



**EDITAG**  
INDUSTRIES

## Training for the logistics solution

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## Pick-to –Light / Put-to-Light mOOnTAG®

Ref.: E.04.TRA.737.EN.PTL\_User Training V4

# Summary

- **The solution**

- DPD mOOnTAG®
- Architecture
- Mission

- **Lokeos**

- Connection
- The different models
  - Users
  - Logs
  - Equipments
  - Locations
  - mOOnTAG
  - Monitor
  - Configuration
  - Supervision
  - Events
  - Tests

- **(Re)configuration**

- Initialization
  - Configure DPDs for an area
  - Check the configuration
- Installation
  - Install the DPDs on the supports in the area
- Use
  - How the DPDs work
  - Process a mission
  - Problem solving
- FCC notice





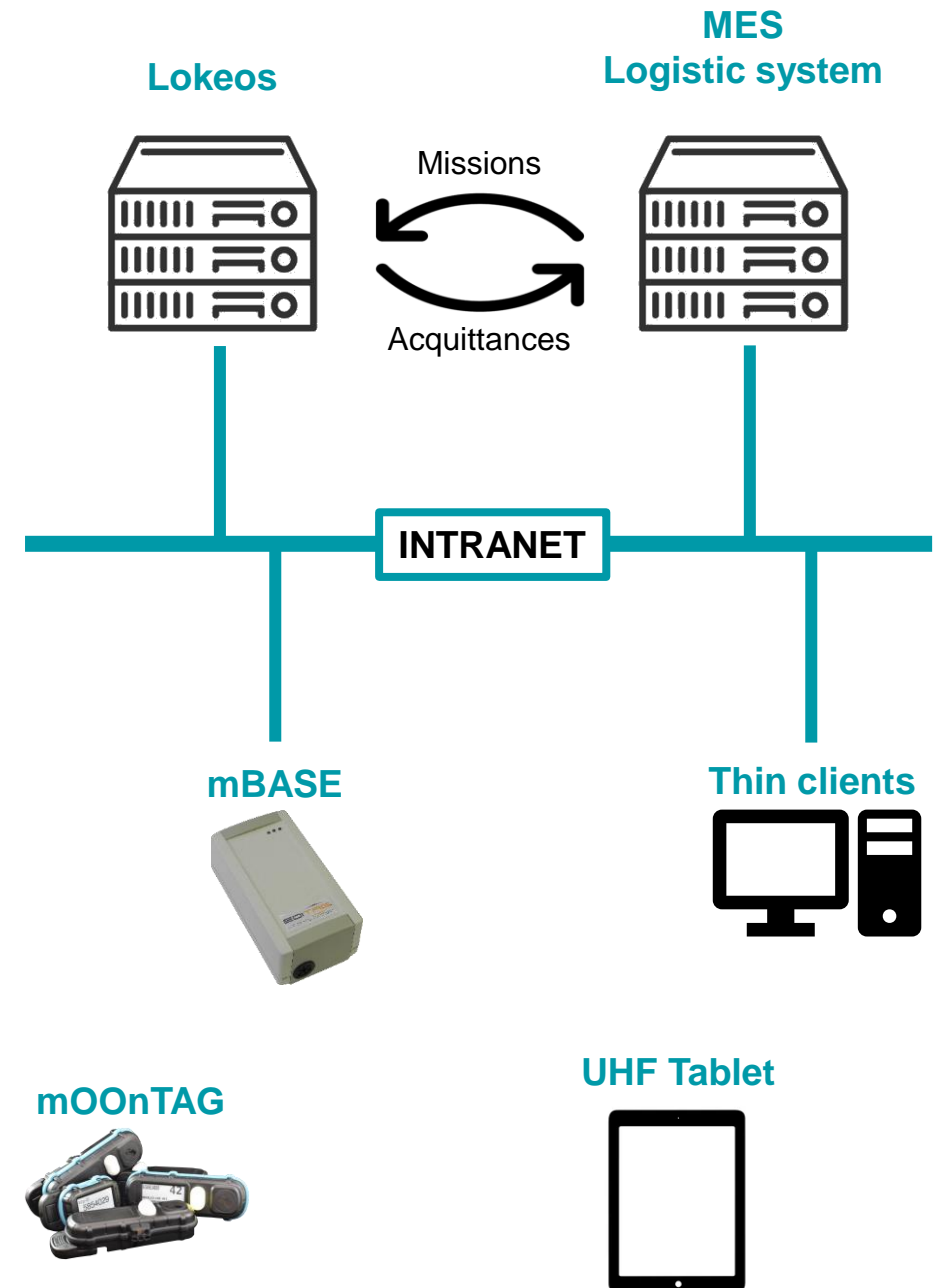
# The Solution

- **DPD mOOOnTAG®**
- **Architecture**
- **Mission**



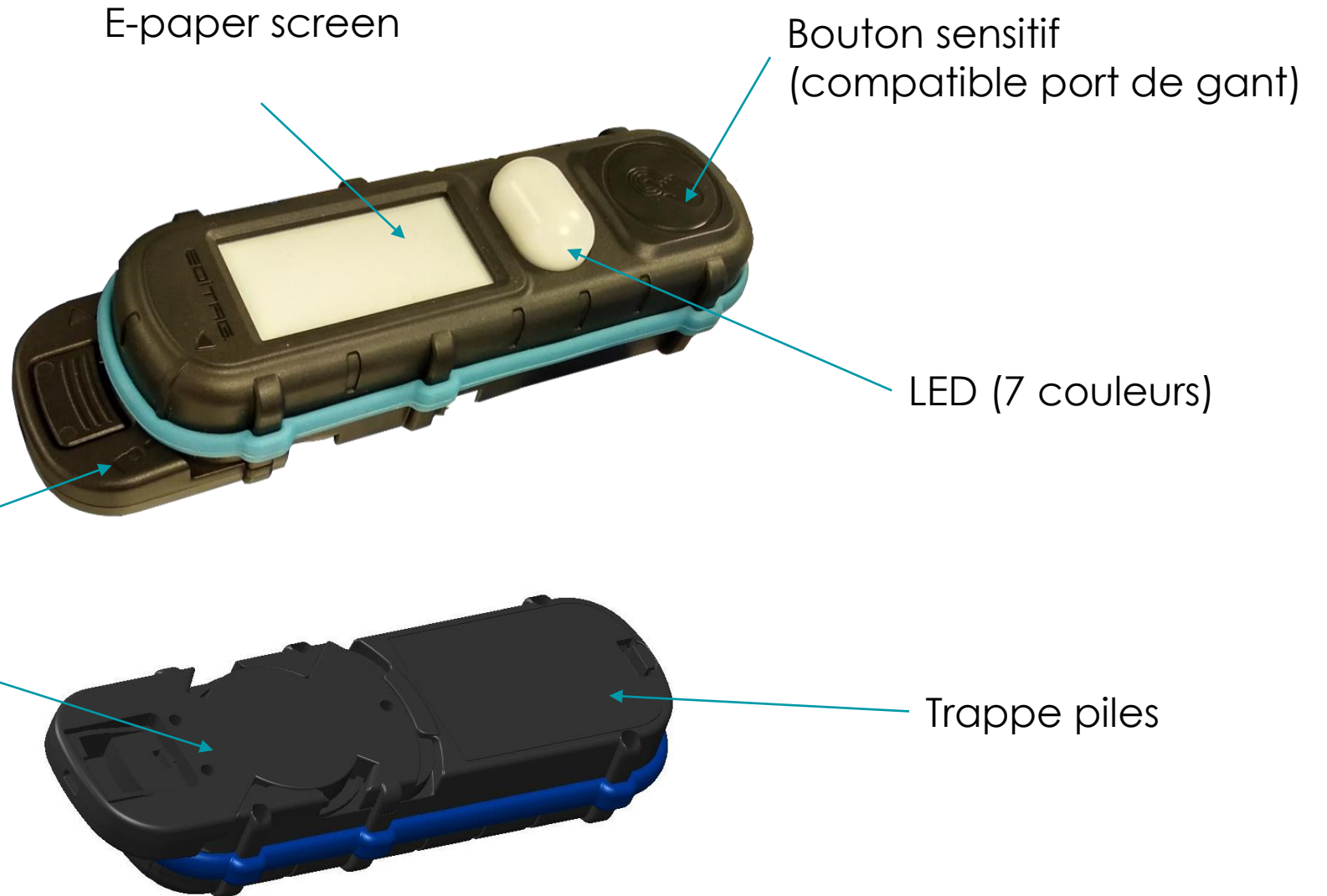
# 1.The solution - Architecture

- Physical equipments
  - mOOnTAG® SENSORS and IDs
  - mBASEs
  - IOBox
  - Thin clients
- Software :
  - Lokeos P2L + licence
  - UHF Tablet + DPD Encoder application (.apk)
- External systems
  - An MES PTL client for mission creation



# 1.The solution - DPD or mOOnTAG®

DPD or mOOnTAG®  
=  
mOOnTAG® SENSOR (active RFID)  
+  
mOOnTAG® ID (passive RFID)



