

To use the MTCAP devices in AS923 with LBT, you will need to upgrade the FPGA from v.31

Upgrade the FPGA for MTCAP, you will need to SSH to the devices.

Change the Access configuration in the Conduit AP unit.

	mPower™ Edge Intelligence Conduit AP - Application Enablement Platform MTCAP-LAP3-915-041A Firmware 5.2.1				
Home Save and Apply	ACCESS CONFIGURATION (	3			
LoRaWAN ®	Web Server				
Setup	HTTP Redirect to HTTPS	HTTPS	Authorization		
Cellular	✓ Enabled	✓ Via WAN	Session Timeout (minutes) 5	]	
Firewall	Via WAN	443			
SMS	Port				
Tunnels	80				
Administration	HTTPS Security				Show 1
User Accounts	SSH Settings				
Self-Diagnostics (beta)	✓ Enabled	Port	🗸 Via LAN	✓ Via WAN	
Access Configuration		22			
RADIUS Configuration	SSH Security Reverse SSH Tunnel			-	Show 1

Then using putty or other terminal program to SSH to the device

- 1) log in with your unique username and password after created in the commission mode
- 2) issue command sudo -s to enable the super user to access the root
- Check the FPGA version by command mts-fpga-loader -c

Checking hardware compatibility Found Valid Hardware: MTCAP-LORA-1.5 Valid FPGA version: 31

4) Stop the Network server by command

/etc/init.d/lora-network-server stop

Stopping lora-network-server: OK



5) Install the v33 FPGA by using command

mts-fpga-loader -i /usr/lib/mts-flash-biries/mtcap-fpga-v33.hex

Checking hardware compatibility Found Valid Hardware: MTCAP-LORA-1.5 Checking file /usr/lib/mts-flash-binaries/mtcap-fpga-v33.hex File verified Erasing flash Programming flash Write Complete. Resetting FPGA Reading New FPGA configuration Checking hardware compatibility Found Valid Hardware: MTCAP-LORA-1.5 Valid FPGA version: 33 FPGA Upgrade Successful

6) Check again the FPGA version mts-fpga-loader -c

> Checking hardware compatibility Found Valid Hardware: MTCAP-LORA-1.5 Valid FPGA version: 33

7) Reboot the machine and login again, then you will see it upgraded to V33

MULTITECHO	mPower™ Edge Intelligence Conduit AP - Application Enablement Platform MTCAP-LAP3-915441A Firmware 52.1						
Home Save and Apply	LORAWAN NETWORKI	NG 🕐					
LoRaWAN ®	LoRa Mode						
Network Settings	Mode	Packet Forwarder	Network Server	Lens Ser			
Key Management	NETWORK SERVER	4.0.1+31.0	2.3.12	2.3.12			
		Status	Status	Status			
Gateways		RUNNING	RUNNING	DISABL			
Devices	LoRa Card Information						
Device Groups	Gateway EUI	00-80-00-00-01-A8-A9 915					
Profiles	Frequency Band						
Packets	FPGA Version	33					
Downlink Queue	LoRaWAN Network Server Configuration						
Operations	Channel Plan						



Putty 192.168.2.1 - Putty

Session Special Command Window Logging Files Transfer Hangup ? login as: elecomes mPower(TM) Edge Intelligence Conduit AP AEP # elecomes@192.168.2.1's password: Last login: Fri Aug 28 12:32:40 2020 elecomes@mtcap:~\$ mts-fpga-loader -c -bash: mts-fpga-loader: command not found elecomes@mtcap:~\$ sudo -s Password: root@mtcap:/var/config/home/elecomes# mts-fpga-loader -c Checking hardware compatibility Found Valid Hardware: MTCAP-LORA-1.5 Valid FPGA version: 31 root@mtcap:/var/config/home/elecomes# /etc/init.d/lora-network-server stop Stopping lora-network-server: OK root@mtcap:/var/config/home/elecomes# mts-fpga-loader -i /usr/lib/mts-flash-bi ries/mtcap-fpga-v33.hex Checking hardware compatibility Found Valid Hardware: MTCAP-LORA-1.5 Checking file /usr/lib/mts-flash-binaries/mtcap-fpga-v33.hex File verified Erasing flash Programming flash Write Complete. Resetting FPGA Reading New FPGA configuration Checking hardware compatibility Found Valid Hardware: MTCAP-LORA-1.5 Valid FPGA version: 33 FPGA Upgrade Successful root@mtcap:/var/config/home/elecomes# mts-fpga-loader -c Checking hardware compatibility Found Valid Hardware: MTCAP-LORA-1.5 Valid FPGA version: 33 root@mtcap:/var/config/home/elecomes# 00:10:50 Connected SSH/22

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