

How to configure an Open BAT as Access Client

- 2018-02-21 - BAT, WLC (HiLCOS)

This lesson describes how to configure an Open BAT as Access Client and define basic radio settings and logical settings.

The lesson describes only the "basic" of such configuration. It doesn't details all the possible options.

LANconfig is used as configuration tool.

To follow this lesson you need this tool. You can find it either on the CD delivered with each product either on the Hirschmann Website.

We'll see in this lesson how to:

- Enable a radio module
- Select the indoor/outdoor mode
- Select the country
- Define the Radio settings
- Configure an SSID
- Configure the security settings to access this SSID

In this example we'll do the following configuration:

An Client in Germany outdoor.

2 Radio modules, the first one in the 2.4 Ghz band, the second one disabled

Limitations of channels in 2.4Ghz: 1,6 and 11

SSID : RESEAU_TOTO

Security: WPA-PSK

Preliminary steps

Give the BAT an IP address

You can refer to the lesson "How to give an Open BAT or a WLC an IP address"

Add the BAT in LANconfig

You can refer to the lesson "How to discover a BAT or a WLC in LANconfig"

Select the BAT and open a configuration dialog



You can open the configuration dialog selecting the device > right clic > configure

Select the country and the outdoor mode



Configuration > Wireless LAN > General >

Select the country Germany

Untick ""Indoor only modeactivated""

Enable WLAN-1 and configure it as Access Client



Configuration > Wireless LAN > General > Physical WLAN settings > WLAN interface 1 > tick ""WLAN interface enabled""

Select WLAN operation mode ""Station (Client mode)""

Disable WLAN-2

Configuration > Wireless LAN > General > Physical WLAN settings > WLAN interface 2 > Untick ""WLAN interface enabled""

Define the radio settings and limit the channel list (optional)



Configuration > Wireless LAN > General > Physical WLAN settings > WLAN interface 1 > Radio Tab

Select the frequency band 2.4 Ghz

Select the channel number ""Automatic selection""

Optionnally the channel list can be reduced (it reduces the background scanning of teh client)

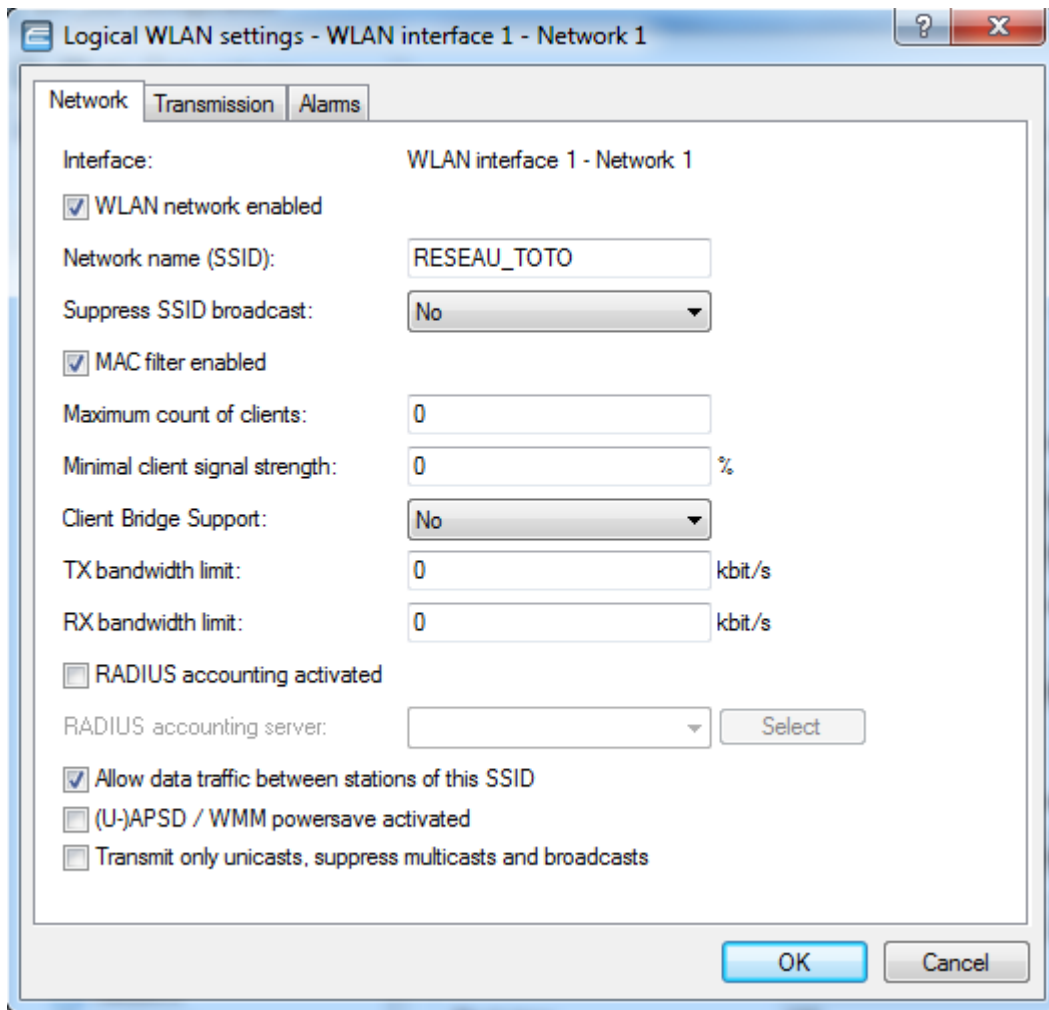
Configure the SSID (network) to connect (1)



