HowTo use different VLAN than VID 1 for Management

- The default VLAN 1 (IP Subnet 192.168.0.0/24) is reserved for LAN/WLAN Clients only
- The Management VLAN for DWC-1000 C1/DWC-2000 and DWL-xxxx must be VLAN 200

!!! The Management VLAN for DWC-1000 C1 / DWC-2000 is always LAN (VLAN 1) and can't be changed. **!!!**

Therefore we have to use VLAN Translation on the Switch where the DWC-1000 C1 / DWC-2000 is connected to.

The default IP of the DWC-1000 C1 / DWC-2000 is 192.168.10.1/24.

In this case we use a DGS-1510-28XMP (192.168.0.31/24), Port 1 is connected to DWC-1000 C1 and Port 2 is connected to DWL-8620AP. We already did change the DWC-1000 C1 initial IP to 192.168.0.223/24 for easier access via the D-Link Network Assistant (DNA). DHCP for all VLANs is handled by a router/firewall and not by DWC-1000 C1.



Login into DWC-1000 C1 (Firmware 4751B201 or newer) and go into the LAN Settings to modify LAN IP of DWC-1000

D-Link Unified Wireless Controller - DWC-1000 Cent @ Least @ JA @ @ @ 2.4Gtt #7 Unitation @ @ 0 Soft: N* Unitation @ @ 0 Cent RS				2020		Logged in as: admin (ADMIH) Language: English [US] Serial: (9853)H300009 Firmware: 4.7.5.18201C.C1WW
			Network		© ^o Maintenance	
Network = LAN = LAN Settings						0
The LAN Configuration page allows you to configure the LAN interface of the router including a address will require all LAN hosts to be in the same subnet and use the new address to access	default behaviour for pir this GUI.	ng on LAN interfaces,	the DHCP Server which	h runs on it and Chan	ges here affect all devices connected to the rout	er's LAN switch and also wireless LAN clients. Note that a change to the LA
LAN Settings						
LAN Diss						
Allow Ping from LAN						
IP Address Setup						
IP Address	192.168.0.223					
Subnet Mask	255.255.255.0					
DHCP Setup						
DHCP Mode	None	~				
Default Route						
Enable Default Route	ON					
SNAT	OFF					

Change the IP to VLAN 200 Subnet (incl. Default Route, when required).

aress will require all LAN nosts to be in the same subnet and AN Settings	i use the new address to access this dol.
LAN Ping	
Allow Ping from LAN	ON
IP Address Setup	
IP Address	192.168.1.200
Subnet Mask	255.255.255.0
DHCP Setup	
DHCP Mode	None 🗸
Default Route	
Enable Default Route	ON
Gateway	192.168.1.1
Primary DNS Server	8.8.8
Secondary DNS Server	8.8.4.4
SNAT.	

Ensure that the Switchport, where the DWC-1000 C1 is connected to, is set to VLAN 200 access, otherwise configure it now.

Fuzzy Search	VLAN Interface Information	
■ DGS-1510-28XMP Đ 📁 System	VLAN Interface Information	
🗄 📁 Management	Port	eth1/0/1
EL2 Features	VLAN Mode	Access
E 🖉 VLAN	Access VLAN	200
- 📄 VLAN Configuration Wizard - 📄 802.1Q VLAN	Ingress Checking	Enabled
VLAN Interface	Acceptable Frame Type	Untagged-Only

Login into DWC-1000 C1 (Firmware 4751B201 or newer) using the previously defined IP.