+ support polyvalent





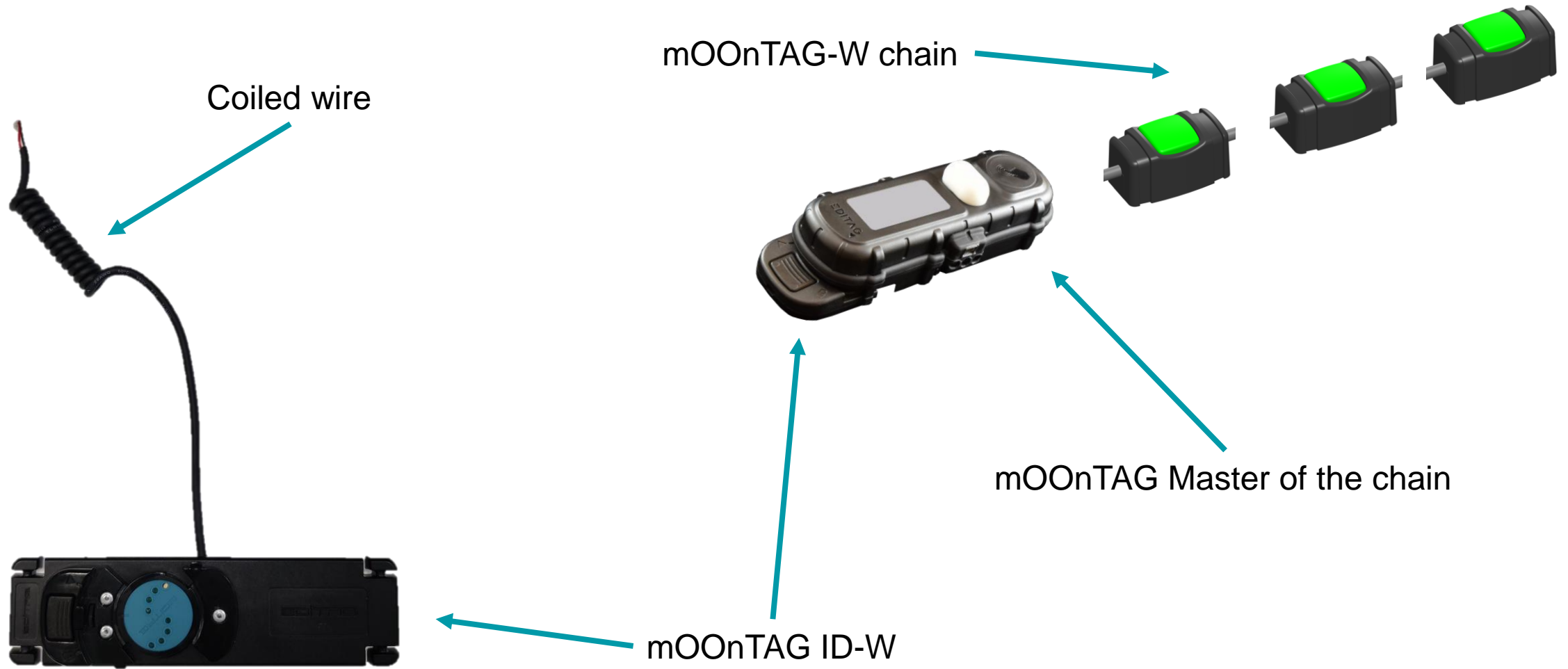
# 1.The solution - DPD or mOOOnTAG®



When changing batteries, remove the old ones and wait 20sec before inserting the new ones into the sensor.



# 1.The solution – mOOOnTAG W

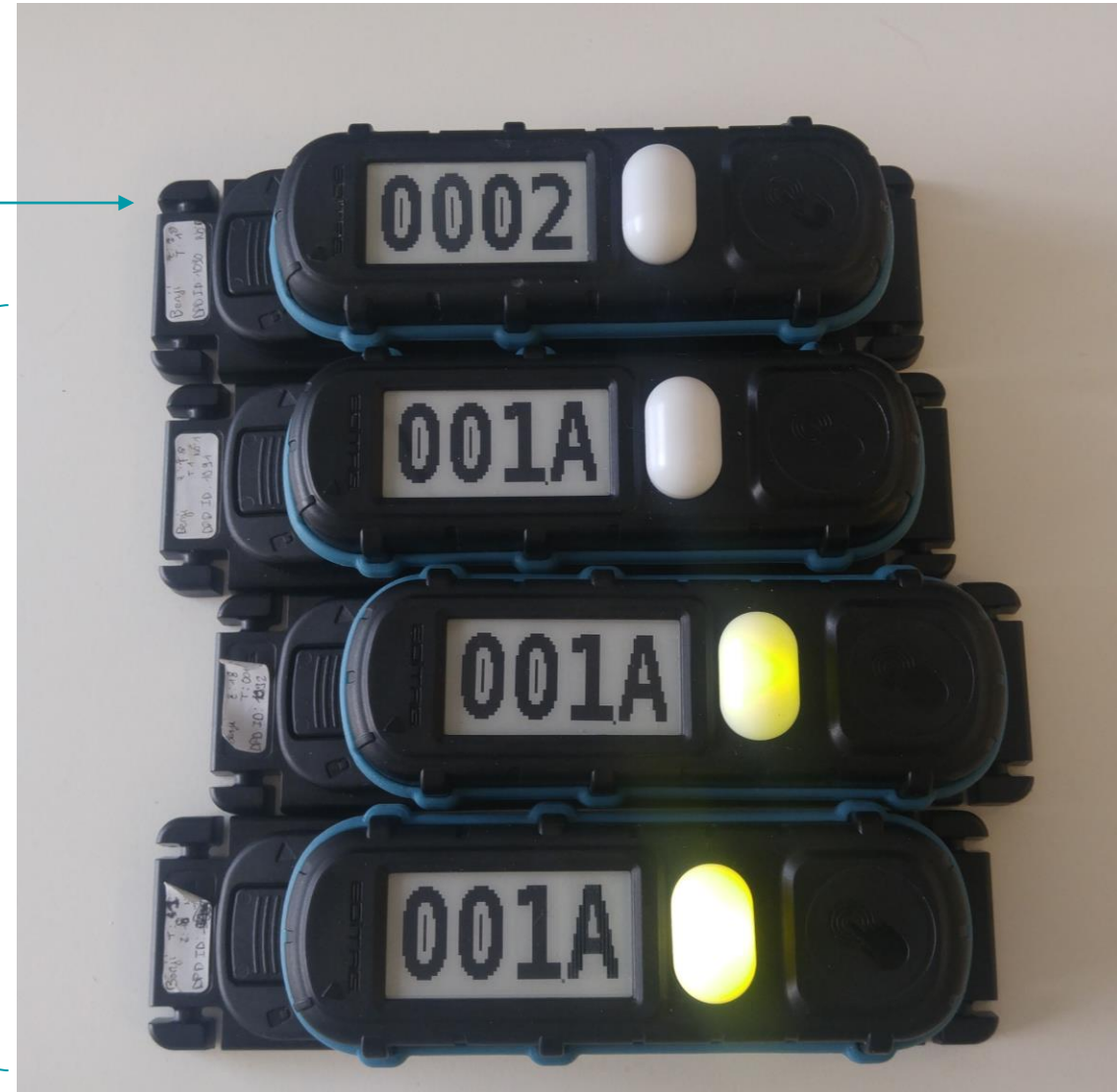


# 1.The solution - Mission



DPDT

DPDs







# Lokeos

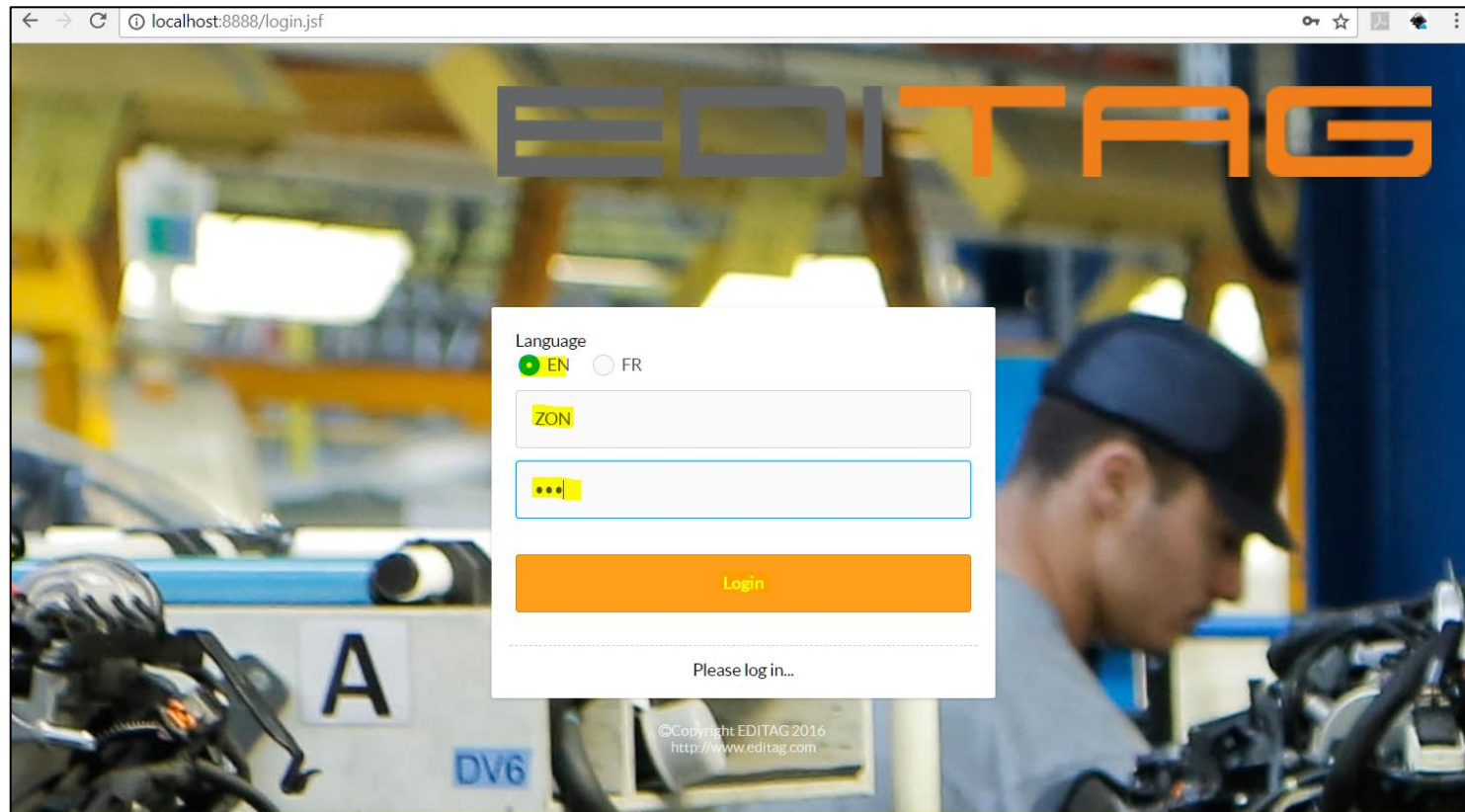
- **Connection**
- **The different models**
  - Users
  - Logs
  - Equipments
  - Locations
  - mOOnTAG
  - Monitor
  - Configuration
  - Supervision
  - Events
  - Tests



