

HowTo: setup MultiSSID with Nuclias Cloud

[requirements]

- 1. DBA-xxxx Nuclias managed AP
- 2. DBS-xxxx Nuclias managed Switch or any vlan capable switch

[scenario]

Within Nuclias Cloud you want to configure MultiSSID (2 SSIDs) which are separated by VLANs. The internal SSID is located within VLAN 1 and the guest SSID is located within VLAN 10. For each VLAN/SSID there is a dedicated router available.



[preperation]

- ⇒ all nuclias managed devices are managed and synchronized within yor nuclias account
- \Rightarrow all APs are allocated to their AP Profile



[MultiSSID within AP Profile]

Go to the AP Profile page

DASHBOARD MC	DNITOR CONFIGURE R	EPORTS SETTINGS	HELP			
Configure / Access point / Pr	ofiles					
Create profile Delete	profile Add device Bulk imp	ort				Q, Search 👻
# Profile			Model name	Access level	Devices	Actions
1			DBA-1210P	Organization	1	😤 SSID (HI) RADIO 🛞 SETTINGS 🖓 PUSH CONFIGURATION 📋 DELETE
2			DBA-1510P	Organization	Q	In SSID (₩) RADIO I SETTINGS I PUSH CONFIGURATION I DELETE
3			D8A-2820P	Organization	Q	I SSID (∞) RADIO I SETTINGS I PUSH CONFIGURATION I DELETE
4			D8A-1210P	Organization	0	
5 TestLab_WLAN	GroundFloor		DBA-2820P	Organization	1	😤 SSID (10) RADIO 🛞 SETTINGS 🖓 PUSH CONFIGURATION 📋 DELETE
						Previous 1 Nevt 10 ×

1.) klick SSID for your AP Profile

Zonfigure / Access point / Profiles / Trestlab_WLAN_GroundFloor / SSID									
PUSH CONFIGURATION			SSID	RADIO	SETTING				
Add SSID Delete									
SSID	2.4 GHz	5 GHz	Broadcast SSID	Se	scurity				
Nuclias Guest	24 GHz	5 GHz	Broadcast SSID	s. 0	pen				
Nuclias Guest Nuclias Office	24 GHz	> cHz V	Broadcast SSID	9 0 W	pen PA/WPA2				

- a. here you see now the default SSIDs "Nuclias_Guest" and "Nuclias_Office"
- b. select then the "Nuclias_Guest" SSID, so that we can modify it

19 1 0011 0010										
BASIC	APTIVE PORTAL	ACCES	S CONTROL	SCHEDULED AVAILABILITY	ADVANCED					
SSID name*	Nuclias_Gues									
Security 👔	Open	•								
Broadcast SSID	Enable	🔿 Disable								
Band selection	✓ 2.4 GHz	5 GHz	Band steering							
Guest access mode	Enable	🔿 Disable								
NAT mode	Enable	O Disable								
VLAN	O Enable	Disable								
Station isolation	Enable	🔿 Disable								
						Cancel	Save			

- i. to change the SSID Name, click on the blueish name "Nuclias_Guest", type your new SSID Name and confirm with Return
- ii. choose the security to your liking from the drop down menu
 - 1. depending on your choice there will be now some additional menus about the authentication
- iii. select if the SSID should be broadcasted, or not
- iv. select, if you want to use Band steering, or not
- v. select, if you want Guest Access Mode, or not
- vi. select, if you want to NAT the Wifi, or not
- vii. select, if you want to use VLAN assignmet for the SSID, or not



- if you enable VLAN, then the default setting is VLAN "TAGGED", this setting is how the VLAN is transported at the LAN Port of the AP, so depending on your design and Switchport configuration the VLAN should be "Tagged" or "Untagged"
- 2. if you do not enable the VLAN, then the SSID will be transmitted within the Management VLAN of the AP, which is by default VLAN 1 untagged
- viii. select, if you want WLAN Station isolation, or not

For our scenario we then define the SSIDs name as "Guest_WLAN_Nuclias" with WPA/WPA2 (AES) authentication. The SSID is being transmitted (displayed, not hidden).

The AP also can <u>NOT</u> band-steer clients from 2.4 GHz to 5 GHz vice versa.

Also the SSID is being assigned to VLAN 10 for our guest network.

