem erfolgreichen Peer-Vorgang prüfen Sie am Slave DWC-1000 ob das AP-Profil korrekt übertragen wurde

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WIDS Security Client WDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**AP PROFILES SUMMARY** LOGOUT

This page displays the virtual access point (VAP) settings associated with the selected AP profile. Each VAP is identified by its network number and Service Set Identifier (SSID).

Save Settings Don't Save Settings

**AP Profile VAP Configuration**

AP Profile: AP Profile 1-Default

Radio Mode:  1-Off  2-802.11b/g/n

**List of SSID**

	Network	VLAN	Hide SSID	Security	Redirect
<input checked="" type="checkbox"/>	1 - Cluster-WL Edit	1-default	Disabled	WPA Personal	None
<input type="checkbox"/>	2 - dlink2 Edit	1-default	Disabled	None	None
<input type="checkbox"/>	3 - dlink3 Edit	1-default	Disabled	None	None
<input type="checkbox"/>	4 - dlink4 Edit	1-default	Disabled	None	None

Helpful Hints... You can configure and enable up to 16 VAPs per radio on each physical access point. More...

Wie Sie nun am Peer Slave DWC-1000 erkennen können, wurden das AP-Profil, sowie die entsprechenden Radio-Einstellungen des Master DWC-1000 korrekt übertragen.

Wenn Sie nun am Peer-Master-DWC-1000 eine Änderung am AP-Profil durchführen, so müssen Sie dies anschließend (nach dem lokalen Apply) auch mittels des Peering auf den/die Peer-Slave übertragen.

a.) Ändern AP-Profil

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WIDS Security Client WDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**NETWORKS** LOGOUT

Each network is identified by its Service Set Identifier (SSID), which is an alphanumeric key that identifies a wireless local area network. You can configure up to 64 different networks on the Unified Wireless Controller.

Save Settings Don't Save Settings

**SSID** TEST-Peer

**Hide SSID**

**Ignore Broadcast**

**VLAN** 1 (1 to 4093)

**MAC Authentication**  Local  RADIUS  Disable

**Redirect**  None  HTTP

**Redirect URL**

**Wireless ARP Suppression Mode** Disable

**12 Distributed Tunneling Mode** Disable

Helpful Hints... Each network can have a unique SSID, or you can configure multiple networks with the same SSID. Use Hide SSID to hide the SSID broadcast to discourage stations from automatically discovering your access point. More...

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WIDS Security Client WDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**AP PROFILES SUMMARY** LOGOUT

This page displays the virtual access point (VAP) settings associated with the selected AP profile. Each VAP is identified by its network number and Service Set Identifier (SSID).

Save Settings Don't Save Settings

**AP Profile VAP Configuration**

AP Profile: AP Profile 1-Default  
Radio Mode:  1-Off  2-802.11b/g/n

**List of SSID**

	Network	VLAN	Hide SSID	Security	Redirect
<input checked="" type="checkbox"/>	1 - Cluster-WL Edit	1-default	Disabled	WPA Personal	None
<input checked="" type="checkbox"/>	2 - TEST-Peer Edit	1-default	Disabled	WPA Personal	None
<input type="checkbox"/>	3 - dlink3 Edit	1-default	Disabled	None	None

Helpful Hints... You can configure and enable up to 16 VAPs per radio on each physical access point. More...

b.) „Apply“ der Änderungen des lokalen AP-Profil

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WIDS Security Client WDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**AP PROFILES SUMMARY** LOGOUT

From Access Point Profile Summary page, you can create, copy, or delete AP profiles. You can create up to 16 AP profiles on the Unified Wireless Controller.

**Access Point Profile List**

	Profile	Profile Status
<input type="checkbox"/>	1-Default	Apply Requested

Edit Delete Add Copy Apply

Configure Radio Configure SSID Configure QoS Refresh

Helpful Hints... You can create multiple AP profiles on the Unified Wireless Controller to customize APs based on location, function, or other criteria. Profiles are like templates, and once you create an AP profile, you can apply that profile to any AP that the Unified Wireless Controller manages. More...

WIRELESS CONTROLLER

c.) Übertragen des neuen/geänderten AP-Profil an die Peer-Slave DWC-1000

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WIDS Security Client WDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**CONFIGURATION REQUEST** LOGOUT

The Peer Controller Configuration Request Status page provides information about the status of the configuration upgrade on the controllers in the cluster.

