

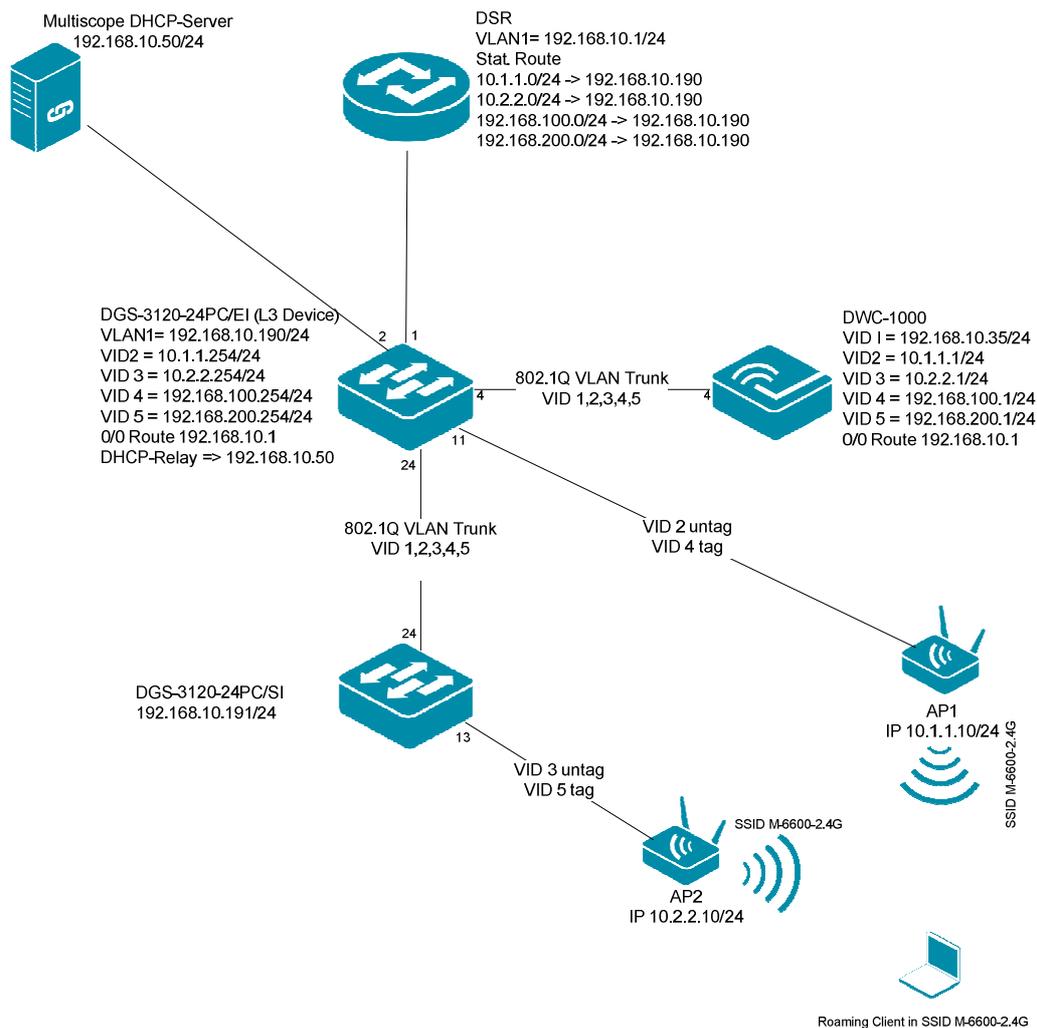
HowTo: Einrichtung von L2-Tunneling zwischen APs mittels des DWC-1000

[Voraussetzungen]

1. DWC-1000 mit Firmware Version: 4.2.0.3B301 und höher
2. Kompatibler AP mit aktueller Firmware 4.1.0.11 und höher (**DWL-8600AP, DWL-6600AP, DWL-3600AP & DWL-2600AP**)

[Szenario]

Mehrere APs sollen in verschiedenen Netzwerksegmenten zentral verwaltet werden. Die APs sind per PoE (Power over Ethernet) an mehreren zentralen Switches angeschlossen. Die Clients sollen sich auf die APs verbinden und zwischen diesen Roamen. Jeder Client bekommt eine IP-Adresse aus dem entsprechenden IP-Adressbereiches des jeweiligen APs, bei einem Roamingvorgang auf einen anderen AP soll der Client jedoch seine ursprüngliche IP-Adresse beibehalten. Alle Client-Daten werden daher vom „Roaming“-AP zum „Home“-AP getunnelt und von da aus in das Netzwerk weitergeleitet.



[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/)
- ⇒ Wollen Sie APs mit verschiedenen Hardwarefähigkeiten gleichzeitig managen, so legen Sie bitte verschiedene Profile für die jeweiligen AP-Typen an.
- ⇒ Bitte lesen Sie vorab das Handbuch und die bereits vorhandenen Anleitungen um die grundlegende Konfiguration des DWC-1000 zu erledigen.
- ⇒ Sie benötigen für das L2-Tunneling für jeden AP/ jede AP-Gruppe ein entsprechendes AP-Profil.
- ⇒ Stellen Sie bitte sicher, dass Sie in Ihrem Netzwerk die vorhandene Infrastruktur bereits VLAN tauglich gemacht haben und dass die benötigten VLANs bereits auf Ihren Switches konfiguriert sind
 - Bitte beachten Sie, dass das Management-VLAN (Netz) der APs immer als „untagged“ auf dem Switchport konfiguriert ist
 - Bitte beachten Sie, dass alle SSIDs (außer wenn VLAN SSID = VLAN Management AP) als “tagged“ auf dem Switchport konfiguriert ist

[Einrichtung der VLANs im DWC-1000]

- 1.) der DWC-1000 wird z.B. über einen der 4 vorhandenen LAN Ports an das Netzwerk angeschlossen (in diesem Beispiel Port 4) und es wird eine IP-Adresse konfiguriert (Setup -> VLAN Settings -> VLAN Configuration)

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard

WLAN Global Settings

AP Management

WLAN Visualization

Option Port Settings

Network Settings

QoS

GVRP

Captive Portal

External Authentications

VLAN Settings

USB Settings

WIRELESS CONTROLLER

Multiple VLAN Subnets

MAC-based VLAN

Protocol VLAN

Double VLAN

INTERNET CONNECTION LOGOUT

This page will guide you through common configuration tasks such as changing the password, timezone and setting up of your internet connection.