Configure / Access point / Profiles / Te	stLab_WLAN_GroundFloor / Guest_WLAN_Nucl	ias					
Saved successfully							
The new configuration is not applied	o managed device yet. You need Push Configuration	on to apply the new configuration	to managed device.				
$\langle_{\!\!\!1\!\!\!1}\rangle$ push configuration						SSID	
BASIC CAPTIVE POR	TAL ACCESS CONTROL SC	HEDULED AVAILABILITY	ADVANCED				
SSID name*	Guest_WLAN_Nuclias						
Security 🔞	WPA/WPA2 -						
Auth method	PSK 👻						
Encryption	AES -						
Passphrase*	•••••						
Group key update interval*	3600 🖨 sec.						
Broadcast SSID	Enable Disable						
Band selection	✓ 2.4 GHz S GHz Band stee	ring					
Guest access mode	🔿 Enable 💿 Disable						
NAT mode	🔘 Enable 🔘 Disable						
VLAN	Enable O Disable						
VLAN mode	Tagged O Untagged						
VLAN tag*	10						
Station isolation	🔾 Enable 🔍 Disable						
				Cancel	Save		

Disable Captive Portal for the SSID, if you do not want to use it.



Configure / Access poi	int / Profiles / TestLab_WL	AN_GroundFloor / Guest_WL	AN_Nuclias					
PUSH CONFIG	URATION						SSID	
BASIC	CAPTIVE PORTAL	ACCESS CONTROL	SCHEDULED AVAILABILITY	ADVANCED				
Captive portal*	None							
	O Click-th	rough						
	⊖ Sign-on	with basic login page						
	◯ Sign-on							
	○ Sign-on	with basic login and third party	credentials					
	⊖ Sign-on	with SMS authentication						
	◯ Sign-on	with e-mail authentication, SM	S authentication and third party credent	ials				
	◯ Sign-on	with External Captive Portal						
URL redirecti	ion 🕜 🔿 Enable	Disable						
					Cancel	Save		

Repeat the step now for the 2nd SSID

Configure / Access point / Profiles / TestLab_WLAN_GroundFloor	/ SSID					
			SSID	RADIO	SETTING	
Add SSID Delete						
SSID					Security	
Guest WLAN Nuclias	V	2			WPA/WPA2	
Nuclias_Office	V				WPA/WPA2	
					Previous 1 Next 10 -	

For our scenario we then define the SSIDs name as "Office_Nuclias" with WPA2/WPA3 (AES/SAE) authentication. The SSID is being transmitted (displayed, not hidden).

The AP also can band-steer clients from 2.4 GHz to 5 GHz vice versa.

Configure / Access point / Profiles / Te	estLab_WLAN_GroundFloor / Office_W	LAN			
Saved successfully					
The new configuration is not applied	to managed device yet. You need Push Co	onfiguration to apply the new configuratio	n to managed device.		
PUSH CONFIGURATION					SSID
BASIC CAPTIVE POR	ACCESS CONTROL	SCHEDULED AVAILABILITY	ADVANCED		
SSID name*	Office_WLAN				
Security 🔞	WPA2/WPA3				
Auth method	PSK/SAE 👻				
Encryption	AES 👻				
Passphrase*	•••••				
Group key update interval*	3600	ec.			
Broadcast SSID	Enable Disable				
Band selection	✓ 2.4 GHz ✓ 5 GHz ✓	Band steering			
Guest access mode	O Enable 💿 Disable				
NAT mode	○ Enable				
VLAN	O Enable Disable				
Station isolation	🔿 Enable 🔘 Disable				
				Cancel Sav	/e

Also the SSID is being assigned to default VLAN 1 untagged.



Within the AP Profile you also modify some radio settings, by clicking "Radio".

			NGS HELP	REPORTS	CONFIGURE	MONITOR	DASHBOARD
						ioint / Profiles	onfigure / Access p
Q, Search				kimport	Add device Bull		Create profile
Actions	Devices	Access level	Model name				# Profile
😤 SSID (∞) RADIO 🔘 SETTINGS 🖓 PUSH CONFIGURATION 🍵 DELETE	1	Organization	D8A-1210P				1
SSID (∞) RADIO SETTINGS PUSH CONFIGURATION DELETE	Q	Organization	DBA-1510P				2
In SSID (∞) RADIO (◎) SETTINGS (→) PUSH CONFIGURATION (■) DELETE	Q	Organization	DBA-2820P				3
😤 SSID (10) RADIO 🛞 SETTINGS 🖓 PUSH CONFIGURATION 📋 DELETE	Q	Organization	DBA-1210P				4
😤 SSID (00) RADIO 🔘 SETTINGS 🖓 PUSH CONFIGURATION 🍵 DELETE	1	Organization	DBA-2820P		oor	WLAN GroundFl	5 TestLab

Here you can select the Radio Settings for each radio band and radio mode.

ionfigure / Access point / Profiles /	TestLab_WLAN_GroundFloor / Radio				
PUSH CONFIGURATION			SSID	RADIO	SETTING
BASIC CHANNEL	ADVANCED				
	2.4 GHz		5 GHz		
Radio	Enable O Disable		🖲 Enable 🔿 Disabl	le	
Radio mode	B/G/N •		A/N/AC	•	
Channel bandwidth	20/40 MHz (Auto) •		20/40/80/160 MHz (Au	rto) 👻	
Tx power	100		100	A	
SSID Isolation	🔿 Enable 🔘 Disable				
		Cancel Save			

As well as selecting the available channels for each radio.

