

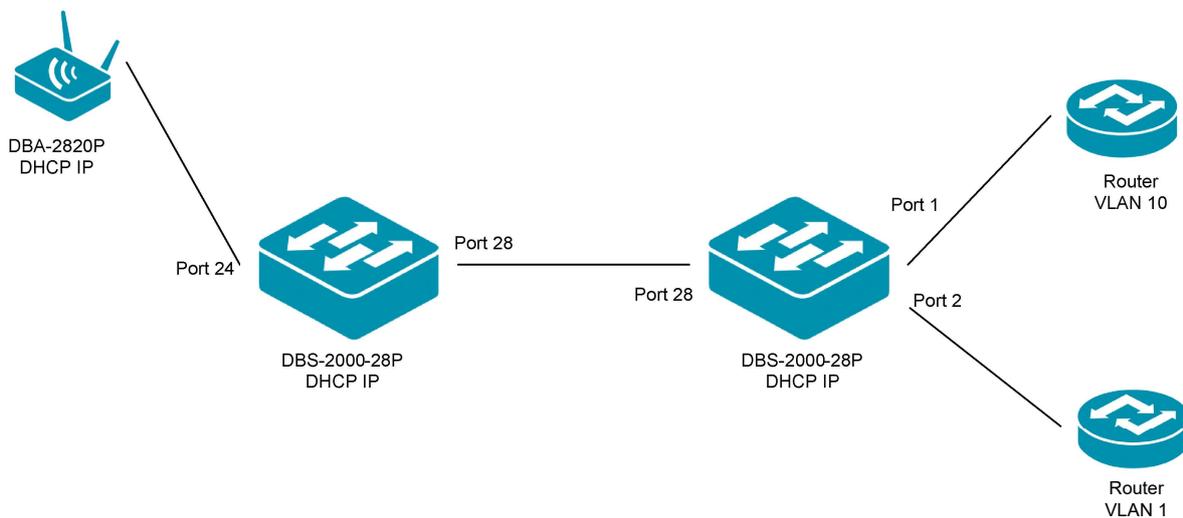
HowTo: setup MultiSSID with Nuclias Cloud

[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
- ⇒ all APs are allocated to their AP Profile

[MultiSSID within AP Profile]

Go to the AP Profile page

#	Profile	Model name	Access level	Devices	Actions
1		D6A-1210P	Organization	1	SSID (RADIO) SETTINGS PUSH CONFIGURATION DELETE
2		D6A-1510P	Organization	0	SSID (RADIO) SETTINGS PUSH CONFIGURATION DELETE
3		D6A-2020P	Organization	0	SSID (RADIO) SETTINGS PUSH CONFIGURATION DELETE
4		D6A-1210P	Organization	0	SSID (RADIO) SETTINGS PUSH CONFIGURATION DELETE
5	TestLab_WLAN_GroundFloor	D6A-2020P	Organization	1	SSID (RADIO) SETTINGS PUSH CONFIGURATION DELETE

1.) klikk SSID for your AP Profile

SSID	2.4 GHz	5 GHz	Broadcast SSID	Security
Nuclias_Guest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Open
Nuclias_Office	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WPA/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

Configure / Access point / Profiles / TestLab_WLAN_GroundFloor / Nuclias_Guest

PUSH CONFIGURATION

SSID

BASIC CAPTIVE PORTAL ACCESS CONTROL SCHEDULED AVAILABILITY ADVANCED

SSID name* Nuclias_Guest

Security ? Open

Broadcast SSID Enable Disable

Band selection 2.4 GHz 5 GHz Band steering

Guest access mode Enable Disable

NAT mode Enable Disable

VLAN 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

1. 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 NOT 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 / TestLab_WLAN_GroundFloor / Guest_WLAN_Nuclias

Saved successfully

The new configuration is not applied to managed device yet. You need Push Configuration to apply the new configuration to managed device.