Internet Connection Setup Wizard

If you would like to utilize our easy to use Web-based Wizards to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below.

Internet Connection Setup Wizard

Note: Before launching these wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

Manual Internet Connection Options

If you would like to configure the Internet settings of your new D-Link Systems Router manually, then click on the button below.

Manual Internet Connection Setup

Port VLAN

Multiple VLAN Subnets

MAC-based VLAN

Protocol VLAN

Double VLAN

Copyright © 2012 D-Link Corporation.

Helpful Hints...

If you are new to networking and have never configured a router before, click on Internet Connection Setup Wizard and the router will run you through a few simple steps to get your network up and running. If you consider yourself an Advanced user and have configured a router before, click Manual Internet Connection Setup to input all the settings manually.

More...

Drücken Sie auf den Button „Add“ um ein neues VLAN anzulegen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard

WLAN Global Settings

AP Management

WLAN Visualization

Internet Settings

Network Settings

QoS

GVRP

Captive Portal

External Authentications

VPN Settings

VLAN Settings

DMZ Setup

USB Settings

WIRELESS CONTROLLER

VLAN CONFIGURATION LOGOUT

This page allows user to enable/disable VLAN functionality on the router.

Save Settings Don't Save Settings

VLAN CONFIGURATION

Enable VLAN

List of available VLANs

<input type="checkbox"/>	Vlan Name	Vlan ID	Inter VLAN Routing	Captive Portal	Auth Server
<input type="checkbox"/>	Default	1	Enabled	Disabled	None

Edit Delete **Add**

Helpful Hints...

The router supports virtual network isolation on the LAN with the use of VLANs. LAN devices can be configured to communicate in a subnetwork defined by VLAN identifiers.

More...

Vergeben Sie jetzt den „Namen“ und die VLAN ID des neuen VLAN. Soll der DWC-1000 in der Lage sein zwischen den VLANs zu Routen, so muss die Option „Inter VLAN Routing Enable“ aktiviert werden. Mittels des Button „Save Settings“ übernehmen Sie Ihre Einstellungen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Internet Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VPN Settings
VLAN Settings
DMZ Setup
USB Settings

AVAILABLE VLANS LOGOUT

This page allows user to enable/disable VLAN support on the LAN.

Save Settings Don't Save Settings

VLAN Configuration

Name: 2
Id: 2
Inter VLAN Routing Enable:
Captive Portal Type: Free SLA Permanent User Temporary User

Helpful Hints...
Enter Name and ID and save the settings. Make sure that the ID provided is unique. Once the settings are saved, you will be shown the List of Available VLANs where you can further add new VLAN(s) or edit/delete existing VLAN(s).
More...

WIRELESS CONTROLLER

Widerholen Sie den Vorgang des VLAN Anlegens so lange, bis sie alle notwendigen VLANs angelegt haben.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Option Port Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VLAN Settings
USB Settings

VLAN CONFIGURATION LOGOUT

This page allows user to enable/disable VLAN functionality on the router.

Save Settings Don't Save Settings

VLAN CONFIGURATION

Enable VLAN

List of available VLANs

<input type="checkbox"/>	Vlan Name	Vlan ID	Inter VLAN Routing	Captive Portal	Auth Server
<input type="checkbox"/>	Default	1	Enabled	Disabled	None
<input type="checkbox"/>	2	2	Enabled	Disabled	None
<input type="checkbox"/>	3	3	Enabled	Disabled	None
<input type="checkbox"/>	4	4	Enabled	Disabled	None
<input type="checkbox"/>	5	5	Enabled	Disabled	None

Edit Delete Add

Helpful Hints...
The router supports virtual network isolation on the LAN with the use of VLANs. LAN devices can be configured to communicate in a subnetwork defined by VLAN identifiers.
More...

WIRELESS CONTROLLER

Wechseln Sie jetzt in das Menü „Setup -> VLAN Settings -> Port VLAN“ um den LAN Ports des DWC-1000 eine entsprechende VLAN-Mitgliedschaft mitzuteilen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link[®]

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Internet Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VPN Settings
VLAN Settings
DMZ Setup
USB Settings
WIRELESS CO
MAC-based VLAN
Protocol VLAN
Double VLAN

VLAN CONFIGURATION LOGOUT

This page allows user to enable/disable VLAN functionality on the router.

Save Settings Don't Save Settings

VLAN CONFIGURATION

Enable VLAN

List of available VLANs

<input type="checkbox"/>	Vlan Name	Vlan ID	Inter VLAN Routing	Captive Portal	Auth Server
<input type="checkbox"/>	Default	1	Enabled	Disabled	None
<input type="checkbox"/>	2	2	Enabled	Disabled	None
<input type="checkbox"/>	3	3	Enabled	Disabled	None
<input type="checkbox"/>	VLAN Configuration	4	Enabled	Disabled	None
<input type="checkbox"/>	Port VLAN	5	Enabled	Disabled	None

Edit Delete Add

Copyright © 2012 D-Link Corporation.

Helpful Hints...
The router supports virtual network isolation on the LAN with the use of VLANs. LAN devices can be configured to communicate in a subnetwork defined by VLAN identifiers.
More...

Wählen Sie den zu konfigurierenden Port (in diesem Beispiel 4) aus und drücken Sie den Button „Edit“ um die Konfiguration des Ports zu beginnen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link[®]

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Internet Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VPN Settings
VLAN Settings
DMZ Setup
USB Settings
WIRELESS CONTROLLER

PORT VLANs LOGOUT

This page allows user to configure the port VLANs. A user can choose ports and can add them into a VLAN.

