

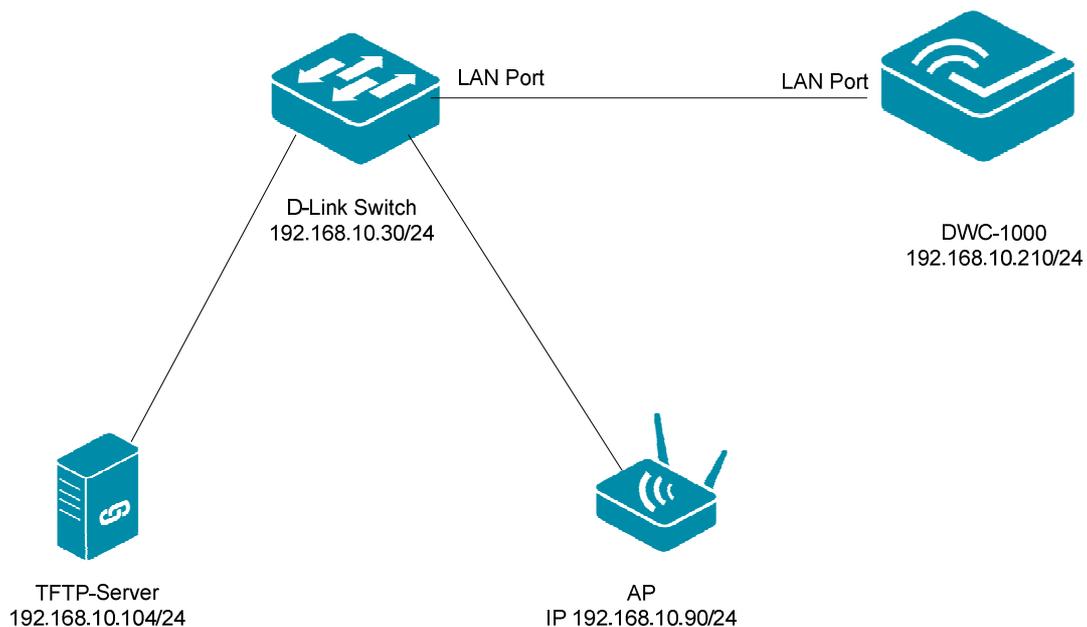
HowTo: Firmwareupdate DWC-managed Accesspoint

[Voraussetzungen]

1. DWC-1000 mit aktueller Firmware
- *DWC-1000 mit FW 4.1.0.2_10244W und höher*
2. Kompatibler Unified-AP mit aktueller Firmware
- *DWL-8600AP/6600AP/3600AP/2600AP mit FW 4.1.0.x und höher*

[Szenario]

Es soll ein Unified-AP, welcher durch einen DWC-1000 gemanaged wird, auf eine neuen Firmware aktualisiert werden.



[Vorbereitung]

- ⇒ Die Accesspoints sind bereits korrekt im Management des DWC-1000
- ⇒ Die Firmware können Sie jederzeit unter <ftp://ftp.dlink.de> herunterladen.
- ⇒ Für die Aktualisierung der Firmware ist ein TFTP-Server notwendig. Empfehlenswert ist hier z.B. der TFTP32 (<http://tftpd32.jounin.net/>)
- ⇒ Die Firmware wurde bereits korrekt im Verzeichnis des TFTP Servers abgelegt und steht somit zur Verfügung (*in diesem Fall liegt die neue Firmware im ROOT Verzeichnis des TFTP32, somit muss kein Pfad angegeben werden*).
- ⇒ Bitte lesen Sie vorab das Handbuch und die bereits vorhandenen Anleitungen um die grundlegende Konfiguration des D-Link Wireless Switches zu erledigen.

[Einrichtung des D-Link Wireless Switches]

1.) Verbinden Sie sich auf den DWC-1000 und prüfen Sie die Firmware der/des managed APs, gehen Sie hierzu auf „Status -> Access Point Info -> Managed AP Status“

The screenshot shows the 'MANAGED AP STATUS' page in the Wireless Controller. The left sidebar contains navigation options: Dashboard, Global Info, Device Info, Access Point Info (selected), LAN Clients Info, Wireless Client Info, WDS Managed APs, Logs, Traffic Monitor, Active Sessions, and Active VPNs. The main content area includes a 'LOGOUT' link, a 'Show all the details of managed AP.' link, and a table titled 'List of Managed APs'.

