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/**
  @page Parking_Node Readme file

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*****
* @file    Parking_Node/readme.txt
* @author  @Narasing Sarwade
* @brief   This application is a parking demo based on LoRa Object connecting to
*          a LoRa Network. Parking slot status(car present/not) is sent over
networkserver.

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*
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@parking Example Description

This directory "documentation_sw_parking_project_zip_disco_l072cz_lrwan1" contains a set of source files that implements a parking projects of an end device The LoRa Object can be

- either Parking module containing Lora Radio expansion board with sensor board.
- or a B-L072Z-LRWAN1

By setting the LoRa Ids in mbed_app.json file according to the LoRa Network requirements,
the end device will send periodically the sensor data to the LoRa network.

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@parking Directory contents

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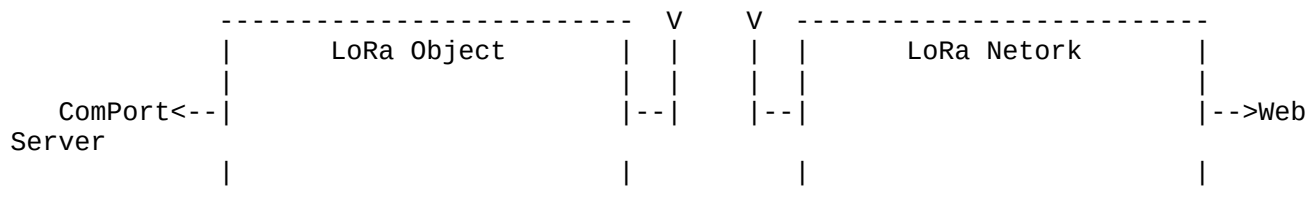
- Parking_module/config/SX127X_example_config.json
  SX1276 commissioning file
- Parking_module/mbed-lora-radio-drv/sx1276/mbed_lib.json
SPI Interface functionality
- Parking_module/mbed-lora-radio-drv/sx1276/sx1276_loradio.cpp
stack layer definations
- Parking_module/mbed-lora-radio-drv/sx1276/sx1276_loradio.h
stack layer calls
- Parking_module/CONTRIBUTING.md
  Contributing to Mbed OS
- Parking_module/DummySensor.h
  Dummy sensor
- Parking_module/lora_radio_helper.h
  Header for lora radio

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- Parking_module/main.cpp
Main program file
- Parking_module/mbed_app.json
End device commissioning parameters
- Parking_module/mbedtls_lora_config.h
Security encryption lora stack
- Parking_module/QMC5883L.cpp
QMC5883L function definitions
- Parking_module/QMC5883.h
QMC5883L function calls
- Parking_module/trace_helper.cpp
see traces from within the stack
- Parking_module/trace_helper.h
Helper function for the application to setup Mbed trace

@parking Hardware and Software environment

- This application has been tested with STMicroelectronics:
 - Parking module
 - B-L072Z-LRWAN1 RevC
boards and can be easily tailored to any other supported device and development board.
- Parking module
 - 1. Connect the battery to J3 connector to Parking module and press &release threshold button after 1 min
OR
 - 2. CONNECT 3.3V TO parking module
- BL072Z-LRWAN1 DEV board
 - Connect the dev board to your PC with a USB cable type A to mini-B
 - Please ensure that the ST-LINK connector CN2 (CN8 on B-L072Z-LRWAN1) jumpers are fitted.
- Set Up:



@parking How to use it ?

In order to make the program work, you must do the following :

- Open your preferred toolchain(mbed OS)
- Rebuild all files and load your image into target memory
- Run the example
- Open two Terminals, each connected the respective LoRa Object
- Terminal Config = 115200, 8b, 1 stop Bit, no parity, no flow control

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