← → C ▲ Nicht sicher 192.168.1.200/platform.cgi					ģ 🏚
D-Link Unfred Wireless Controller - DWC-1900 (*) Curri (*) Ar (*) (*) (*) Culturation (*) (*) Sete RF Datasation (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	0.00		202		Logged in as: admin (40484) Language: English (US) Senal: (95536300009 Parmware: 4.7.5.18201C C1 WW Vavigator System Saenh. Q
🙆 Statu		🔜 Network		O ^o Maintenance	
Status + Dashboard					0 0
The Controller Memory Utilization, CPU Utilization, Traffic Overview, Bandwidth Usage, VPNs, Users Info, Managed - here.	P Status, AP Utilization	and Client Traffic, M	onthly Active Users fo	r all user/groups are profiled here.	Client Usage details and Application Overview statistics for supported APs are also displayed
Dashboard					Manage Dashboard
Top 5 AP Utilization	WLAN Traffic		anaged AP Status (0/1	2)	0

Define now all you Radio & SSID Settings.

Here you also please check our FTP-Server for additional documents & HowTo.

https://ftp.dlink.de/dwc/dwc-1000/documentation/DWC-1000_HowTo/

f.e.

https://ftp.dlink.de/dwc/dwc-1000/documentation/DWC-1000_HowTo/DWC-1000_HowTo_optimized_wireless_settings_neue_WebGUI_v7.pdf

https://ftp.dlink.de/dwc/dwc-1000/documentation/DWC-1000_HowTo/DWC-1000_HowTo_Default_Gateway_neue_WebGUI.pdf

https://ftp.dlink.de/dwc/dwc-1000/documentation/DWC-1000_HowTo/DWC-1000_HowTo_Einrichtung-APs_neue_WebGUI.pdf

In our Case I did configure 1 SSID for VLAN 1 and 1 SSID for VLAN 200.

Wireless - Access Point - AP Profile - AP Profile SSID						0
AP Profiles AP Profile Radio AP Profile SSID	AP Profile QoS					
This page displays the virtual access point (VAP) settings Access Point Profiles SSID List	associated with the selected AP profile. Ea	h VAP is identified by its network number an	d Service Set Identifier (SSID).We can confi	igure and enable up to 16 VAPs per	radio on each physical access	point.
AP Profile	[1-Default 👻				
Radio Mode		9 802.11a/n/ac O 802.116/g/n				
Isolated SSID Profiles	1	OFF				
Show 10 v entries						Go to 1 🗸 🗸
SSID Name	SSID Status	0 VLAN	0 Hide SSID	0 Security	0 Redirect	O Captive Portal
1-55ID-VLAN1 ~	Enabled	1-Default	Disabled	WPA Personal	None	Free
z-88ID-VLANZ00 👻	Enabled	200-internal///GMT	Disabled	WPA Personal	None	Free
Tana and the second sec	× +1 +				12	-

The Port-VLAN Settings for DWC-1000 C1 have not been changed.

Unified Wireless Controller - DWC-1000	100 cm 400 1	1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			10 C C C C C C C C C C C C C C C C C C C	Serial: Q8E53H3000069 Firmware: 4.7.5.18201C_C1_WW
🕘 Event 🔰 AP 🐨 😳 🥨 2.4GHz RF Utilization 🖲	🔘 📵 5GHz RF Utilization 💿 🥥 📵 Clien	r RSSI () () ()				A Navigator System Search
			ess 📃 Network		OP Maintenance	
Network - VLAN - Port VLAN						0 (
This page allows user to configure the port VLANs, membership information. Go to the Available VLAN	A user can choose ports and can add th I page to configure a VLAN membership t	em into a VLAN.In order to tag all traffic thro hat can then be associated with a port	ugh a specific LAN port w	ith a VLAN <mark>ID</mark> , you can	associate a VLAN to a phy	rsical port. The VLAN Port table displays the port identifier, the mode setting for that port and VLAN
Port VLANs List						
						4
Port Name	Q: Mod	e O	PVID	9	VLAN Membership	
Port1	Acce	a	1		1	
Port2	Acce	8	1		1	
Port3	Acce	15	1		1	
Port4	Acce	15	1		1	
Showing 1 to 4 of 4 entries						

Ensure that the Switchport, where the DWL's are/is connected to, is set to VLAN 200 access and VLAN 1 tagged, otherwise configure it now.

