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BRINGING SENSE TO WIRELESS

User Guide

Object This document briefly presents the functions and uses offered by the Android mobile application INS-PADLOCK-II-DEMO.

Summary

Revisions

Version	Date	Contributeur(s)	Changements
01.00	2025-03-05	MSA	First Release

Document approval

Version	Redaction	Review	Validation
NAME	MSA	TLS	ESS
FUNCTION	App Dev	Qualification Engineer	Product Manager
DATE	2025-03-05	2025-03-05	2025-03-05
VISA			

Reference Documents

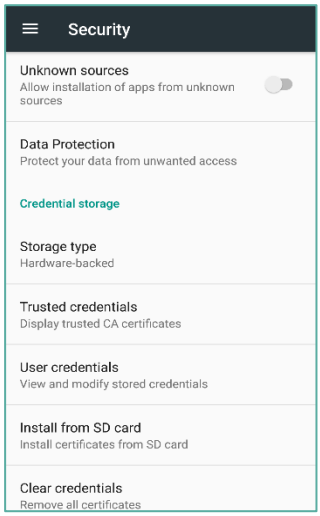
Ref.	Title	Designation

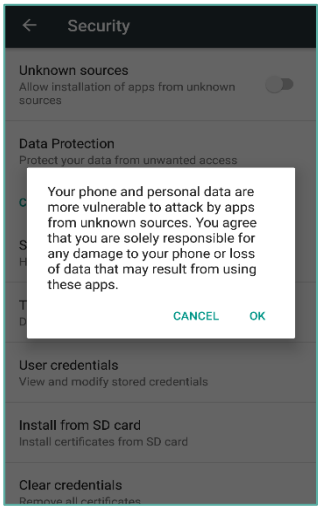
Source : SUPP_UG0001_INS-PADLOCK-II-DEMO_C3_01.00_EN_2503.docx

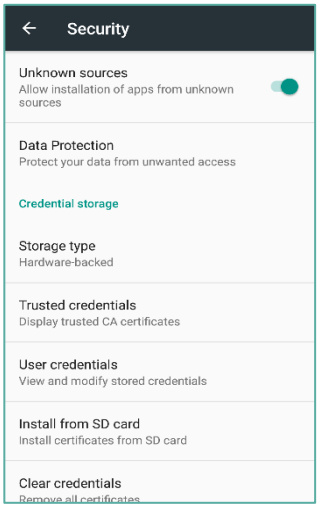
1. Download & Installation

Allow installation of apps from unknown sources in your mobile security settings.

1.1. Allow unknown sources applications







1.2. APK download link

https://ineo-sense.com/downloads/INS_Padlock_II_DEMO_v1.apk

1.3. Installation

Find the APK file on the SmartPhone, open it and follow the instructions.

An icon will be created on the home screen once the installation is complete.

2. Find ACS- Padlock-II & Connect

IMPORTANT It is necessary to have Bluetooth and location enabled and to have accepted the permissions requested during the first launch.

When launching the application, the ACS-Padlock-II scan starts directly.

Each time a device is found, it will appear on the screen as shown opposite.

The Smart Cable – Checks Disable information means that the ACS-Padlock-II is not in Operation mode, however this does not change the operation of the application – a button will be available to change its mode.

To connect to the ACS-Padlock-II, click on the device Serial Number or its information.

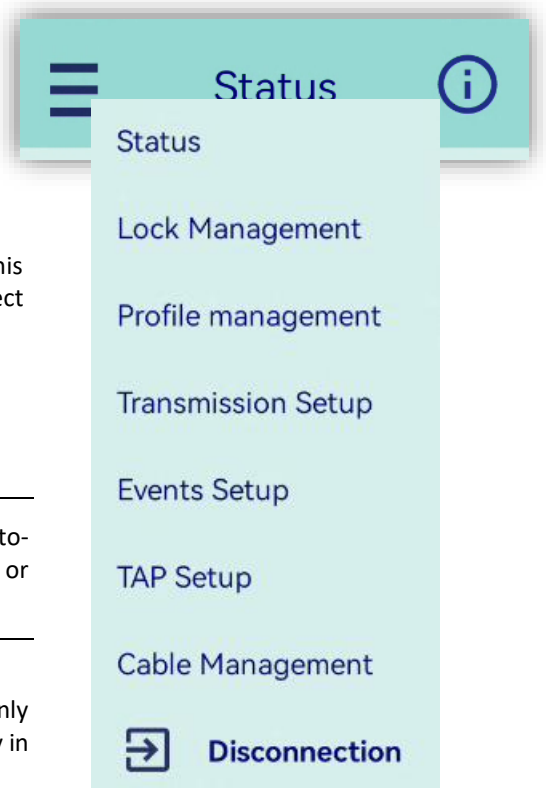
A loading popup will appear to inform the user that the connection is in progress.