**Peer Controller Configuration Request Status**

**Configuration Request Status:** Complete

**Total Count:** 1  
**Success Count:** 1  
**Failure Count:** 0

**List of Peers**

	Peer IP Address	Configuration Request Status
<input type="checkbox"/>	192.168.10.36	Success

Refresh Start Start All

**Helpful Hints...**  
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.  
More...

**WIRELESS CONTROLLER**

d.) Prüfen auf dem Peer-Slave DWC-1000

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WIDS Security Client WDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**AP PROFILES SUMMARY** LOGOUT

This page displays the virtual access point (VAP) settings associated with the selected AP profile. Each VAP is identified by its network number and Service Set Identifier (SSID).

Save Settings Don't Save Settings

**AP Profile VAP Configuration**

**AP Profile:** AP Profile 1-Default  
**Radio Mode:**  1-Off  2-802.11b/g/n

**List of SSID**

	Network	VLAN	Hide SSID	Security	Redirect
<input checked="" type="checkbox"/>	1 - Cluster-WL Edit	1-default	Disabled	WPA Personal	None
<input checked="" type="checkbox"/>	2 - TEST-Peer Edit	1-default	Disabled	WPA Personal	None
<input type="checkbox"/>	3 - dlink3 Edit	1-default	Disabled	None	None

**Helpful Hints...**  
You can configure and enable up to 16 VAPs per radio on each physical access point.  
More...

- 4.) Hinzufügen von APs, welche durch die Peer-Master und Peer-Slave DWC-1000 gemanaged werden sollen.
- a. Fügen Sie ganz normal die einzelnen APs in das Management des DWC-1000 hinzu (bis Sie das Maximum (6 APs ohne Lizenz) des DWC-1000 erreichen)

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

	MAC Address	IP Address	Age	Status	Radio	Channel
<input type="checkbox"/>	28:10:7b:e6:f1:c0	192.168.10.207	0h:0m:2s	Managed	2-802.11b/g/n	7
<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.211	0h:0m:3s	Managed	2-802.11b/g/n	3
<input type="checkbox"/>	90:94:e4:8e:6c:80	192.168.10.210	0h:0m:4s	Managed	1-Off, 2-802.11b/g/n	, 5
<input type="checkbox"/>	90:94:e4:8f:1c:00	192.168.10.204	0h:0m:4s	Managed	1-Off, 2-802.11b/g/n	, 11
<input type="checkbox"/>	90:94:e4:8f:22:80	192.168.10.209	0h:0m:4s	Managed	1-Off, 2-802.11b/g/n	, 10
<input type="checkbox"/>	90:94:e4:8f:32:80	192.168.10.206	0h:0m:4s	Managed	1-Off, 2-802.11b/g/n	, 2
<input type="checkbox"/>	90:94:e4:8f:32:00	192.168.10.124	0h:0m:3s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:49:80	192.168.10.205	0h:0m:3s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:54:c0	192.168.10.208	0h:0m:3s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:55:80	192.168.10.213	0h:0m:3s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:74:00	192.168.10.212	0h:0m:3s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:7a:80	192.168.10.214	0h:0m:3s	No Database Entry	N/A	N/A

Sollten Sie nun versuchen einen weiteren DWL-x600AP am DWC-1000 anzumelden, so werden Sie folgende Fehlermeldung erhalten.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

Error! Failed to add local AP database entry.  
 Error! Failed to get AP Mode.  
 Error! Failed to get Location.  
 Error! Failed to get Profile.  
 Error! Failed to get channel.  
 Error! Failed to get channel.

OK

Führen Sie jetzt erneut am Peer-Master DWC-1000 eine Peer-Konfigurationsübertragung durch.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global Peer Controllers AP Profile SSIDs WDS Security Client WDS Configuration IPv6 Routing Certificates Users IP/MAC Binding Radius Settings Switch Settings

**CONFIGURATION REQUEST** LOGOUT

The Peer Controller Configuration Request Status page provides information about the status of the configuration upgrade on the controllers in the cluster.

