

Configuration Case of E-Series AP Multi-SSID Binding VLAN

一. Requirements Analysis

According to different wireless SSIDs, different end-users can access to different VLANs, and different clients obtain different IP addresses, thereby improving wireless security. Users can customize the Wi-Fi parameters to maximally meet the business as well as user requirements.

二. Equipment Model

The equipment list in this case includes switch, AC, AP, and PC.

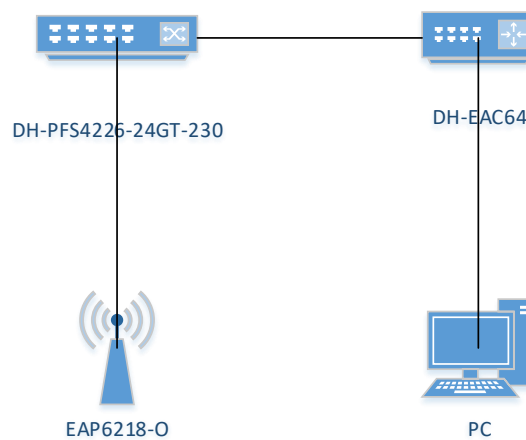
The specific models are as follows:

Switch: DH-PFS4226-24GT-230

AC: DH-EAC64

AP: DH-EAP6218-O

三. Network Topology

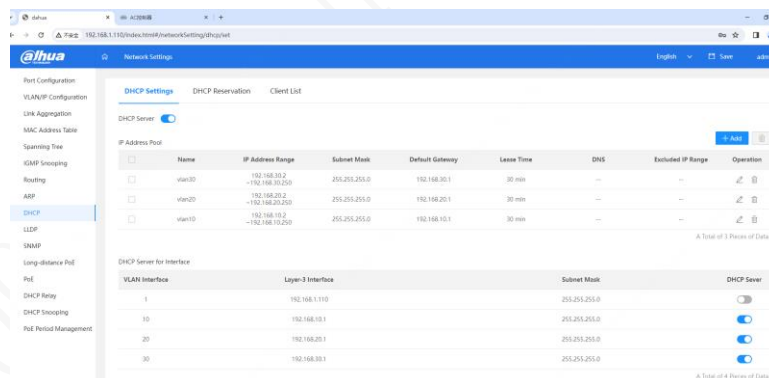


四. Configuration Guidelines

Since the EAC10-256 itself does not support multiple VLANs, but all E-series APs support the multi-SSID binding vlan function, so if you use the SSID-based VLAN binding function, the AC must be in local forwarding mode, that is, bypass mode;

Taking this topology as an example, the wireless device needs to release 3 SSIDs, and different SSIDs need to belong to different VLANs. The specific configuration is as follows:

(1) Configure VLAN 10/20/30 on the switch and enable DHCP, The interconnection port between the switch and AC **must be set to ACCESS mode**. **VLAN does not need to be specified**. Set the interconnection port between the AP and the switch to TRUNK mode, tag vlan10/20/30, and set the PVID to the same PVID as the interconnection port between the switch and AC.



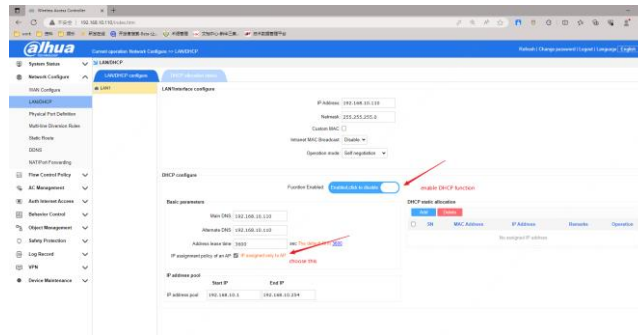
Turn on DHCP on the switch

Port	Link Type	PVID	Tagged	Untagged	Operation
1	Access	1	--	1	
23	Trunk	1	10,20,30	1	
24	Trunk	1	10,20,30	1	