Enter the BLE PIN Code if requested (by default, 123456). In case the device does not connect directly after entering it, simply click on it again.

3. Screen presentation

3.1. Generalities

3.1.1. Navigation



The Burger Menu is available at the top left of all pages. This menu allows direct access to a page, as well as disconnect from the device.

Access to information is also available.

NOTE In addition to the Burger Menu, screen-to-screen navigation can be done by swiping left or right, in a circular way.

Each time you arrive on a page, the information is only collected from the device one second later for more fluidity in the swipe and to only stop on the desired screen.

3.1.2. Application of confguration modifications

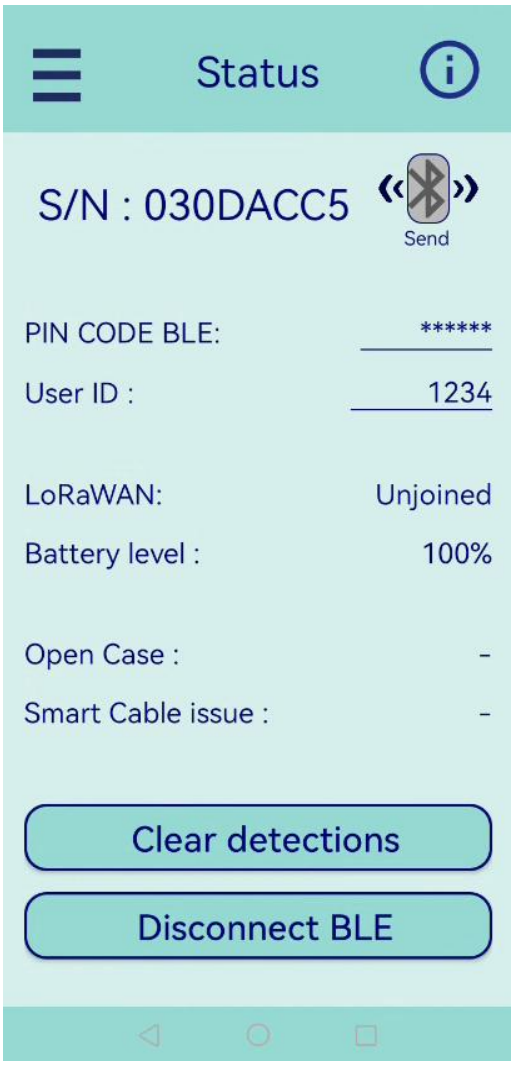
Any change on a screen causes the Bluetooth icon to change to blue.
This indicates that changes are pending, to be sent to the device.
Once the changes have been entered, click on the Bluetooth icon to configure the device accordingly.
Once done, a popup indicates the end of the operation and the icon turns gray again.

This principle is true on all screens.

3.2. Status

Once connection is done, *Status* screen is open.

On this page the user will find several information related to the status of the product.



We can modify:

User ID .....4 hexa char, thus 2 bytes

PIN CODE BLE .....6 digits

The other reported status are:

LoRaWAN .....current LoRaWAN JOIN status to a network

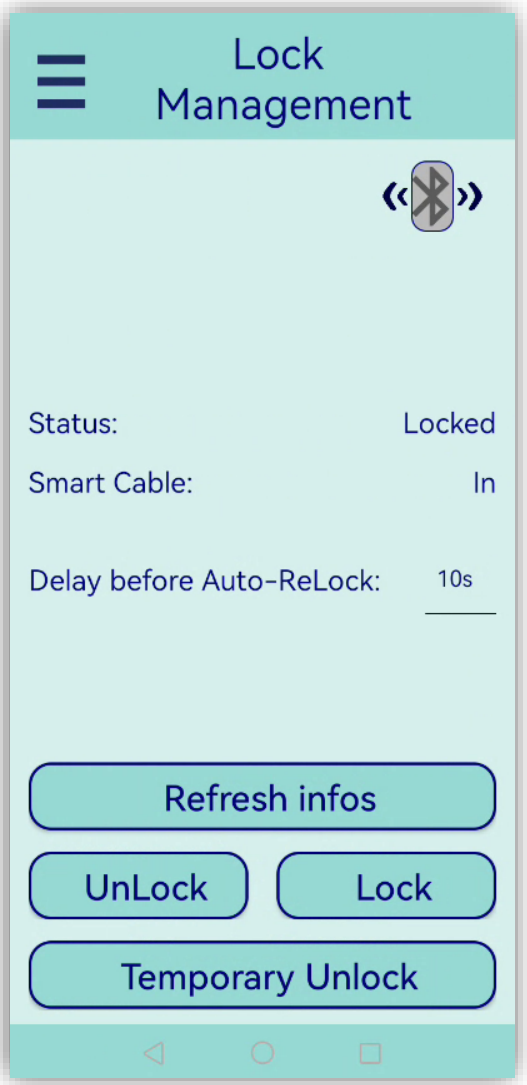
Battery level .....Remainning batteyr level

Open Case.....Housing open detection occured

Smart Cable Issue ...Smart cable issue occured

The 2 buttons below have the respective function of acknowledging the 2 above-mentioned detections and disconnecting from the device.

3.3. Lock management



The 2 first reported status are:

Status..... Lock current situation (Locked / Unlocked)

Smart Cable ..... Cable insertion situation in the locking slide

The 3rd item is a timeout setting after which the device will automatically relock after a Temporary Unlock operation (see below).

The buttons below are respectively:

Refresh Infos..... Read status again from the device

Unlock..... Sending Unlock command

Lock..... Sending Lock command

Temporary Unlock ... Sending timed opening command (with the delay configured above)

NOTE The Lock/Unlock commands use the USER ID configured in the screen Status.

NOTE The Bluetooth icon will turn blue when the application communicates with the product during the different commands.
The different statuses presented on this page are updated periodically.

3.4. Profile management

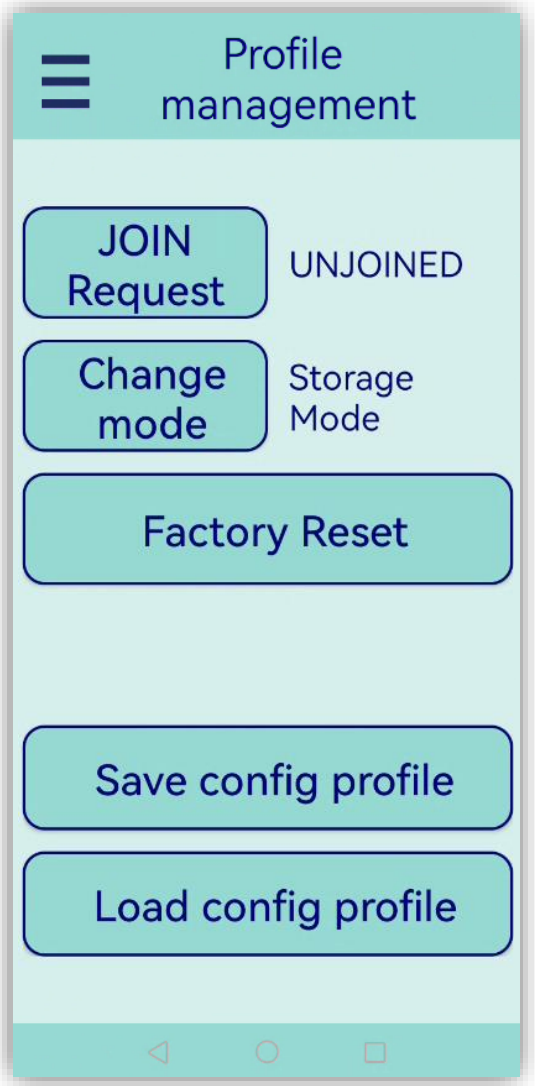
This screen permits to launch a LoRaWAN JOIN request by clicking on the **JOIN Request** button. If the ACS-Padlock-II is already JOINed, clicking on this button will make it launch the JOIN procedure again.