**Peer Controller Configuration Request Status**

**Configuration Request Status:** Complete

**Total Count:** 1

**Success Count:** 1

**Failure Count:** 0

**List of Peers**

Peer IP Address	Configuration Request Status
192.168.10.36	Success

Refresh Start Start All

**Helpful Hints...**  
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.  
[More...](#)

WIRELESS CONTROLLER

Im Anschluss daran wechseln Sie auf den Peer-Slave-DWC-1000 und prüfen die Managed-AP-Datenbase.

Diese Datenbank sollte derzeit noch nicht gefüllt sein, da derzeit die APs im Active-Backup Betrieben werden.

Sobald nun der Peer-Master-DWC-1000 ausfällt, werden die APs vom Peer-Slave-DWC-1000 übernommen und gemanaged.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Dashboard Global Info Device Info Access Point Info LAN Clients Info Wireless Client Info WDS Managed APs Logs Traffic Monitor Active Sessions

**ACCESS POINTS SUMMARY** LOGOUT

The All AP Summary page shows summary information about managed, failed, and rogue access points the controller has discovered or detected.

**List of APs**

	MAC Address	IP Address	Age	Status	Radio	Channel
<input type="checkbox"/>	28:10:7b:e6:f1:c0	192.168.10.207	0h:0m:8s	Authenticated	2-802.11b/g/n	0
<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.211	0h:0m:7s	Authenticated	2-802.11b/g/n	0
<input type="checkbox"/>	90:94:e4:8e:6c:80	192.168.10.210	0h:0m:8s	Authenticated	1-Off, 2-802.11b/g/n	, 0
<input type="checkbox"/>	90:94:e4:8f:1c:00	192.168.10.204	0h:0m:9s	Authenticated	1-Off, 2-802.11b/g/n	, 0
<input type="checkbox"/>	90:94:e4:8f:22:80	192.168.10.209	0h:0m:9s	Authenticated	1-Off, 2-802.11b/g/n	, 0
<input type="checkbox"/>	90:94:e4:8f:32:80	192.168.10.206	0h:0m:10s	Authenticated	1-Off, 2-802.11b/g/n	, 0
<input type="checkbox"/>	90:94:e4:8f:32:00	192.168.10.124	0h:0m:20s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:49:80	192.168.10.205	0h:0m:20s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:54:c0	192.168.10.208	0h:0m:20s	No Database Entry	N/A	N/A

**Helpful Hints...**  
We can Delete, Manage, Acknowledge and view details of all AP here.  
[More...](#)

Der AP-Schwenk auf den Peer-Slave-DWC-1000 kann bis zu 2 Minuten dauern!

Wenn der Peer-Master-DWC-1000 wieder verfügbar ist, so werden da die APs als Peer-Managed angezeigt und erst mit einem Reboot des APs oder einem Ausfall des Peer-Slave-DWC-1000 wieder zurück auf den Peer-Master-DWC-1000 zurückgeschwenkt.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

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DWC-1000	SETUP	ADVANCED	TOOLS	STATUS	HELP
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- Dashboard
- Global Info
- Device Info
- Access Point Info
- LAN Clients Info
- Wireless Client Info
- WDS Managed APs
- Logs
- Traffic Monitor
- Active Sessions

[LOGOUT](#)

**MANAGED AP STATUS**

Show all the details of managed AP.

List of Managed APs	MAC Address (*) Peer Managed	IP Address	Age	Status	Profile	Radio Interface
<input type="checkbox"/>	*28:10:7b:e6:f1:c0	192.168.10.207	0d:00:00:04	Managed	1-Default	2-802.11b/g/n
<input type="checkbox"/>	*28:10:7b:e7:17:e0	192.168.10.211	0d:00:00:03	Managed	1-Default	2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8e:6c:80	192.168.10.210	0d:00:00:03	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8f:1c:00	192.168.10.204	0d:00:00:02	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8f:22:80	192.168.10.209	0d:00:00:03	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8f:32:80	192.168.10.206	0d:00:00:02	Managed	1-Default	1-Off, 2-802.11b/g/n

Auto Refresh

**Helpful Hints...**

We can see all the details related to a managed AP here. We can perform action like reset, disassociate clients connected with selected AP.

[More...](#)

WIRELESS CONTROLLER



[Einstellung um das AP-Limit mittels des Peering zu erhöhen.]

