

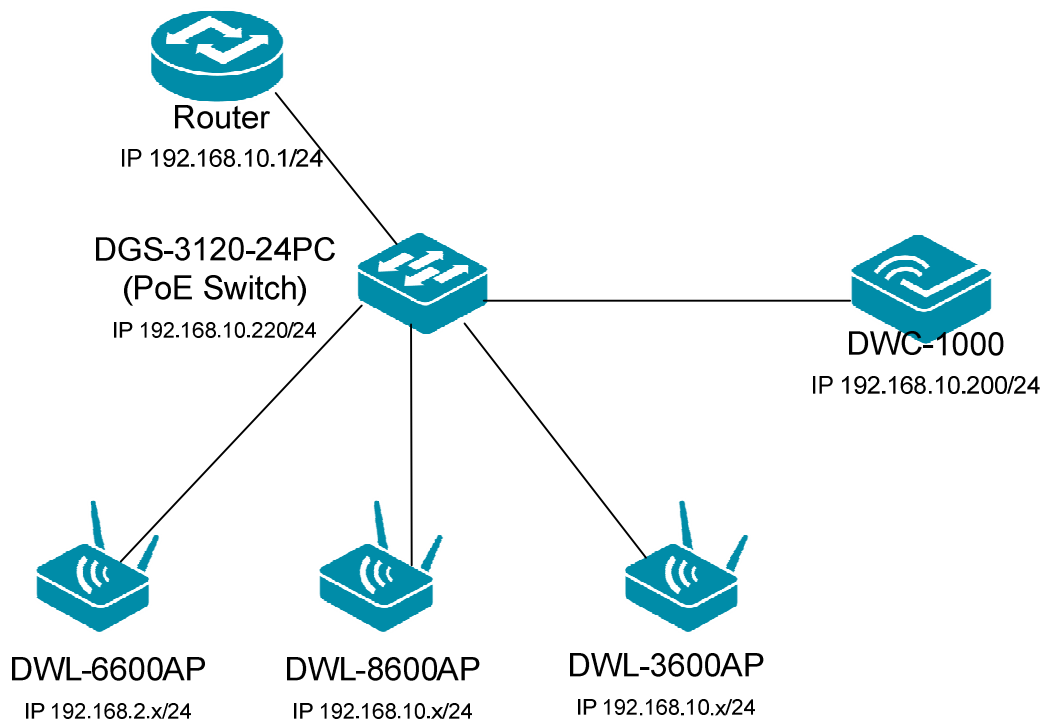
# HowTo: Einrichtung & Management von APs mittels des DWC-1000

## [Voraussetzungen]

1. DWC-1000 mit Firmware Version: 4.1.0.2 und höher
2. Kompatibler AP mit aktueller Firmware 4.1.0.8 und höher (**DWL-8600AP, DWL-6600AP & DWL-3600AP**)

## [Szenario]

Mehrere APs sollen in einem Netzwerksegment zentral verwaltet werden.  
Die APs sind per PoE (Power over Ethernet) an einem zentralen Switch angeschlossen.



[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/>) 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 führen Sie den Assistenten ohne große Unterbrechungen aus, da sonst leider Ihre Administrationssitzung beim letzten Konfigurationsschritt abbrechen (time out) kann.
- ⇒ Bitte beachten Sie, dass die Einstellungen aus Schritt 2 des Assistenten zu den Hardwarefähigkeiten der zu managenden APs in Schritt 4 passt, da es sonst zu einer Fehlermeldung mit Abbruch des Assistenten kommt.
- ⇒ Wollen Sie APs mit verschiedenen Hardwarefähigkeiten gleichzeitig managen, so legen Sie bitte verschiedene Profile für die jeweiligen AP-Typen an.

**[Einrichtung mittels Assistent]**

- 1.) Bitte starten Sie den WLAN Einrichtungsassistenten und folgen Sie den Anweisungen (zum nächsten Einrichtungsschritt mit der Schaltfläche „next“ weitergehen)

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

The screenshot shows the D-Link web interface for the DWC-1000. The top navigation bar includes 'DWC-1000', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'HELP'. The left sidebar lists various configuration options like Wizard, WLAN Global Settings, AP Management, etc. The main content area is titled 'Internet Connection Setup Wizard' and contains a button labeled 'Internet Connection Setup Wizard'. A 'Note' at the bottom of the wizard section states: 'Note: Before launching these wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.' Below this is a section for 'Manual Internet Connection Options' with a button labeled 'Manual Internet Connection Setup'. On the right side, there is a 'Helpful Hints...' section with text for new users and a 'More...' link. The footer of the page reads 'WIRELESS CONTROLLER'.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

The screenshot shows the D-Link web interface for the DWC-1000, specifically the 'WLAN CONNECTION' section. The top navigation bar is the same as in the previous screenshot. The left sidebar is also the same. The main content area is titled 'WLAN CONNECTION' and contains a button labeled 'WLAN Setup Wizard'. A 'Note' at the bottom of the wizard section states: 'Note: Before launching these wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.' Below this is a section for 'Manual Internet Connection Options' with a button labeled 'Manual Internet Connection Setup'. On the right side, there is a 'Helpful Hints...' section with text for new users and a 'More...' link. The footer of the page reads 'WIRELESS CONTROLLER'.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 //