Port VLANs

<input type="checkbox"/>	Port Name	Mode	PVID	VLAN Membership
<input type="checkbox"/>	Port 1	Access	1	1
<input type="checkbox"/>	Port 2	Access	1	1
<input type="checkbox"/>	Port 3	Access	1	1
<input checked="" type="checkbox"/>	Port 4	Access	1	1

Edit

Helpful Hints...
In order to tag all traffic through a specific LAN port with a VLAN ID, you can associate a VLAN to a physical port. The VLAN Port table displays the port identifier, the mode setting for that port and VLAN membership information. Go to the Available VLAN page to configure a VLAN membership that can then be associated with a port.
More...

Stellen Sie jetzt den Port auf den entsprechenden 802.1Q VLAN Trunk um. Sie müssen diese Eingabe zuerst mittels „Apply“ bestätigen. Anschließend können/müssen Sie die zu übertragenden VLANs für diesen Port auswählen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Internet Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VPN Settings
VLAN Settings
DMZ Setup
USB Settings

VLAN CONFIGURATION LOGOUT

This page allows user to configure the port VLAN.

VLAN Configuration

Port Name: Port 4

Mode: **Trunk**

PVID:

Apply Cancel

VLAN Membership Configuration

VLAN Membership: 1 2 3 4 5

Apply Cancel

Helpful Hints...
The VLAN mode is an important setting to determine how VLAN traffic is passed through the router. In Access mode the port is a member of a single VLAN (and only one). In Trunk mode all data going into and out of the port is tagged, and untagged coming into the port is not forwarded, except for the default VLAN with PVID=1, which is untagged. In General mode, the port sends and receives data that is tagged or untagged with a VLAN ID.
More...

WIRELESS CONTROLLER

Nachdem Sie die einzelnen VIDs dem VLAN Trunk hinzugefügt haben übernehmen Sie Ihre Einstellungen mit dem Button „Apply“

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Option Port Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VPN Settings
VLAN Settings
DMZ Setup
USB Settings

VLAN CONFIGURATION LOGOUT

This page allows user to configure the port VLAN.

VLAN Configuration

Port Name: Port 4

Mode: Trunk

PVID: 1

Apply Cancel

VLAN Membership Configuration

VLAN Membership: 1 2 3 4 5

Apply Cancel

Helpful Hints...
The VLAN mode is an important setting to determine how VLAN traffic is passed through the router. In Access mode the port is a member of a single VLAN (and only one). In Trunk mode all data going into and out of the port is tagged, and untagged coming into the port is not forwarded, except for the default VLAN with PVID=1, which is untagged. In General mode, the port sends and receives data that is tagged or untagged with a VLAN ID.
More...

WIRELESS CONTROLLER

2.) Legen Sie jetzt die IP-Interfaces für die entsprechenden VLANs an (Setup -> VLAN Settings -> Multiple VLAN Subnets). Beachten Sie bitte, dass der DWC-1000 automatisch mit dem Anlegen eines VLANs bereits ein entsprechendes IP-Interface anlegt, welches Sie nur noch anpassen müssen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Option Port Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VLAN Settings
USB Settings
WIRELESS CONTROLLER

VLAN CONFIGURATION LOGOUT

This page allows user to enable/disable VLAN functionality on the router.

Save Settings Don't Save Settings

VLAN CONFIGURATION

Enable VLAN

List of available VLANs

<input type="checkbox"/>	Vlan Name	Vlan ID	Inter VLAN Routing	Captive Portal	Auth Server
<input type="checkbox"/>	Default	1	Enabled	Disabled	None
<input type="checkbox"/>	2	2	Enabled	Disabled	None
<input type="checkbox"/>	VLAN Configuration	3	Enabled	Disabled	None
<input type="checkbox"/>	Port VLAN	4	Enabled	Disabled	None
<input type="checkbox"/>	Multiple VLAN Subnets	5	Enabled	Disabled	None

Edit Delete Add

Helpful Hints...
The router supports virtual network isolation on the LAN with the use of VLANs. LAN devices can be configured to communicate in a subnetwork defined by VLAN identifiers.
More...

Wählen Sie jetzt eines der vorkonfigurierten IP-Interfaces aus und mittels des Button „Edit“ öffnen Sie die Bearbeitungsoption.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Internet Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VPN Settings
VLAN Settings
DMZ Setup
USB Settings
WIRELESS CONTROLLER

MULTI VLAN SUBNETS LOGOUT

This page shows a list of available multi-vlan subnets. User can even edit the multi-vlans from this page.

MULTI VLAN SUBNET List

<input type="checkbox"/>	Vlan ID	IP Address	Subnet Mask
<input type="checkbox"/>	1	192.168.10.36	255.255.255.0
<input checked="" type="checkbox"/>	2	192.168.0.1	255.255.255.0
<input type="checkbox"/>	3	192.168.1.1	255.255.255.0
<input type="checkbox"/>	4	192.168.2.1	255.255.255.0
<input type="checkbox"/>	5	192.168.3.1	255.255.255.0

Edit

Helpful Hints...
Each VLAN can be assigned a unique IP address and subnet mask for the virtually isolated network. Unless inter-VLAN routing is enabled, the VLAN subnet will determine the network addresses on the LAN that can communicate to devices that correspond to this VLAN.
More...

Passen Sie die IP-Einstellungen des entsprechenden Interfaces Ihren Bedürfnissen an. Hier können Sie auch für das jeweilige IP-Interface den entsprechenden DHCP-Server aktivieren, sofern dies gefordert ist. In diesem Beispiel wurde das IP-Interface zu VID 2 mit der IP Adresse 10.1.1.1/24 versehen (siehe Netzplan). Mittels des Button „Save Settings“ übernehmen Sie Ihre Einstellungen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Option Port Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VLAN Settings
USB Settings

MULTI VLAN SUBNET CONFIG LOGOUT

This page shows the list of available multiple VLAN subnets.