5.) Passen Sie wie in Punkt 2 dieser Anleitung beschrieben die Peering-Einstellungen an.

Deaktivieren Sie die Option „AP Database“, damit jeder DWC-1000 die maximale Anzahl an APs managen kann.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

The screenshot shows the configuration page for a D-Link DWC-1000. The 'AP Database' option is circled in red. The page includes a navigation menu on the left, a main configuration area, and a 'Helpful Hints...' section on the right.

**Peer Controller Configuration**

- Global: Enable
- Discovery: Enable
- Channel/Power: Enable
- AP Database: Disable**
- AP Profiles: Enable
- Known Client: Enable
- Captive Portal: Disable
- RADIUS Client: Enable

**Helpful Hints...**  
You can make changes to a configuration that has been sent to one or more peer controllers, and you can make changes to a configuration received from a peer controller. No changes automatically propagate from one controller to the cluster; you must manually initiate a request on one controller in order to copy any configuration to its peers.  
[More...](#)

Am Peer-Master-DWC-1000 wurden bereits 6 APs in das Management übernommen.

The screenshot shows the 'List of APs' table in the configuration page. The table lists 12 APs with their MAC addresses, IP addresses, ages, statuses, radio types, and channels.

MAC Address	IP Address	Age	Status	Radio	Channel
<input type="checkbox"/> 28:10:7b:e6:f1:c0	192.168.10.207	0h:0m:4s	Managed	2-802.11b/g/n	3
<input type="checkbox"/> 28:10:7b:e7:17:e0	192.168.10.211	0h:0m:4s	Managed	2-802.11b/g/n	5
<input type="checkbox"/> 90:94:e4:8e:16:c:80	192.168.10.210	0h:0m:2s	Managed	1-Off, 2-802.11b/g/n	, 4
<input type="checkbox"/> 90:94:e4:8f:1c:00	192.168.10.204	0h:0m:2s	Managed	1-Off, 2-802.11b/g/n	, 2
<input type="checkbox"/> 90:94:e4:8f:22:80	192.168.10.209	0h:0m:2s	Managed	1-Off, 2-802.11b/g/n	, 9
<input type="checkbox"/> 90:94:e4:8f:32:80	192.168.10.206	0h:0m:2s	Managed	1-Off, 2-802.11b/g/n	, 2
<input type="checkbox"/> 90:94:e4:8f:32:00	192.168.10.124	0h:0m:28s	No Database Entry	N/A	N/A
<input type="checkbox"/> 90:94:e4:8f:49:80	192.168.10.205	0h:0m:3s	No Database Entry	N/A	N/A
<input type="checkbox"/> 90:94:e4:8f:54:c0	192.168.10.208	0h:0m:37s	No Database Entry	N/A	N/A
<input type="checkbox"/> 90:94:e4:8f:55:80	192.168.10.213	0h:0m:3s	No Database Entry	N/A	N/A
<input type="checkbox"/> 90:94:e4:8f:74:00	192.168.10.212	0h:0m:33s	No Database Entry	N/A	N/A
<input type="checkbox"/> 90:94:e4:8f:7a:80	192.168.10.214	0h:0m:28s	No Database Entry	N/A	N/A
<input type="checkbox"/> 00:17:9a:d2:c2:78	N/A	0h:44m:58s	Unknown	802.11b	11

**Helpful Hints...**  
We can Delete, Manage, Acknowledge and view details of all AP here.  
[More...](#)

Am Peer-Slave-DWC-1000 wurde bisher noch kein AP in das Management übernommen.

**DWC-1000** // SETUP ADVANCED TOOLS STATUS HELP

Dashboard | Global Info | Device Info | Access Point Info | LAN Clients Info | Wireless Client Info | WDS Managed APs | Logs | Traffic Monitor | Active Sessions

**ACCESS POINTS SUMMARY** LOGOUT

The All AP Summary page shows summary information about managed, failed, and rogue access points the controller has discovered or detected.

**List of APs**

	MAC Address	IP Address	Age	Status	Radio	Channel
<input type="checkbox"/>	90:94:e4:8f:32:00	192.168.10.124	0h:0m:7s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:49:80	192.168.10.205	0h:0m:7s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:54:c0	192.168.10.208	0h:0m:7s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:55:80	192.168.10.213	0h:0m:7s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:74:00	192.168.10.212	0h:0m:7s	No Database Entry	N/A	N/A
<input type="checkbox"/>	90:94:e4:8f:7a:80	192.168.10.214	0h:0m:7s	No Database Entry	N/A	N/A

Helpful Hints... We can Delete, Manage, Acknowledge and view details of all AP here. More...