# 2.Lokeos

## Connection

- From a web browser (Chrome or Firefox), open the page Lokeos: `http[s]://<server address>`
- Select language
- Enter your user account and password :



## 2.Lokeos > modules

Delete an item



Edit an item



Add an item



# 2.Lokeos > modules

## « User » module

Depending on the user's rights, the pages have the following functions:

- Creation
- Modification
- Suppression
- Reset password

Rights are defined by the profile type

- SUPERVISOR
- ADMIN
- MONITOR
- WRITER
- READER

The screenshot displays the 'Users' management page in the EDITAG system. The page features a sidebar on the left with navigation options under 'ADMIN' (Users, Equipments, Logs, System, WiP Event, Counters), 'ALERT' (Events, Supervision), 'OPERATION' (WiP dashboard), and 'REFERENCE SYSTEM' (Wip-IDs). The main content area shows a table of users with the following data:

Login ^	First name ^	Last name ^	Profile ^
adminSite	Admin	Site	indus-ADMIN
demo	D�mo	mOOnTAG	indus-ROLE_WRITER

The interface also includes a top navigation bar with the EDITAG logo and 'My Account' link, and a footer with the EDITAG logo and contact information: © EDITAG EES 3.2.35.1\_20230202\_193800 support@editag.eu.



# 2.Lokeos > modules

## « User » module

The screenshot shows the 'Users' module interface. A 'Create user' modal is open, displaying the following fields:

- Login (text input)
- Last name (text input)
- E-mail (text input)
- Landline (text input)
- Time zone (dropdown menu, selected: Europe/Paris)
- Location (dropdown menu)
- First name (text input)
- Password must be changed (checkbox, unchecked)
- Address (text input)
- Mobile phone (text input)
- Notification mode (dropdown menu, selected: None)
- Default profile (dropdown menu, selected: Select a profile)

Buttons: Save, Cancel

- All fields are editable
- A user assigned to a zone must be located in the zone
- Assigning an IP address allows you to automate the connection





# 2.Lokeos > modules

## « Logs » module

- Allows you to view the activities of Lokeos.
- Options :
  - Number of lines displayed (100 by default)
  - Text filtering on 2 values
- Actions
  - Downloading the current log file
  - Downloading the complete log directory

The screenshot shows the EDITAG INDUSTRIES web interface. The top navigation bar includes the logo and a 'My Account' dropdown. The left sidebar lists various system components: ADMIN (Users, Equipments, Logs, System, WiP Event, Counters), ALERT (Events, Supervision), OPERATION (WIP dashboard), REFERENCE SYSTEM (Wip-IDs, Rti-IDs), SENSOR (mZONE, mOOnTAG), and TOPOLOGY (Locations, Units of work, Resources). The main content area is titled 'Logs' and features two text filter input fields, a line count of '100', and an 'Update' button. On the right side of the log viewer, there are 'Download' and 'Download all' buttons. The log entries themselves are structured as follows: `YYYY/MM/DD HH:MM:SS.CET [LEVEL] Message (optional: tag:tagID state=state) [INFO] 6 - TRACE ees-indus-xxxx.indus_mbase_1- ReadSource - mOOnRECV observed: 10099(2773) for source 10099`. The logs include several 'WARN' messages about denied switches, 'INFO' messages about source notifications and watchdogs, and 'ERROR' messages indicating 'getTick cannot execute readCounter function on receiver 10099' with specific bus and command details.

## 2. Lokeos > modules



### Example of logs

- Line 157756: 2020/07/17 06:46:24:470 CEST [INFO] SimpleLog - -5 - INFO com.editag.tbox.application.pick2light.web- **Received MQTT PAHO** message on topic MU/FABRICATION/PICKTOLIGHT/IOT: }10000 4948202007170646244610MSG \_\_SISI\_\_\_\_IOT\_\_HPO0101CHG\_ETATIOT\_\_HPO--NBTR0005--DPD\_27081---BFI--DPD\_2703-1--BFI--DPD\_2707--1-BFI--DPD\_2702---1BFI--DPD\_2700\*\*\*4\*\*\*--



### « Logs » module

- Usage
  - View the active log of Lokeos
  - Allows you to download all logs for transmission to the support team
  - Please note that the syntax and content of the log files are likely to change with the versions
- Important keywords in the filters
  - « opened » checks the opening of the link with the mBASEs
  - « DPD\_ » checks the sending/receiving of frames with the MES PickToLight
  - « backup » checks the synchronisation status with the backup mBASE
  - « ERROR » to see the errors
  - « simple|full command » trace les demandes l'allumage
  - « <zone>\_<n° DPD> » traces the actions on a given DPD



# 2.Lokeos > modules

## « Equipments » module



The screenshot displays the 'Equipments' module in the EDITAG Industries system. The interface includes a sidebar menu on the left, a top navigation bar with the EDITAG logo and 'My Account' dropdown, and a main content area with a table of equipment records. The table has columns for Name, Identifier, Equipment type, Location, and Last contact. The first record is selected, and the table shows 1-3 of 3 records.

<input type="checkbox"/>	Name ^	Identifier ↕	Equipment type ↕	Location ↕	Last contact ↕
<input checked="" type="checkbox"/>	10099	ees-indus-xxxx.indus_mbase_1	EES INDUS MBase	Site indus>Zone radio 3	4/14/23 4:15:04 PM
<input type="checkbox"/>	<i>AsciiTranslator</i>	<i>ees-indus-xxxx.AsciiTranslator</i>	<i>EES INDUS AsciiTranslator</i>		
<input type="checkbox"/>	EES Indus	ees-indus-xxxx	EES INDUS	Site indus	





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support@editag.eu



# 2.Lokeos > modules



## « Equipments » module

-  Leader/Backup link
-  mBASE/location link
-  Turn on/off mBASE
-  mBASE Configuration

Create equipment

Type: EES INDUSMBase (rfid\_receiver)

Details

Name		Super equipment	EES Indus (ees-indus-xxxx)
Location	Select location	Is active	<input checked="" type="checkbox"/>
Warning inhibited	<input type="checkbox"/>	Fréquence du signal de vie (min)	2
Equipment address on bus (max 255)	0	Reference to driver	com.editag.tbox.driver.reader.moontag_indus
Element identifier	000000	En ligne	<input type="checkbox"/>
TCP port of serial bus	1470	IP address of serial bus	192.168.1.0
Receiver alive monitoring timer (mins)	5	Comments	

Configuration

Wip Function	<input type="checkbox"/>	Backup of master	Select master receiver
Parent receiver	Select master receiver		

LoRa configuration

Change LORA frequency area		Change sending power	
Change equipment address on bus			

Save Cancel





## 2.Lokeos > modules



### « Equipments » module

Radio frequency area	Possible areas of supervision
0 (or 4)	4, 8, 12, 24, ..., 240, 252
1	1, 5, 9, 13, 25, ..., 241, 254
2	2, 6, 10, 14, 26, ..., 242, 254
3	3, 7, 11, 15, 27, ..., 243, 255
16	16, 28, ..., 244
17	17, 29, ..., 245
18	18, 30, ..., 246
19	19,31, ..., 247
20	20,32, ..., 248
21	21,33, ..., 249
22	22,34, ..., 250
23	23,35, ..., 251



# 2. Lokeos > modules

## « Locations » module

- SITE
    - Radio area
      - Picking area
        - Section
          - DPDs
- Static
- Dynamic

EDITAG INDUSTRIES

ADMIN

- Users
- Equipments
- Logs
- System
- WIP Event
- Counters

ALERT

- Events
- Supervision

OPERATION

- WIP dashboard

REFERENCE SYSTEM

- Wip-IDs
- Rti-IDs

SENSOR

- mZONE
- mOOnTAG

TOPOLOGY

- Locations
- Units of work
- Resources

Emplacements

Mots clés

Colonne

Mon compte

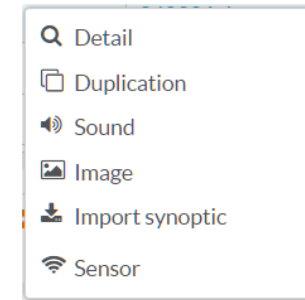
+ Déconnecter capteur

Nom	Identifiant unique	Type d'emplacement	Capteurs	Code pièce	Designation
Site	330105	Site			
Zone Radio 1	330105.100	Zone			
Zone Radio 16	330105.116	Zone			
HPO	330105.16	Zone			
Zone Radio 18	330105.118	Zone			
CSL	330105.30	Zone			
MVG	330105.18	Zone			
Section 1	18001	Tronçon			
MVG_0100	18001.100000	DPD	200500802		
Section 10	18010	Tronçon			
MVG_1000	18010.1000000	DPD	200501258		
MVG_1001	18010.1001001	DPD	200501149		
MVG_1002	18010.1002002	DPD	200501255		
MVG_1003	18010.1003003	DPD	200500041		
MVG_1004	18010.1004004	DPD	200500164		