The **Change mode** button aims to switch between the operation mode ("Run Mode") and the Standby mode ("Storage Mode").

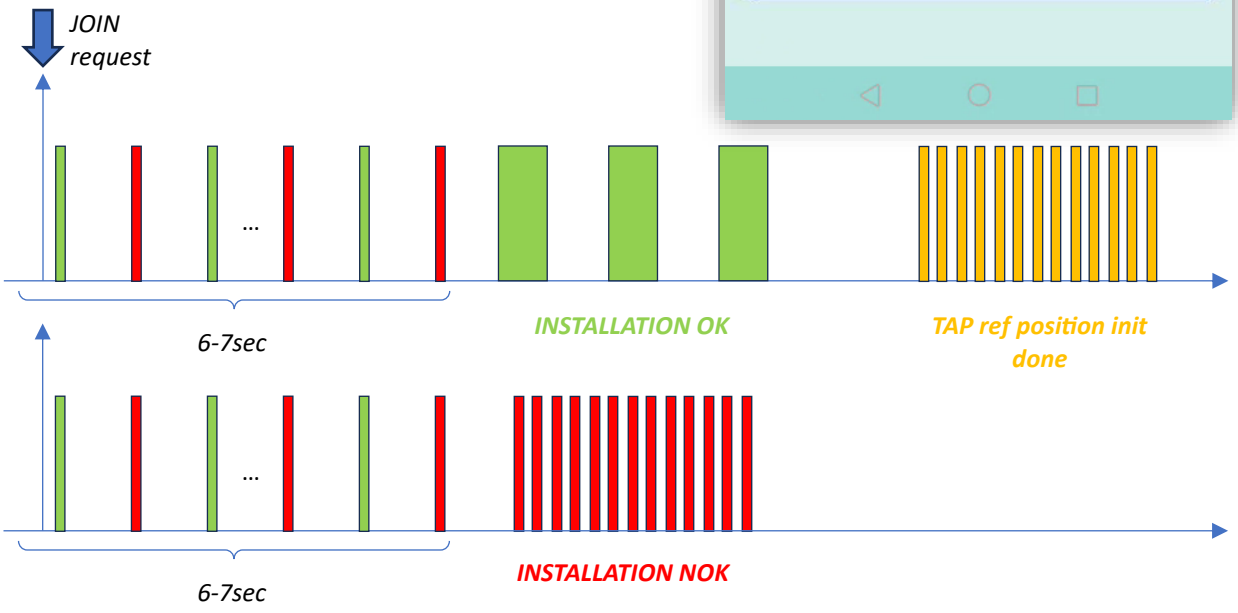
The **Factory Reset** button allows you to return the device to its default configuration.

Clicking on **Save config profile** will prompt the user to enter a file name that will contain the current device configuration profile.

Clicking on **Load config profile** will allow the user to choose a previously saved file in order to load the configuration into the device.



Reminder of JOIN OTAA sequence



3.5. Transmission setup

This page allows you to force an immediate sending (according to configuration) of a STANDRD KEEP ALIVE FRAME (Frame header 0x6D) by clicking on the **LoRaWAN** button.