Save Settings Don't Save Settings

MULTI VLAN SUBNET

Vlan ID: 2
IP Address: 10.1.1.1
Subnet Mask: 255.255.255.0

DHCP

DHCP Mode: None
Domain Name: DLink
Starting IP Address: 192.168.0.100
Ending IP Address: 192.168.0.254
Default Gateway (Optional):
Primary DNS Server (Optional):
Secondary DNS Server (Optional):
Lease Time: 24 (Hours)
Relay Gateway: 0.0.0.0

LAN Proxy

Enable DNS Proxy:

Helpful Hints...
By default, when you add a new VLAN, it is assigned an IP address of 192.168.2.1 with subnet-mask 255.255.255.0, the next added one is assigned 192.168.3.1 and so on. You can change the assigned IP address, subnet mask and many other options here. The only non-editable field in VLAN ID.
More...

WIRELESS CONTROLLER

Wiederholen Sie den Vorgang für alle entsprechend angelegten IP-Interfaces

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Option Port Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VLAN Settings
USB Settings

MULTI VLAN SUBNETS LOGOUT

This page shows a list of available multi-vlan subnets. User can even edit the multi-vlans from this page.

MULTI VLAN SUBNET List

	Vlan ID	IP Address	Subnet Mask
<input type="checkbox"/>	1	192.168.10.35	255.255.255.0
<input type="checkbox"/>	2	10.1.1.1	255.255.255.0
<input type="checkbox"/>	3	10.2.2.1	255.255.255.0
<input type="checkbox"/>	4	192.168.100.1	255.255.255.0
<input type="checkbox"/>	5	192.168.200.1	255.255.255.0

Edit

Helpful Hints...
Each VLAN can be assigned a unique IP address and subnet mask for the virtually isolated network. Unless inter-VLAN routing is enabled, the VLAN subnet will determine the network addresses on the LAN that can communicate to devices that correspond to this VLAN.
More...

WIRELESS CONTROLLER

Bei einem DWC-1000 OHNE VPN Lizenz ist die Konfiguration der 0/0 (Default Route) unter dem Menüpunkt „Setup -> Network Settings -> LAN Setup Configuration“ vorzunehmen

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard
WLAN Global Settings
AP Management
WLAN Visualization
Option Port Settings
Network Settings
QoS
GVRP
Captive Portal
External Authentications
VLAN Settings
USB Settings

MULTI VLAN SUBNETS LOGOUT

This page shows a list of available multi-vlan subnets. User can even edit the multi-vlans from this page.

MULTI VLAN SUBNET List

Vlan ID	IP Address	Subnet Mask
LAN Setup Configuration	192.168.10.35	255.255.255.0
LAN DHCP Reserved IPs	10.1.1.1	255.255.255.0
LAN DHCP Leased Clients	10.2.2.1	255.255.255.0
	192.168.100.1	255.255.255.0
	192.168.200.1	255.255.255.0

Edit

WIRELESS CONTROLLER

Helpful Hints...
Each VLAN can be assigned a unique IP address and subnet mask for the virtually isolated network. Unless inter-VLAN routing is enabled, the VLAN subnet will determine the network addresses on the LAN that can communicate to devices that correspond to this VLAN.
[More...](#)

Scollen Sie auf der Seite ganz nach unten und aktivieren Sie die Option „Enable Default Route“. Tragen Sie dann die entsprechenden Daten ein. Mittels des Button „Save Settings“ übernehmen Sie Ihre Einstellungen.

LAN Proxy

Enable DNS Proxy:

Default Route

Enable Default Route:

Gateway:

DNS Server:

SNAT:

WIRELESS CONTROLLER

Bei einem DWC-1000 MIT VPN-Lizenz ist keine Eingabe einer 0/0 (Default) Route möglich, vorher angelegte 0/0-Routen werden bei einem nachträglichen Einspielen einer VPN-Lizenz gelöscht.

3.) Legen Sie jetzt die AP Profile an. Gehen Sie hierzu auf „Advanced -> AP Profile“

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
Application Rules
Website Filter
Firewall Settings
IPv6
Advanced Network
Routing
Certificates
Users
IP/MAC Binding
Radius Settings
Switch Settings
Intel[®] AMT

CONFIGURATION ITEMS LOGOUT

The fields on this page are 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 1 (0 to 255, 0 - Disable)
AP Client QoS Disable

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

Mittels des Button „Add“ können Sie ein weiteres AP Profil anlegen.

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
Application Rules
Website Filter
Firewall Settings
IPv6
Advanced Network
Routing
Certificates
Users
IP/MAC Binding
Radius Settings
Switch Settings
Intel[®] AMT

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	Configured

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

Hier können Sie den Namen des AP-Profiles (in diesem Beispiel Default2) und das entsprechende AP Discovery anpassen. Mittels des Button „Save Settings“ übernehmen Sie Ihre Einstellungen.

The screenshot shows the D-Link DWC-1000 web interface. At the top, it displays 'Product Page: DWC-1000' and 'Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'DWC-1000', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'HELP'. The 'ADVANCED' tab is selected. On the left side, there is a vertical menu with various configuration options: Global, Peer Controllers, AP Profile (selected), SSIDs, WIDS Security, Client, WDS Configuration, Application Rules, Website Filter, Firewall Settings, IPv6, Advanced Network, Routing, Certificates, Users, IP/MAC Binding, Radius Settings, Switch Settings, and Intel® AMT. The main content area is titled 'AP PROFILES SUMMARY' and includes a 'LOGOUT' button. Below this, there is a section for 'AP Profile Global Configuration' with the following fields: 'Profile Name' (set to 'Default2'), 'Hardware Type' (set to 'Any'), and 'Wired Network Discovery VLAN ID' (set to '1', with a range of '(1 to 4093)'). There are two buttons: 'Save Settings' and 'Don't Save Settings'. On the right side, there is a 'Helpful Hints...' section with text explaining that a new profile is added and populated with default settings, and a 'More...' link. At the bottom of the page, it says 'WIRELESS CONTROLLER'.

Danach können Sie noch über den Button „Configure Radio“ für jedes AP-Profil die entsprechenden Sender-Einstellungen vornehmen. Diese sind jedoch nicht Bestandteil dieser Anleitung.