DGS-1510-28XMP	VLAN Interface Information	
System Management	Port	eth1/0/2
L2 Features FDB	VLAN Mode	Hybrid
E 🖉 VLAN	Native VLAN	200
WLAN Configuration Wizard Blog.1Q VLAN	Hybrid Untagged VLAN	200
VLAN Interface	Hybrid Tagged VLAN	1
SO2.1v Protocol VLAN GVRP	Dynamic Tagged VLAN	
Asymmetric VLAN	Ingress Checking	Enabled
IZVLAN	Acceptable Frame Type	Admit-All
Auto Surveillance VLAN		

Connect the DWL now to the configured ports and wait for them to boot up.

Then check on the DWC-1000 C1 the discovered APs and manage the discovered APs.

Unified Wireless Controller - DW					Serial: QBE53H3000069 Firmware: 4.7.5.18201C_C1_WW	
💿 Event 📵 AP 😨 💽 😨 2.4GHz R	F Utilization 🤉 👩 👰 SGHz RF Utilization 😨 🧕	10 Cient 859 0 00			A Navigator System Sea	arch Q
		🙆 Status <table-cell> 🔶 Wireless</table-cell>	s 📃 Network 🔮 Security	O° Maintenance		
Wireless - Access Point - AP List -	Not Managed					00
Not Managed Managed Con	nection Failed Authentication Failed	Peer Managed Valid Aps AP Provisioning AP Group	1			
The Not Managed APs page shows list	of aps which dont have an entry in valid ap	database, aps which have an entry in valid ap database b	ut not managed and aps which are detected a	ss rogue.		
Not Managed APs List						
Show 10					Go to 1	۹.)
MAC Address	O IP Address	0 Hardware Version		Firmware version	⊖ Status	Θ
00:AD:24:04:57:C0	192.168.1.35	DWL-8620AP Dual Radio a/b/g/n/ac		4.7.3.08004C	No Database Entry	
Showing 1 to 1 of 1 entries					(Trist Previous 1 New	

Unified Wireless Controller - DWC-	1000				Serial:	QBE53H3000069 Firmware: 4.7.5.1	8201C_C1_WW
💽 Event 🔞 AP 💿 💿 🗿 2.4GHz RF U	tilization 🕡 👩 🚺 5GHz RF Utilization 💿 🧕	😰 Client RSSI 🕐 💽 💽				Navigator	System Search 9,
			🛜 Wireless 📃 Network	Security 🔗 Maintenance			
Wireless - Access Point - AP List - No	ot Managed						0 0
Not Managed Managed Conne	ction Failed Authentication Failed	Peer Managed Valid Aps AP Provisi	The following AP MAC addre Valid AP by this Controller, managed, will be managed cycle aning AP Group	ess was configured as a The AP configured as at the next discovery			
The Not Managed APs page shows list of Not Managed APs List	f aps which dont have an entry in valid ap	database, aps which have an entry in va	slid ap database but not managed and app	s which are detected as rogue.			
Show 10 🗸 entries						Go to 1	۹ (۵
MAC Address	O IP Address	⊖ Hardware Version		θ Firmware v	ersion	θ Status	θ
00:AD:24:04:57:C0	192.168.1.35	DWL-8620AP Dual Radio a/	b/g/n/ac	4.7.3.0B004C		No Database Entry	
Showing 1 to 1 of 1 entries						J. Fint J. Pr	n-louis 1 Next > Lest >

Wait till the AP/APs become fully managed (Channel & Channel Power is displayed)

