

Procédure de configuration d'une mBASE

Version	Modifications description	Author	Date
V1	Initial edition	Thomas CASTELAIN	05/10/2023

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	Purpose of the document Users Prerequisites Connection of the mBASE mBASE configuration using ezManager application mBASE equipment creation/setup in Lokeos Configuration reload in Lokeos Check mBASE communication with Lokeos FCC notice



1. Purpose of the document

This document describes all the steps involved in configuring/creating an mBASE, from connecting the mBASE to putting it into operation.

2. Users

Us	ers
•	Editag Installer: Person who manages the installation of Lokeos and Lokeos-related tools. Customer solution manager: person responsible for supervising the system on the customer's premises.

3. Prerequisites

Prerequisites

Plug in the mBASE (mains+power) and check that the LED lights up (steady green).

Connect a machine to the same network used for Lokeos and the mBASE

Download EzManager on this PC



4. Connection of the mBASE

An mBASE can be connected in two ways:

- 1. Connected to the industrial network (on which Lokeos is hosted) via an Ethernet connection (RJ45) and powered via an external 12V mains supply.
- 2. Connected to the industrial network (on which Lokeos is hosted) and powered by the same Ethernet POE cable (RJ45).

5. mBASE configuration using ezManager application

This application installed on a local PC allows to check and update the configuration of mBASE's plugged on the network.

This step needs to be performed only once during initial installation or in case of a network change.

NĨ	ezTCP Manager v3.3C (2016/03/31) – 🗆 🗙
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View Comment	Write Simple Test

Click on « Search All » to launch mBASE equipment search.

Click on « Accept » to grant access to the application.

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All mBASE equipement found appears in the list.

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You may then select one mBASE of the list, adjust parameters and record the new configuration clicking on « write ».

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For a fix IP Adress mBASE configuration :

In « Network » tab:

EDITAG INDUSTRIES

- Select « Use static IP address »
- Enter network parameters
- Add « hostname » (only alphanumeric caracters accepted, minimum 1 letter)
- Click on « Write »

For a DHCP mBASE configuration :

In « Network » tab:

• Select « obtain an IP automatically (DHCP) »

In « Option » tab:

- Select « UDP » under « Protocol » combolist
- Set « interval » field to 0
- Set « port » field to 67
- Click on « Write »

Scorch czTOP MAC pp Senal MAC Address 00 30 f9 12 30 fc Rcod Search Results (1) CSEE/M53N - 192 368.0.150 Comment CSE/M53N - 192 368.0.150 Comment CSE/M53N - 192 368.0.150 Not Address Debugging Message SPH Power Management Comment CSE/M53N - 192 368.0.150 Not MAC Address Debugging Message IPV6 Address IPV6 IPV4 Change Protocol Interval IPV6 IPV4 Change Protocol IPV6 IPV4 Change Protocol IPV6 IPV4 Change IPV6 IPV4 Change IPV6 IPV4 Change </th <th>NAC IP NAC Address 00 30 Search Results (1) OSE:M53N - 192.168.0.190 CSE:M53N - 192.168.0.190 Network Serial Port Option Image: Search Control Search Results (1) SSL Image: Search Control Image: Search Control</th> <th>arch c2TCP MAC prise MAC Address 00 30 fg 12 3a fc Read Seard Results (1) Comment Comment</th> <th>MAC IP Serial MAC Address Option Option IPv4 Address Search Search Results (1) SSL CSE-MISIN - 192.168.0.190 ISSH Power Management Comment CSE-MISIN - 192.168.0.190 Image: Comment CSE-MISIN - 192.168.0.190 Image: Comment Search Results (1) Image: Comment CSE-MISIN - 192.168.0.190 Image: Comment VI Address Image: Comment Image: Comment Image: Comment Image: Comment</th>	NAC IP NAC Address 00 30 Search Results (1) OSE:M53N - 192.168.0.190 CSE:M53N - 192.168.0.190 Network Serial Port Option Image: Search Control Search Results (1) SSL Image: Search Control	arch c2TCP MAC prise MAC Address 00 30 fg 12 3a fc Read Seard Results (1) Comment	MAC IP Serial MAC Address Option Option IPv4 Address Search Search Results (1) SSL CSE-MISIN - 192.168.0.190 ISSH Power Management Comment CSE-MISIN - 192.168.0.190 Image: Comment CSE-MISIN - 192.168.0.190 Image: Comment Search Results (1) Image: Comment CSE-MISIN - 192.168.0.190 Image: Comment VI Address Image: Comment Image: Comment
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mBASE needs to be reset (unplug and re-plug mBASE power) in order modifications to be applied.