# 2. Lokeos > modules

## « Locations » module

- Each element has a right-click parameter:



- Correct selection

Nom	Identifiant unique	Type d'emplacement	Capteurs	Code pièce	Designation
Site	330105	Site			
Zone Radio 1	330105.100	Zone			
MVD	330105.1	Zone			
Section 1	1001	Tronçon			
<input checked="" type="checkbox"/> MVD_0100	1001.100000	DPD	200501171		
<input type="checkbox"/> MVD_0101	1001.101001	DPD	200501192		
<input type="checkbox"/> MVD_0102	1001.102002	DPD	200501159		
<input type="checkbox"/> MVD_0103	1001.103003	DPD	200501173		
<input type="checkbox"/> MVD_0104	1001.104004	DPD	200501263		

- Displays the buttons created in the system according to their hierarchy (zone / section)
- An active button is associated with a mOOnTAG® sensor
- The pop-up menu allows you to configure the location and assign a plan for supervision

- Incorrect selection

Ability to delete important items

Nom	Identifiant unique	Type d'emplacement	Capteurs	Code pièce	Designation
Site	330105	Site			
<input checked="" type="checkbox"/> Zone Radio 1	330105.100	Zone			
<input checked="" type="checkbox"/> MVD	330105.1	Zone			
<input checked="" type="checkbox"/> Section 1	1001	Tronçon			
<input checked="" type="checkbox"/> MVD_0100	1001.100000	DPD	200501171		
<input type="checkbox"/> MVD_0101	1001.101001	DPD	200501192		
<input type="checkbox"/> MVD_0102	1001.102002	DPD	200501159		
<input type="checkbox"/> MVD_0103	1001.103003	DPD	200501173		



# 2.Lokeos > modules

## « Locations » module

The screenshot displays the 'Locations' module in the DITAG Industries software. The left sidebar contains a navigation menu with categories like ADMIN, ALERTE, OPERATION, PICK TO LIGHT, RÉFÉRENTIEL, CAPTEUR, TOPOLOGIE, and Emplacements. The main area shows a table of location data with the following columns: Nom, Identifiant unique, Capteurs, Code pièce, and Designation. The table is organized into a hierarchy: Site indus (330114) -> Groupe (330114.200) -> CDE (330114.18) -> Section 0 (18000) -> Section 1 (18001) -> CDE\_1000 to CDE\_1013. The row for 'CDE\_1013.02' is highlighted in blue, and a callout points to it with the text 'The mOOnTAG-W in sub location of the mOOnTAG Master of the chain'.

Nom	Identifiant unique	Capteurs	Code pièce	Designation
Site indus	330114			
Groupe	330114.200			
CDE	330114.18			
Section 0	18000			
Section 1	18001			
CDE_1000	18001.1000000		174000025	
CDE_1001	18001.1001001		174000006	
CDE_1002	18001.1002002		191501080	
CDE_1003	18001.1003003		174200178	
CDE_1004	18001.1004004		191500843	
CDE_1005	18001.1005005		191501767	
CDE_1006	18001.1006006		174000054	
CDE_1007	18001.1007007		191500302	
CDE_1009	18001.1009009		191500064	
CDE_1010	18001.1010010		191501035	
CDE_1011	18001.1011011		183901625	
CDE_1012	18001.1012012		183901608	
CDE_1013	18001.1013013		191501779	
CDE_1013.01	18001.1013013.01			
CDE_1013.02	18001.1013013.02			
CDE_1013.03	18001.1013013.03			
CDE_1013.04	18001.1013013.04			
CDE_1013.05	18001.1013013.05			

The mOOnTAG-W in sub location of the mOOnTAG Master of the chain





# Activity 1

Check mBASE sychro





# 2.Lokeos > modules

## « mOOnTAG » module

- This page allows you to check the status of connected and disconnected mOOnTAG® Sensors
- In the last column, it gives the reference to the DPD with which it is connected
- The sensor details are available through the contextual menu (right click or dbl-click), important info:
  - Battery level
  - RSSI

The screenshot shows the EDITAG SENSORS interface. The top navigation bar includes the EDITAG INDUSTRIES logo, a hamburger menu icon, and a 'My Account' dropdown with a green checkmark. The left sidebar contains a navigation menu with categories: ADMIN (Users, Equipments, Logs, Sensors, Locations), ALERT (Events, Supervision), and PICK TO LIGHT (Dashboard, Configuration, Monitor, Tests). The main content area is titled 'Sensors' and features a search bar with 'Keywords', a 'Columns' dropdown, and a '+ Add' button. Below the search bar is a pagination control showing '(1 of 4)' and page numbers 1 through 4, with '20' items per page. The table below has columns for Serial number, Last contact date & time, Monitored object, Name, Battery voltage (V), and Firmware version. Each row includes a checkbox for selection.

<input type="checkbox"/>	Serial number ^	Last contact date & time ↕	Monitored object ↕	Name ↕	Battery voltage (V) ↕	Firmware version ↕
<input type="checkbox"/>	174000045	10/5/20 3:03:14 PM	<a href="#">KCP_0301 (1003.301001)</a>	P2L0A5F07AD	3.45	3153
<input type="checkbox"/>	193601238	10/5/20 3:03:46 PM	<a href="#">KCP_0315 (1003.315015)</a>	P2L0B8A1ED6	3.5	3153
<input type="checkbox"/>	193601256	10/5/20 3:00:31 PM	<a href="#">KCP_0103 (1001.103003)</a>	P2L0B8A1EE8	3.6	3153
<input type="checkbox"/>	193601259	10/5/20 3:04:31 PM	<a href="#">KCP_0603 (1006.603003)</a>	P2L0B8A1EEB	3.51	3153
<input type="checkbox"/>	200500235	10/5/20 3:03:32 PM	<a href="#">KCP_0310 (1003.310010)</a>	P2L0BF3640B	3.6	3153
<input type="checkbox"/>	200500238	10/5/20 2:58:38 PM	<a href="#">KCP_0306 (1003.306006)</a>	P2L0BF3640E	3.53	3153
<input type="checkbox"/>	200500248	10/5/20 3:02:47 PM	<a href="#">KCP_0215 (1002.215015)</a>	P2L0BF36418	3.54	3153
<input type="checkbox"/>	200500251	10/5/20 3:02:22 PM	<a href="#">KCP_0202 (1002.202002)</a>	P2L0BF3641B	3.51	3153



# 2.Lokeos > modules

## « Monitor » module

The screenshot shows the 'Monitor' module interface. The sidebar on the left contains the following menu items: ADMIN (Utilisateurs, Equipements, Logs, Capteurs, Emplacements), ALERTE (Evénements, Supervision), PICK TO LIGHT (Tableau de bord, Configuration), **Moniteur**, and Tests. The main content area is divided into three sections: 'ZONES' with buttons for CSL, HAM, HPO, LDB, LSR, MVD, MVG, and PAV; 'CSL' with buttons for Section 1 (green), Section 2 (blue), Section 3 (dark blue), Section 4 (dark blue), and Section 5 (dark blue); and 'SECTION 5 - : N/A' with a grid of buttons numbered 500 to 532.

- Allows the tracking of P2L missions in the sections of the different zones
- If a mission is in progress, allows you to send or force a mission for a DPD (click on the section then on the DPD)



## 2.Lokeos > modules

### « Monitor » module

- When the user is located, it does not propose the list of areas to be selected, but automatically selects the user's area.
- When an area is selected, it displays only the sections within it.
- When an area is paused, the information is displayed.
- Each mission is virtually identified by its colour and date of creation
- When a mission is in progress for a section, the button changes to the colour of the mission (or grey for multi-coloured missions).
- When a mission is active, clicking on the section button will display the status of all its DPDs. Status of a mission:
  - In progress
  - Finished (the DPDT must be discharged)
  - Close (all DPDs have been acquitted)
- Each DPD is represented by a button that takes on the colour of the mission, or dark blue when it is switched off / acknowledged
- Clicking on a DPO allows you to display the details and to access the buttons for returning or forcing the acknowledgement



# 2.Lokeos > modules

## « Monitor » module

ADMIN  
Utilisateurs  
Equipements  
Capteurs  
Emplacements  
ALERTE  
Evénements  
Supervision  
PICK TO LIGHT  
Tableau de bord  
Configuration  
Moniteur  
Tests

ZONES  
▶ CSL ▶ HAM ▶ HPO ▶ LDB  
▶ LSR ▶ MVD ▶ MVG ▶ PAV

LDB  
LDB  
▶ Section 1 ▶ Section 2 ▶ Section 3 ▶ Section 4

SECTION 1 - Section 1 : En cours

☐ 0101 ☐ 0102 ☐ 0111 ☐ 0119 ☐ 0121  
☐ 0124 ☐ 0125 ☐ 0131 ☐ 0132 ☐ 0100

EDITAG EES 2.3.9.7\_20191217  
+33 484 250 919  
contact@editag.com

1) Select area

2) Select section

3) Select DPD

4-A) Re-push the mission to the DPD (if the DPD didn't turn ON)

4-B) Force acknowledgement (If Lokeos didn't receive the acknowledgement)