Übernehmen Sie nun am Peer-Slave-DWC-1000 die entsprechenden APs in das Management.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

**D-Link**

**DWC-1000** // SETUP ADVANCED TOOLS STATUS HELP

Dashboard | Global Info | Device Info | Access Point Info | LAN Clients Info | Wireless Client Info | WDS Managed APs | Logs | Traffic Monitor | Active Sessions

**ACCESS POINTS SUMMARY** LOGOUT

The All AP Summary page shows summary information about managed, failed, and rogue access points the controller has discovered or detected.

**List of APs**

	MAC Address	IP Address	Age	Status	Radio	Channel
<input type="checkbox"/>	90:94:e4:8f:32:00	192.168.10.124	0h:0m:2s	Managed	1-Off, 2-802.11b/g/n	, 9
<input type="checkbox"/>	90:94:e4:8f:49:80	192.168.10.205	0h:0m:1s	Managed	1-Off, 2-802.11b/g/n	, 5
<input type="checkbox"/>	90:94:e4:8f:54:c0	192.168.10.208	0h:0m:2s	Managed	1-Off, 2-802.11b/g/n	, 4
<input type="checkbox"/>	90:94:e4:8f:55:80	192.168.10.213	0h:0m:2s	Managed	1-Off, 2-802.11b/g/n	, 5
<input type="checkbox"/>	90:94:e4:8f:74:00	192.168.10.212	0h:0m:1s	Managed	1-Off, 2-802.11b/g/n	, 8
<input type="checkbox"/>	90:94:e4:8f:7a:80	192.168.10.214	0h:0m:19s	Managed	1-Off, 2-802.11b/g/n	, 0
<input type="checkbox"/>	90:94:e4:8e:6c:90	N/A	0h:0m:2s	Unknown	802.11b	4
<input type="checkbox"/>	90:94:e4:8e:6c:91	N/A	0h:0m:2s	Unknown	802.11b	4
<input type="checkbox"/>	90:94:e4:8f:49:90	N/A	0h:0m:31s	Unknown	802.11g	3
<input type="checkbox"/>	90:94:e4:8f:55:90	N/A	0h:0m:31s	Unknown	802.11g	3

Delete All Manage Acknowledge View Details Refresh

Auto Refresh

Helpful Hints... We can Delete, Manage, Acknowledge and view details of all AP here. More...

WIRELESS CONTROLLER

Im Anschluss daran prüfen Sie am Peer-Master-DWC-1000 die AP-Datenbank.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

## D-Link®

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Dashboard Global Info Device Info Access Point Info LAN Clients Info Wireless Client Info WDS Managed APs Logs Traffic Monitor Active Sessions

### ACCESS POINTS SUMMARY LOGOUT

The All AP Summary page shows summary information about managed, failed, and rogue access points the controller has discovered.

#### List of APs

	MAC Address	IP Address	Age	Status	Radio	Channel
<input type="checkbox"/>	28:10:7b:e6:f1:c0	192.168.10.207	0h:0m:1s	Managed	2-802.11b/g/n	3
<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.211	0h:0m:0s	Managed	2-802.11b/g/n	5
<input type="checkbox"/>	90:94:e4:8e:6c:80	192.168.10.210	0h:0m:4s	Managed	1-Off, 2-802.11b/g/n	, 4
<input type="checkbox"/>	90:94:e4:8f:1c:00	192.168.10.204	0h:0m:4s	Managed	1-Off, 2-802.11b/g/n	, 2
<input type="checkbox"/>	90:94:e4:8f:22:80	192.168.10.209	0h:0m:4s	Managed	1-Off, 2-802.11b/g/n	, 9
<input type="checkbox"/>	90:94:e4:8f:32:00	192.168.10.124	0h:0m:1s	Managed	1-Off, 2-802.11b/g/n	, 9
<input type="checkbox"/>	90:94:e4:8f:32:80	192.168.10.206	0h:0m:4s	Managed	1-Off, 2-802.11b/g/n	, 2
<input type="checkbox"/>	90:94:e4:8f:49:80	192.168.10.205	0h:0m:1s	Managed	1-Off, 2-802.11b/g/n	, 5
<input type="checkbox"/>	90:94:e4:8f:54:c0	192.168.10.208	0h:0m:1s	Managed	1-Off, 2-802.11b/g/n	, 4
<input type="checkbox"/>	90:94:e4:8f:55:80	192.168.10.213	0h:0m:2s	Managed	1-Off, 2-802.11b/g/n	, 5
<input type="checkbox"/>	90:94:e4:8f:74:00	192.168.10.212	0h:0m:1s	Managed	1-Off, 2-802.11b/g/n	, 8
<input type="checkbox"/>	90:94:e4:8f:7a:80	192.168.10.214	0h:0m:1s	Managed	1-Off, 2-802.11b/g/n	, 3
<input type="checkbox"/>	00:17:9a:d2:c2:78	N/A	0h:50m:4s	Unknown	802.11b	11