**Welcome to the D-Link WLAN Setup Wizard**

- Step 1: Wireless Global Configuration
- Step 2: Wireless Default Radio Configuration
- Step 3: Wireless Default VAP Configuration
- Step 4: Valid Access Point Summary
- Step 5: Save Settings and Connect

Prev Next Cancel Connect

Next

**WIRELESS CONTROLLER**

Bei Schritt 1 wählen Sie bitte den für Sie gültigen Ländercode (zu verwendenden Frequenzbänder) aus, in diesem Beispiel wird „DE“ für Deutschland verwendet

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 //

**Step 1: Wireless Global Configuration**

Country Code: DE - Germany

Prev Next Cancel Connect

**WIRELESS CONTROLLER**

Bei Schritt 2 können Sie die verwendeten Frequenzbänder (2,4 GHz und 5 GHz) für das Standard („default“) Profil auswählen

- Sie haben hier auch die Möglichkeit erweiterte Einstellungen für das Standardprofil vorzunehmen. Für weitergehende Informationen zu diesem Konfigurationspunkt konsultieren Sie bitte das Handbuch.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 //

**Step 2: Wireless Default Radio Configuration**

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

**State:**  On  
 Off

**AP Profile Name**

**Maximum Clients:**

**RF Scan Other Channels:**

**Mode:**  ▼

**Automatic Channel:**

**Automatic Power:**

**Initial Power:**  (%)

WIRELESS CONTROLLER

Bei Schritt 3 können Sie die SSID und die Verschlüsselung Ihres Wireless Netzwerkes definieren.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 //

**Step 3: Wireless Default VAP Configuration**

SSID:

Hide SSID:

Security:

**WIRELESS CONTROLLER**

In diesem Beispiel wird die SSID „TEST-WLAN“ mit der Verschlüsselung WPA/WPA2-PSK (Key 123456789) eingerichtet. (! Bestimmte Sonderzeichen werden derzeit nicht unterstützt !)

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 //

**Step 3: Wireless Default VAP Configuration**

SSID:

Hide SSID:

Security:

WPA Key:

**WIRELESS CONTROLLER**

Bei Schritt 4 müssen Sie die MAC Adresse des zu managenden APs angeben und den Modus (StandAlone, Managed, Rouge) des APs angeben.

- Die MAC Adresse ist immer auch am AP direkt am Typenschild ablesbar
- Die Location kann zur besseren Zuordnung angegeben werden, hat aber keinen direkten Einfluss auf das Management des AP
- Das Authentifizierungspasswort kann verwendet werden, jedoch muss dies am AP und am Controller DWC-1000 gleich sein. Dies hat direkten Einfluss auf das Management der APs. Ein Passwort ist nicht für das Management notwendig.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 //

**Step 4: Valid Access Point Summary**

MAC address:

AP Mode:

Location:

Authentication Password:

WIRELESS CONTROLLER

In diesem Beispiel wird die MAC Adresse eines DWL-3600AP verwendet.

Es wird kein Authentifizierungspasswort verwendet.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 //

**Step 4: Valid Access Point Summary**

MAC address:

AP Mode:

Location:

Authentication Password:

WIRELESS CONTROLLER

Bei Schritt 5 haben Sie die Möglichkeit den Assistenten abzuschließen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 //

**Step 5: Setup Complete!**

The WLAN Connection Setup Wizard has completed. Click the Connect button to save your settings and connect.

WIRELESS CONTROLLER



Im Anschluss an den Assistenten können Sie mittels „Status -> Access Point Info -> Managed AP Status“ den neuen AP als managed erkennen

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Dashboard  
Global Info  
Device Info  
Access Point Info  
LAN Clients Info  
Wireless Client Info  
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:e7:17:e0	192.168.10.240	0d:00:00:05	Managed	1-default	2-2.4GHz 802.11n

View AP Details View Radio Details View Neighbor APs

View Neighbor Clients View VAP Details View Distributed Tunneling Details

Delete Delete All 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 weitere APs zu dem bereits vorhandenen Profil hinzufügen wollen, so können Sie dies mittels „Status -> Access Point Info -> APs Summary“ tun.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Dashboard  
Global Info  
Device Info  
Access Point Info  
LAN Clients Info  
Wireless Client Info  
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:e7:17:e0	192.168.10.240	0h:0m:4s	Managed	2-2.4GHz 802.11n	1
<input type="checkbox"/>	1c:bd:b9:c5:5c:80	192.168.10.104	0h:0m:24s	No Database Entry	N/A	N/A
<input type="checkbox"/>	00:18:e7:92:6a:f5	N/A	0h:9m:10s	Unknown	802.11b	4
<input type="checkbox"/>	00:24:01:38:f5:e3	N/A	0h:1m:40s	Unknown	802.11b	11
<input type="checkbox"/>	06:18:e7:cd:69:58	N/A	0h:1m:40s	Unknown	802.11b	12
<input type="checkbox"/>	34:08:04:24:14:ae	N/A	0h:9m:10s	Unknown	802.11b	4