DETAILS

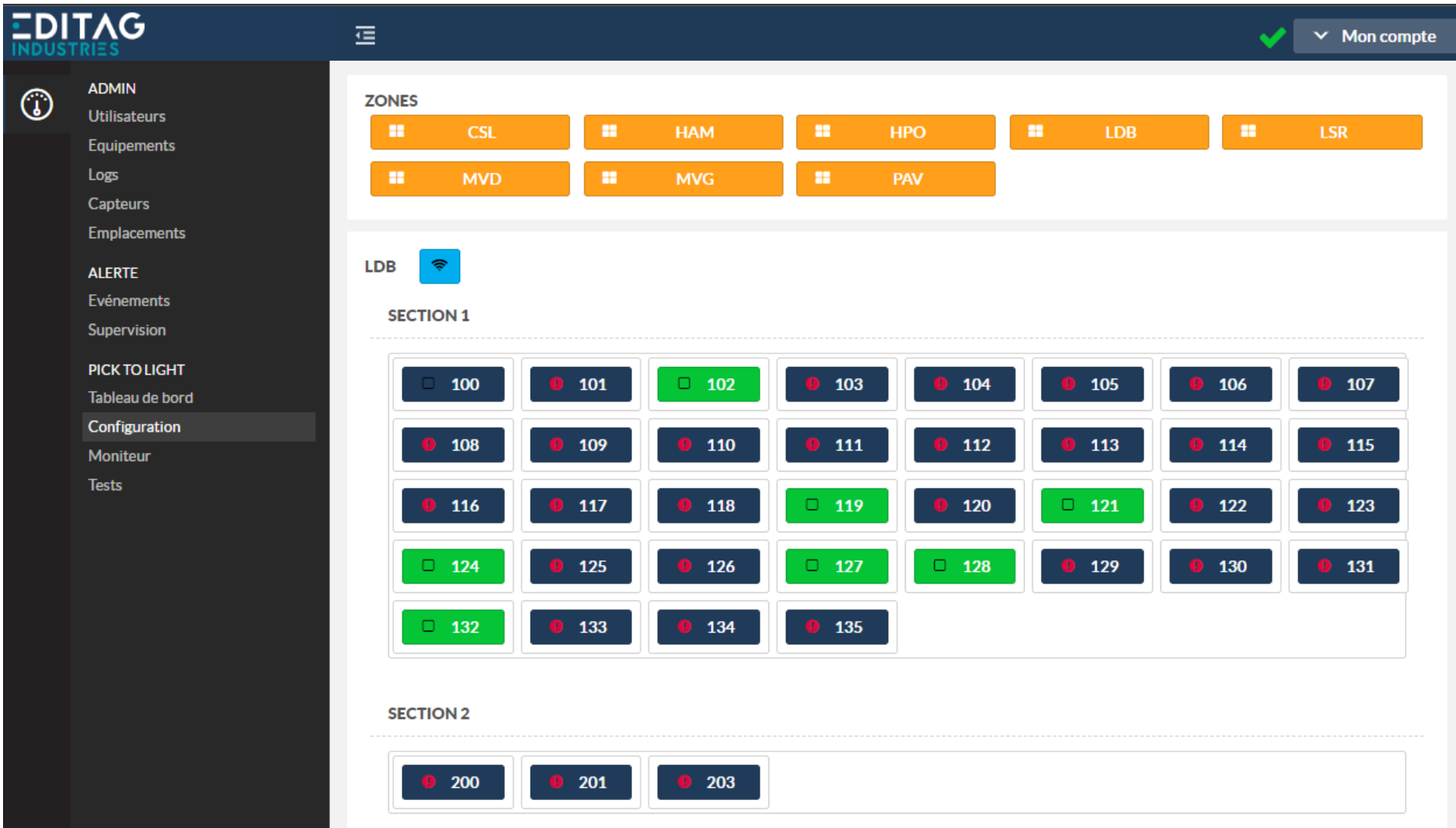
Capteur	LDB_0101
Couleur	B
Effet	FI
Display	1---
mOOnTAG ID	urn:eac:id:ealn:330105.2001.101001

Renvoyer Forcer Annuler



# 2.Lokeos > modules

## « Configuration » module



**EDITAG INDUSTRIES** Mon compte

**ADMIN**  
Utilisateurs  
Equipements  
Logs  
Capteurs  
Emplacements

**ALERTE**  
Evénements  
Supervision

**PICK TO LIGHT**  
Tableau de bord  
**Configuration**  
Moniteur  
Tests

**ZONES**

- CSL
- HAM
- HPO
- LDB
- LSR
- MVD
- MVG
- PAV

**LDB**

**SECTION 1**

<input type="checkbox"/> 100	<input checked="" type="checkbox"/> 101	<input type="checkbox"/> 102	<input checked="" type="checkbox"/> 103	<input checked="" type="checkbox"/> 104	<input checked="" type="checkbox"/> 105	<input checked="" type="checkbox"/> 106	<input checked="" type="checkbox"/> 107
<input checked="" type="checkbox"/> 108	<input checked="" type="checkbox"/> 109	<input checked="" type="checkbox"/> 110	<input checked="" type="checkbox"/> 111	<input checked="" type="checkbox"/> 112	<input checked="" type="checkbox"/> 113	<input checked="" type="checkbox"/> 114	<input checked="" type="checkbox"/> 115
<input checked="" type="checkbox"/> 116	<input checked="" type="checkbox"/> 117	<input checked="" type="checkbox"/> 118	<input type="checkbox"/> 119	<input checked="" type="checkbox"/> 120	<input type="checkbox"/> 121	<input checked="" type="checkbox"/> 122	<input checked="" type="checkbox"/> 123
<input type="checkbox"/> 124	<input checked="" type="checkbox"/> 125	<input checked="" type="checkbox"/> 126	<input type="checkbox"/> 127	<input type="checkbox"/> 128	<input checked="" type="checkbox"/> 129	<input checked="" type="checkbox"/> 130	<input checked="" type="checkbox"/> 131
<input type="checkbox"/> 132	<input checked="" type="checkbox"/> 133	<input checked="" type="checkbox"/> 134	<input checked="" type="checkbox"/> 135				

**SECTION 2**

<input checked="" type="checkbox"/> 200	<input checked="" type="checkbox"/> 201	<input checked="" type="checkbox"/> 203					
---	---	---	--	--	--	--	--



## 2. Lokeos > modules

### « Configuration » module

#### mBASE status

- Display the Leader/Backup mBASE informations
- Performing an mBASE switchover

The screenshot shows the EDITAG INDUSTRIES mBASE status configuration interface. The interface is divided into a sidebar menu on the left and a main content area on the right. The sidebar menu includes categories like ADMIN, ALERTE, and PICK TO LIGHT, with sub-items such as Utilisateurs, Equipements, Logs, Capteurs, Emplacements, Evénements, Supervision, Tableau de bord, Configuration, and Moniteur. The main content area displays the mBASE status configuration for the LDB zone. The 'ZONES' section shows buttons for CSL, HAM, HPO, LDB, LSR, MVD, MVG, and PAV. The 'LDB' zone is selected, and the 'SECTION 1' section shows a grid of 16 numbered buttons (100-115). Annotations with callouts indicate '1) Select area' pointing to the LDB zone button and '2) Click on the icon' pointing to the Wi-Fi icon in the LDB section header.

## 2. Lokeos > modules

### « Configuration » module

### Actions on the mBASEs

DETAILS

Zone LDB  
Identifiant 330105.2  
Nombre de DPD 45

---

Identifiant de la mBASE maître	10222	Identifiant de la mBASE de secours	10220
Nom	mBASE10222	Nom	mBASE 10220
Zone de fréquence LORA	2	Zone de fréquence LORA	2
Dernier contact	03/11/20 16:30	Dernier contact	03/11/20 16:23
mBASE de secours synchronisée avec l'active	<input checked="" type="checkbox"/> Oui	mBASE de secours synchronisée avec l'active	<input checked="" type="checkbox"/> Oui

Switch mBASE to backup

This operation is risky, please be sure that the area is not under production





## Activity 2

**Search for the battery level of a DPD**



# 2. Lokeos > modules

## « Supervision » module

- This page monitors the technical status of the Lokeos system:
  - Connecting and disconnecting SENSORS with DPDs
  - mBASEs offline
  - Offline DPDs
  - Unknown DPDs
  - Test status
  - Etc...

Priority	Event date & time	Event types	Name	Identifier	Acknowledged	Is active
No result						
(1 of 1) << < > >> 10						
Acknowledged events						
Event date & time	Event types	Name	Identifier	Comments	Acknowledging user	
11/22/17 3:24:02 PM	Sensor 173800021 associated	PCI_1325	1003.1325025			
11/22/17 3:23:34 PM	Sensor 173800021 disconnected	PCI_1336	1003.1336036			
11/22/17 3:21:06 PM	Sensor 173800021 associated	PCI_1336	1003.1336036			
11/22/17 3:19:24 PM	Sensor 0020510 associated	PCI_1319	1003.1319019			
11/22/17 3:18:46 PM	Sensor 173800021 disconnected	PCI_1319	1003.1319019			
11/22/17 3:18:40 PM	Sensor 173800230 associated	PCI_1322	1003.1322022			
11/22/17 3:18:18 PM	Sensor 174200013 associated	PCI_1314	1003.1314014			
11/22/17 3:18:12 PM	Sensor 173800230 disconnected	PCI_1336	1003.1336036			
11/22/17 3:18:00 PM	Sensor 173800021 associated	PCI_1319	1003.1319019			
11/22/17 3:18:00 PM	Sensor 0020510 disconnection forced	PCI_1319	1003.1319019			
(6 of 60) << < 1 2 3 4 5 6 7 8 9 10 > >> 10						



## 2.Lokeos > modules

### « Supervision » module

- Alarms (red)
  - mBASE in error or automatically switched to backup one
  - mBASE offline
  - Unknown DPD addressed by the MES
- Alerts (yellow)
  - Low battery tag
  - Offline tag (do not respond to query messages)
- Acknowledged message (white)