Configure / Access point / Profiles / Test	Itab, WLAN, GroundFloor / Radio		SSID	RADIO	SETTING	
BASIC CHANNEL	ADVANCED					
	2.4 GHz		5 GHz			
Auto channel	Enable Disable		Enable O Disable			
Channel	1 *		36	×		
Eligible channels	3 2 3 4 5 5 7 6 9 36 13 12 13 Unelected Selected		36 40 44 48 144 149 153 157 Unselected Sel	52 55 40 64 100 104 106 11 151 ected	2 116 120 124 128 122 136 140	
Force auto channel scan	🔿 Enable 🜒 Disable		🔿 Enable 🖲 Disable			
Auto channel interval	ó 🕒		6	bours		
Run auto channel	Run Auto channel now		Run Auto channel now			
		Cancel Save				



Also some advanced features like DTIM and Beacon Interval as well as UAPSD (power saving for clients) can be modified according to your requirements.

Configure / Access point / Profiles / Te	stLab_WLAN_GroundFloor / Radio					
$\widehat{\iota_{\rm H}}$ push configuration				SSID	RADIO	SETTING
BASIC CHANNEL	ADVANCED					
	2.4 GHz			5 GHz		
Multi-cast rate		÷		24	¥	
Beacon interval	100	🔹 ms		100	🐑 ms	
DTIM interval	2	*		2	ŧ	
UAPSD	Enable O Disable			Enable O Disable		
Short guard interval	Enable O Disable			Enable O Disable		
			Cancel Sa	ave		

After you've finished configuring the AP Profile you can push it to all the

APs									
Carligne / Access point / Profiles / Testlab WAN Groundfloor / SSID									
			SSID	RADIO		SETTING			
Add SSID Delete									
SSID	2.4 GHz	5 GHz	Broadcast SSID		Security				
Guest WLAN Nuclias	•	V			WPA/WPA2				
Office WIAN			V		WPA2/WPA3				
						Previous 1 Next	10 -		

Status	Device name	Time	Detail
Success	DBA-2820P	08/12/2020 11:38 AM 08/12/2020 11:38 AM	Starting update process Update completed
		Previou	is 1 Next 10

The APs now start to transmit the SSIDs according to your settings.

! At this point, only clients within the Office_Nuclias" SSID can connect and have internet access, since this SSID is located within VLAN 1. The Guest Clients can connect to the SSID "Guest_WLAN_Nuclias" but will not obtain an IP Address or have internet access, since the VLAN 10 is currently not defined at your switch !

(If you use 3rd party switches, or non-Nuclias Switches, you must now set the VLAN assignment there manually.)



[MultiSSID within AP Profile]

Go to the Switch device page

DA	SHBOARD	MONITOR	CONFIGURE R	EPORTS SET	ITINGS HE	LP.											
Config	re / Switch	Devices															
Add	device	Bulk import Delet	e Tag *										Time fram	ne: Last 2	4 hours • Q	Search	· . ±
	# Status	Device name	MAC address	Public IP	Local IP	Model name	Connectivity	Power delivered	Power budget	Tags	Configuration status	Profile	Site	Site tag	Firmware version	Hardware version	Last seen D
	1 0	DBS-2000-52-L	48 60:63:4C:A3:FF:B0		-	DBS-2000-52					Synchronized	DBS-2000	DCE-LAB	Office			2
	2 0	DBS-2000-28P	C4:E9:0A:84:46:90	93.234.241.168	192.168.10.22	DBS-2000-28P		8W	193 W		Not synchronized	DBS-2000	DCE-LAB	Office	1.00.029	A1	Online 9
۲.																	>
																Previous 1	Next 10 -

Select the switch you want to modify by clicking on the device name.

1	Configure	/ Switch / De	rvices														
	Add de	vice Bulk	import Delete	Tag 💌								Time fra	me: Last 24	thours •	Search 🔹	· · · ·	⊻
							Model name		Power budget	Configuration status							Ċ
	1	0	DBS-2000-52-LAB	60:63:4C:A3:FF:B0			DBS-2000-52			Synchronized	DBS-2000	DCE-LAB	Office				7
	2		DBS-2000-28P	C4:E9:0A:84:46:90	93.234.241.168	192.168.10.22	DBS-2000-28P	8W	193W	Not synchronized	DBS-2000	DCE-LAB	Office	1.00.029	A1	Online	ş
	<																>

Here you can now modify some basic management settings, as well as change Site, Profile and Management-VLAN for the switch.