[PUSH CONFIGURATION](#) SSID

BASIC	CAPTIVE PORTAL	ACCESS CONTROL	SCHEDULED AVAILABILITY	ADVANCED
<p>SSID name* Guest_WLAN_Nuclias</p> <p>Security WPA/WPA2</p> <p>Auth method PSK</p> <p>Encryption AES</p> <p>Passphrase* ••••••••</p> <p>Group key update interval* 3600 sec.</p> <p>Broadcast SSID <input checked="" type="radio"/> Enable <input type="radio"/> Disable</p> <p>Band selection <input checked="" type="checkbox"/> 2.4 GHz <input checked="" type="checkbox"/> 5 GHz Band steering</p> <p>Guest access mode <input type="radio"/> Enable <input checked="" type="radio"/> Disable</p> <p>NAT mode <input type="radio"/> Enable <input checked="" type="radio"/> Disable</p> <p>VLAN <input checked="" type="radio"/> Enable <input type="radio"/> Disable</p> <p>VLAN mode <input checked="" type="radio"/> Tagged <input type="radio"/> Untagged</p> <p>VLAN tag* 10</p> <p>Station isolation <input type="radio"/> Enable <input checked="" type="radio"/> Disable</p> <p style="text-align: right;"><input type="button" value="Cancel"/> <input type="button" value="Save"/></p>				

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

[PUSH CONFIGURATION](#) SSID

BASIC **CAPTIVE PORTAL** ACCESS CONTROL SCHEDULED AVAILABILITY ADVANCED

Captive portal*

- None
- Click-through
- Sign-on with basic login page
- Sign-on with third party credentials
- Sign-on with basic login and third party credentials
- Sign-on with SMS authentication
- Sign-on with e-mail authentication, SMS authentication and third party credentials
- Sign-on with External Captive Portal

URL redirection ? Enable Disable

Repeat the step now for the 2nd SSID

Configure / Access point / Profiles / TestLab_WLAN_GroundFloor / SSID

[PUSH CONFIGURATION](#) SSID RADIO SETTING

SSID	2.4 GHz	5 GHz	Broadcast SSID	Security
Guest_WLAN_Nuclias	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WPA/WPA2
Nuclias_Office	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WPA/WPA2

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.

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

Configure / Access point / Profiles / TestLab_WLAN_GroundFloor / Office_WLAN

Saved successfully

The new configuration is not applied to managed device yet. You need Push Configuration to apply the new configuration to managed device.

[PUSH CONFIGURATION](#) SSID

BASIC **CAPTIVE PORTAL** ACCESS CONTROL SCHEDULED AVAILABILITY ADVANCED

SSID name* Office_WLAN

Security ? WPA2/WPA3

Auth method PSK/SAE

Encryption AES

Passphrase*

Group key update interval* 3600 sec.

