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How to migrate a configuration from a Bat-54 to an OpenBat - 2018-02-21 - BAT, WLC (HILCOS)

The goal of this document is to show how a configuration created for the Bat-54 Rail can be uploaded on an equivalent device belonging to OpenBat family with similar hardware characteristics.

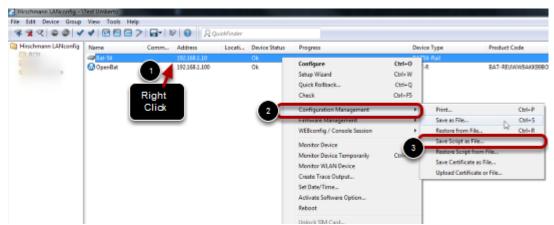
Warning:

- Be aware that some functions are not anymore available in the OpenBat and for such features the migration is not possible.
- Some default values are depending by the firmware version used. That means that the script is not an exact copy 1:1 (see last step of this document).

In this document, the following devices will be used:

- Bat-54 Rail with 2 Radio modules using firmware 8.52.0214RU1
- OpenBat: BAT-REUWW9AKK99BO7T1T99DHH (2 Radio Modules, 1Combo port, 1 Copper Port) using firmware 8.90.0210Rel

Create and store a configuration file from the Bat-54



As example, the following configuration for the Bat-54 has been created:

- Country: Italy
- Radio 1: AP@ 2.4GHz automatic channel selection
- SSID: SSID_1
- 802.11i encryption: ssid1
- Radio 2: AP@ 5 GHZ sub-bands 1+2+3
- SSID: SSID_2
- 802.11i encryption: ssid2

The Configuration is stored on the pc used for configuration (see screenshot) with extension .lcs (readable script file)

Add the OpenBat to the list of devices

🚰 Hirschmann LANconfig - \	Test Umberto						
File Edit Der roup	View Tools Help						
	< 8 8 9 >	🕞 🕈 😵 😧 🙎 🖓 Qui	ckFinder				
thmann LANconfig	Name	Comm Address	Locati	Device Status	Progress		Device
	@Bat-54	192.168.1.10		Ok			BAT54
		New Device					8 ×
		General					
		Backup	Interface				
			13	Network conner	ction (TCP/IP)		
				Serial port			
				Dial-Up connect	tion		
			2	IP/Name:	192,168,1,10		
				Timeout:	10 0 se	conds	
				Communication pro			
				V HTTPS	SSH	ITTP	TETP
				Prefer 'check' v			
				Check the statu			
				Check automati	cally for possible	innware updates	
			General				
			P.	Administrator:			
			40	Password:			
				Description:			
				Constraints.			
					-		
						ок	Cancel
		0					

Make sure you have access to the OpenBat.

If the OpenBat is not listed in Lanconfig, add it typing the address of the OpenBat (steps 1 to 3).

If the OpenBat is in default configuration, you can discover it through the Discover Button (step 4).

Select the file to be loaded on the OpenBat

Hirschmann LANconfig - \						
ille Edit Device Group 🗣 🗣 🔍 🕮 🥥 🗸		🖬 🕶 😵 😧 🛛 🔍 Quri	ckFinder			
Hirschmann LANconfig	Name	Comm Address	Locati	Device Status	Progress	
	@Bat-54	192.168.1.10		Ok		
	Dent 1	Configure		Ctrl+O		
Right click		Setup Wizard		Ctrl+W		
		Quick Rollback		Ctrl+Q		
		Check		Ctrl+F5		
	2	Configuration Manage	ment		Print	Ctrl+P
		Firmware Managemen	t.		Save as File	Ctrl+S
		WEBconfig / Console S	Session	•	Restore from File	Ctrl+R
		Monitor Device			Save Script as File	
		Monitor Device Tempo	starily	3	Restore Script from File	
		Monitor WLAN Device			Save Certificate as File Upload Certificate or File	
		Create Trace Output			Upload Certificate or File	

Select the file previously store with extension .lcs to be loaded on the OpenBat

Load the configuration on the OpenBat

Hirschmann LANconfig - VTest Umberto										
File Edit Device Group View Tools Help										
😤 🛠 🔍 😂 💜 🔮 🖾 🗁 > 🖬 = № 🥹 🛛 📿 QuickFinder										
Hirschmann LANconfig	Name	Comm	Address	Locati	Device Status	Progress				
	@Bat-54 192.168.1.10			Ok						
@8at-54			192.168.1.254		No response	Configuration reading failed				

The configuration will be loaded into the OpenBat and so the ip address on the stored configuration will be used. For this reason, if you try to access the OpenBat using the address stored in Lanconfig, you'll get an error.