4.) Legen Sie die SSID für die AP Profile an. Gehen Sie hierzu auf „Advanced -> SSIDs“

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_VW

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	Associated
<input type="checkbox"/>	2-Default2	Associated

Edit Delete Add Copy Apply

Configure Radio Configure SSID Configure QoS Refresh

WIRELESS CONTROLLER

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...](#)

Da Sie die gleiche SSID für verschiedene AP-Profile benutzen möchten, werden nicht die bereits standardmäßigen SSIDs verwendet. Tragen Sie daher bitte bei „SSID“ den Namen Ihrer neuen SSID ein. Mittels Add übernehmen Sie Ihre Eingabe

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 Intel® AMT

NETWORKS LOGOUT

The wireless network list shows all the wireless networks configured on the controller. The first 16 networks are created by default.

Wireless Network List

	ID	SSID	VLAN	Hide SSID	Security	Redirect
<input type="checkbox"/>	1	dlink1	1-default	Disabled	None	None
<input type="checkbox"/>	2	dlink2	1-default	Disabled	None	None
<input type="checkbox"/>	3	dlink3	1-default	Disabled	None	None
<input type="checkbox"/>	4	dlink4	1-default	Disabled	None	None
<input type="checkbox"/>	5	dlink5	1-default	Disabled	None	None
<input type="checkbox"/>	6	dlink6	1-default	Disabled	None	None
<input type="checkbox"/>	7	dlink7	1-default	Disabled	None	None
<input type="checkbox"/>	8	dlink8	1-default	Disabled	None	None
<input type="checkbox"/>	9	dlink9	1-default	Disabled	None	None
<input type="checkbox"/>	10	dlink10	1-default	Disabled	None	None
<input type="checkbox"/>	11	dlink11	1-default	Disabled	None	None
<input type="checkbox"/>	12	dlink12	1-default	Disabled	None	None
<input type="checkbox"/>	13	dlink13	1-default	Disabled	None	None
<input type="checkbox"/>	14	dlink14	1-default	Disabled	None	None
<input type="checkbox"/>	15	dlink15	1-default	Disabled	None	None
<input type="checkbox"/>	16	dlink16	1-default	Disabled	None	None

Delete Refresh

Wireless Network Configuration

SSID :

Add

Helpful Hints...
You can modify the default networks, but you cannot delete them. You can add and configure up to 48 additional networks for a total of 64 wireless networks. Multiple networks can have the same SSID.
[More...](#)

Passen Sie nun die SSID Ihrem Netzwerkdesign an. In diesem Beispiel soll diese SSID dem AP-Profil 1 (Default) zugewiesen werden, daher wird für das WLAN Client Netz die VID 4 eingetragen. Aktivieren Sie zudem die Option „L2 Distributed Tunneling Mode“. Mittels des Button „Save Settings“ übernehmen Sie Ihre Einstellungen.

The screenshot displays the 'Wireless Network Configuration' page in the D-Link DWC-1000 web interface. The page is divided into several sections:

- Global Information:** Shows the SSID as 'M-6600-2.4G'. Below this are checkboxes for 'Hide SSID' and 'Ignore Broadcast', both of which are currently unchecked.
- VLAN Configuration:** The 'VLAN' field is set to '4' (circled in red), with a range of '(1 to 4093)' indicated to the right.
- Authentication and Security:** 'MAC Authentication' is set to 'Disable'. 'Redirect' is set to 'None'. 'Wireless ARP Suppression Mode' is set to 'Disable'. 'L2 Distributed Tunneling Mode' is set to 'Enable' (circled in red).
- RADIUS Settings:** 'RADIUS Authentication Server Name' is 'Default-RADIUS-Server' (Status: Configured). 'RADIUS Accounting Server Name' is 'Default-RADIUS-Server' (Status: Not Configured). 'RADIUS Use Network Configuration' is set to 'Enable'. 'RADIUS Accounting' is unchecked.
- Security:** The 'Security' option is set to 'None'.

Buttons for 'Save Settings' and 'Don't Save Settings' are located at the top of the configuration area. A 'LOGOUT' button is also present in the top right corner of the main content area. A sidebar on the left contains navigation links for various system settings, and a 'Helpful Hints...' section on the right provides additional information about SSIDs.

Gehen Sie wieder in das SSID Menü um eine weitere SSID anzulegen (für das AP Profil „Default2“). Vergeben Sie für diese neue SSID den gleichen Namen wie im vorangegangenen Schritt, damit die Clients zwischen den AP-Profilen Roamen können.

DWC-1000
SETUP
ADVANCED
TOOLS
STATUS
HELP

- Global
- Peer Controllers
- AP Profile
- SSIDs
- WIDS Security
- Client
- WDS Configuration
- Application Rules
- Website Filter
- Firewall Settings
- IPv6
- Advanced Network
- Routing
- Certificates
- Users
- IP/MAC Binding
- Radius Settings
- Switch Settings
- Intel[®] AMT

[LOGOUT](#)

The wireless network list shows all the wireless networks configured on the controller. The first 16 networks are created by default.

Wireless Network List						
	ID	SSID	VLAN	Hide SSID	Security	Redirect
<input type="checkbox"/>	1	dlink1	1-default	Disabled	None	None
<input type="checkbox"/>	2	dlink2	1-default	Disabled	None	None
<input type="checkbox"/>	3	dlink3	1-default	Disabled	None	None
<input type="checkbox"/>	4	dlink4	1-default	Disabled	None	None
<input type="checkbox"/>	5	dlink5	1-default	Disabled	None	None
<input type="checkbox"/>	6	dlink6	1-default	Disabled	None	None
<input type="checkbox"/>	7	dlink7	1-default	Disabled	None	None
<input type="checkbox"/>	8	dlink8	1-default	Disabled	None	None
<input type="checkbox"/>	9	dlink9	1-default	Disabled	None	None
<input type="checkbox"/>	10	dlink10	1-default	Disabled	None	None
<input type="checkbox"/>	11	dlink11	1-default	Disabled	None	None
<input type="checkbox"/>	12	dlink12	1-default	Disabled	None	None
<input type="checkbox"/>	13	dlink13	1-default	Disabled	None	None
<input type="checkbox"/>	14	dlink14	1-default	Disabled	None	None
<input type="checkbox"/>	15	dlink15	1-default	Disabled	None	None
<input type="checkbox"/>	16	dlink16	1-default	Disabled	None	None
<input type="checkbox"/>	17	M-6600-2.4G	4-4	Disabled	None	None

Wireless Network Configuration

SSID :

Helpful Hints...