Broadcast SSID Enable Disable

Band selection 2.4 GHz 5 GHz Band steering

Guest access mode Enable Disable

NAT mode Enable Disable

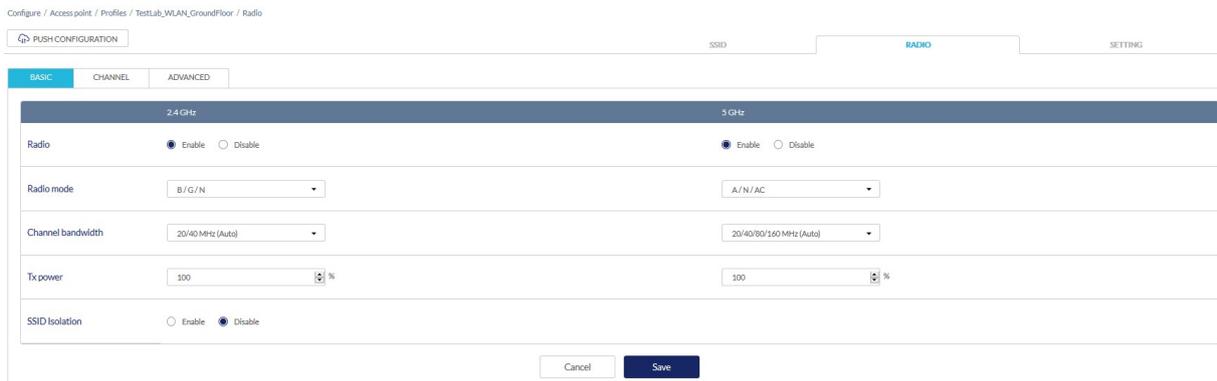
VLAN Enable Disable

Station isolation Enable Disable

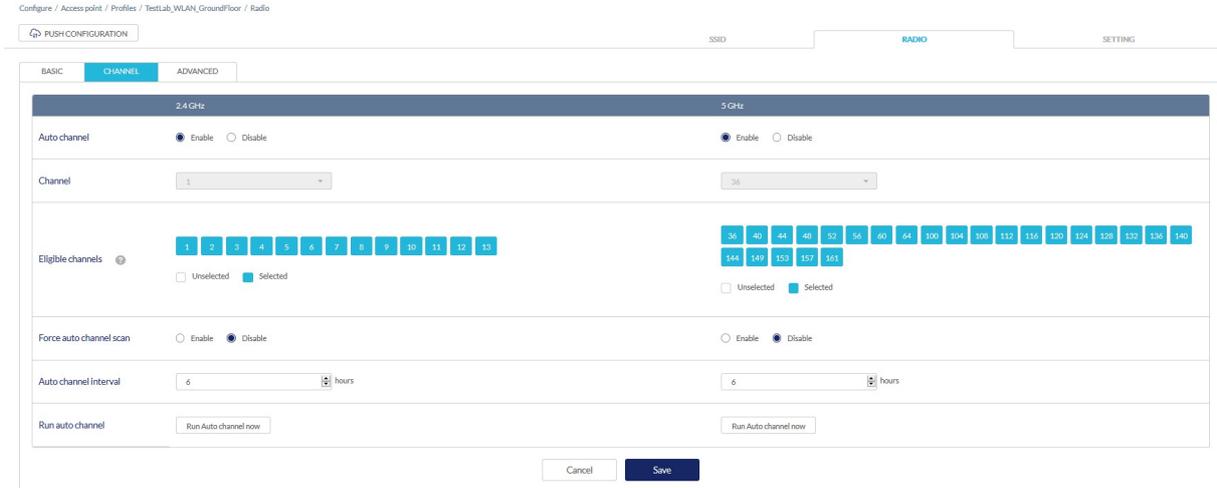
Within the AP Profile you also modify some radio settings, by clicking “Radio”.



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



As well as selecting the available channels for each radio.



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 / TestLab_WLAN_GroundFloor / Radio

PUSH CONFIGURATION

SSID RADIO SETTING

BASIC CHANNEL **ADVANCED**

	2.4 GHz	5 GHz
Multi-cast rate	11	24
Beacon Interval	100 ms	100 ms
DTIM Interval	2	2
UAPSD	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Short guard interval	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Cancel Save

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

APs

Configure / Access point / Profiles / TestLab_WLAN_GroundFloor / SSID

PUSH CONFIGURATION

SSID RADIO SETTING

Add SSID Delete

SSID	2.4 GHz	5 GHz	Broadcast SSID	Security
<input type="checkbox"/> Guest_WLAN_Nuclias	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WPA / WPA2
<input type="checkbox"/> Office_WLAN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WPA2 / WPA3

Previous 1 Next 10

Result

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

Previous 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

#	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
1	●	DBS-2000-S2-LAB	60:63:4C:A3:FF:80	-	-	DBS-2000-S2	●	-	-	-	Synchronized	DBS-2000	DCE-LAB	Office	-	-	-
2	●	DBS-2000-28P	C4:E9:0A:84:46:90	93.234.241.168	192.168.10.22	DBS-2000-28P	●	8 W	193 W	-	Not synchronized	DBS-2000	DCE-LAB	Office	1.00.029	A1	Online