To modify the Port-VLANs go to "Ports".



Here you also can see if a port is connected, the connection speed and when supported if PoE is delivered.

Click now on "configure ports on the switch" to manually modify the specific switch/port.

inigure /	Switch / Switch Ports											Poli	s group. 28	ports	• DBS-2000-2	BP	•
				Tag 👻 28 swite	ch ports										Q Search	•	III •
#	Switch / Ports	Port #	Aggregate	Link 🕐	Speed downshift	Type	VLAN	Allowed VLANs	Port state	PoE	PD alive	PD IP address	RSTP	LBD	Mrouter port (VLANs)	Port CoS	Ports
1	DBS-2000-28P/1	1		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		0	
2	DBS-2000-28P/2	2		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		0	
3	DBS-2000-28P/3	3	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
4	DBS-2000-28P/4	4		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		0	
5	DBS-2000-28P/5	5		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		0	
6	DBS-2000-28P/6	6		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		0	
7	DBS-2000-28P/7	7		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		0	-
8	DBS-2000-28P/8	8		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	
9	DBS-2000-28P/9	9		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		0	
10	DBS-2000-28P/10	10		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		0	

Now you can select the ports you want to configure.

! This settings will become active immediately!

! TIPP #1: Filter the Switch type and Profile you want, otherwise all switches within the Profile will be displayed.

DASHBO	DARD MC	NITOR	CONFIGU	RE REPC	ORTS	SETTINGS	HELP											
Configure /	Switch / Switch P	orts											Por	ts group : 21	s ports 🔹	• DBS-20)00-28P	-
					Tag 👻	28 switch por	ts						_			Q Search	6	• 111 •
• #	Switch / Ports		Port #	Aggregate	Link	0		Speed downshift	Туре	VLAN	Allowed VLANs	Port state	PoE	PD alive	PD IP address	RSTP	LBD	Mrouter port (VI
21	DBS-2000-28P/	21	21		Auto	/ Link down		Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	

! TIPP #2: provide each switch a unique name, otherwise it might be difficult to differentiate in between them.

Ę		Aggregate	Split	Mirror	Unmirror	Tag	-	80 switch ports	
	#	Switch / Ports		Port #	Aggregate	2	Link	2	Speed do
	51	DBS-2000-52-LA	<u>B/51</u>	51	2 4 1		RJ45:	Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled
	52	DBS-2000-52-LA	B/52	52	-		RJ45:	Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled
	58	DBS-2000-28P/1		1			Auto	/ Link down	Disabled
	54	DBS-2000-28P/2		2	-		Auto	/ Link down	Disabled
	55	DBS-2000-28P/3		3	1211		Auto	/ Link down	Disabled



! TIPP #3: when configuring the ports later, at some browsers it will not be displayed immediately correctly, so refreshing the page can solve this.

For our scenario we need to configure Port 28 as VLAN Trunk with VLAN 1 = untagged and VLAN 10 = tagged as Uplink to the other Switch.

For our scenario we need to configure Port 24 as VLAN Trunk with VLAN 1 = untagged and VLAN 10 = tagged as Uplink to the AP.

So now slide the sides, till you reach the port you want to configure.

At first we modify the Uplink, so that the VLANs are being transmitted to other switches too.

Click on the Switch/Port to modify the settings.

Conf	igure /	Switch / Switch Ports									Por	ts group : 28	ports •	• DBS-20	00-28P	-
					Tag 👻 28 switch ports									Q Search		• •
	#	Switch / Ports	Port#	Aggregate	Link 😨	Speed downshift	Туре	VLAN	Allowed VLANs	Port state	PoE	PD alive	PD IP address	RSTP	LBD	Mrouter port (VL)
	21	DBS-2000-28P/21	21		Auto/Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	
	22	DBS-2000-28P/22	22		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	
	23	DBS-2000-28P/23	23	141	Auto/1Gbps	Disabled	Trunk	Native 1	1	Enabled	Enabled	Enabled		Disabled	Disabled	-
	24	DBS-2000-28P/24	24		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Enabled		Disabled	Disabled	-
	25	DBS-2000-28P/25	25		RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled				Disabled	Disabled	-
	26	DBS-2000-28P/26	26		RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled				Disabled	Disabled	
	27	DBS-2000-28P/27	27	241	RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled	-	1.	-	Disabled	Disabled	-
	28	DBS-2000-28P/28	28		RJ45: Auto / 1Gbps ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled	-	-		Disabled	Disabled	