Remark : click on « status » to get a detailed current mBASE config status



6. mBASE equipment creation/setup in Lokeos

In Lokeos Equipements module, create a new mBASE with following parameters :

- Select « EES INDUS mBASE (rfid receiver) » in « Type » combolist
- Entrer mBASE name (it is recommanded to include mBASE 5 digits decimal ID)
- Select appropriate zone in « location » combolist (if mBASE to be created is a backup mBASE, location must be identical than the main master mBASE)
- Select :« is active »

EDITAG INDUSTRIES Lean. Connected.

- Set « element identifier » to the mBASE 5 digits decimal ID
- For a backup mBASE : select the master mBASE in the « backup of master» combolist.
- Set the LORA frequency zone in « Change LORA frequency area» field

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equipment					
be	EES INDUS MBase (rfid_receiver)	~			
tails					
lame	mBase 10223		Super equipment	EES Indus (ees-indus-xxxx)	~
ocation	Site indus>Zones	~	Is active		
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Equipment address on bus (max 255)	0		Reference to driver	com.editag.tbox.driver.reader.moontag_indus	
lement identifier	10223		En ligne		
CP port of serial bus	1470		IP address of serial bus	192.168.1.223	
Receiver alive monitoring timer mins)	5		Comments		
nfiguration					
Vip Function			Backup of master	10216	~
arent receiver	Select master receiver	~			
Ra configuration					
Change LORA frequency area			Change sending power		
Change equipment address on ous					

Note : when replacing a mBASE by another, only the following fields need to be modified :

• « Name »,

Lean, Connected,

- « Element Identifier »,
- re-select « Change LORA frequency area » (even if no change, this so that the new mBASE is configured correctly),
- « IP address of serial bus » (optional depending on network configuration on site)

Any change on mBASE must be followed by a configuration reload action (see below) and a restart of LOKEOS.

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7. Configuration reload in Lokeos

After setting or updating parameters, the configuration must be reload in Lokeos Equipements module by clicking on « reload » button and confirm by clicking on « Yes » :

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8. Check mBASE communication with Lokeos

In Lokeos Equipements module, edit the mBASE Click on « Synchro » button and « Check mBASE » button. A popup appears in the upper right corner.