Interconnection port configuration

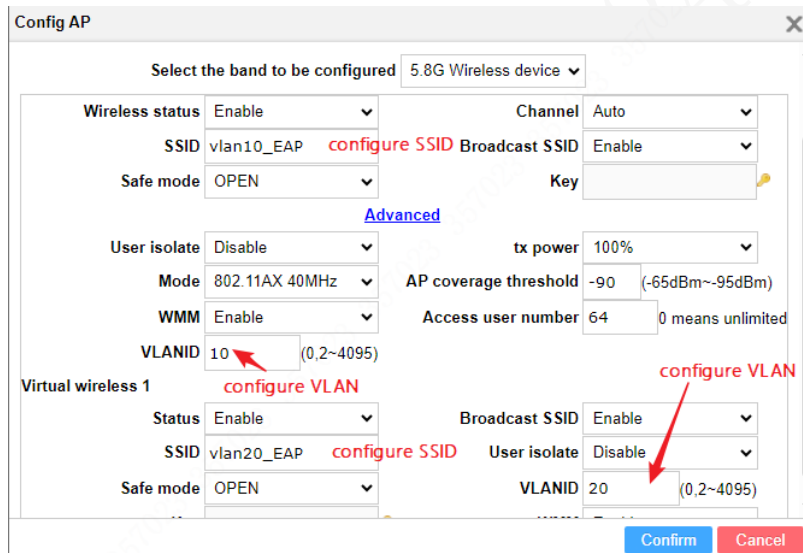
(2) The AC is configured in bypass mode, which is only used to manage APs,

and DHCP is enabled for APs to obtain addresses and go online;

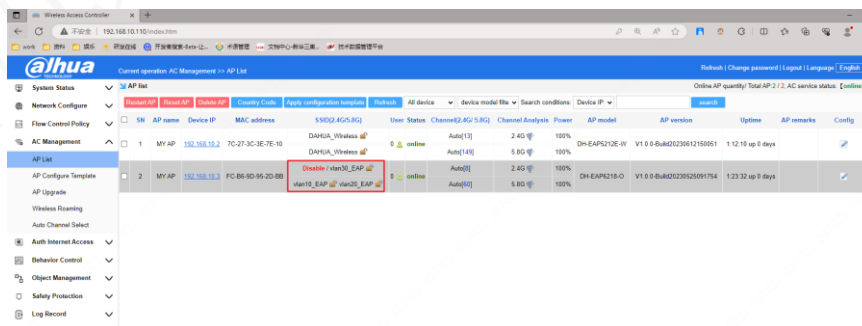


Enable DHCP & set bypass mode

(3) The AP enables the radio frequency function as needed, sets the SSID, and configures the corresponding VLANID.



AP configuration



AP lists

五. Result Test

Use mobile phone to connect to the three SSIDs released in the AP list. The correct addresses obtained correspond to the following:

SSID: vlan10_EAP -> Address segment: 192.168.10.X

SSID: vlan20_EAP -> Address segment: 192.168.20.X

SSID: vlan30_EAP -> Address segment: 192.168.30.X

The test results are as follows:

< WLAN vlan10_EAP	< WLAN vlan20_EAP	< WLAN vlan30_EAP
Private WLAN Address <input checked="" type="checkbox"/>	Private WLAN Address <input checked="" type="checkbox"/>	Private WLAN Address <input checked="" type="checkbox"/>
WLAN Address 12:91:64:8F:14:50	WLAN Address 2E:19:80:B5:61:83	WLAN Address 8E:C5:DF:07:7D:CA
Using a private address helps reduce tracking of your iPhone across different WLAN networks.	Using a private address helps reduce tracking of your iPhone across different WLAN networks.	Using a private address helps reduce tracking of your iPhone across different WLAN networks.
Limit IP Address Tracking <input checked="" type="checkbox"/>	Limit IP Address Tracking <input checked="" type="checkbox"/>	Limit IP Address Tracking <input checked="" type="checkbox"/>
Limit IP address tracking by hiding your IP address from known trackers in Mail and Safari.	Limit IP address tracking by hiding your IP address from known trackers in Mail and Safari.	Limit IP address tracking by hiding your IP address from known trackers in Mail and Safari.
IPV4 ADDRESS	IPV4 ADDRESS	IPV4 ADDRESS
Configure IP Automatic >	Configure IP Automatic >	Configure IP Automatic >
IP Address 192.168.10.209	IP Address 192.168.20.47	IP Address 192.168.30.29
Subnet Mask 255.255.255.0	Subnet Mask 255.255.255.0	Subnet Mask 255.255.255.0
Router 192.168.10.1	Router 192.168.20.1	Router 192.168.30.1
DNS	DNS	DNS
Configure DNS Automatic >	Configure DNS Automatic >	Configure DNS Automatic >

Terminal test results