Delete All Manage Acknowledge View Details Refresh

**WIRELESS CONTROLLER**

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

- Der hinzuzufügende AP (DWL-8600AP mit der MAC Adresse 1C:BD:D9:C5:5C:80) befindet sich bereits im gleichen Netzwerk und wird vom DWC-1000 erkannt
- zum managen des AP die MAC auswählen und auf die Schaltfläche „Manage“ drücken

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 //	SETUP	ADVANCED	TOOLS	STATUS	HELP																																																	
<ul style="list-style-type: none"> <li>Dashboard ▶</li> <li>Global Info ▶</li> <li>Device Info ▶</li> <li>Access Point Info ▶</li> <li>LAN Clients Info ▶</li> <li>Wireless Client Info ▶</li> <li>Logs ▶</li> <li>Traffic Monitor ▶</li> <li>Active Sessions ▶</li> </ul>	<div style="border: 1px solid #ccc; padding: 5px;"> <p style="text-align: right; margin: 0;"><a href="#">LOGOUT</a></p> <p style="margin: 5px 0 0 0;"><b>ACCESS POINTS SUMMARY</b></p> <p style="margin: 5px 0 0 0;">The All AP Summary page shows summary information about managed, failed, and rogue access points the controller has discovered or detected.</p> <hr/> <p style="margin: 0;"><b>List of APs</b></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 20%;">MAC Address</th> <th style="width: 15%;">IP Address</th> <th style="width: 10%;">Age</th> <th style="width: 15%;">Status</th> <th style="width: 15%;">Radio</th> <th style="width: 10%;">Channel</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>28:10:7b:e7:17:e0</td> <td>192.168.10.240</td> <td>0h:0m:2s</td> <td>Managed</td> <td>2-2.4GHz 802.11n</td> <td>1</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>1c:bd:b9:c5:5c:80</td> <td>192.168.10.104</td> <td>0h:0m:11s</td> <td>No Database Entry</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td><input type="checkbox"/></td> <td>00:18:e7:92:6a:f5</td> <td>N/A</td> <td>0h:10m:58s</td> <td>Unknown</td> <td>802.11b</td> <td>4</td> </tr> <tr> <td><input type="checkbox"/></td> <td>00:24:01:38:f5:e3</td> <td>N/A</td> <td>0h:3m:28s</td> <td>Unknown</td> <td>802.11b</td> <td>11</td> </tr> <tr> <td><input type="checkbox"/></td> <td>06:18:e7:cd:69:58</td> <td>N/A</td> <td>0h:3m:28s</td> <td>Unknown</td> <td>802.11b</td> <td>12</td> </tr> <tr> <td><input type="checkbox"/></td> <td>34:08:04:24:14:ae</td> <td>N/A</td> <td>0h:10m:58s</td> <td>Unknown</td> <td>802.11b</td> <td>4</td> </tr> </tbody> </table> <p style="margin: 10px 0 0 0;"> <input type="button" value="Delete All"/> <input type="button" value="Manage"/> <input type="button" value="Acknowledge"/> <input type="button" value="View Details"/> <input type="button" value="Refresh"/> </p> </div>					MAC Address	IP Address	Age	Status	Radio	Channel	<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.240	0h:0m:2s	Managed	2-2.4GHz 802.11n	1	<input checked="" type="checkbox"/>	1c:bd:b9:c5:5c:80	192.168.10.104	0h:0m:11s	No Database Entry	N/A	N/A	<input type="checkbox"/>	00:18:e7:92:6a:f5	N/A	0h:10m:58s	Unknown	802.11b	4	<input type="checkbox"/>	00:24:01:38:f5:e3	N/A	0h:3m:28s	Unknown	802.11b	11	<input type="checkbox"/>	06:18:e7:cd:69:58	N/A	0h:3m:28s	Unknown	802.11b	12	<input type="checkbox"/>	34:08:04:24:14:ae	N/A	0h:10m:58s	Unknown	802.11b	4	<p><b>Helpful Hints...</b></p> <p style="font-size: small;">We can Delete, Manage, Acknowledge and view details of all AP here.</p> <p style="color: blue; font-size: small;"><a href="#">More...</a></p>
	MAC Address	IP Address	Age	Status	Radio	Channel																																																
<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.240	0h:0m:2s	Managed	2-2.4GHz 802.11n	1																																																
<input checked="" type="checkbox"/>	1c:bd:b9:c5:5c:80	192.168.10.104	0h:0m:11s	No Database Entry	N/A	N/A																																																
<input type="checkbox"/>	00:18:e7:92:6a:f5	N/A	0h:10m:58s	Unknown	802.11b	4																																																
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**WIRELESS CONTROLLER**