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

#	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
1	●	DBS-2000-S2-LAB	60:63:4C:A3:FF:80	-	-	DBS-2000-S2	●	-	-	-	Synchronized	DBS-2000	DCE-LAB	Office	-	-	-
2	●	DBS-2000-28P	C4:E9:0A:84:46:90	93.234.241.168	192.168.10.22	DBS-2000-28P	●	8 W	193 W	-	Not synchronized	DBS-2000	DCE-LAB	Office	1.00.029	A1	Online

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

Monitor / Switch / Devices / DBS-2000-28P

BASIC | SUMMARY | PORTS | POWER

DEVICE INFORMATION

Device name: [DBS-2000-28P](#)

Model name: DBS-2000-28P

Device UID: 9JM2DZM4C5CF

MAC address: c4e90a844690

Serial number: S3F11JA000154

Local credential: User name: admin
Password: ●●●●●●

RSTP root: -

IGMP snooping: Disabled

Tags: - [Edit tag](#)

Hardware version: A1

IP CONNECTION

Type: DHCP Static IP

Local IP: 192.168.10.22

Management VLAN: 1
27 member ports belonging to this management VLAN currently.

Public IP: 93.234.241.168

Gateway: 192.168.10.1

DNS: 192.168.10.60

LOCATION

SITE AND PROFILE

Configuration status: Not synchronized

Firmware status: [Up to date](#)

Firmware version: 1.00.029

Site: [DCE-LAB](#)

Time zone: -

Profile: [DBS-2000](#)

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.

Configure / Switch / Switch Ports

Ports group: 28 ports DBS-2000-28P

#	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	Port sc
<input type="checkbox"/>	1 DBS-2000-28P/1	1	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
<input type="checkbox"/>	2 DBS-2000-28P/2	2	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
<input type="checkbox"/>	3 DBS-2000-28P/3	3	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
<input type="checkbox"/>	4 DBS-2000-28P/4	4	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
<input type="checkbox"/>	5 DBS-2000-28P/5	5	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
<input type="checkbox"/>	6 DBS-2000-28P/6	6	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
<input type="checkbox"/>	7 DBS-2000-28P/7	7	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
<input type="checkbox"/>	8 DBS-2000-28P/8	8	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
<input type="checkbox"/>	9 DBS-2000-28P/9	9	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-	0	-
<input type="checkbox"/>	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.

DASHBOARD MONITOR CONFIGURE REPORTS SETTINGS HELP

Configure / Switch / Switch Ports

Ports group: 28 ports DBS-2000-28P

#	Switch / Ports	Port #	Aggregate	Link	Speed downshift	Type	VLAN	Allowed VLANs	Port state	PoE	PD alive	PD IP address	RSTP	LBD	Mrouter port (VLANs)
<input type="checkbox"/>	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.

Configure / Switch / Switch Ports

80 switch ports

#	Switch / Ports	Port #	Aggregate	Link	Speed downshift
<input type="checkbox"/>	51 DBS-2000-52-LAB/51	51	-	RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled
<input type="checkbox"/>	52 DBS-2000-52-LAB/52	52	-	RJ45: Auto / Link down ;SFP : 1Gbps (auto) / Link down	Disabled
<input type="checkbox"/>	53 DBS-2000-28P/1	1	-	Auto / Link down	Disabled
<input type="checkbox"/>	54 DBS-2000-28P/2	2	-	Auto / Link down	Disabled
<input type="checkbox"/>	55 DBS-2000-28P/3	3	-	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.