Add the VLAN 10 to allowed VLANs, so that it can be transmitted correctly.

	uc	by D-Link	euisch		•			
D	ASHBO	DARD MONITOR	CONFIGU	ire repo	ORTS SETTINGS HELP			
Config	ure /	Switch / Switch Ports				Update 1 ports		×
E	dit		Mirror		Tag 👻 28 switch ports	Switch Ports		
					Link 👔	DBS-2000-28P / Port-28		Por
	21	DBS-2000-28P/21	21		Auto / Link down	Port name	Tags	Ena
	22	DBS-2000-28P/22	22		Auto / Link down	1-64 characters	eg."email-alerts phone"	Ena
	23	DBS-2000-28P/23	23		Auto / 1Gbps	Port state	Link (RJ45)	Ena
	24	DPS 2000-298/24	24		Auto (Link down	Enable	Auto 🔻	Ena
0	24	000-200/24	24		Addor Enkadown	Disable	Speed downshift Disable	Lila
	25	DBS-2000-28P/25	25		RJ45: Auto / Link down ;SFP : 1Gbps	STP guard	Link (SFP)	Ena
	26	DBS-2000-28P/26	26		RJ45: Auto / Link down ;SFP : 1Gbps	Disable 💌	1Gbps (auto) 🗸	Ena
	27	DBS-2000-28P/27	27		RJ45: Auto / Link down ;SFP : 1Gbps	i (a LBD	Port schedule	Ena
	28	DBS-2000-28P/28	28		RJ45: Auto / 1Gbps ;SFP : 1Gbps (au	Disable 🔻	Unscheduled •	Ena
<						Port CoS	Traffic segmentation	
						U U	Disable	
						Trunk	Forward ports	
						Notive M AN	select o ports	
						1		
						Allowed VLANs		
						1,10		
						<u> </u>		
							Close Apply	



(After refreshing the browser) it will be displayed like this, showing that VLAN 10 is now transmitted correctly.

Con	igure /	Switch / Switch Ports									Port	ts group : 28	ports •	• DBS-20	00-28P	-
					Tag v 28 switch ports									Q Search		• III •
	#	Switch / Ports	Port#	Aggregate	Link 👔	Speed downshift	Type	VLAN	Allowed VLANs	Port state	PoE	PD alive	PD IP address	RSTP	LBD	Mrouter port (V
	21	DBS-2000-28P/21	21	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-
	22	DBS-2000-28P/22	22		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	
	23	DBS-2000-28P/23	23	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Enabled		Disabled	Disabled	-
	24	DBS-2000-28P/24	24		Auto/1Gbps	Disabled	Trunk	Native 1	1	Enabled	Enabled	Enabled		Disabled	Disabled	
	25	DBS-2000-28P/25	25		RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled	-			Disabled	Disabled	
	26	DBS-2000-28P/26	26		RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled				Disabled	Disabled	
	27	DBS-2000-28P/27	27	-	RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled	-	2		Disabled	Disabled	-
	28	DBS-2000-28P/28	28		RJ45: Auto / 1Gbps ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1,10	Enabled				Disabled	Disabled	

The settings of the AP Port now are exactly the same according to our scenario, so modifying Port 24 will look like this.

			00111100	ne neror	and bernings hee			_								
Confi	gure /	Switch / Switch Ports				Update 1 ports	×	I		Por	ts group : 28 j	oorts 👻	DBS-20	00-28P		•
	Edit		Mirror		Tag 🝷 28 switch ports	Switch Ports		I							•	···· •
	8	Switch / Ports	Port#	Aggregate	Link 👔	DBS-2000-28P / Port-24		Po	ort state	PoE	PD alive	PD IP address	RSTP	LBD	Mrout	er port (VL)
	21	DBS-2000-28P/21	21		Auto / Link down	Port name	Tags	En	nabled	Enabled	Disabled		Disabled	Disabled		
	22	DBS-2000-28P/22	22		Auto / Link down	1-64 characters	eg,"email-alerts phone"	En	nabled	Enabled	Disabled		Disabled	Disabled		
	23	DBS-2000-28P/23	23		Auto / Link down	Port state Enable	Link (RJ45)	En	nabled	Enabled	Enabled		Disabled	Disabled		
	24	DBS-2000-28P/24	24		Auto / 1Gbps	RSTP	Speed downshift	En	nabled	Enabled	Enabled		Disabled	Disabled		
0	25	DBS-2000-28P/25	25		RJ45: Auto / Link down ;SFP : 1Gbps (Disable -	Disable 🔻	En	nabled				Disabled	Disabled		
	26	DBS-2000-28P/26	26		RJ45: Auto / Link down ;SFP : 1Gbps (STP guard	PoE Enable	En	nabled				Disabled	Disabled		
	27	DBS-2000-28P/27	27		RJ45: Auto / Link down ;SFP : 1Gbps (LBD	PD alive	En	nabled				Disabled	Disabled		
	28	DBS-2000-28P/28	28		RJ45: Auto / 1Gbps ;SFP : 1Gbps (auto	Disable •	Enable 👻	En	nabled				Disabled	Disabled		
<						Port CoS	PD IP address									>
						Туре	Port schedule									
						Trunk	Unscheduled 👻						Previous	1 2 3		10 -
						Native VLAN	Traffic segmentation									
						1 Allowed VI ANE	Disable									
						1,10	Select 0 ports *									
							Close Apply									