- Die MAC Adresse ist immer auch am AP direkt am Typenschild ablesbar, wird in diesem Fall aber bereits vom DWC-1000 erkannt
- Die Location kann zur besseren Zuordnung angegeben werden, hat aber keinen direkten Einfluss auf das Management des AP
- Das Authentifizierungspasswort kann verwendet werden, jedoch muss dies am AP und am Controller DWC-1000 gleich sein. Dies hat direkten Einfluss auf das Management der APs. Ein Passwort ist nicht für das Management notwendig.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000	SETUP	ADVANCED	TOOLS	STATUS	HELP
<ul style="list-style-type: none"> <li>Wizard ▶</li> <li>WLAN Global Settings</li> <li>AP Management ▶</li> <li>Option Port Settings ▶</li> <li>Network Settings ▶</li> <li>LAN QoS ▶</li> <li>GVRP</li> <li>VLAN Settings ▶</li> <li>USB Settings ▶</li> </ul>	<p><b>VALID AP</b> <span style="float: right;">LOGOUT</span></p> <p>We can set the Valid Access Point Configuration here.</p> <p style="text-align: center;"> <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/> </p> <p><b>Valid Access Point Configuration</b></p> <p><b>MAC address:</b> 1c:bd:b9:c5:5c:80</p> <p><b>AP Mode</b> <span style="float: right;">Managed ▼</span></p> <p><b>Location:</b> <input type="text"/></p> <p><b>Authentication Password:</b> <input type="password"/> <input type="button" value="Edit"/></p> <p><b>Profile:</b> 1 - default ▼</p> <p><b>Expected SSID:</b> <input type="text"/></p> <p><b>Expected Channel:</b> Any ▼</p> <p><b>Expected WDS Mode:</b> Any ▼</p> <p><b>Expected Security Mode:</b> Any ▼</p> <p><b>Expected Wired Network Mode :</b> Allowed ▼</p> <hr/> <p><b>Radio 1 - 802.11a/n</b></p> <p><b>Channel:</b> Auto ▼</p> <p><b>Power:</b> 0 ▼</p> <hr/> <p><b>Radio 2 - 802.11b/g/n</b></p> <p><b>Channel:</b> Auto ▼</p> <p><b>Power:</b> 0 ▼</p>				<p><b>Helpful Hints...</b></p> <p>We can configure Valid Access Point here. Several information is attached with AP, like MAC Address, AP Mode etc.</p> <p><a href="#">More...</a></p>

**WIRELESS CONTROLLER**

Nach dem Bestätigen der Einstellungen mit der Schaltfläche „Save Settings“ wird der AP gemanged.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

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DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Dashboard  
Global Info  
Device Info  
Access Point Info  
LAN Clients Info  
Wireless Client Info  
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:e7:17:e0	192.168.10.240	0h:0m:0s	Managed	2-2.4GHz 802.11n	1
<input type="checkbox"/>	1c:bd:b9:c5:5c:80	192.168.10.104	0h:0m:6s	No Database Entry	N/A	N/A
<input type="checkbox"/>	00:17:9a:d3:08:48	N/A	0h:16m:26s	Unknown	802.11b	1
<input type="checkbox"/>	00:17:9a:d3:08:48	N/A	0h:16m:26s	Unknown	802.11b	1
<input type="checkbox"/>	06:18:e7:cd:69:58	N/A	0h:20m:26s	Unknown	802.11b	12
<input type="checkbox"/>	22:18:e7:92:67:46	N/A	0h:16m:26s	Unknown	802.11b	1
<input type="checkbox"/>	2a:10:7b:c1:e8:d7	N/A	0h:16m:26s	Unknown	802.11b	1
<input type="checkbox"/>	34:08:04:24:14:ae	N/A	0h:27m:56s	Unknown	802.11b	4
<input type="checkbox"/>	74:31:70:46:6d:2a	N/A	0h:15m:57s	Unknown	802.11b	1
<input type="checkbox"/>	90:94:e4:bf:90:8c	N/A	0h:16m:26s	Unknown	802.11b	1
<input type="checkbox"/>	cc:b2:55:cd:d3:f3	N/A	0h:16m:26s	Unknown	802.11b	1

Meldung von Webseite

 The following AP MAC address was configured as a Valid AP by this Controller. The AP configured as managed, will be managed at the next discovery cycle: 1c:bd:b9:c5:5c:80

OK

Delete All Manage Acknowledge View Details Refresh

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

**WIRELESS CONTROLLER**

Im Anschluss an den Vorgang können Sie mittels „Status -> Access Point Info -> Managed AP Status“ den neuen AP als managed erkennen

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Dashboard ▶  
Global Info ▶  
Device Info ▶  
Access Point Info ▶  
LAN Clients Info ▶  
Wireless Client Info ▶  
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"/>	1c:bd:b9:c5:5c:80	192.168.10.104	0h:0m:4s	Managed	1-802.11a/n, 2-2.4GHz 802.11n	36, 11
<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.240	0h:0m:3s	Managed	2-2.4GHz 802.11n	1

Delete All Manage Acknowledge View Details Refresh

**WIRELESS CONTROLLER**

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

## [manuelles Einrichtung eines Profil]

Über den Menüpunkt „Advanced -> AP Profile“ können Sie ein weiteres AP Profil anlegen oder das vorhandenen anpassen.

- Wählen Sie hierzu bitte die Schaltfläche „Add“ um ein neues Profil anzulegen
- Wählen Sie ein bestehendes Profil aus und wählen Sie die Schaltfläche „Edit“ aus um ein vorhandenes Profil zu bearbeiten
- Nachdem Sie ein vorhandenes Profil bearbeitet haben müssen Sie mit der Schaltfläche „Apply“ die Änderungen den zugehörigen APs mitteilen.