You can modify the default networks, but you cannot delete them. You can add and configure up to 48 additional networks for a total of 64 wireless networks. Multiple networks can have the same SSID.

[More...](#)

Passen Sie die SSID Ihrem Netzwerkdesign an. In diesem Beispiel soll diese SSID dem AP-Profil 2 (Default2) zugewiesen werden, daher wird für das WLAN Client Netz die VID 5 eingetragen. Aktivieren Sie zudem die Option „L2 Distributed Tunneling Mode“. Mittels des Button „Save Settings“ übernehmen Sie Ihre Einstellungen.

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.

Wireless Network Configuration

SSID:

Hide SSID:

Ignore Broadcast:

VLAN: (1 to 4093)

MAC Authentication: Local Radius Disable

Redirect: None HTTP

Redirect URL:

Wireless ARP Suppression Mode:

L2 Distributed Tunneling Mode:

RADIUS Authentication Server Name:

RADIUS Authentication Server Status: Configured

RADIUS Accounting Server Name:

RADIUS Accounting Server Status: Not Configured

RADIUS Use Network Configuration:

RADIUS Accounting:

Security: None WEP WPA/WPA2

In der SSID Übersichtsseite können Sie hier die beiden neuen SSIDs sehen.

<input type="checkbox"/>	10	dlink10	1-default	Disabled	None	None
<input type="checkbox"/>	11	dlink11	1-default	Disabled	None	None
<input type="checkbox"/>	12	dlink12	1-default	Disabled	None	None
<input type="checkbox"/>	13	dlink13	1-default	Disabled	None	None
<input type="checkbox"/>	14	dlink14	1-default	Disabled	None	None
<input type="checkbox"/>	15	dlink15	1-default	Disabled	None	None
<input type="checkbox"/>	16	dlink16	1-default	Disabled	None	None
<input type="checkbox"/>	17	M-6600-2.4G	4-4	Disabled	None	None
<input type="checkbox"/>	18	M-6600-2.4G	5-5	Disabled	None	None

Wireless Network Configuration

SSID:

Wechseln Sie jetzt in das AP Profil um die SSIDs dem jeweiligen AP-Profil zuzuordnen. Wählen Sie hierzu das AP Profil (in diesem Beispiel 1-Default) aus und drücken den Button „Configure SSID“ um die SSID Einstellungen für das AP Profil vorzunehmen.

The screenshot shows the 'AP PROFILES SUMMARY' page in the D-Link Wireless Controller. The left sidebar contains navigation options like Global, Peer Controllers, AP Profile, SSIDs, WIDS Security, Client, WDS Configuration, Application Rules, Website Filter, Firewall Settings, IPv6, Advanced Network, Routing, Certificates, Users, IP/MAC Binding, Radius Settings, Switch Settings, and Intel® AMT. The main content area has tabs for SETUP, ADVANCED, TOOLS, STATUS, and HELP. Under the 'AP Profile List' table, the '1-Default' profile is selected with a red circle around its checkbox. Below the table are buttons for Edit, Delete, Add, Copy, and Apply. At the bottom, there are buttons for Configure Radio, Configure SSID (highlighted with a red circle), Configure QoS, and Refresh. A 'Helpful Hints...' section on the right explains that multiple AP profiles can be created and applied to APs.

Wählen Sie hier das korrekte Radio um die entsprechende SSID einzustellen. Bitte beachten Sie, dass Sie 5 GHz und 2,4 GHz getrennt einstellen müssen. In diesem Beispiel wird nur das 2,4 GHz Band verwendet (da nur DWL-3600AP benutzt). In dem Drop-Down Menu für die SSID wählen Sie jetzt die zu verwendende SSID aus. (in diesem Beispiel die SSID M-6600-2.4G VID 4)

The screenshot shows the 'AP Profile VAP Configuration' page. The 'AP Profile' is '1-Default'. The 'Radio Mode' is set to '2-802.11b/g/n', which is circled in red. Below this is the 'List of SSID' table with columns for Network, VLAN, Hide SSID, Security, and Redirect. The 'Network' column has a dropdown menu open, showing a list of SSIDs. '17 - M-6600-2.4G' is highlighted in blue. The 'List of SSID' table contains the following data:

Network	VLAN	Hide SSID	Security	Redirect
1 - dlink1	1-default	Disabled	None	None
2 - dlink2	1-default	Disabled	None	None
3 - dlink3	1-default	Disabled	None	None
4 - dlink4	1-default	Disabled	None	None
5 - dlink5	1-default	Disabled	None	None
6 - dlink6	1-default	Disabled	None	None
7 - dlink7	1-default	Disabled	None	None
8 - dlink8	1-default	Disabled	None	None
9 - dlink9	1-default	Disabled	None	None
10 - dlink10	1-default	Disabled	None	None
11 - dlink11	1-default	Disabled	None	None
12 - dlink12	1-default	Disabled	None	None
13 - dlink13	1-default	Disabled	None	None
14 - dlink14	1-default	Disabled	None	None
15 - dlink15	1-default	Disabled	None	None
16 - dlink16	1-default	Disabled	None	None
17 - M-6600-2.4G	1-default	Disabled	None	None
18 - M-6600-2.4G	1-default	Disabled	None	None
9 - dlink9	1-default	Disabled	None	None
10 - dlink10	1-default	Disabled	None	None
11 - dlink11	1-default	Disabled	None	None

Mittels des Button „Save Settings“ übernehmen Sie Ihre Einstellungen.

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).

AP Profile VAP Configuration

AP Profile: AP Profile 1-Default

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

List of SSID

	Network	VLAN	Hide SSID	Security	Redirect
<input type="checkbox"/>	17 - M-6600-2 <input type="button" value="Edit"/>	4-4	Disabled	None	None
<input type="checkbox"/>	2 - dlink2 <input type="button" value="Edit"/>	1-default	Disabled	None	None
<input type="checkbox"/>	3 - dlink3 <input type="button" value="Edit"/>	1-default	Disabled	None	None
<input type="checkbox"/>	4 - dlink4 <input type="button" value="Edit"/>	1-default	Disabled	None	None

You can configure and enable up to 16 VAPs per radio on each physical access point. [More...](#)

Widerholen Sie den Vorgang für das AP-Profil „2-Default2“, wählen Sie hier jedoch die SSID M-6600-2.4G für die VID 5 aus.