Now the APs GuestSSID VLAN also will be passed trough the switch.

Con	igure /	Switch / Switch Ports									Por	ts group : 28	ports •	• DBS-20	00-28P		•
					Tag v 28 switch ports									Q Search		•	III •
C		Switch / Ports	Port #	Aggregate	Link 🕐	Speed downshift	Туре	VLAN	Allowed VLANs	Port state	PoE	PD alive	PD IP address	RSTP	LBD	Mrout	er port (VL/
	21	DBS-2000-28P/21	21		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		
	22	DBS-2000-28P/22	22		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled		
	23	DBS-2000-28P/23	23		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Enabled		Disabled	Disabled		
C	24	DBS-2000-28P/24	24	-	Auto/1Gbps	Disabled	Trunk	Native 1	1,10	Enapled	Enabled	Enabled		Disabled	Disabled		
C	25	DBS-2000-28P/25	25		RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled	-			Disabled	Disabled		
	26	DBS-2000-28P/26	26		RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled				Disabled	Disabled		
	27	DBS-2000-28P/27	27		RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled				Disabled	Disabled		
C	28	DBS-2000-28P/28	28	-	RJ45: Auto / 1Gbps ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1,10	Enabled				Disabled	Disabled		
<																	>

Repeat the steps now for the Switch with the router Access-Ports.



				BASIC	SUMMAR	Y	PORTS	POWER	TOOLS	LICENSE
OVERVIEW										Configure ports on the swite
📕 1Gbps 🛛 🛑 10/100 N	Apbs 🛢 Disconnected 📗	Disabled 📒 Error	🗲 POE 🛛 Mirro	r 🕇 Uplink						
	7 9 11 13 8 10 12 14	15 17 19 19 19 19 19 19 19 19 19 19	21 23 25 21 23 25 22 24 25 25 25	27 25 28 26 Combo	27 27 28 28					

Use Profile configuration	O Enable	۲	Disable	

Confi	nfigure / Switch / Switch Ports												ports -	• DBS-2000-28P		•
					Tag v 28 switch ports									Q Search		•
		Switch / Ports	Port #	Aggregate	Link 🔞	Speed downshift	Туре	VLAN	Allowed VLANs	Port state	PoE	PD alive	PD IP address	RSTP	LBD	Mrouter port (VL
	21	DBS-2000-28P/21	21		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	
	22	DBS-2000-28P/22	22		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	
	23	DBS-2000-28P/23	23	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Enabled		Disabled	Disabled	-
	24	DBS-2000-28P/24	24		Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Enabled		Disabled	Disabled	
	25	DBS-2000-28P/25	25	4	RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled			-	Disabled	Disabled	0
	26	DBS-2000-28P/26	26		RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled				Disabled	Disabled	
	27	DBS-2000-28P/27	27	-	RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled				Disabled	Disabled	-
	28	DBS-2000-28P/28	28	-	RJ45: Auto / 1Gbps ;SFP : 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1,10	Enabled				Disabled	Disabled	
<																>

For the Access-Port now select the Port 1 and modify it to "ACCESS" VLAN 10.