The screenshot shows the D-Link web interface for the DWC-1000. The top navigation bar includes 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'HELP'. The left sidebar lists various configuration options like 'Global', 'Peer Controllers', 'AP Profile', 'SSIDs', 'WIDS Security', 'Captive Portal', 'Client', 'IPv6', 'Routing', 'Certificates', 'Users', 'IP/MAC Binding', 'Radius Settings', 'WLAN Radius', and 'Switch Settings'. The main content area is titled 'AP PROFILES SUMMARY' and contains a 'LOGOUT' button. Below this is an 'Access Point Profile List' table with columns for 'Profile' and 'Profile Status'. The table shows one profile named '1-default' with a status of 'Associated'. Below the table are buttons for 'Edit', 'Delete', 'Add', 'Copy', and 'Apply'. At the bottom of the main area are buttons for 'Configure Radio', 'Configure SSID', and 'Configure QoS'. A 'Helpful Hints...' sidebar on the right provides information about creating and applying AP profiles.

Bei der Erstellung eines neuen Profils haben Sie die Möglichkeit folgende Dinge festzulegen:

- Profilname
- AP Typ für dieses Profil (Hardwaretyp)
- VLAN ID für das „discover“ der APs
  - o diese VLAN Einstellung ist wichtig für die Layer 2 Erkennung der APs
  - o das in dieser Option verwendete VLAN muss auch direkt auf dem DWC-1000 aufliegen und der DWC-1000 muss ein IP Interface in diesem VLAN haben
  - o Für die Einrichtung von VLANs konsultieren Sie bitte das Handbuch des DWC-1000
- In diesem Beispiel wurde der AP Hardwaretyp als DWL-6600AP und als Layer 2 VLAN Discovery das VLAN 2 ausgewählt.

# D-Link<sup>®</sup>

DWC-1000 //	SETUP	ADVANCED	TOOLS	STATUS	HELP
<ul style="list-style-type: none"> <li>Global ▶</li> <li>Peer Controllers ▶</li> <li style="background-color: #eee;">AP Profile</li> <li>SSIDs</li> <li>WIDS Security ▶</li> <li>Captive Portal ▶</li> <li>Client</li> <li>IPv6 ▶</li> <li>Routing ▶</li> <li>Certificates</li> <li>Users ▶</li> <li>IP/MAC Binding</li> <li>Radius Settings</li> <li>WLAN Radius ▶</li> <li>Switch Settings</li> </ul>	<div style="background-color: #0056b3; color: white; padding: 2px; display: flex; justify-content: space-between;"> <span><b>AP PROFILES SUMMARY</b></span> <span>LOGOUT</span> </div> <p style="font-size: small;">This page is used to configure a variety of global settings for a new or existing AP profile.</p> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/> </div> <hr/> <p><b>AP Profile Global Configuration</b></p> <p><b>Profile Name:</b> <input style="width: 100px;" type="text" value="Default"/></p> <p><b>Hardware Type:</b> <input style="border: none; border-bottom: 1px solid black; background-color: #eee; padding: 2px 5px;" type="text" value="Any"/> ▼</p> <p><b>Wired Network Discovery VLAN ID:</b> <input style="width: 80px;" type="text" value="1"/> (1 to 255)</p>				<p><b>Helpful Hints...</b></p> <p style="font-size: x-small;">When a new profile is added, this page automatically appears and is populated with the default AP settings. No special characters are allowed for Profile Name.</p> <p style="color: #0056b3; font-size: small;"><a href="#">More...</a></p>
<b>WIRELESS CONTROLLER</b>					

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<b>WIRELESS CONTROLLER</b>					

Bestätigen Sie die Einstellung mit der Schaltfläche „Save Settings“.

Betätigen Sie anschließend die Option „AP Profile“ um zurück zur Übersicht zu gelangen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Global ▶  
Peer Controllers ▶  
AP Profile  
SSIDs  
WIDS Security ▶  
Captive Portal ▶  
Client  
IPv6 ▶  
Routing ▶  
Certificates  
Users ▶  
IP/MAC Binding  
Radius Settings  
WLAN Radius ▶  
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**

<input type="checkbox"/>	Profile	Profile Status
<input type="checkbox"/>	1-default	Associated
<input checked="" type="checkbox"/>	2-VLAN2	Configured

Edit Delete Add Copy Apply

Configure Radio Configure SSID Configure QoS

**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**

Hier können Sie Ihr neu angelegtes Profil sehen und weitergehende Konfigurationen durchführen

- Radio
  - Für jedes Profil kann eine eigene Konfiguration der WLAN Radio vorgenommen werden (ein AP kann immer nur einem Profil angehören)
- SSID
  - Für jedes Profil kann eine eigene Konfiguration der SSIDs vorgenommen werden (! Die „default“ SSID des Profil „default“ wird jedoch immer auf allen Profilen ausgestrahlt. Sollten Sie dies nicht wünschen, so benutzen Sie als „default SSID“ für das „Default Profil“ eine DUMMY SSID zu welcher sich kein Client verbinden kann.)
- QoS
  - Für jedes Profil kann eine eigene QoS (Quality of Service) Konfiguration vorgenommen werden