Configure / Switch / Switch Ports Ports group: 28 ports DBS-2000-28P

#	Switch / Ports	Port #	Aggregate	Link	Speed/downshift	Type	VLAN	Allowed VLANs	Port state	PoE	PD alive	PO IP address	RSTP	LBD	Router port (VLAN)
<input type="checkbox"/>	DBS-2000-28P/21	21	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-
<input type="checkbox"/>	DBS-2000-28P/22	22	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled		Disabled	Disabled	-
<input type="checkbox"/>	DBS-2000-28P/23	23	-	Auto / 1Gbps	Disabled	Trunk	Native 1	1	Enabled	Enabled	Enabled		Disabled	Disabled	-
<input type="checkbox"/>	DBS-2000-28P/24	24	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Enabled		Disabled	Disabled	-
<input type="checkbox"/>	DBS-2000-28P/25	25	-	RJ45: Auto / Link down,SFP: 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled	-	-	-	Disabled	Disabled	-
<input type="checkbox"/>	DBS-2000-28P/26	26	-	RJ45: Auto / Link down,SFP: 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled	-	-	-	Disabled	Disabled	-
<input type="checkbox"/>	DBS-2000-28P/27	27	-	RJ45: Auto / Link down,SFP: 1Gbps (auto) / Link down	Disabled	Trunk	Native 1	1	Enabled	-	-	-	Disabled	Disabled	-
<input checked="" type="checkbox"/>	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.

Dashboard / Configure / Switch / Switch Ports

#	Switch / Ports	Port #	Aggregate	Link
<input type="checkbox"/>	DBS-2000-28P/21	21	-	Auto / Link down
<input type="checkbox"/>	DBS-2000-28P/22	22	-	Auto / Link down
<input type="checkbox"/>	DBS-2000-28P/23	23	-	Auto / 1Gbps
<input type="checkbox"/>	DBS-2000-28P/24	24	-	Auto / Link down
<input type="checkbox"/>	DBS-2000-28P/25	25	-	RJ45: Auto / Link down,SFP: 1Gbps (auto) / Link down
<input type="checkbox"/>	DBS-2000-28P/26	26	-	RJ45: Auto / Link down,SFP: 1Gbps (auto) / Link down
<input type="checkbox"/>	DBS-2000-28P/27	27	-	RJ45: Auto / Link down,SFP: 1Gbps (auto) / Link down
<input checked="" type="checkbox"/>	DBS-2000-28P/28	28	-	RJ45: Auto / 1Gbps,SFP: 1Gbps (auto) / Link down

Update 1 ports

Switch Ports: DBS-2000-28P / Port-28

Port name: 1-64 characters | Tags: eg:"email-alerts phone"

Port state: Enable | Link (RJ45): Auto

RSTP: Disable | Speed downshift: Disable

STP guard: Disable | Link (SFP): 1Gbps (auto)

LBD: Disable | Port schedule: Unscheduled

Port CoS: 0 | Traffic segmentation: Disable

Type: Trunk | Forward ports: Select 0 ports

Native VLAN: 1

Allowed VLANs: 1,10

Close Apply

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

Configure / Switch / Switch Ports

Ports group: 28 ports DBS-2000-28P

#	Switch / Ports	Port #	Aggregate	Link	Speed downshift	Type	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 / 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	-	-		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.

Update 1 ports

Switch Ports: DBS-2000-28P / Port-24

Port name: 3-64 characters eg "email-alerts phone"

Port state: Enable

Link: (RJ45)

Auto

Speed downshift: Disable

RSTP: Disable

STP guard: Disable

PoE: Enable

LBD: Disable

PD alive: Enable

Port CoS: 0

PD IP address: e.g. 10.90.90.90

Type: Trunk

Port schedule: Unscheduled

Native VLAN: 1

Traffic segmentation: Disable

Forward ports: Select 0 ports

Allowed VLANs: 1,10

Close Apply

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

Configure / Switch / Switch Ports

Ports group: 28 ports DBS-2000-28P

#	Switch / Ports	Port #	Aggregate	Link	Speed downshift	Type	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 / 1Gbps	Disabled	Trunk	Native 1	1,10	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	-	-		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	-

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

BASIC SUMMARY **PORTS** POWER TOOLS LICENSE

OVERVIEW [Configure ports on the switch](#)