# 2.Lokeos > modules

## « Supervision » module

### Events

Running events: 0 (Red), 0 (Yellow)

Priority	Event date & time	Event types	Name	Identifier	Acknowledged	Is active
No result						
(1 of 1) << < > >> 10						
Acknowledged events						
Event date & time	Event types	Name	Identifier	Comments		
11/22/17 3:24:02 PM	Sensor 173800021 associated	PCI_1325	1003.1325025			
11/22/17 3:23:34 PM	Sensor 173800021 disconnected	PCI_1336	1003.1336036			
11/22/17 3:21:06 PM	Sensor 173800021 associated	PCI_1336	1003.1336036			
11/22/17 3:19:24 PM	Sensor 0020510 associated	PCI_1319	1003.1319019			
11/22/17 3:18:46 PM	Sensor 173800021 disconnected	PCI_1319	1003.1319019			
11/22/17 3:18:40 PM	Sensor 173800230 associated	PCI_1322	1003.1322022			
11/22/17 3:18:18 PM	Sensor 174200013 associated	PCI_1314	1003.1314014			
11/22/17 3:18:12 PM	Sensor 173800230 disconnected	PCI_1336	1003.1336036			
11/22/17 3:18:00 PM	Sensor 173800021 associated	PCI_1319	1003.1319019			
11/22/17 3:18:00 PM	Sensor 0020510 disconnection forced	PCI_1319	1003.1319019			

(6 of 60) << < 1 2 3 4 5 6 7 8 9 10 > >> 10

#### Preferences

Custom title:

Object: All

Location: All

Equipment: Only with sensor

EndUser: All

Display synoptic and details:  No

Display ended events:  Yes

Display technical events:  Yes

# 2.Lokeos > modules

## « Supervision » module

### Alerts notifications

Running events						
Priority	Event date & time	Event types	Name	Identifier	Acknowledged	Is active
	9/23/20 10:11:41 AM	Offline receiver	mBASE M 10082 Zones 3	ees-p2l-vl.mbase_m_10082_zones_3	-	-
	9/22/20 8:23:33 AM	DPD MV2_4009 unknown	MV2	340001.3	-	-
	9/22/20 6:55:17 AM	DPD MV2_1007 unknown	MV2	340001.3	-	-
	9/22/20 6:55:12 AM	DPD MV2_1007 unknown	MV2	340001.3	-	-
	9/21/20 9:50:04 AM	DPD MV2_8011 unknown	MV2	340001.3	-	-
	9/18/20 2:21:38 PM	DPD PPI_2012 unknown	PPI	340001.2	-	-
	9/18/20 2:15:55 PM	DPD PPI_2012 unknown	PPI	340001.2	-	-
	9/18/20 7:16:04 AM	DPD MV2_6004 unknown	MV2	340001.3	-	-
	9/18/20 7:14:39 AM	DPD MV2_6004 unknown	MV2	340001.3	-	-
	9/18/20 7:14:39 AM	DPD MV2_6004 unknown	MV2	340001.3	-	-

(1 of 13) << < 1 2 3 4 5 6 7 8 9 10 > >> 10 ▾

Acknowledged events						
Event date & time	Event types	Name	Identifier	Comments	Acknowledging user	
9/23/20 10:15:56 AM	Sensor 191501386 associated	MV2_1009	3001.1009009			
9/23/20 10:15:34 AM	Sensor 191501386 disconnected	MV2_1009	3001.1009009			

# 2.Lokeos > modules

## « Supervision » module

### Notifications

**EDITAG INDUSTRIES** 5/25/20 3:55 PM

Running events 0 2 **Acknowledge all**

Priority	Event date & time	Event types	Name	Identifier	Acknowl	Is active	
▲	5/25/20 3:54:49 PM	Alert Andon	CDE_8254	4008.8254254	-	-	<input checked="" type="checkbox"/>
▲	5/25/20 3:53:39 PM	Alert Andon	CDE_8254	4008.8254254	-	-	<input checked="" type="checkbox"/>

(1 of 1) << < 1 > >> 10

**Acknowledged events**

Event date & time	Event types	Name	Identifier	Comments	Acknowledging user
5/25/20 3:53:33 PM	Andon alert acked	CDE_8254	4008.8254254		
5/25/20 3:53:33 PM	Andon alert acked	CDE_8254	4008.8254254		
5/25/20 3:53:26 PM	Alert Andon	CDE_8254	4008.8254254		
5/25/20 3:52:55 PM	Alert Andon	CDE_8254	4008.8254254		
5/25/20 3:52:44 PM	Andon alert acked	CDE_8254	4008.8254254		
5/25/20 3:52:38 PM	Alert Andon	CDE_8254	4008.8254254		
5/25/20 3:49:21 PM	Alert Andon	CDE_8254	4008.8254254		
5/25/20 3:47:03 PM	Alert Andon	CDE_8254	4008.8254254		
5/25/20 3:46:44 PM	Alert Andon	CDE_8254	4008.8254254		
5/25/20 3:45:17 PM	Defaults acknowledged	EES P2L	ees-p2l		super

(1 of 6) << < 1 2 3 4 5 6 > >> 10

# 2.Lokeos > modules

## « Supervision » module

### Notifications

Evènements en cours						
Criticité	Date et heure événement	Types d'événements	Nom	Identifiant	Acquitté	Actif
	28/06/21 12:43:32	Récepteur hors ligne	mBASE M09 KEHLO07	ees-p2l-ke.mbase_m09_kehlo07	-	-
	28/06/21 11:34:55	Tag hors ligne	HCD_5013	9005.5013013	-	-
	28/06/21 11:34:05	Batterie faible	HCD_6009	9006.6009009	-	-
	28/06/21 11:33:44	Batterie faible	HCD_5017	9005.5017017	-	-
	28/06/21 11:33:07	Batterie faible	HCD_5027	9005.5027027	-	-
	28/06/21 11:29:37	Batterie faible	HCD_1009	9001.1009009	-	-
	28/06/21 09:39:19	Batterie faible	HCD_6005	9006.6005005	-	-

(1 of 1) << < 1 > >> 10

Evénements acquittés						
Date et heure événement	Types d'événements	Nom	Identifiant	Commentaires	Utilisateur ayant acquitté	
28/06/21 12:44:32	Le DPD 183900807 à un identifiant dupliqué ou invalide	PCI_3017	3003.3017017			
28/06/21 12:44:32	Le DPD 182000260 à un identifiant dupliqué ou invalide	PCI_3071	3003.3071017			
28/06/21 12:44:32	Le DPD 204901187 à un identifiant	PCI_4021	3001.4021021			

# 2.Lokeos > modules

## « Events » module

<input type="checkbox"/>	Event date & time ▾	Event types ⚡	Name ⚡	Identifier ⚡	Location ⚡	Acknowledged ⚡	Is active ⚡
<input type="checkbox"/>	11/4/20 10:10:13 AM	Sensor 201600613 associated	HPO_1040	16010.1040040	Site>Zone Radio 16>HPO>Section 10>HPO_1040	True	False
<input type="checkbox"/>	11/4/20 10:09:56 AM	Sensor 200501587 disconnected	HPO_1040	16010.1040040		True	False
<input type="checkbox"/>	11/4/20 9:20:17 AM	Sensor 200500269 associated	HPO_1408	16014.1408008	Site>Zone Radio 16>HPO>Section 14	True	False
<input type="checkbox"/>	11/4/20 9:19:07 AM	DPD HPO_1408 has no sensor paired	HPO	330105.16		True	False
<input type="checkbox"/>	11/4/20 9:17:24 AM	DPD HPO_1408 has no sensor paired	HPO	330105.16		True	False
<input type="checkbox"/>	11/4/20 9:14:44 AM	DPD HPO_1408 has no sensor paired	HPO	330105.16		True	False
<input type="checkbox"/>	11/4/20 9:14:05 AM	Sensor 200500269 disconnected	HPO_1408	16014.1408008		True	False
<input type="checkbox"/>	11/4/20 8:41:22 AM	Sensor 200501110 associated	MVG_1108	18011.1108008	Site>Zone Radio 18>MVG>Section 11	True	False
<input type="checkbox"/>	11/4/20 8:41:04 AM	Sensor 200500146 associated	MVG_1204	18012.1204004	Site>Zone Radio 18>MVG>Section 12	True	False
<input type="checkbox"/>	11/4/20 8:40:53 AM	Sensor 200501110 disconnected	MVG_1204	18012.1204004		True	False





## Activity 3

What is the last event in the supervision ?

How many red alarms are active ?

What is the type of alarm for a low battery level ?



# 2.Lokeos > modules

## « Tests » module

**SECTION TEST**

Section: 5000,5001,5002,5003,5

Test to play: Reset

Restart on completion:  off

Test frequency in secs: 3

**Launch section Test**

**TEST SCENARIO**

Scenario file: [dropdown]

Restart on completion:  off

Ack timeout in secs: 120

**SCENARIO IMPORT**

Test file import:

+ Select Upload Cancel

**DPD TEST**

Area: [input]

DPD: DPD\_8002

Color (RBGPCOW\*): V

Effect (CR,CL,FI,\*\*): FI

Display: \*\*\*\*

**DPD Test**

- Allows you to run ignition tests for:
  - one DPD
  - one Section
  - A series of Sections
  - Launch a test scenario
- Also allows:
  - Reset DPDs
  - Questioning DPDs
- Possible actions:

Reset

Reset

Test 1 - Display

Test 2 - Acks

Test 3 - Mixed

Are You There?

