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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						
	< C 6 6 >	🕞 🛛 🖉 😵 🖓 Qui	ckFinder				
thmann LANconfig	Name	Comm Address	Locati	Device Status	Progress		Device
	@Bat-54	192.168.1.10		Ok			BAT54
		New Device					8 ×
		General	Interdence				
		Backup	interiace.	Network come	tion (TCP/IP)		
			4	Setal port			
				Dial-Up connection			
			2	10 Alama	192 159 1 10		
				P/Name;	192.190.1.10		
				Timeout:	10 💽 si	econds	
				Communication protocols and ports:			
				V HTTPS	SSH	IN HTTP	TFTP
				Prefer 'check' v	ia TFTP (faster)		
				Check the statu	firmwara undatas		
				Crick daterial	odiy to possible	minimale apadres	
			General				
			2	Administrator:			
			~	Paseword:			
				Description:			
	New Device         General         Backup         Network connection (TCP/IP)         Serial port         Obal-Up connection         2         P/Name:         Backup         Prime:         Backup         Prefer 'check' via TFTP faster)         Prime:         Prefer 'check' via TFTP faster)         Prime:         Prime:         Prefer 'check' via TFTP faster)         Prime:         Basword:         Description:         3						
						3 ок	Cancel

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 - \	Test Umberto						
File Edit Device Group	View Tools He	lp					
4 A C @ @ V	🖌 🖻 🖬 🚍	🎾 👦 🕺 📀 🔍 QuickFinde	r				
Hirschmann LANconfig	Name	Comm Address Locati	Device Status	Device Status Progress			
CO DOLL	@Bat-54	192.168.1.10	Ok	Ok			
	Openi 1	102 169 1 100	01				
		Configure	Ctrl+0				
		Setup Wizard	Ctrl+W				
D' LI		Quick Rollback	Ctrl+Q				
Right		Check	Ctrl+F5				
CIICK		2 Configuration Management	• • • •	Print	Ctrl+P		
		Firmware Management		Save as File	Ctrl+S		
		WEBconfig / Console Session	•	Restore from File	Ctrl+R		
		Maritas Davias		Save Script as File			
		Monitor Device	3	Restore Script from File			
		Monitor Device Temporarily		Save Certificate as 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 - 🕅	Test Umberto					
File Edit Device Group	View Tools Help					
333 00 V	< C C >	<b>-</b>	20 20	)vickFinder		
Hirschmann LANconfig	Name	Comm	Address	Locati	Device Status	Progress
	@Bxt-54		192.168.1.10		Ok	
	@Bat-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 - \`	Test Umberto	
File Edit Device Group	View Tools Help	
<u> </u>		Ter V 2
chmann LANconfig	Name	Comm Address Locati Device Status
	Sat-54	192.168.1.10 Ok
-	New Device	8 ×
Hirschmann LANconfig View Tools Help File Edit Device Group View Tools Help Comm Address Locati Device Status Bat-54 192.168.1.10 Ok New Device Sensal pot Dai-Up connection Obi-Up connection 2 P/Name: 192.168.1.10 The seconds Communication protocols and pots: WHTTPS SSH WHTP Check the status of this device at statup Check automatically for possible fimmare updates General Check the status of this device at statup Check the status of this device at s	Interface	
	Backup	Network connection (TCP/IP)     Serial port     Dial-Up connection
		2         IP/Name:         192.168.1.10           Timeout:         10         ⇒
		Communication protocols and posts:
		Check the status of this device at startup
		Check automatically for possible firmware updates
		General Administration
		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

Ope	n Bat Script	los 🖾				- E- 8a	-54Script.lcs	<b>3</b>			
1	At 5	cript (0.90.0210	/ 19.05.2014) (	0x0000c010, IDs: 4	.e.f.2b:0xC +	1	At 50	ript (0.52.0214	/ 15.12.2011)	(0x00004010, I	Ds:4,e,2b;0
2						- 2					
ą.	lan	g English				- ņ	lang	English			
4	fla	sh No				- 1	£143	th No			
2		(A			-	1					
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	4.	Network-name	IP-Address	IP-Netmask	VLAN-	9	4.	Network-name	IP-Address	IP-Neta	aak V
10	8					10	-				
11						11	8 -				
12	🔔 add	"INTRANET"	(IP-Address)	192.160.1.10	(IP-Netmas	12	/i),add	"INTRANET"	{IP-Address}	192.160.1.1	0 (IP-Net
13	à add	"DM2"	(IP-Address)	0.0.0.0	(IP-Netmas	13	Aladd.	"DHZ"	(IF-Address)	0.0.0.0	(IP-Net
14						14	Qod /				
15						15	Ocd /	Setup/IP-Router/	/IP-Routing-Tabl	le	
16						16	Odel		The second second		
10						10	X:	IP-Address	11-Hetmask	Nog-cag	Feer-or-iF
10						19	Out:	192.165.0.0	255,255,0.0	0	(Peer-or-IP)
20						20	Q add	172.16.0.0	255.240.0.0	0	(Peer-or-IP
21						21	Ondd	10.0.0.0	255.0.0.0	0	(Peer-or-IP
22						22	Oadd	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).