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How to configure VLANs in OpenBAT

- 2022-01-10 - BAT, WLC (HiLCOS)

This lesson describes step by step how to configure VLANs on OpenBAT.

We'll use for that a simple example.

A BAT configured as Access Client connected on a BAT configured as Access point. (To configure BATs as access client or access point, refer to the corresponding lessons).

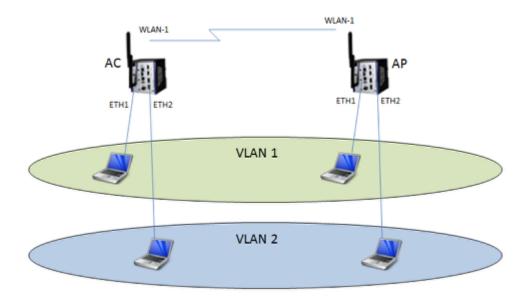
On each BAT we have end users on interface ETH-1 and ETH-2 The end devices connected on ETH-1 on both sides belong to VLAN 1 The end devices connected on ETH-2 on both sides belong to VLAN 2

The interface WLAN-1 is used to connect the AC to the AP On this interface of course both VLANs need to transit.

As the VLAN configuration is identical on both devices, no distinction between the devices is done in this lesson.

LANconfig is used as configuration tool.

Representation



Enable the VLAN module

 QuickFinder Configuration Management General Admin Authentication 	VLAN settings Please note! These settings are only useful in a VLAN network. You should only change them if you are aware of the consequences of these changes. It is easily possible to lock yourself out of this router here. As a result, the device may only be accessible after resetting.
💑 Costs	VLAN module enabled
Advanced	This table holds the definition of all VLANs used.
 Wireless LAN Interfaces LAN 	Network table
🔮 WAN 🍕 Modem	This table holds VLAN related configuration items for every port the device has. Port table
🗱 VLAN	VLAN tagging mode: 8100
♣ Snooping ∯ Spanning Tree ♥ Date & Time	

Configuration > Interfaces > VLAN

Configure the VLAN network table

work table				? ×
VLAN name	VLAN ID	Port list		ОК
Default_VLAN VLAN_2	1 2	LAN-1, WLAN-1 LAN-2, WLAN-1		Cancel
				1
Q QuickFinde	tr.		Add Edit Copy Remove	

Configuration > Interfaces > VLAN > Network table

Basically the table establish a correspondance between the VLANs and the ports where they are allowed

Configure the VLAN Port table

t table				har ann	8
VLAN port	Tagging mode	Allow all VLANs	Port ID	<u>^</u>	ОК
LAN-1: Local area network 1	Never	res	1		Cancel
LAN-2: Local area network 2	Never	(es	2		Cancel
WLAN-1: Wireless LAN 1 - Network 1	Always	res	1		
WLAN-2: Wireless LAN 2 - Network 1	Ingress mixed	Yes	1		
P2P-1-1: Point-to-Point 1 - 1	Ingress mixed	Yes	1		
P2P-1-2: Point-to-Point 1 - 2	Ingress mixed	Yes	1		

Configuration > Interfaces > VLAN > Port table

The Tagging mode specifies the tagging rules for incoming and outgoing packets.

In a ""simple"" VLAN configuration the most common modes are ""Never"" and ""Always"".

Basically ""Never"" must be configured on end user ports, ""Always"" must be configured on uplink (trunk) ports.

The Port ID specifies which VLAN ID will be applied to the incoming packets on a port (this doesn't apply if the tagging mode is ""always"")

Assign a VLAN to the INTRANET network

Network name	IP address	Netmask	Network type	VLAN ID	Interface	Address check	Tag	Comment	OK
DMZ INTRANET	0.0.0.0 192.168.1.130	255.255.255.0 255.255.255.0		ů	BRG-1 BRG-1	Loose Loose	0	demilitarized zone local intranet	Cancel
R QuickFinde				Add		dit	opy	Remove	

To make the BAT reachable from a VLAN assign the network INTRANET to a specific VLAN. Configuration > IPv4 > General > IP networks

Enable the Client Bridge Support

Logical WLAN settings - WLAN	interface 1 - Network 1	? ×					
Network Transmission Alarms							
Interface:	WLAN interface 1 - Network 1						
WLAN network enabled							
Network name (SSID):	RESEAU_TOTO						
Suppress SSID broadcast:	No 👻						
MAC filter enabled							
Maximum count of clients: 0							
Minimal client signal strength:	0	%					
Client Bridge Support: Yes -							
TX bandwidth limit:	0	kbit/s					
RX bandwidth limit:	0	kbit/s					
RADIUS accounting activated							
RADIUS accounting server:							
☑ Allow data traffic between stations of this SSID							
U-)APSD / WMM powersave activated							
Transmit only unicasts, suppress multicasts and broadcasts							
OK Cancel							

The Client Bridge Support must be enabled.

The configuration (of the VLANs) is now finished

Apply this VLAN configuration on the 2 OpenBAT.