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

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).

AP Profile VAP Configuration

AP Profile: **AP Profile 2-Default2**

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

List of SSID

	Network	VLAN	Hide SSID	Security	Redirect
<input checked="" type="checkbox"/>	18 - M-6600-2 <input type="button" value="Edit"/>	5-5	Disabled	None	None
<input type="checkbox"/>	2 - dlink2 <input type="button" value="Edit"/>	1-default	Disabled	None	None
<input type="checkbox"/>	3 - dlink3 <input type="button" value="Edit"/>	1-default	Disabled	None	None
<input type="checkbox"/>	4 - dlink4 <input type="button" value="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...](#)

5.) Discovern der APs

Das Discovery der APs wird Aufgrund des Netzdesign über Layer 3 (IP Adressen) durchgeführt. Wechseln Sie gehen Sie hierzu auf „Setup -> AP Management -> Poll List“.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard

WLAN Global Settings

AP Management

WLAN Visualization

Internet Settings

Network Settings

QoS

GVRP

Captive Portal

External Authentications

VPN Settings

VLAN Settings

DMZ Setup

USB Settings

INTERNET CONNECTION LOGOUT

Manual Management through common configuration tasks such as changing the password, timezone and setting up of your internet

Valid Access Points

RF Management

Software Download

Poll List Internet Connection Setup Wizard

AP Provisioning these wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in

Local OUI Database

Manual Internet Connection Options

If you would like to configure the Internet settings of your new D-Link Systems Router manually, then click on the button below.

Manual Internet Connection Setup

Helpful Hints...

If you are new to networking and have never configured a router before, click on Internet Connection Setup Wizard and the router will run you through a few simple steps to get your network up and running. If you consider yourself an Advanced user and have configured a router before, click Manual Internet Connection Setup to input all the settings manually.

More...

WIRELESS CONTROLLER

Deaktivieren Sie die Option „L2/VLAN Discovery“ und tragen bei „List of IP Addresses“ die IP Adressen der APs ein. (Sie können hier mehrere Bereiche angeben). Mittels des Button „Save Settings“ übernehmen Sie Ihre Einstellungen.

Product Page: DWC-1000 Hardware Version: A1 Firmware Version: 4.2.0.3_B301_WW

D-Link

DWC-1000 // SETUP ADVANCED TOOLS STATUS HELP

Wizard

WLAN Global Settings

AP Management

WLAN Visualization

Internet Settings

Network Settings

QoS

GVRP

Captive Portal

External Authentications

VPN Settings

VLAN Settings

DMZ Setup

USB Settings

POLL LIST LOGOUT

This page contain all the information about IP Address & Vlan value which can be configured for peer controllers & controllers. The IP Discovery list can contain the IP addresses of peer controller and APs for the UWS to discover and associate with as part of the WLAN

Save Settings Don't Save Settings

Discovery

L3/IP Discovery

L2/VLAN Discovery

List of IP Addresses

List of IP Addresses: <empty list>

Start IP Address: 10.1.1.10

End IP Address: 10.1.1.20

Delete Add

List of IP Vlans

List of Vlans: 1 - default

VLAN (1-4093):

Delete Add

Helpful Hints...

In order for the Unified Wireless Controller to discover other WLAN devices and establish communication with them, the devices must have their own ip address, must be able to find other WLAN devices, and must be compatible. When the Unified Wireless Controller discovers and validates APs, the controller takes over the management of the AP. If you configure the AP in Standalone mode, the existing AP configuration is replaced by the default AP profile configuration on the controller. The list of IP addresses is separate and independent from the list of valid managed APs. Devices discovered through this list might not be valid APs or controllers.

More...

Übernehmen Sie nun die APs in das Management für das jeweilige AP-Profil. Dies können Sie tun, indem Sie beim Managen des APs das entsprechende AP-Profil auswählen.

The screenshot shows the 'VALID AP' configuration page in the DW-1000 Web UI. The page is divided into several sections: 'VALID AP' (with a LOGOUT button), 'Valid Access Point Configuration', and two radio configuration sections (Radio 1 and Radio 2). The 'Profile' dropdown menu is highlighted with a red circle, showing two options: '1 - Default' and '2 - Default2'. Other fields include MAC address (fc:75:16:77:84:80), AP Mode (Managed), Location, Authentication Password, Expected SSID, Expected Channel, Expected WDS Mode, Expected Security Mode, and Expected Wired Network Mode.

Bei den Managed APs sehen Sie dann beide APs welche Ihrem jeweiligen AP-Profil zugeordnet sind.

The screenshot shows the 'MANAGED AP STATUS' page in the DW-1000 Web UI. The page displays a table of managed APs and several action buttons. The 'Profile' column in the table is highlighted with a red circle, showing two entries: '1-Default' and '2-Default2'. The table has the following data:

	MAC Address (*)	Peer Managed	IP Address	Age	Status	Profile	Radio Interface
<input type="checkbox"/>	28:10:7b:e6:f1:c0		10.1.1.10	0d:00:00:02	Managed	1-Default	2-802.11b/g/n
<input type="checkbox"/>	28:10:7b:e7:17:e0		10.2.2.10	0d:00:00:03	Managed	2-Default2	2-802.11b/g/n

Für die genaue Anleitung wie man APs managed bitte den verfügbaren Anleitungen auf unserem FTP-Server folgen (<ftp://ftp.dlink.de/dwc/dwc-1000/documentation/>)

6.) Client-Tests

Sobald sich eine Client im WLAN Anmeldet ist dieser Client über „Status -> Wireless Client Info-> Associated Clients -> Status“ sehen.