Configure / Switch / Switch Ports													
	Edit Aggregate Split Mirror Unmirror Tag - 28 switch ports												
# Switch / Ports	Port# Aggregate	Link 🕐	Speed downshift	Туре	VLAN	Allowed VLANs	; F	Port state	PoE	PD alive			
DBS-2000-28P/1	1 -	Auto / 1Gbps	Disabled	Access	10	-	E	inabled	Disabled	Disabled			
DBS-2000-28P/2	2 -	Auto / Link down	Disabled	Trunk	Native 1	1	E	inabled	Enabled	Disabled			
< nuclias	× All •						d,	Alerts 8 Marcus Li	nde 👻 🛞 E	nglish 💌			
DASHBOARD MONITOR CONFIGURE	E REPORTS SETTINGS HEL	p											
Configure / Switch / Switch Ports		Update 1 ports		3	C	Ports group : All				•			
Edit Aggregate Split Mirror	Unmirror Tag	Switch Ports						Q Search	•	··· •			
# Switch / Ports Port #	Aggregate Link 👔 Speed	down DBS-2000-52-LAB / Port-1			Dalive PD IF	address RSTP	LBD	Mrouter port (VLANs) Port CoS	Por			
✓ 1 <u>DES-2000-52-LAB/1</u> 1	- Auto / Link down Disable	Port name	Tags			Disabled	Disabled		0				
2 <u>DBS-2000-52-LAB/2</u> 2	- Auto / Link down Disable	Port state	Link (RJ45)			Disabled	Disabled		0				
3 <u>DBS-2000-52-LAB/3</u> 3	- Auto / Link down Disable	Enable	▼ Auto	-		Disabled	Disabled		0				
4 <u>DBS-2000-52-LAB/4</u> 4	- Auto / Link down Disable	RSTP	Speed downshift			Disabled	Disabled		0				
5 <u>DBS-2000-52-LAB/5</u> 5	- Auto / Link down Disable	Disable	Disable	•	1	Disabled	Disabled		0				
6 DBS-2000-52-LAB/6 6	- Auto / Link down Disable	d Disable	Vinscheduled	•		Disabled	Disabled		0				
7 DBS-2000-52-LAB/7 7	- Auto / Link down Disable	d LBD	Traffic segmentation			Disabled	Disabled		0				
3 DBS-2000-52-LAB/8 8	- Auto / Link down Disable	Disable	• Disable	•		Disabled	Disabled		0				
□ 9 DRS-2000-52-148/9 9	- Auto/Linkdown Disable	Port CoS	Forward ports			Disabled	Disabled		0				
	Auto (Caludarum Dirab)	O Tana	Select 0 ports	Ŧ		Disklad	Disabled		-				
< 10 DB5-2000-52-DAB-10 10	- Adtor bink down Disabi	Access	•						U	· •			
		Access VLAN											
		10					Previous	1 2 3 4 5 6	7 8 Next	10 -			
		Access policy											
		Lisable											
		· · · · · · · · · · · · · · · · · · ·											
			Close	Apply									



If you want to verify the VLAN working correctly, you can check the device's FDB (Forwarding Data Base).

Go to the Switch's Device overview.

Co	snfigure / Switch / Devices																
	Add de	rice Bu	Ik import Delete	Tag 💌								Time frame :	Last 24 hours	•	Q Search	• #	⊪ • <u></u>
	#	Status	Device name	MAC address	Public IP	Local IP	Model name	Connectivity	Power delivered	Power budget	Tags	Configuration status	Profile	Site	Site tag	Firmware version	Hardw
C	1	0	DBS-2000-52-LAB	60:63:4C:A3:FF:B0			DBS-2000-52					Synchronized	DBS-2000	DCE-LAB	Office		
C	2		DBS-2000-28P	C4:E9:0A:84:46:90	93.234.241.168	192.168.10.22	DBS-2000-28P		0 W 0	193 W		Synchronized	DBS-2000	DCE-LAB	Office	1.00.029	A1
<																	>
																Previous 4 Next	10 -

Select the Switch you want to check and then go to "Tools" and select "Run" at the MAC Forwarding Table.