	MAC Address (*) Peer Managed	IP Address	Age	Status	Profile	Radio Interface
<input type="checkbox"/>	fc:75:16:77:86:40	192.168.10.90	0d:00:00:04	Managed	1-Default	1-Off, 2-802.11b/g/n

Below the table are several buttons: 'View AP Details', 'View Radio Details', 'View Neighbor APs', 'View Neighbor Clients', 'View VAP Details', 'View Distributed Tunneling Details', 'Delete', 'Delete All', 'Refresh', and 'Auto Refresh' (checked).

2.) Wählen Sie den zu prüfenden AP aus und drücken danach den Button „View AP Details“

This screenshot is identical to the previous one, but with red annotations. A red circle highlights the checkbox in the first row of the 'List of Managed APs' table. Another red circle highlights the 'View AP Details' button below the table.

3.) Der nun angezeigten Informationsseite können Sie die Firmware des APs entnehmen.

DWC-1000	SETUP	ADVANCED	TOOLS	STATUS
Dashboard	MANAGED AP STATUS LOGOUT			
Global Info	Show all the details of managed AP.			
Device Info	List of Managed APs			
Access Point Info	MAC Address	fc:75:16:77:86:40 - ▾		
LAN Clients Info	IP Address	192.168.10.90		
Wireless Client Info	Managing Controller	Local Controller		
WDS Managed APs	IP Subnet Mask	255.255.255.0		
Logs	Controller MAC Address	00:02:BC:BB:CF:B2		
Traffic Monitor	Status	Managed		
Active Sessions	Controller IP Address	192.168.10.210		
Active VPNs	Software Version	4.1.0.11		
	Profile	1 - Default		
	Code Download Status	Not Started		
	Discovery Reason	L2 Poll Received		
	Configuration Status	Success		
	Protocol Version	2		
	Vendor ID	D-Link		
	Authenticated Clients	0		
	Part Number	dwl6600ap		
	System Up Time	0d:00:08:00		

4.) Wechseln Sie jetzt in das Menu „Setup -> AP Management -> Software Download“ um die Firmware des Accesspoint zu aktualisieren.

DWC-1000	SETUP	ADVANCED	TOOLS	STATUS																										
<ul style="list-style-type: none"> Wizard WLAN Global Settings AP Management WLAN Visualization Internet Settings Network Settings QoS GVRP VPN Settings VLAN Settings DMZ Setup USB Settings 	<div style="background-color: #0056b3; color: white; padding: 5px;">SOFTWARE DOWNLOAD LOGOUT</div> <p>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.</p> <p style="text-align: center;"> <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/> </p> <div style="background-color: #333; color: white; padding: 5px;">Access Point Software Download</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Server Address:</td> <td><input type="text" value="0.0.0.0"/></td> </tr> <tr> <td>Img_dwl8600</td> <td>DLink 8600 AP Radios</td> </tr> <tr> <td>File Path:</td> <td><input type="text"/></td> </tr> <tr> <td>File Name:</td> <td><input type="text"/></td> </tr> <tr> <td>Img_dwl3600/6600</td> <td>DLink 3600/6600 AP Radios</td> </tr> <tr> <td>File Path:</td> <td><input type="text"/></td> </tr> <tr> <td>File Name:</td> <td><input type="text"/></td> </tr> <tr> <td>Img_dwl2600</td> <td>DLink 2600 AP Radios</td> </tr> <tr> <td>File Path:</td> <td><input type="text"/></td> </tr> <tr> <td>File Name:</td> <td><input type="text"/></td> </tr> <tr> <td>Group Size:</td> <td><input type="text" value="6"/> (1 to 12)</td> </tr> <tr> <td>Image Download Type:</td> <td> <input type="text" value="All images"/> <ul style="list-style-type: none"> <li style="background-color: #0056b3; color: white; padding: 2px;">All fc:75:16:77:86:40 - 192.168.10.90 - </td> </tr> <tr> <td>Managed AP:</td> <td><div style="border: 1px solid #ccc; height: 40px;"></div></td> </tr> </table> <p style="font-size: small; margin-top: 10px;"> 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. </p> <p style="text-align: center; margin-top: 10px;"> <input type="button" value="Start"/> <input type="button" value="Refresh"/> </p>				Server Address:	<input type="text" value="0.0.0.0"/>	Img_dwl8600	DLink 8600 AP Radios	File Path:	<input type="text"/>	File Name:	<input type="text"/>	Img_dwl3600/6600	DLink 3600/6600 AP Radios	File Path:	<input type="text"/>	File Name:	<input type="text"/>	Img_dwl2600	DLink 2600 AP Radios	File Path:	<input type="text"/>	File Name:	<input type="text"/>	Group Size:	<input type="text" value="6"/> (1 to 12)	Image Download Type:	<input type="text" value="All images"/> <ul style="list-style-type: none"> <li style="background-color: #0056b3; color: white; padding: 2px;">All fc:75:16:77:86:40 - 192.168.10.90 - 	Managed AP:	<div style="border: 1px solid #ccc; height: 40px;"></div>
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WIRELESS CONTROLLER																														