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
		10.1.1.10	0d:00:00:03	Managed	1-Default	2-802.11b/g/n
		10.2.2.10	0d:00:00:03	Managed	2-Default2	2-802.11b/g/n

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...](#)

Hier können Sie erkennen, dass ein Client mit der MAC-Adresse „8C-A9-82-74-0E-B8“ sich am Access Point mit der MAC „28-10-7B-E7-17-E0“ auf der SSID „M-6600-2.4G“ angemeldet hat. Anhand der vom Client bezogenen IP-Adresse ist erkennbar, dass dieser im VLAN VID 5 ist.

Zudem sind 2 Clients am Access Point mit der MAC „28-10-7B-E7-F1-C0“ verbunden. Anhand der von den Clients bezogenen IP-Adresses ist erkennbar, dass dieser im VLAN VID 4 ist.

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

ASSOCIATED CLIENTS STATUS LOGOUT

You can view a variety of information about the wireless clients that are associated with the APs the controller manages.

List of Associated Clients

	MAC Address (*) Peer Associated	MAC Address	AP MAC Address	SSID	BSSID	Detected IP Address	Status
<input type="checkbox"/>		00:13:e8:93:5c:d7	28:10:7b:e6:f1:c0	M-6600-2.4G	28:10:7b:e6:f1:c0	192.168.100.12	Authenticated
<input type="checkbox"/>		00:1f:1f:d9:10:1e	28:10:7b:e6:f1:c0	M-6600-2.4G	28:10:7b:e6:f1:c0	0.0.0.0	Authenticated
<input type="checkbox"/>		8c:a9:82:74:0e:b8	28:10:7b:e7:17:e0	M-6600-2.4G	28:10:7b:e7:17:e0	192.168.200.10	Authenticated

Disassociate View Details View AP Details

View SSID Details View VAP Details

View Neighbor AP Status View Distributed Tunneling Status

Refresh

Helpful Hints... Since the associated client database supports roaming across APs, an entry is not disassociated from a specific AP. After a client has disassociated, the entry is deleted after the client times out. More...

WIRELESS CONTROLLER

Um das L2-Tunneling und Roamingverhalten nachzuvollziehen wählen Sie einen Client aus und drücken den Button „View Distributed Tunneling 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

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

ASSOCIATED CLIENTS STATUS LOGOUT

You can view a variety of information about the wireless clients that are associated with the APs the controller manages.

List of Associated Clients

	MAC Address (*) Peer Associated	MAC Address	AP MAC Address	SSID	BSSID	Detected IP Address	Status
<input type="checkbox"/>		00:13:e8:93:5c:d7	28:10:7b:e6:f1:c0	M-6600-2.4G	28:10:7b:e6:f1:c0	192.168.100.12	Authenticated
<input type="checkbox"/>		00:1f:1f:d9:10:1e	28:10:7b:e6:f1:c0	M-6600-2.4G	28:10:7b:e6:f1:c0	0.0.0.0	Authenticated
<input checked="" type="checkbox"/>		8c:a9:82:74:0e:b8	28:10:7b:e7:17:e0	M-6600-2.4G	28:10:7b:e7:17:e0	192.168.200.10	Authenticated

Disassociate View Details View AP Details

View SSID Details View VAP Details

View Neighbor AP Status View Distributed Tunneling Status

Refresh

Helpful Hints... Since the associated client database supports roaming across APs, an entry is not removed when a client disassociates from a specific AP. After a client has disassociated, the entry is deleted after the client times out. More...

WIRELESS CONTROLLER

Hier können Sie erkennen, dass der Client mit der MAC-Adresse „8C-A9-82-74-0E-B8“ sich am Access Point mit der MAC „28-10-7B-E7-17-E0“ als HOME AP verbunden ist. Der Client hat die IP-Adresse 192.168.200.10/24.

The screenshot shows the D-Link Wireless Controller interface for a DWC-1000. The 'Associated Client Distributed Tunneling Status' page is active, displaying the following information:

- Distributed Tunneling Status:** Enable
- Home AP MAC Address:** 28:10:7B:E7:17:E0
- Client Roam Status:** Home
- Associated AP MAC Address:** 28:10:7B:E7:17:E0

A terminal window in the foreground shows a successful ping command: `C:\Windows\system32>ping -t 192.168.200.10`. The output shows multiple successful responses from 192.168.200.10 with 32 bytes of data and various response times (e.g., 4ms, 2ms, 3ms).

Wenn der Client jetzt die „Grenze“ zwischen den beiden AP-Profilen überschreitet behält er weiterhin seine IP-Adresse 192.168.200.10/24 und ist über diese erreichbar.

Sie können jedoch anhand der MAC Adresse des AP erkennen, dass dieser AP dem AP-Profil 1-Default angehört und der Client gemäß VLAN-Konfiguration eine IP-Adresse im VLAN ID 4 IP 192.168.100.x/24 besitzen sollte.

The screenshot shows the D-Link Wireless Controller interface for a DWC-1000. The 'Associated Client Distributed Tunneling Status' page is active, displaying the following information:

- Distributed Tunneling Status:** Enable
- Home AP MAC Address:** 28:10:7B:E7:17:E0
- Client Roam Status:** Roaming
- Associated AP MAC Address:** 28:10:7B:E6:F1:C0

A terminal window in the foreground shows a successful ping command: `Administrator: Eingabeaufforderung - ping -t 192.168.200.10`. The output shows multiple successful responses from 192.168.200.10 with 32 bytes of data and various response times (e.g., 17ms, 62ms, 100ms, 229ms, 61ms, 173ms, 2ms, 4ms, 16ms, 3ms, 6ms, 3ms, 4ms, 20ms, 4ms, 16ms, 3ms, 239ms, 236ms, 97ms, 36ms, 224ms).

Während der Client innerhalb eines IP-Profiles roamt, wird der Client-Datenverkehr direkt am jeweiligen Accesspoint in das Netzwerk ausgeschleust.

Sobald der Client jedoch in ein anderes AP-Profil roamt, wird der Client-Datenverkehr durch den Roaming-Accesspoint an den Home-Accesspoint per Layer2-Tunnel weitergeleitet. Der Home-Accesspoint schleust dann den Client-Datenverkehr entsprechend aus.