r / Switch	/ Devices / DBS-2000-	28P									• DBS-2000-28P	
					BASIC	SUMMARY	POF	TTS P	OWER	TOOLS	LICENSE	
NG							MAC FORWARDI	NG TABLE				
ddress/FQ	ON Google.com	n		Ping			Run C	ick "Run" button to display MA	C address (FDB) tab			
BLETES	т						CYCLE PORT					
	FORMAR	DILICITA										
AC	FORWAR	DING TA	BLE									
_	and the second second											
		cli-L fp.		- 4- 11	Made	(500) (-)						
	Run	Click "Ru	n" butto	n to <mark>displ</mark>	ay MAC addre	ess (FDB) tab						
	Run	Click "Ru	n" butto	n to <mark>disp</mark> l	ay MAC addre	ess (FDB) tab						
	Run	Click "Ru	n" butto	n to displ	ay MAC addre	ess (FDB) tab						•
_	Run	Click "Ru	n" butto	n to displ	ay MAC addre	ess (FDB) tab	Matche	sin 18 MACa	ddress	Q Search	_	^
	Run	Click *Ru	n" butto	n to displ	ay MAC addre	ess (FDB) tab	Matche	sin 18 MACa	ddress [Q Search		^
#	Run MAC	Click "Ru	n" butto	n to displ	ay MAC addre	ess (FDB) tab	Matche	Port	ddress	Q <u>Search</u> Type		^
#	Run MAC 1C:5F:2B	Click "Ru 19:6D:78	n" butto	n to displ	ay MAC addre	vLAN	Matche	Port 28	ddress	O <u>Search</u> Type Dynamic		^
#	Run MAC 1C:5F:2B	Click "Ru 19:6D:78	n" butto	n to displ	ay MAC addre	vLAN	Matche	Port 28	ddress	O <u>Search</u> Type Dynamic		
# 1 2	Run MAC 1C:5F:2B: 5C:C3:07	Click "Ru 19:6D:78 91:65:ED	n" butto	n to displ	ay MAC addre	VLAN 10	Matche	Port 28 24	ddress	Q Search Type Dynamic Dynamic		
# 1 2 3	Run MAC 1C:5F:2B: 5C:C3:07 00:16:06:	Click "Ru 19:6D:78 91:65:ED 88:03:FF	n" butto	n to displ	ay MAC addre	vLAN 10 10	Matche	Port 28 24 1	ddress	O search Type Dynamic Dynamic Dynamic		
# 1 2 3	Run MAC 1C:5F:2B: 5C:C3:07 00:16:06:	Click "Ru 19:6D:78 :91:65:ED 88:03:FF	n" butto	n to displ	ay MAC addre	vLAN 10 10	Matche	Port 28 24 1	ddress	O search Type Dynamic Dynamic Dynamic		
# 1 2 3 4	Run MAC 1C:5F:2B: 5C:C3:07 00:16:06: 78:32:1B:	Click "Ru 19:6D:78 91:65:ED 88:03:FF FF:FD:68	n" butto	n to displ	ay MAC addre	ess (FDB) tab VLAN 10 10 10 10	Matche	Port 28 24 1 28	ddress	O Search Type Dynamic Dynamic Dynamic Dynamic		
# 1 2 3 4 5	Run MAC 1C:5F:28: 5C:C3:07 00:16:06: 78:32:18: 90:8D:78	Click "Ru 19:6D:78 91:65:ED 88:03:FF FF:FD:68 E3:85:EF	n" butto	n to displ	ay MAC addre	ess (FDB) tab VLAN 10 10 10 1 1	Matche	Port 28 24 1 28 24 24 28 28	ddress	Q Search Type Dynamic Dynamic Dynamic Dynamic		
# 1 2 3 4 5	Run MAC 1C:5F:2B: 5C:C3:07 00:16:06: 78:32:1B: 90:8D:78	Click "Ru 19:6D:78 91:65:ED 88:03:FF FF:FD:68 E3:85:EF	n" butto	n to displ	ay MAC addre	ess (FDB) tab VLAN 10 10 10 1 1	Matche	Port 28 24 1 28 24 24 28 28	ddress	Cysearch Type Dynamic Dynamic Dynamic Dynamic		
# 1 2 3 4 5 8	Run MAC 1C:5F:2B: 5C:C3:07 00:16:06: 78:32:1B: 90:8D:78: 28:3B:82:	Click "Ru 19:6D:78 91:65:ED 88:03:FF FF:FD:68 E3:85:EF 0E:8F:C2	n" butto	n to displ	ay MAC addre	VLAN 10 10 1 1 1 1 1	Matche	Port 28 24 1 28 28 24 28 28 28	ddress	C Search Type Dynamic Dynamic Dynamic Dynamic Dynamic		
# 1 2 3 4 5 8	Run MAC 1C:5F:2B: 5C:C3:07 00:16:06: 78:32:1B: 90:8D:78 28:3B:82: C4:12:55	Click "Ru 19:6D:78 91:65:ED 88:03:FF FF:FD:68 E3:85:EF 0E:8F:C2 10:16:E0	n" butto	n to displ	ay MAC addre	Ess (FDB) tab VLAN 10 10 10 1 1 1 1 1	Matche	Port 28 24 1 28 28 28 28 28 28 28 28	ddress	C Search Type Dynamic Dynamic Dynamic Dynamic Dynamic		

The MAC Address in the FDB is the same as the one from the connected WLAN Client.

м	onitor	/ Access poi	nt / Clients									Time frame:	Last 24 hours Q Search	h 💌	
	¥ S	itatus	Client name	MAC address	IPv4 address	Connected to	SSID	Channel	RSSI	Usage	First seen	Last seen	Manufacturer	Authentication	User ID
	1		5C:C3:07:91:65:ED	5C:C3:07:91:65:ED	20.20.20.3	DBA-2820P	Guest_WLAN_Nuclias	36	-54	0 byte	08/12/2020 13:16:58	08/12/2020 13:30:27	HUAWEI TECHNOLOGIES CO.,LTD	None	None