- 5.) Tragen Sie jetzt Ihre Daten ein
- Server-IP des TFTP-Servers
 - die entsprechenden FW-Dateien für die einzelnen APs
 - bei „Image Download Type“ können Sie die Auswahl auf z.B. nur „DWL-3600/6600AP“ begrenzen
 - bei „Managed AP“ können Sie auswählen, ob Sie alle APs oder nur einzelne APs aktualisieren wollen
 - bestätigen Sie die Eingabe mit „Start“ und warten Sie bis das Update vollständig durchgeführt wurde

DWC-1000	SETUP	ADVANCED	TOOLS	STATUS
Wizard	SOFTWARE DOWNLOAD LOGOUT			
WLAN Global Settings	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.			
AP Management	<input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>			
WLAN Visualization	Access Point Software Download			
Internet Settings	Server Address:	<input type="text" value="192.168.10.104"/>		
Network Settings	Img_dwl8600	DLink 8600 AP Radios		
QoS	File Path:	<input type="text"/>		
GVRP	File Name:	<input type="text"/>		
VPN Settings	Img_dwl3600/6600	DLink 3600/6600 AP Radios		
VLAN Settings	File Path:	<input type="text"/>		
DMZ Setup	File Name:	<input type="text" value="DWL-x600_FW_v4"/>		
USB Settings	Img_dwl2600	DLink 2600 AP Radios		
	File Path:	<input type="text"/>		
	File Name:	<input type="text"/>		
	Group Size:	<input type="text" value="6"/> (1 to 12)		
	Image Download Type:	All images		
	Managed AP:	<input type="checkbox"/> All <input type="checkbox"/> fc:75:16:77:86:40 - 192.168.10.90 -		
	<p>⚠ 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.</p>			
	<input type="button" value="Start"/> <input type="button" value="Refresh"/>			
WIRELESS CONTROLLER				

6.) FW Update

Code Download Status	
Status	Requested
Download Count	1
Success Count	0
Failure Count	0
Abort Count	0

AP Status			
AP MAC Address	Location	Status	Software Version
FC:75:16:77:86:40		Requested	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 shows the Tftpd32 application window. The 'Current Directory' is set to 'C:\TFTP_ROOT\DWL-3600AP\BETA' and the 'Server interface' is '192.168.10.104'. A file transfer progress window is open, showing the file '.\DWL-x600_FW_v4_1_0_11_B01.t...' with a file size of 14325760 bytes. The progress bar indicates that 4480512 bytes have been sent at a rate of 344654 bytes per second, reaching 31% completion. The peer address is 192.168.10.90:32774 and the start time is 12:05:54.

Code Download Status	
Status	NVRAM Update In Progress
Download Count	1
Success Count	0
Failure Count	0
Abort Count	0

AP Status			
AP MAC Address	Location	Status	Software Version
FC:75:16:77:86:40		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.

Code Download Status	
Status	Success
Download Count	1
Success Count	1
Failure Count	0
Abort Count	0

 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.

7.) Wiederholen Sie jetzt Schritt 1 um die Firmware des AP zu prüfen.

DWC-1000	SETUP	ADVANCED	TOOLS	STATUS
Dashboard	MANAGED AP STATUS LOGOUT			
Global Info	Show all the details of managed AP.			
Device Info	List of Managed APs			
Access Point Info	MAC Address	fc:75:16:77:86:40 - ▾		
LAN Clients Info	IP Address	192.168.10.90		
Wireless Client Info	Managing Controller	Local Controller		
WDS Managed APs	IP Subnet Mask	255.255.255.0		
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	Code Download Status	Not Started		
	Discovery Reason	L2 Poll Received		
	Configuration Status	Success		
	Protocol Version	2		
	Vendor ID	D-Link		
	Authenticated Clients	0		
	Part Number	dwl6600ap		
	System Up Time	0d:00:08:00		