D-Link	Mar - DWC-1000			a series	Serial: Qi	E53H3000069 Firmware: 4.7.5.11	IZO1C_CI_WW
🕐 Event 🚺 AP 🗈 🔁 🕼	1 2.46Hz RF Utilization 👔 🕐 🖤 56Hz RF Utilization 👔 🧿 📵 Client RSSI 👳					🖌 Navigator	System Search
		🙆 Status 🎅 Wireless	📰 Network 🔮 Security	O ^o Maintenance			
Wireless ··· Access Point ··	APlist - Managed						0 0
Not Managed Manag	ged Connection Failed Authentication Failed Peer Managed	Valid Aps AP Provisioning AP Group					
AP managed by the Wireles	is Controller is listed by its MAC address and location. When the AP is in	Managed mode, remote access to the AP is di	isabled. However, we can enable Telnet	access by enabling the Debug feature	. We can also manually change th	e RF channel and power for each	radio on an AR
Managed APs List						AP Group	Non-Group 👻
Show 10 🛩 entries						Ge to 1	۹ (۵۰۰۰۹)
Model	O Location	O IP Address	8 Profile	0 Channel	Θ Power (X)	0 Firmware	θ STA Θ
DWL-8620AP	00:AD:24:04:97:C0	192.168.1.35	1 - Default	60/11	100/100	4.7.3.05004C	0
Showing 1 to 1 of 1 entries						(Press) Pre	Nous 1 Next 2 Last 2

Klick right on the freshly managed AP to modify it's own VLAN settings.

Skipping this part will result in the behavior that WLAN Clients later will get assigned to the wrong VLAN!

!! After you factory reset an AP you must repeat this steps. !!

Wireless » Access Point » AP List »	Managed									
Not Managed Managed Conr	ection Failed	Authenticati	ion Failed	Peer Managed Valid	Aps	AP Provi	sioning	AP Group		
AP managed by the Wireless Controller is listed by its MAC address and location.When the AP is in Managed mode, remote access to the AP is disabled. He Managed APs List										
Show 10 🗸 entries										
Model 🔂	Location	⇔	MAC Addre	ss		θ	IP Addr	ess		
DWL-8620AP			00:AD:24:04	:57:C0		-	192.168	1.35		
Showing 1 to 1 of 1 entries				 Select All Details & Statistics Neighbor Information Reboot & Factory Defail Channel & Power Firmware Upgrade Distributed Tunnel Disassociate Clients AP Debug Network Setting 	ult)					

Define the VLAN 200 as Management and untagged VLAN.

	Network Setting		
retess - Access Point - AP List - Managed Not. Managed Managed Connection Failed Authentication Failed Peer managed by the Wireless Controller is listed by its MAC address and location. When anaged APS List Imaged APS List MAC address and location. When anaged APS List MAC address and location. When anaged APS List Imaged APS List<	MAC Address Config Mode Management VLAN ID Untagged VLAN ID Controller IP Address/DNS Name - 1 Controller IP Address/DNS Name - 2 Controller IP Address/DNS Name - 3 Controller IP Address/DNS Name - 4	00:A0:24:04:57:C0 200 [Range: 1 - 4094] 200 [Range: 1 - 4094] 200 [Range: 1 - 4094] 0ptional 0ptional 0ptional	also manually 9 Power (%) 100/100
		S	ive

The AP then will perform a reboot.

D-Link alfied Wireless Controller - DWC-1000 Event () AP () () () (2.4GHz RF Utilization () () () () SGHz RF Utilization () () () () ()	Auf 192.168.1.200 wird Folgendes angezeigt: Applying the Network Settings configuration will reboot the Managed AP				
	Network Setting			Abbrechen	
ireless ···· Access Point ··· AP List ··· Managed	MAC Address Config Mode	00:AD:24:04:57:C0			

After the reboot you can connect WLAN Clients to the WiFi.