Helpful Hints... We can Delete, Manage, Acknowledge and view details of all AP here. More...

Bei der Option „Managed-APs“ können Sie am Peer-Master-DWC-1000 sehen, welche APs lokal und welche APs durch einen Peer-DWC-1000 gemanaged werden. (NUR am Peer-Master-DWC-1000 können Sie alle managed APs sehen, die einzelnen Peer-Slave-DWC-1000 zeigen jeweils nur Ihre lokal managed APs an)

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3\_B301\_WW

## D-Link®

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Dashboard Global Info Device Info Access Point Info LAN Clients Info Wireless Client Info WDS Managed APs Logs Traffic Monitor Active Sessions

### MANAGED AP STATUS LOGOUT

Show all the details of managed AP.

#### List of Managed APs

	MAC Address (*) Peer Managed	IP Address	Age	Status	Profile	Radio Interface
<input type="checkbox"/>	28:10:7b:e6:f1:c0	192.168.10.207	0d:00:00:02	Managed	1-Default	2-802.11b/g/n
<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.211	0d:00:00:02	Managed	1-Default	2-802.11b/g/n
<input type="checkbox"/>	90:94:e4:8e:6c:80	192.168.10.210	0d:00:00:01	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	90:94:e4:8f:1c:00	192.168.10.204	0d:00:00:01	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	90:94:e4:8f:22:80	192.168.10.209	0d:00:00:01	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8f:32:00	192.168.10.124	0d:00:00:03	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	90:94:e4:8f:32:80	192.168.10.206	0d:00:00:01	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8f:49:80	192.168.10.205	0d:00:00:03	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8f:54:c0	192.168.10.208	0d:00:00:03	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8f:55:80	192.168.10.213	0d:00:00:04	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8f:74:00	192.168.10.212	0d:00:00:03	Managed	1-Default	1-Off, 2-802.11b/g/n
<input type="checkbox"/>	*90:94:e4:8f:7a:80	192.168.10.214	0d:00:00:03	Managed	1-Default	1-Off, 2-802.11b/g/n

View AP Details View Radio Details View Neighbor APs

View Neighbor Clients View VAP Details View Distributed Tunneling Details

Delete Delete All Refresh  Auto Refresh

WIRELESS CONTROLLER

Helpful Hints... We can see all the details related to a managed AP here. We can perform action like reset, disassociate clients connected with selected AP. More...

Wenn Sie nun z.B. ein Firmwareupdate auf allen managed APs durchführen wollen, so können Sie dies zentral durch den Peer-Master-DWC-1000 durchführen.

WLAN Global Settings
SOFTWARE DOWNLOAD
LOGOUT

The Unified Wireless Controller can upgrade software on the APs that it manages. The Cluster Controller can update code on APs managed by peer wireless controllers.