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	Users	Details		The second second second				
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	System	Equipment type	EES INDUS MBase		Super equipment	EES Indus (ees-indus-xxxx)	~	0
	WIP Event	Location	Site indus>Zones	×	Public type	rfid_receiver		1.AM
	Counters	Status	ок		Is active			
	ALERT	Warning inhibited			Fréquence du signal de vie (min)	2		
	Supervision	Last contact date and time	5/22/23 9:28:16 AM		Equipment address on bus (max	0		
	OPERATION	Reference to driver	1		255) Element identifier			
	WIP dashboard	Enlime	com.editag.tbox.driver.reader.moontag_incus		En lima	10216		3.2.36.3_20230517_123950
	PICK TO LIGHT	TCP port of serial bus			IP address of serial bus			
	Configuration	Decement allow monitoring times	14/0		Communication device/device	192.168.1.216		
	Tests	(mins)	5		type:address/name:options#params	1		
	Dashboard	Comments			Coordinates			
	REFERENCE SYSTEM	Configuration					-	
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	mZONE	Parent receiver		~				
	mOOnTAG	LoRa configuration					-	
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	Resources	2.500 mequency area			change color nequency area			
	Locations	Change sending power			Change equipment address on bus			
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	mBASE synch with leader	Cancel						
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	System	Name			Identifier	ees-indus-xxxx indus mbase 1		at ≎
	WiP Event	F	10216					41 AM
	Lounters	Equipment type	EES INDUS MBase		super equipment	EES Indus (ees-indus-xxxx)	~	
	ALERT	Location	Site indus>Zones	Freedow Park	Public type	rfid_receiver		
	Supervision	Status	ОК	synchro Status	×			
	OPERATION	Warning inhibited			(2		
	WIP dashboard	Last contact date and time	5/22/23 9:28:16 AM	Main mDASE identifier	r 10216	0		S 3.2.36.3_20230517_123950
	PICK TO LIGHT	Reference to deiver		Name	10216			- Apparticipation of the second secon
	Configuration	contraction of different	com.editag.tbox.driver.reader.moontag_in	LORA frequency area	18	10216		
	Tests	En ligne		Last contact	5/22/23 9:31 AM	NO		
	Dashboard	II M DOTT OF LC	1470	mBASE synchronized	⊖ Yes	192.168.1.216		
	REFERENCE SYSTEM	ICP port of serial bus	5	COLOR DO BLOCK				
	Wip-IDs	Receiver alive monitoring timer (mins)				ams)		
	Rti-IDs	Receiver alive monitoring timer (mins) Comments		Check mBASE	Cancel	ams) -		
		Receiver alive monitoring timer (mins) Comments		Check mBASE	Cancel	ams)		
	SENSOR mZONE	Configuration		Check mBASE	Cancel	ams)	-	
	SENSOR mZONE mOOnTAG	ICP port of serial bus Receiver alive monitoring timer (mins) Comments Configuration Wip Function		Check mBASE	Cancel	ams)	- -	
	SENSOR mZONE mOOnTAG TOPOLOCY	ICP port of serial bus Receiver alive monitoring timer (minin) Comments Configuration Wip Function Parent receiver		Chock mBASE	Cancel Backup of master	ams) .	- -	
	SENSOR mZONE mOOnTAG TOPOLOGY Units of work	I C-point of seria tus Receiver allow monitoring timer (mins) Comments Configuration Wup Function Parent receiver		Check mBASE	Cancel Backup of master		~	
	SENSOR m2ONE m0OnTAG TOPOLOCY Units of work Resources	I C-point of seria trus Receiver alive monitoring timer (rrine) Comments Configuration Wip Function Parent receiver LoRa configuration		Check mtBASE	Cancel		- ~ -	
	SENSOR mZONE mOOnTAG TOPOLOCY Units of work Resources Locations	I C-port of seria trus Bescher albe monitoring timer finite Countents Configuration Wip Function Parent receiver LORA configuration LORA frequency area	18	Check mtDASE	Cancel Backup of master Change LORA frequency area			
	SENSOR mZONE mOOnTAG TOPOLOGY Units of work Resources Locations	I C-port of seria tus Receiver allow monitoring timer (rrins) Comments Configuration Wip Function Parent receiver LoRa configuration LDRA frequency area Change sending power	· · · · · · · · · · · · · · · · · · ·	0 Check mBASE	Backup of master Change LORA frequency area Change equipment address on h	nn) -	~ ~	
	SENSOR m2ONE m0OnT/AG TOPOLOGY Units of work Resources Locations	I C-point of seria tus Receiver allow monitoring timer (nrim) Comments Configuration Wip Function Parent receiver LORA configuration LORA frequency area Change sending power	· · · · · · · · · · · · · · · · · · ·	0 Gent mBAC	Cancel Backup of master Change LORA frequency area Change equipment address on b	ama) .	~] 	
	SENSOR mZONE mCOnTAG TOPOLOGY Units of work Resources Locations	I C-point of seria tous Receiver allow monitoring timer (mins) Comments Configuration Wap Function Parent receiver LoRa configuration LORA requercy area Change sending power Synchro	18	0 find mBAC	Cancel Backup of master Change LORA frequency area Change equipment address on b	ams) -	~ ~	



9. FCC notice

FCC Part 15 compliance statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Licence-Exempt Radio Apparatus (ISED)

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

Appareils radio exempts de licence (ISDE)

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 1. L'appareil ne doit pas produire de brouillage; 2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Changes or modifications not expressly approved by EDITAG could void the user's authority to operate the equipment.

Radio Frequency (RF) Exposure Compliance of Radiocommunication for mobile Apparatus

To satisfy FCC and ISED-Canada RF Exposure requirements for mobile devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Conformité à l'exposition aux champs RF des équipements radio mobiles

Pour satisfaire aux exigences FCC et ISDE-Canada concernant l'exposition aux champs RF pour les appareils mobile, une distance de séparation de 20 cm ou plus doit être maintenu entre l'antenne de ce dispositif et les personnes pendant le fonctionnement. Cet émetteur ne doit pas être co-situé ou fonctionner conjointement avec une autre antenne ou un autre émetteur.