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# 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.

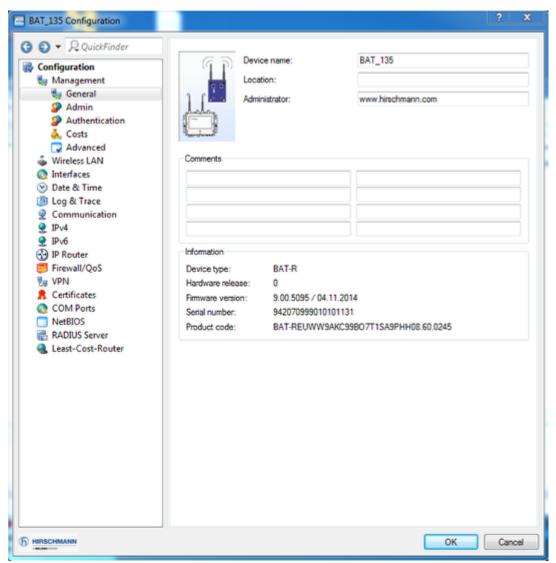
2 Radio modules, the first one in the 2.4 Ghz band, the second one disabled Limitations of channels in 2.4Ghz: 1,6 and 11 SSID : RESEAU\_TOTO Security: WPA-PSK

## **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""

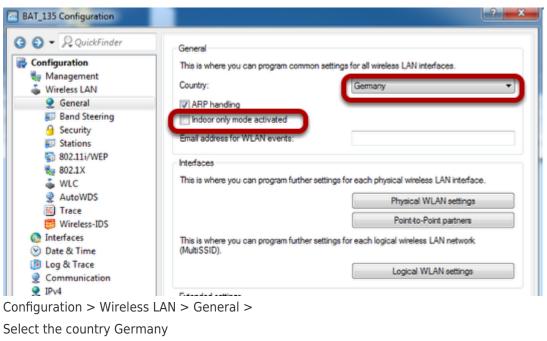
Add the BAT in LANconfig You can refer to the lesson ""How to discover a BAT or a WLC in LANconfig""

## 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



Untick ""Indoor only modeactivated""

### Enable WLAN-1 and configure it as Access Client

EAT_135 Configuration	- specific and second	
Art 115 Configuration A QuickFinder Configuration Management Wireless LAN General Stations Stations NO.111/WEP NO.1	General This is where you can program common settings for Country: Country: Country: ARP handing Indicor only mode activated Email address for WLAN events: Interfaces This is where you can program further settings for ex- (MLRSSID).	emany
	Estended settings The following physical wireless LAN settings gen Bit rate serial P2P auto-config. <u>9,600</u> Row simultaneous reaming for both WLAN inter Paulo taxe: viri	Physical WLAN settings - WLAN interface 1 Print 40 Performance Point 40-Point P2P Encryption Client mode WLAN interface enabled WLAN interface

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)

Physical WLAN settings - WLAN interface 1					
Operation Radio Performance	Point-to-Point P2P Encrypt	tion Client mode			
Frequency band:	2.4 GHz (802.11g/b/n)				
Sub-bands:	1	<b>*</b>			
Channel number:	Automatic selection	-			
2.4 GHz mode:	Auto	•			
5 GHz mode:	Auto	*			
Max. channel bandwidth:	Auto	•			
Antenna grouping:	Auto	•			
Antenna gain:	3	dBi			
TX power reduction:	0	dB			
Access point density:	Low	•			
Maximum distance:	0	km			
Channel list:	1,6,11	Select	]		
Background scan:	0				
Background scan unit:	seconds	•			
Time of DFS rescan:	2				
Number of channels to scan:	2				
Rescan free channels:	No	-			
Adaptive Noise Immunity:	On	•			
		ОК	Can	cel	

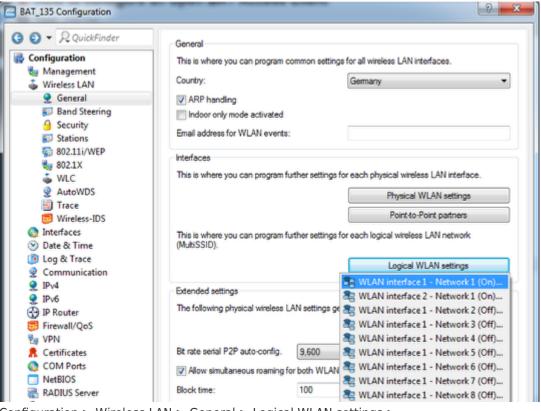
Configuration > Wireless LAN > General > Physical WLAN settings > WLAN interface 1 > Radio Tab

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 >

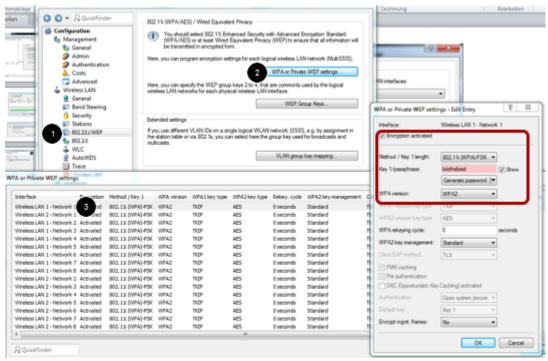
Select WLAN interface 1 - Network 1

Configure the SSID (network) to connect (2)

Cogical 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:	No	]				
TX bandwidth limit:	0	kbit/s				
RX bandwidth limit:	0	kbit/s				
RADIUS accounting activated						
RADIUS accounting server:		Select				
Allow data traffic between stations of this SSID						
U-)APSD / WMM powersave ad						
Transmit only unicasts, suppress	multicasts and broadcasts					
		OK Cancel				

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								
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 availabl	e APs under:							

HiLCOS Menu Tree > Status > WLAN > Scan-Results

## Check the current channel

HiLCOS Menu Tree							
Logout							
ති <sup>9</sup> <u>S</u>	HiLCOS Menu Tree Status WLAN Radios						
lfc	Radio-Band		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

HiLCO	S Menu T	ree							(
🕼 Logo	out								`
@ <u>S</u>	WLAN Client								
lfc	State	Station-Mode	Connect-Time	AID	Phy-Signal	Link-Phy- Signal	Link-Signal-Leve	Identification	þ
MILAN 4	Connected	Infrastructure	1655	1	85	86	-33	BAT-LEFT	1
VVLAN-1									

You can see the current AP in use under:

HiLCOS Menu Tree > Status > WLAN > Client > Interfaces