MES simulator



# 2.Lokeos > modules

## « Test » module

### Section test

- Reset - Clearing
- Test 1 – Ignition test:
  - Sends the different colours and effects to the DPD. Displays a number from 01 to 15
  - Requires DPDT Acknowledgement
- Test2 – Ack test
  - Displays a mission for each section. Waits for an ACK from each DPD (Automatic if delay >= 0)
  - Manual ACK ( delay = -1)
- Test 3 – Mixed test
  - Displays a mission on the first section
  - Switch to the next section at each acknowledgement
- AreYouThere? – DPDs status

### Options:

- Restart the test in a loop
- Change the frequency of iterations (or check delay)

1) Enter one or more sections

2) Select the type of test

3) Select « on » to run the test in a loop, or « off » if you don't want to

4) Launch the test



## « Test » module

### Unitary test

- Colors:
  - R: Red
  - B: Blue
  - V: Green
  - P: Pink
  - C : Cyan
  - O : Yellow/Orange
  - W: White
  - \* : Clear
- Effects:
  - CR: Rapid flashing
  - CL: Slow flashing
  - FI: Permanent
  - \*\* : Effacer
- Display:
  - \* : Empty
  - -
  - Numbers 1 to 9

The screenshot shows the 'pick2light' interface with a sidebar menu on the left containing 'ADMIN', 'Users', 'Locations', 'Equipments', 'Logs', 'Sensors', 'PICK TO LIGHT', 'Monitor', 'Tests', 'Dashboard', and 'Supervision'. The main content area is divided into two panels: 'SECTION TEST' and 'TEST SCENARIO'. The 'SECTION TEST' panel has fields for 'Section' (1000,1001,1002,1003,10), 'Test to play' (Test 2 - Acks), 'Restart on completion' (on), 'Test frequency in secs' (6), and 'Automatic ACK delay' (3). The 'TEST SCENARIO' panel has fields for 'Scenario file' (jeuHC\_1\_Avec1operateur.csv), 'Restart on completion' (on), and 'Ack timeout in secs' (5). A 'Launch scenario' button is present. Below these is a 'SCENARIO IMPORT' section. The 'DPD TEST' panel is overlaid on the bottom left, with fields for 'Area' (PCI), 'DPD' (PCI\_1000), 'Color (RBVW\*)' (V), 'Effect (CR,CL,FI,\*\*)' (FI), and 'Display' (\*\*\*\*). A 'Launch section Test' button is at the bottom of the 'SECTION TEST' panel. A blue button labeled 'DPD Test' is at the bottom of the 'DPD TEST' panel. Three callout boxes provide instructions: 1) Enter the area name (pointing to the Area field), 2) Enter the DPD name (pointing to the DPD field), and 3) Enter the color, lightning effect and the display (pointing to the Color, Effect, and Display fields). A fourth callout box, highlighted in yellow, says '4) Launch the test' (pointing to the 'Launch section Test' button).



# (Re)configuration

- **Initialization**
- **Encoding**
- **DPD status**
- **Configuration checking**
  - Configure DPDs for an area
- **Installation**
  - Install the DPDs on the supports in the area
- **Use**
  - How the DPDs work
  - Process a mission
  - Problem solving



## Initialization

- Phases of initialisation of a zone
  1. Configure the DPDs IDs of the area with the Android tablet and its encoding application (next slides)
    - Each DPD ID must have a unique identification on the site
    - Encoding convention:
      - Patner ID = site code
      - Zone number: from 0 to 15
      - Section number: from 0 to 253
      - DPD number: 4 digits - must be unique in the area, serves as an identifier for the MES
      - Order number: 3 digits - 001 to 253 (000 being for DPDT), must be unique in the section, defines the ignition priority in the section
  2. Checking configuration with Lokeos (next slides)
    - Connect a mOOnTAG SENSOR to each ID
    - Check display to validate DPD synchronization
    - Check the synchronization of DPDs in Lokeos with the Monitor, Sensors or Locations module
    - Run a series of ignition tests on sections of the zone to check ignition
    - Run a series of picking tests from the customer's MES on sections of the zone



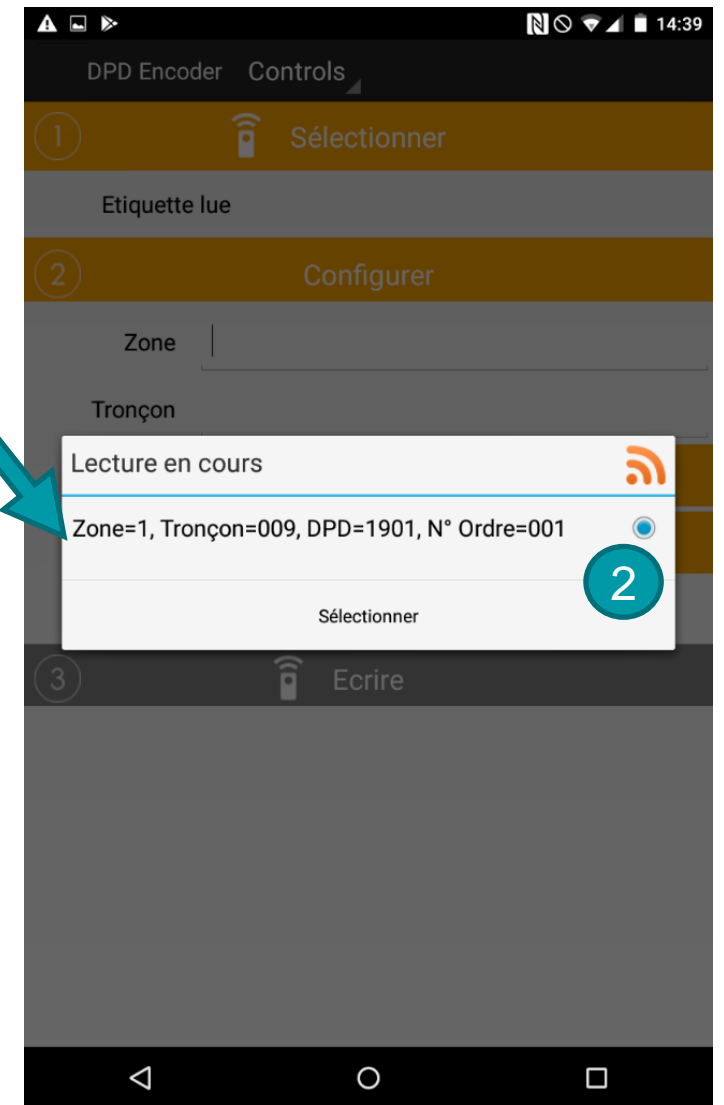
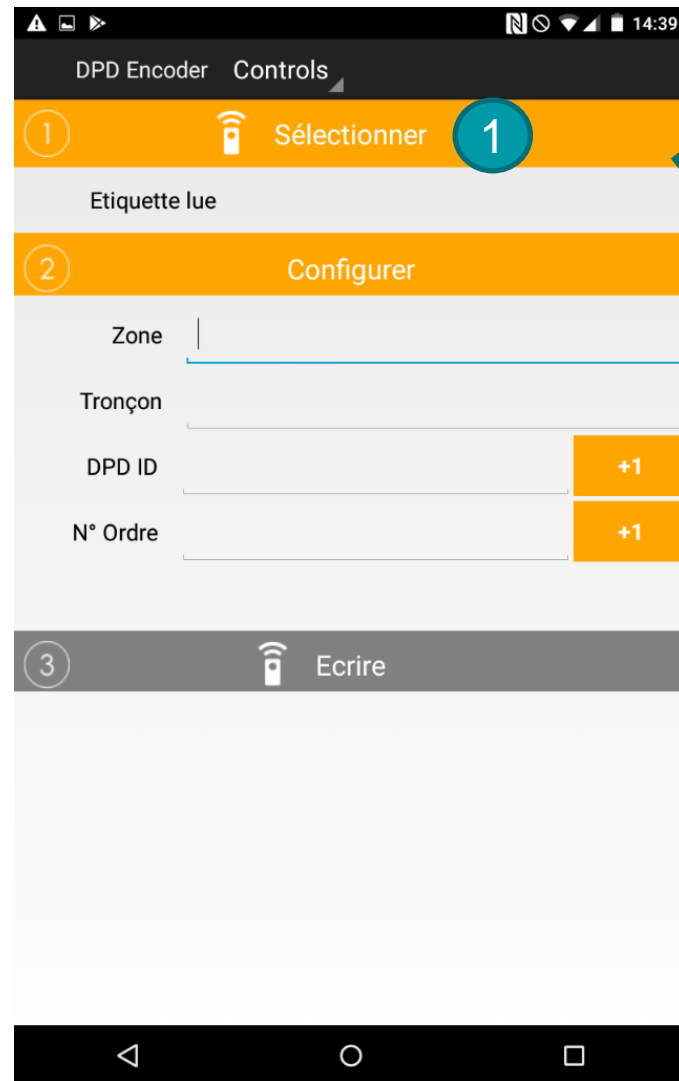
# 3.(Re)configuration - Encoding