DWC-1000	SETUP	ADVANCED	TOOLS	STATUS	HELP																																																																					
Global	<div style="background-color: #0070C0; color: white; padding: 2px;">AP PROFILES SUMMARY</div> <div style="text-align: right; color: #0070C0; font-weight: bold;">LOGOUT</div> <p>This page contains several fields that are not available for the default AP Profile.</p> <p> <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/> </p>				<p><b>Helpful Hints...</b></p> <p>AP can support up to two radios. By default, Radio 1 operates in the IEEE 802.11b/g/n mode, and Radio 2 operates in the IEEE 802.11a/n mode. The difference between these modes is the frequency in which they operate. IEEE 802.11b/g/n operates in the 2.4 GHz frequency, and IEEE 802.11a/n operates in the 5 GHz frequency of the radio spectrum.</p> <p><a href="#">More...</a></p>																																																																					
Peer Controllers																																																																										
AP Profile	<p><b>AP Profile Radio Configuration</b></p> <p><b>AP Profile:</b> AP Profile 2-VLAN2</p> <p><b>Radio Mode:</b> <input type="radio"/> 1-802.11a/n <input checked="" type="radio"/> 2-802.11b/g/n</p>																																																																									
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Switch Settings																																																																										
	<p><b>Radio Configuration</b></p> <p><b>State:</b> <input checked="" type="radio"/> On <input type="radio"/> Off</p> <p><b>RTS Threshold:</b> <input type="text" value="2347"/> (0 to 2347) (Bytes)</p> <p><b>Load Balancing:</b> <input type="checkbox"/></p> <p><b>Load Utilization:</b> <input type="text" value="60"/> (1 to 100) (%)</p> <p><b>Maximum Clients:</b> <input type="text" value="200"/> (0 to 200)</p> <p><b>RF Scan Other Channels:</b> <input checked="" type="checkbox"/></p> <p><b>RF Scan Sentry:</b> <input type="checkbox"/></p> <p><b>Mode:</b> IEEE 802.11b/g/n</p> <p><b>DTIM Period:</b> <input type="text" value="10"/> (1 to 255) (# Beacons)</p> <p><b>Beacon Interval:</b> <input type="text" value="100"/> (20 to 2000) (Msecs)</p> <p><b>Automatic Channel:</b> <input checked="" type="checkbox"/></p> <p><b>Automatic Power:</b> <input checked="" type="checkbox"/></p> <p><b>Initial Power:</b> <input type="text" value="100"/> (1 to 100) (%)</p> <p><b>APSD Mode:</b> Enable</p> <p><b>RF Scan Interval (secs):</b> <input type="text" value="60"/> (30 to 120)</p> <p><b>Frag Threshold (bytes):</b> <input type="text" value="2346"/> (256 to 2346)</p> <p><b>RF Scan Sentry Channels:</b> <input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11b/g</p> <p><b>Short Retries:</b> 7</p> <p><b>RF Scan Duration (msecs):</b> <input type="text" value="10"/> (10 to 2000)</p> <p><b>Long Retries:</b> 4</p> <p><b>Rate Limiting:</b> <input type="checkbox"/></p> <p><b>Transmit Lifetime (msecs):</b> 512</p> <p><b>Rate Limit (pkts/sec):</b> <input type="text" value="50"/> (1 to 50)</p> <p><b>Receive Lifetime (msecs):</b> 512</p> <p><b>Rate Limit Burst (pkts/sec):</b> <input type="text" value="75"/> (1 to 75)</p> <p><b>Station Isolation:</b> <input type="checkbox"/></p> <p><b>Channel Bandwidth:</b> 20 MHz</p> <p><b>Primary Channel:</b> Lower</p> <p><b>Protection:</b> Auto</p> <p><b>Short Guard Interval:</b> Enable</p> <p><b>Space Time Block Code:</b> Enable</p> <p><b>Radio Resource Management:</b> Enable</p> <p><b>No ACK:</b> Disable</p> <p><b>Multicast Tx Rate (Mbps):</b> Auto</p>																																																																									
	<p><b>Channels</b></p> <table border="1"> <tr> <td><b>Supported Channels:</b></td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td> </tr> <tr> <td><b>Auto Eligible:</b></td> <td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> </tr> <tr> <td><b>Rate Sets (Mbps):</b></td> <td>1</td><td>2</td><td>5.5</td><td>6</td><td>9</td><td>11</td><td>12</td><td>18</td><td>24</td><td>36</td><td>48</td><td>54</td><td></td> </tr> <tr> <td><b>Basic:</b></td> <td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td> </tr> <tr> <td><b>Supported:</b></td> <td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td> </tr> </table> <p><input type="button" value="Refresh"/></p>				<b>Supported Channels:</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	<b>Auto Eligible:</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Rate Sets (Mbps):</b>	1	2	5.5	6	9	11	12	18	24	36	48	54		<b>Basic:</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Supported:</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Sie können nun unter „Status -> Access Point Info -> APs Summary“ den neuen DWL-6600AP mit der IP Adresse aus dem VLAN 2 sehen und managen.