1Gbps
 10/100Mbps
 Disconnected
 Disabled
 Error
 PoE
 Mirror
 Uplink

Use Profile configuration Enable Disable

Configure / Switch / Switch Ports Ports group: 28 ports DBS-2000-28P

Edit Aggregate Split Mirror Unmirror Tag 28 switch ports

#	Switch / Ports	Port #	Aggregate	Link	Speed downshift	Type	VLAN	Allowed VLANs	Port state	PoE	PD alive	PD IP address	RSTP	LBD	Mrouter port (VLAN)
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	-	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	-
28	DBS-2000-28P/28	28	-	RJ45: Auto / 1Gbps SFP: 3Gbps (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	Type	VLAN	Allowed VLANs	Port state	PoE	PD alive
1	DBS-2000-28P/1	1	-	Auto / 1Gbps	Disabled	Access	10	-	Enabled	Disabled	Disabled
2	DBS-2000-28P/2	2	-	Auto / Link down	Disabled	Trunk	Native 1	1	Enabled	Enabled	Disabled

nuclias

DASHBOARD MONITOR CONFIGURE REPORTS SETTINGS HELP

Configure / Switch / Switch Ports Ports group: All

Edit Aggregate Split Mirror Unmirror Tag 80 switch ports

#	Switch / Ports	Port #	Aggregate	Link	Speed downshift
<input checked="" type="checkbox"/>	DBS-2000-52-LAB/1	1	-	Auto / Link down	Disabled
<input type="checkbox"/>	DBS-2000-52-LAB/2	2	-	Auto / Link down	Disabled
<input type="checkbox"/>	DBS-2000-52-LAB/3	3	-	Auto / Link down	Disabled
<input type="checkbox"/>	DBS-2000-52-LAB/4	4	-	Auto / Link down	Disabled
<input type="checkbox"/>	DBS-2000-52-LAB/5	5	-	Auto / Link down	Disabled
<input type="checkbox"/>	DBS-2000-52-LAB/6	6	-	Auto / Link down	Disabled
<input type="checkbox"/>	DBS-2000-52-LAB/7	7	-	Auto / Link down	Disabled
<input type="checkbox"/>	DBS-2000-52-LAB/8	8	-	Auto / Link down	Disabled
<input type="checkbox"/>	DBS-2000-52-LAB/9	9	-	Auto / Link down	Disabled
<input type="checkbox"/>	DBS-2000-52-LAB/10	10	-	Auto / Link down	Disabled

Update 1 ports

Switch Ports

DBS-2000-52-LAB/Port-1

Port name Tags

Port state Link (RJ45)

RSTP Speed downshift

STP guard Port schedule

LBD Traffic segmentation

Port CoS Forward ports

Type

Access VLAN

Access policy

Close

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.

#	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
1		DBS-2000-S2-LAB	60:63:4C:A3:FF:8D			DBS-2000-S2					Synchronized	DBS-2000	DCE-LAB	Office		
2		DBS-2000-28P	C4:E9:0A:84:46:90	93.234.241.168	192.168.10.22	DBS-2000-28P		0 W	193 W		Synchronized	DBS-2000	DCE-LAB	Office	1.00.029	A1

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

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Monitor / Switch / Devices / DBS-2000-28P

Tools: PING, CABLE TEST, CYCLE PORT, **MAC FORWARDING TABLE**, LICENSE

MAC FORWARDING TABLE: Run (highlighted)

MAC FORWARDING TABLE

Run Click "Run" button to display MAC address (FDB) tab

Matches in 18 MAC address

#	MAC	VLAN	Port	Type
1	1C:5F:2B:19:6D:78	10	28	Dynamic
2	5C:C3:07:91:65:ED	10	24	Dynamic
3	00:16:06:88:03:FF	10	1	Dynamic
4	78:32:1B:FF:FD:68	1	28	Dynamic
5	90:8D:78:E3:85:EF	1	28	Dynamic
6	28:3B:82:0E:8F:C2	1	28	Dynamic
7	C4:12:F5:1C:16:E0	1	28	Dynamic

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

Monitor / Access point / Clients

#	Status	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