Click on « select »  
-> radio detection

1

Select the DPD

2



# 3.(Re)configuration - Encoding

- 3
- Zone: 0 - 254
- Section: 0 – 254
- DPD: 0 - 9999
- Order: 0 - 254

DPD Encoder Controls

1 Sélectionner

Etiquette lue urn:eac:id:ealn:340001.1009.1901001

2 Configurer

Zone 1

Tronçon 009

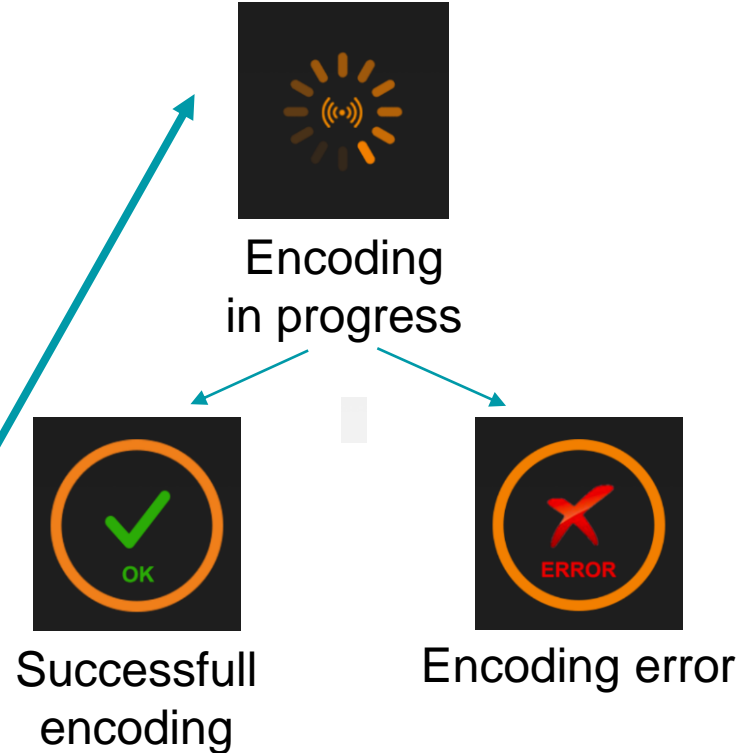
DPD ID 1901 +1

N° Ordre 001 +1

urn:eac:id:ealn:340001.00001009.001901001

3 Ecrire

4) Click "write" to send the parameters

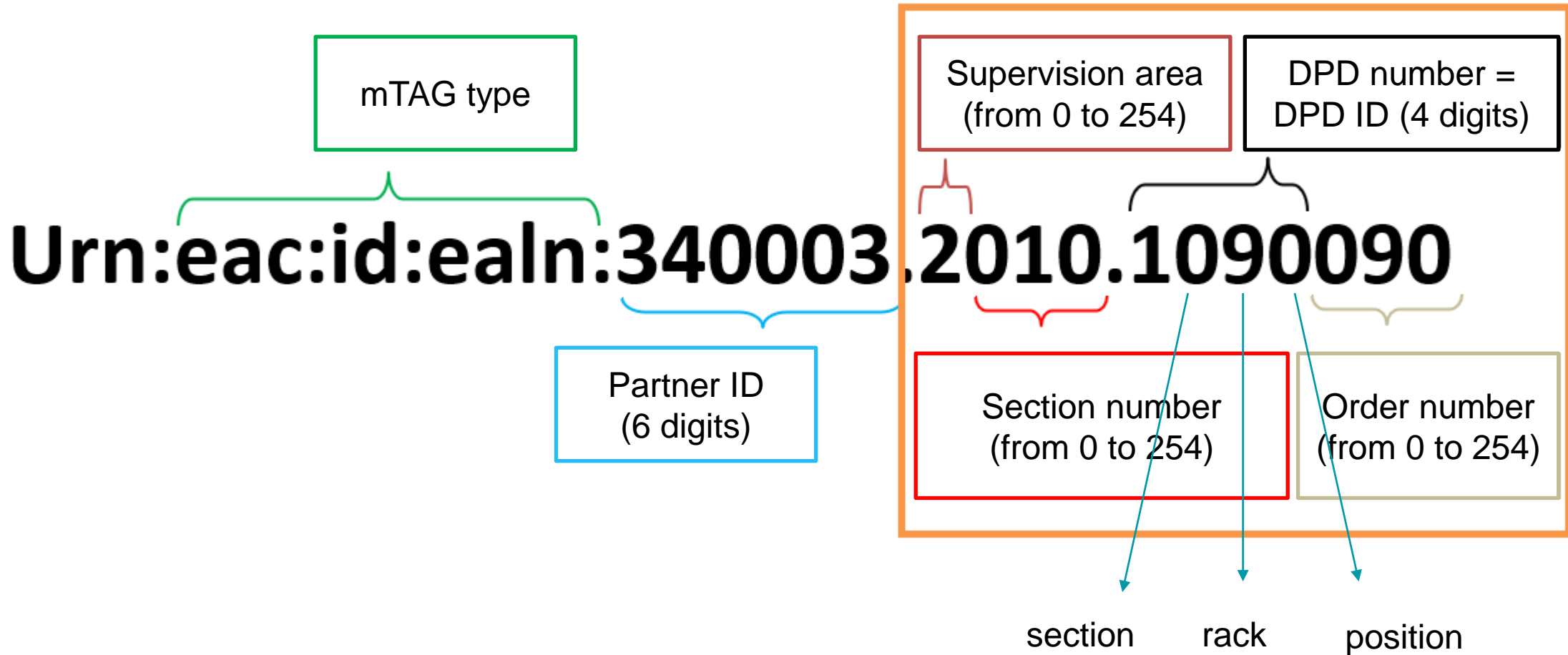


The data must respect the encoding convention:  
DPD ID = Section number + order number  
Note : pay attention to Site Code / Partner ID



# 3.(Re)configuration - Encoding

Each of the encoding parameters will define a unique identifier used in the reference: the URN





# 3.(Re)configuration - Encoding

position / order number	Role (or function)
0	The ID will give the clipped SENSOR the function of DPDT within its section. A section requires at least one DPDT to exist. There can be only one DPDT maximum per Section.
1 -> 253	The ID will give the clipped SENSOR the DPD function. A section can contain a maximum of 253 DPDs. A section cannot contain the same DPD twice.
254	The ID will give the clipped SENSOR the function of DPD Andon within its section. There can only be a maximum of one DPD Andon per Section.



# 3.(Re)configuration

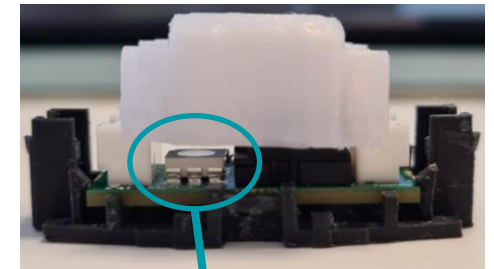
## mOOnTAG-W

### Encoding:

- The encoding method is the same as for the standard mOOnTAG PTL and is done on the mOOnTAG ID-W

### Hardware installation:

- Wire the mOOnTAG-W to each other and to the Master mOOnTAG of the chain
- Be sure to observe the connection direction of the mOOnTAG-W
- Close the black cover of each mOOnTAG-W
- Fix the mOOnTAG-W :
  - › Zip tie
  - › Double-sided scotch tape
  - › Elastic
- Clip on the sensor of the Master mOOnTAG
- Possible mix between mOOnTAG-W and mOOnTAG Pick-to-Light standard chains on a same section



LED towards the Master mOOnTAG

# 3.(Re)configuration

## DPD status

Clip

1



mOOnTAG SENSOR unclipped.

Le SENSOR displays :

- EDITAG
- serial number (hexadecimal)
- the firmware version installed on the S and U PCB
- a barcode encrypting the hexadecimal serial number of the sensor

2



mOOnTAG SENSOR clipped, searching for synchronisation.

The sensor displays:

- EDITAG
- serial number (hexadecimal)
- the firmware version installed on the S and U PCB
- Encoding parameters

3



mOOnTAG SENSOR clipped and synchronised to a mBASE.

Sending and receiving information frames.



# 3.(Re)configuration

## DPD status



Displays the encoding parameters

-Frequency area: 16

-Section: 16

-Order number: 6

-ID number: 1606



The mOOnTAG SENSOR is clipped to an ID encoded in position Andon (254).

An ANDON Alert is in progress



Low battery symbol



# 3.(Re)configuration

## Configuration checking

Lokeos allows you to check that the system is correctly configured in the following ways:

- « Sensors » module – if there are inconsistencies
  - Unclipped a DPD: the associated sensor must be free
    - If not, disconnect the associated DPD in the locations page
  - Reconnect a DPD: the connected sensor must be associated
    - If not, check the PDP encoding and repeat the operation in range of the mBASE
- Unit and section tests - checking the activity of the section's DPDs
  - Start a test 3 on the continuous section and reconnect the DPDs that do not follow the missions
- « Supervision » module – errors detection
  - Reconnect the DPD in case of an alert:
    - “DPD unknown”





# Activity 4

## Encod an ID



# 3.(Re)configuration

## Frequent actions

- Usage
  - Send missions
  - Problems solving
- Add DPD or section
  - Encode the Section number and Area number in the ID with the UHF Tablet
  - Clip the sensor to the ID on its backing plate
  - Check the status of the DPD in Lokeos: the sensor is well connected to the DPD
- Removing a DPD from a Section
  - Unclipp the sensor from the ID
  - Dismantle the ID
  - Check the status of the DPD in Lokeos: the sensor is no longer linked to the DPD



# 3.(Re)configuration

## Good practices

Replace the sensors/batteries of the mOOnTAG marked as low battery:

- Can be extinguished during production
- May be subject to electronic interference during production

Do not leave the DPDs in "connecting..." status as this consumes energy:

- Disconnect mBASE
- Remove a DPD from production and leave it clipped

Do not perform maintenance/troubleshooting during production:

- Mixed/Ack Test
- mBASE Switch

Note: changes of DPDs are allowed during production





# 3.(Re)configuration - Maintenance

- Monitoring
  - Monitoring of missions with the « Monitor » module
  - Check the status of the sensors
  - Statistics on the « Dashboard » module
- Level 1 or 2 maintenance
  - Supervision of alerts
  - The type of alerts created by the system
- Level 3 maintenance
  - « Logs » module
  - Downloading and viewing logs
  - Important research
- Update
  - Firmware
  - Software



# 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.



# End of presentation