In this screenshot, the new OpenBat has now ip 192.168.1.10 (the same used by the original Bat54). For this reason it must be re-discovered by Lanconfig and 192.168.1.254 is not anymore valid.

Re-discover the OpenBat using the right address

🚰 Hirschmann LANconfig - \		
File Edit Device Group		
<u> </u>		R QuickFinder
chmann LANconfig	Name	Comm Address Locati Device Status
	Sat-54	192.168.1.10 Ok
-	New Device	8 ×
	General	riteface
	Backup	 Network connection (TCP/IP)
		Serial port
		Dial-Up connection
		2 IP/Name: 192168.1.10
		Timeout: 10 🚔 seconds
		Communication protocols and ports:
		VHTTPS SSH VHTTP VTFTP
		✓ Prefer 'check' via TFTP (faster)
		Check the status of this device at startup
		Check automatically for possible firmware updates
		General
		Administrator:
		Password:
		Description:
		3 OK Cancel

Given that the OpenBat will now have the same ip of the Bat54, we need to add a new device using such ip: 192.168.1.10

Compare the configuration from the Bat54 and OpenBat

Oper	nBatScr	tet lo	. 🖾				60.	-54Script.lcs	: E3			
1	<u>@</u> *	Sco	ript (0.90.0210	/ 19.05.2014) (0x0000c010,IDs:4	.e,f,2b;0x0 +	1	<u></u> #_Sc	cript (0.52.0214	/ 15.12.2011)	(0x00004010, II	ls:4,e,2b;Ox
2							2					
а.	11	ng	English				1 3	lang	g English			
4	11	last	h No				1	£14:	sh No			
5						12	5					
6	20	tt /	/Setup/Name "Ba	t-54*			6	set	/Setup/Name "Bat	-54*		
7	99	1 /3	Secup/TCP-IP/Net	twork-list			7	od /	/Setup/TCP-IP/Net	twork-list		
8	de	:1					8	del				
9	<u>A</u> .		Network-name	IP-Address	IP-Netmask	VLAN-	9	<u>A</u> .	Network-name	IP-Address	IP-Netas	isk VI
10	8 🖬						10					
11							11	8 4				
12	🔔 ac	bb.	"INTRANET"	(IP-Address)	192.160.1.10	{IP-Netmas	12	A add	"INTRAMIT"	{IP-Address}	192.160.1.10) (IP-Net
13	<u>A a</u>	55	"DHZ"	(IP-Address)	0.0.0.0	(IP-Netmas	13	A,edd	"DHZ "	(IF-Address)	0.0.0.0	(IP-Net
14							14	Ocd /	/			
15							15		/Setup/IP-Router/	/IP-Routing-Tabl	Le	
16							16		•			
17							17	0+	IP-Address	IP-Netmask	Rtg-tag	Feer-or-IP
18							18	01				
19							19	Qadd		255.255.0.0		Peer-or-IP
20							20	Qadd	172.16.0.0	255.240.0.0	0	Peer-or-IP
21							21	Qadd	10.0.0.0	255.0.0.0	0	Peer-or-IP
22							22	Oedd	224.0.0.0	224.0.0.0	0	[Peer-or-IP]

If we want to check that the configuration is stored correctly inside the OpenBat, we can dowload its configuration as script and make a comparison among the two.

Given that the OpenBat is a newer device with a slightly different behaviour, you will find some differences in configuration file coming from the OpenBat with respect to the Bat-54

Please notice that the script coming from the OpenBat provides much less information with respect to the Bat-54. For example the table Setup/IP-Router/IP-Routing-Table is not listed in the script from OpenBat. However if you need to check it, you can access it through the command line. In this example it has not been modified so we'll find the same table inside the Open Bat.

(Notepad++ with the Compare plugin (both downloadable freely) can be used to make the comparison).