Unified Wireless Controlls	er - DWC-1000 2.4GHz RF Utilization 🚯 🌘	🕐 📵 SGHz RF Ubilization 👔 🕐 🚺 Client RSSI 0	00		1.0			Y	38-	Serial: C	20053349000069 Firmware: 4.7.5 Navigator	18201C_C1_WW	n a]
				🛜 Wireles	s 📃 Netword		y 🗘 🍄 Mainten						
Wireless - Access Point - AF	List - Managed												00
Not Managed Manager	d Connection Failed	Authentication Failed Peer Managed	Valid Aps AP Provisio	oning AP Group									
AP managed by the Wireless (Controller is listed by i	its MAC address and location. When the AP is in	Managed mode, remote	access to the AF	is disabled. However	we can enable Telse	et access by enabling t	he Debug f	eature. We can a	lso manually change t	the RF channel and power for eac	h radio on an AP.	
Managed APs List											AP Group	Non Group	~
Show 10 × entries											Go to 1	*	٩
Model	O Location	O MAC Address	0 1	P Address	9 1	rofile	0 0	Channel	θ	Power (%)	0 Firmware		Θ STA Θ
DWL-8620AP		00: AD: 24:04:57: C0	,	92.168.1.35		- Default		40/6		100/100	4.7.3.08004C		2
Showing 1 to 1 of 1 entries											1 Fint 1 1	reviews 1. Next.)	Lese M

Unified Wireless Controller - DV	WC-1000 RF Utilization 🕐 🕕 🚺 SGHz RF Utilization 🕕 🥘	0 Client R551 0 💿 🚺		6.007		Serial: 08653H3000069	Firmware: 4.7.5.18201C C1_WW
		🙆 Status	🛜 Wireless	Network	🚭 Maintenance		
Status Wireless Information Ass	ociated Clients Associated Client						00
Global Status Associated Cl	ient Ad Hac Clients Detected Clients						
You can view a variety of informatic WLAN Associated Clients Lis	sn about the wireless clients that are associate t	d with the APs the controller manag	per.				
Show 10 👻 entries							Go to t
Client MAC Address	O Client IP Address	e ssid	e BSSID	e AP IP Address	⊖ AP MAC Address	e Age [DD:HH:MM:SS]	e CP Status e
1A:87:E3:23:AE:86	192, 168, 0, 167	SSID-VLAN1	00:AD:24:04:57:C0	192.168.1.35	00:AD:24:04:57:00	00:00:00:05	NA
7E:A1:CD:D2:BD:5F	192.168.1.36	55ID-VLAN200	001AD1241041971D1	192.168.1.35	001AD124(04(57)C0	02:00:00:05	NA
Showing 1 to 2 of 2 entries							() First () Previous (1) Heat (2) Lett (2)

Also you can check the Switch Forwarding Database (MAC Table).

Switchport 1 = MAC Address of DWC-1000 C1 within VLAN 200

DOS-1510-200MP	MAC Address Table			
System Macoprover(Macoprove(Macop	Pori VIID (1-4034) MAC Address	eth1/0/1 v po.84-57-00-00		Obser Dynamic by Port Tind Clear Dynamic by VCAN Tind Clear Dynamic by VCAN Tind
MAC Address Table	Total Entries: 1			Clear All View All
MAC Notication	VID	MAC Address	Туре	Port
🗄 🗱 STP	200	80-26-89-40-80-85	Dynamic	6011/0/1
B BERTS (C. 8032) B Locatoria Detection				1/1 2 3 1 Cu

Switchport 2 = MAC Address of DWL-8620 within VLAN 200, as well as all WiFi Clients in their VLANs

DOS-1510-200MP	MAC Address Table			
🖹 🔛 System				
🗏 💭 Management	Port	eth1/0/2 ~		Clear Dynamic by Port Rind
🖹 🌽 12 Finaturas	102 (1.4001)			Close Diversity in 19 and
E 📁 FIR	(in (in the)			Clear Dynamic by View Find
🗃 💭 Stehe FDB	MAC Address	00-84-57-00-00-00		Clear Dynamic by MAC Tind
ANC Apprass Table Settings				
WIC Address Table	Total Entries: 3			Clear All View All
MAC Notification	VID	MAC Address	Тура	Port
H CAN	4	1A-87-E3-23-AE-86	Dynamic	eth100/2
🗄 🚅 CRPS (G-8032)	200	00.4D-24-04-57-C0	Dyramic	eih1/0/2
Looptack Detection	200	7E-A1-C0-D2-8D-9F	Dyramic	eth 1/0/2
Il 2 Maticost Control				111 12 12 1 12 12 13