**Access Point Software Download**

**Server Address:**

**Img\_dwl8600** **DLink 8600 AP Radios**

**File Path:**

**File Name:**

**Img\_dwl3600/6600** **DLink 3600/6600 AP Radios**

**File Path:**

**File Name:**

**Img\_dwl2600** **DLink 2600 AP Radios**

**File Path:**

**File Name:**

**Group Size:**  (1 to 6)

**Image Download Type:**

**Managed AP:**

28:10:7b:e6:f1:c0 - 192.168.10.207 -  
 28:10:7b:e7:17:e0 - 192.168.10.211 -  
 90:94:e4:8e:6c:80 - 192.168.10.210 -  
 90:94:e4:8f:1c:00 - 192.168.10.204 -  
 90:94:e4:8f:22:80 - 192.168.10.209 -  
 90:94:e4:8f:32:00 - 192.168.10.124 -  
 90:94:e4:8f:32:80 - 192.168.10.206 -  
 90:94:e4:8f:49:80 - 192.168.10.205 -  
 90:94:e4:8f:54:c0 - 192.168.10.208 -

It may take about 12 minutes for the upgrade process to complete for an AP. After this process is complete, Please do not reset the APs when NVRAM update is in progress. the AP will restart automatically and will become managed again.

Beachten Sie bitte, dass Sie mit der derzeitigen Firmware jeweils immer nur maximal 6 APs gleichzeitig aktualisieren können.

**Code Download Status**

<b>Status</b>	NVRAM Update In Progress
<b>Download Count</b>	6
<b>Success Count</b>	0
<b>Failure Count</b>	0
<b>Abort Count</b>	0

**AP Status**

AP MAC Address	Location	Status	Software Version
28:10:7B:E6:F1:C0		NVRAM Update In Progress	4.1.0.14
28:10:7B:E7:17:E0		NVRAM Update In Progress	4.1.0.11
90:94:E4:8E:6C:80		NVRAM Update In Progress	4.1.0.11
90:94:E4:8F:1C:00		NVRAM Update In Progress	4.1.0.11
90:94:E4:8F:22:80		NVRAM Update In Progress	4.1.0.11
90:94:E4:8F:32:00		Aborted	4.1.0.11
90:94:E4:8F:54:C0		NVRAM Update In Progress	4.1.0.11

It may take about 12 minutes for the upgrade process to complete for an AP. After this process is complete, Please do not reset the APs when NVRAM update is in progress. the AP will restart automatically and will become managed again.

The screenshot displays the 'Code Download Status' and 'AP Status' sections of a D-Link Wireless Controller interface. The 'Code Download Status' section shows a successful download with 6 counts for both download and success, and 0 for failure and abort. The 'AP Status' section shows a table with one entry for an AP with MAC address 90:94:E4:8F:32:00, which is currently 'Aborted' and running software version 4.1.0.11. A warning message below the table states: 'It may take about 12 minutes for the upgrade process to complete for an AP. After this process is complete, please do not reset the APs when NVRAM update is in progress. The AP will restart automatically and will become managed again.' Below the warning are 'Start' and 'Refresh' buttons. The interface is titled 'WIRELESS CONTROLLER' at the bottom.

Code Download Status	
Status	Success
Download Count	6
Success Count	6
Failure Count	0
Abort Count	0

AP Status			
AP MAC Address	Location	Status	Software Version
90:94:E4:8F:32:00		Aborted	4.1.0.11

⚠ It may take about 12 minutes for the upgrade process to complete for an AP. After this process is complete, please do not reset the APs when NVRAM update is in progress. The AP will restart automatically and will become managed again.

Start Refresh

WIRELESS CONTROLLER

Beachten Sie bitte, dass Sie alle Änderungen, welche Sie am Peer-Master-DWC-1000 durchführen auch an die entsprechenden Peer-Slave-DWC-1000 übermitteln.

Diese Einstellungen/Anpassungen werden automatisch auf den entsprechenden DWC-1000 nach der Übermittlung durch den Peer-Master aktiv.

- ⇒ In dieser Anleitung wurde das Clustering/Peering zwischen den DWC-1000 innerhalb eines VLAN (IP-Subnetz) durchgeführt. Bei entsprechender Routingkonfiguration ist dies auch innerhalb verschiedener IP-Subnetze möglich.
- ⇒ Sie müssen hierzu die Routinginstanz innerhalb Ihres Netzwerks korrekt konfigurieren, sowie die IP-Adresse der jeweiligen DWC-1000 in den AP-Poll Listen eintragen.
- ⇒ Beachten Sie hierbei jedoch, dass der DWC-1000 MIT VPN Lizenz keine 0/0-Route mehr unterstützt.