- Der hinzuzufügende AP (DWL-6600AP mit der MAC Adresse FC:75:16:77:84:80) befindet sich bereits im VLAN 2 Netzwerk und wird vom DWC-1000 erkannt
- zum managen des AP die MAC auswählen und auf die Schaltfläche „Manage“ drücken

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Dashboard ▶  
Global Info ▶  
Device Info ▶  
Access Point Info ▷  
LAN Clients Info ▶  
Wireless Client Info ▶  
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"/>	1c:bd:b9:c5:5c:80	192.168.10.104	0h:0m:1s	Managed	1-802.11a/h, 2-2.4GHz 802.11n	36, 11
<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.240	0h:0m:1s	Managed	2-2.4GHz 802.11n	1
<input type="checkbox"/>	fc:75:16:77:84:80	192.168.2.100	0h:0m:13s	No Database Entry	N/A	N/A
<input type="checkbox"/>	00:24:01:38:f5:e3	N/A	0h:0m:43s	Unknown	802.11b	11
<input type="checkbox"/>	06:18:e7:cd:69:58	N/A	0h:0m:43s	Unknown	802.11b	12
<input type="checkbox"/>	fc:75:16:77:84:80	N/A	0h:0m:7s	Unknown	802.11a	36
<input type="checkbox"/>	fc:75:16:77:84:90	N/A	0h:0m:7s	Unknown	802.11b	6

Delete All Manage Acknowledge View Details Refresh

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

**WIRELESS CONTROLLER**

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard  
WLAN Global Settings  
AP Management  
Option Port Settings  
Network Settings  
LAN QoS  
LAN QoS  
GVRP  
VLAN Settings  
USB Settings

**VALID AP** LOGOUT

We can set the Valid Access Point Configuration here.

Save Settings Don't Save Settings

**Valid Access Point Configuration**

MAC address: fc:75:16:77:84:80

AP Mode: Managed

Location:

Authentication Password:   Edit

Profile: 1 - default

Expected SSID: 1 - default  
2 - VLAN2

Expected Channel: Any

Expected WDS Mode: Any

Expected Security Mode: Any

Expected Wired Network Mode: Allowed

**Radio 1 - 802.11a/n**

Channel: Auto

Power: 0

**Radio 2 - 802.11b/g/n**

Channel: Auto

Power: 0

Helpful Hints... We can configure Valid Access Point here. Several information is attached with AP, like MAC Address, AP Mode etc. [More...](#)

**WIRELESS CONTROLLER**

- Die MAC Adresse ist immer auch am AP direkt am Typenschild ablesbar, wird in diesem Fall aber bereits vom DWC-1000 erkannt
- Als Profil wird das neu angelegte VLAN2 ausgewählt
- Die Location kann zur besseren Zuordnung angegeben werden, hat aber keinen direkten Einfluss auf das Management des AP
- Das Authentifizierungspasswort kann verwendet werden, jedoch muss dies am AP und am Controller DWC-1000 gleich sein. Dies hat direkten Einfluss auf das Management der APs. Ein Passwort ist nicht für das Management notwendig.