Configuration > Wireless LAN > General > Logical WLAN settings >

Select WLAN interface 1 - Network 1

Configure the SSID (network) to connect (2)



Enable the WLAN network and enter the SSID. In our example: RESEAU_TOTO

Configure the security settings



Configuration > Wireless LAN > 802.11/WEP > WPA or Private WEP settings

In WPA or Private WEP settings WINDOW, open the security settings of Wireless LAN 1 - Network 1

Take care that the encryption is activated

Select as method: 802.11i (WPA)-PSK

Choose a passphrase

Select WPA2 as WPA version

Close all the windows by clicking OK.


Closing the main configuration dialog window, the configuration is applied on the BAT.

Check the discovered AP (with the relevant SSID) in the web interface

HiLCOS Menu Tree

 Logout

[HiLCOS Menu Tree](#)

 [Status](#)

 [WLAN](#)

Scan-Results

BSSID	Interface	Vendor	Network-Name	Operation-Mode	Encryption	Pre-Auth
ece555ffd1cf	WLAN-1	Hirschmann-Automation	RESEAU_TOTO	Infrastructure	AES	No
ece555ffd239	WLAN-1	Hirschmann-Automation	RESEAU_TOTO	Infrastructure	AES	No

You can see the available APs under:

HiLCOS Menu Tree > Status > WLAN > Scan-Results

Check the current channel

HiLCOS Menu Tree

 [Logout](#)

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 [Status](#)

 [WLAN](#)

Radios

lfc	Radio-Band	Radio-Channel	Channel-Bandwidth	Radio-Mod
WLAN-1	2.4GHz	6	20MHz	11bgn-mixed
WLAN-2	unknown	0	20MHz	none

You can see the current channel in use under:

HiLCOS Menu Tree > Status > WLAN > Radios

Identify on which AP is the client connected

HiLCOS Menu Tree

[Logout](#)

HiLCOS Menu Tree

- Status
- WLAN
 - Client

Interfaces

Ifc	State	Station-Mode	Connect-Time	AID	Phy-Signal	Link-Phy-Signal	Link-Signal-Level	Identification	Op
WLAN-1	Connected	Infrastructure	1655	1	85	86	-33	BAT-LEFT	11r
WLAN-2	None	none	0	0	0	0	0		nl

You can see the current AP in use under:

HiLCOS Menu Tree > Status > WLAN > Client > Interfaces