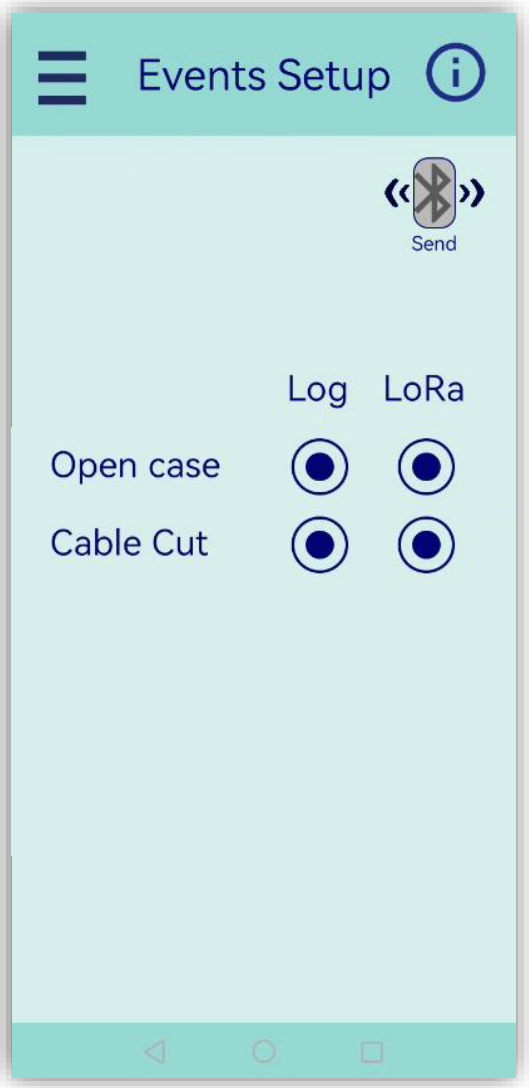
NOTE This button is only active if the device is actually JOINed.

It is also possible to choose the automatic sending periods of STANDARD KEEP ALIVE and STANDARD TECHNICAL FRAME frames with the associated drop-down lists.

ATTENTION Don't forget to click on the blue Bluetooth icon to apply the changes.

3.6. Event setup

This screen permits to view the events management, whether they are just logged or also sent by the LoRaWAN network.



NOTE Open case and Cable Cut events are not accessible because their activation is mandatory.

3.7. TAP setup

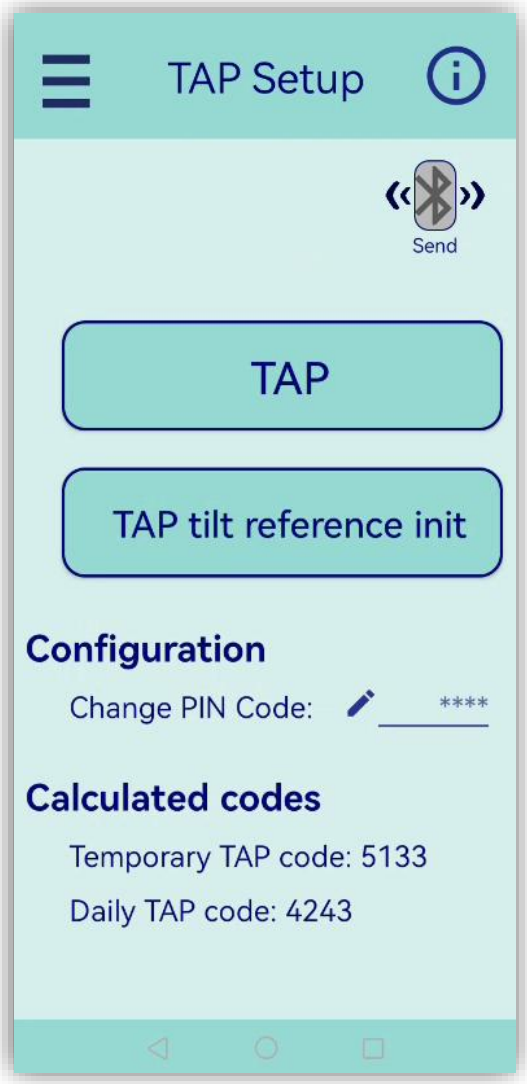
This screen allows you to enable or disable the TAP function.

The **Tap tilt reference init** button permits to initialize the tilt reference in the current position of the device.

It is also possible to modify the **PIN CODE** used by the product to calculate the TAP codes.

The **Calculated codes** are recalculated when the PIN Code is modified (based on the current date and a max digit of 1-5).

ATTENTION Don't forget to click on the blue Bluetooth icon to apply the changes.



3.8. Cable management

This page displays the Smart Cable ID.

The user also has the option to initiate a Smart Cable replacement procedure. When clicking on the **Replace Smart Cable …** button, a pop-up will appear to inform the user of the procedure to follow.