Bestätigen Sie die Einstellungen mit der Schaltfläche „Save Settings“

# D-Link<sup>®</sup>

DWC-1000	SETUP	ADVANCED	TOOLS	STATUS	HELP																																																																																																									
<ul style="list-style-type: none"> <li>Dashboard</li> <li>Global Info</li> <li>Device Info</li> <li>Access Point Info</li> <li>LAN Clients Info</li> <li>Wireless Client Info</li> <li>Logs</li> <li>Traffic Monitor</li> <li>Active Sessions</li> </ul>	<div style="background-color: #0056b3; color: white; padding: 5px; text-align: right;"> <b>ACCESS POINTS SUMMARY</b> <span style="float: right;">LOGOUT</span> </div> <p>The All AP Summary page shows summary information about managed, failed, and rogue access points the controller has discovered or detected.</p> <div style="background-color: #333; color: white; padding: 5px;"> <b>List of APs</b> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 15%;">MAC Address</th> <th style="width: 15%;">IP Address</th> <th style="width: 10%;">Age</th> <th style="width: 10%;">Status</th> <th style="width: 20%;">Radio</th> <th style="width: 10%;">Channel</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>1c:bd:b9:c5:5c:80</td> <td>192.168.10.104</td> <td>0h:0m:3s</td> <td>Managed</td> <td>1-802.11a/n, 2-2.4GHz 802.11n</td> <td>36, 11</td> </tr> <tr> <td><input type="checkbox"/></td> <td>28:10:7b:e7:17:e0</td> <td>192.168.10.240</td> <td>0h:0m:4s</td> <td>Managed</td> <td>2-2.4GHz 802.11n</td> <td>1</td> </tr> <tr> <td><input type="checkbox"/></td> <td>fc:75:16:77:84:80</td> <td>192.168.2.100</td> <td>0h:0m:22s</td> <td>No Database</td> <td>N/A</td> <td>N/A</td> </tr> <tr><td><input type="checkbox"/></td><td>00:1f:3f:7d:6e:91</td><td>N/A</td><td>0h:14m:25s</td><td>Unknown</td><td>802.11b</td><td>1</td></tr> <tr><td><input type="checkbox"/></td><td>00:22:b0:48:ad:b8</td><td>N/A</td><td>0h:14m:25s</td><td>Unknown</td><td>802.11b</td><td>1</td></tr> <tr><td><input type="checkbox"/></td><td>00:24:01:38:f5:e3</td><td>N/A</td><td>0h:15m:55s</td><td>Unknown</td><td>802.11b</td><td>11</td></tr> <tr><td><input type="checkbox"/></td><td>06:18:e7:cd:69:58</td><td>N/A</td><td>0h:15m:55s</td><td>Unknown</td><td>802.11b</td><td>12</td></tr> <tr><td><input type="checkbox"/></td><td>22:18:e7:92:67:46</td><td>N/A</td><td>0h:14m:25s</td><td>Unknown</td><td>802.11b</td><td>1</td></tr> <tr><td><input type="checkbox"/></td><td>2a:10:7b:c1:e8:d7</td><td>N/A</td><td>0h:0m:55s</td><td>Unknown</td><td>802.11b</td><td>1</td></tr> <tr><td><input type="checkbox"/></td><td>34:08:04:24:14:ae</td><td>N/A</td><td>0h:13m:26s</td><td>Unknown</td><td>802.11b</td><td>4</td></tr> <tr><td><input type="checkbox"/></td><td>74:31:70:46:6d:2a</td><td>N/A</td><td>0h:14m:25s</td><td>Unknown</td><td>802.11b</td><td>1</td></tr> <tr><td><input type="checkbox"/></td><td>cc:b2:55:cd:d3:f3</td><td>N/A</td><td>0h:13m:55s</td><td>Unknown</td><td>802.11b</td><td>1</td></tr> <tr><td><input type="checkbox"/></td><td>fc:75:16:77:84:80</td><td>N/A</td><td>0h:15m:19s</td><td>Unknown</td><td>802.11a</td><td>36</td></tr> <tr><td><input type="checkbox"/></td><td>fc:75:16:77:84:90</td><td>N/A</td><td>0h:15m:19s</td><td>Unknown</td><td>802.11b</td><td>6</td></tr> </tbody> </table> </div>					MAC Address	IP Address	Age	Status	Radio	Channel	<input type="checkbox"/>	1c:bd:b9:c5:5c:80	192.168.10.104	0h:0m:3s	Managed	1-802.11a/n, 2-2.4GHz 802.11n	36, 11	<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.240	0h:0m:4s	Managed	2-2.4GHz 802.11n	1	<input type="checkbox"/>	fc:75:16:77:84:80	192.168.2.100	0h:0m:22s	No Database	N/A	N/A	<input type="checkbox"/>	00:1f:3f:7d:6e:91	N/A	0h:14m:25s	Unknown	802.11b	1	<input type="checkbox"/>	00:22:b0:48:ad:b8	N/A	0h:14m:25s	Unknown	802.11b	1	<input type="checkbox"/>	00:24:01:38:f5:e3	N/A	0h:15m:55s	Unknown	802.11b	11	<input type="checkbox"/>	06:18:e7:cd:69:58	N/A	0h:15m:55s	Unknown	802.11b	12	<input type="checkbox"/>	22:18:e7:92:67:46	N/A	0h:14m:25s	Unknown	802.11b	1	<input type="checkbox"/>	2a:10:7b:c1:e8:d7	N/A	0h:0m:55s	Unknown	802.11b	1	<input type="checkbox"/>	34:08:04:24:14:ae	N/A	0h:13m:26s	Unknown	802.11b	4	<input type="checkbox"/>	74:31:70:46:6d:2a	N/A	0h:14m:25s	Unknown	802.11b	1	<input type="checkbox"/>	cc:b2:55:cd:d3:f3	N/A	0h:13m:55s	Unknown	802.11b	1	<input type="checkbox"/>	fc:75:16:77:84:80	N/A	0h:15m:19s	Unknown	802.11a	36	<input type="checkbox"/>	fc:75:16:77:84:90	N/A	0h:15m:19s	Unknown	802.11b	6	<p><b>Helpful Hints...</b></p> <p>We can Delete, Manage, Acknowledge and view details of all AP here.</p> <p><a href="#">More...</a></p>
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**Meldung von Webseite** ✖

The following AP MAC address was configured as a Valid AP by this Controller. The AP configured as managed, will be managed at the next discovery cycle: fc:75:16:77:84:80

OK

Im Anschluss an den Vorgang können Sie mittels „Status -> Access Point Info -> Managed AP Status“ den neuen AP als managed erkennen

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.1.0.2\_10204W

**D-Link**

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Dashboard  
Global Info  
Device Info  
Access Point Info  
LAN Clients Info  
Wireless Client Info  
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"/>	1c:bd:b9:c5:5c:80	192.168.10.104	0d:00:00:01	Managed	1-default	1-802.11a/n, 2-2.4GHz 802.11n
<input type="checkbox"/>	28:10:7b:e7:17:e0	192.168.10.240	0d:00:00:03	Managed	1-default	2-2.4GHz 802.11n
<input type="checkbox"/>	fc:75:16:77:84:80	192.168.2.100	0d:00:00:02	Managed	2-VLAN2	1-802.11a/n, 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

**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...