

# workspace installation

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## Workspace Installation

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### For IDE Arduino

- Install the Arduino IDE.
- follow the instructions on the page <https://github.com/GrumpyOldPizza/ArduinoCore-stm32l0> to add to the list of boards designed by Kris Winer, the designer of the IoT board. Once the boards are added, the board corresponding to the IoT board in the Arduino IDE's board list is the cricket board. This is the board from which he developed the IoT board.

### For IDE Atollic True Studio

- Install Atollic True Studio for STM32
- Launch True Studio and set your workspace at the root of the repository
- *File->Open Project From File Systems...*

## Adding Symbolic Links for Windows

To allow compilation with Arduino, you must add symbolic links to the folders of our project

Download [junction](#)

No installation required, so unzip the folder, place yourself with the command prompt in the folder, and add the symbolic link as in the example:

```
junction64.exe myuserpath\Documents\Arduino\libraries mygitpath\iot-tag\iot-tag-project\libraries
```

## Arduino Libraries Management

To avoid compiling unused libraries, the libraries contained in the sub-directory */libraries/\** must be added to the compilation paths.

Change the name of the original LoRaWAN library so Arduino uses the project one.

## Start coding

- Open the **iot-tag** project in your IDE
- Open the file `/iot-tag-project/iframeSrc/src/_appDirectives.h`
- Update the following variables:
  - GNSS\_RELOAD\_TIME\_S (15)
  - SENSOR\_MSG\_PERIOD\_S (33)
  - TXPOWER 14
- Plug in the device with the given USB cable
- Choose the correct COM port
- Upload the file `/iot-tag-project/iframeSrc/iframeSrc.ino`
- Unplug / plug the device
- Open the serial monitor and start the monitoring
- Copy the device deveui to the device registration file
- Declare the device on Orange or TTN

Your device is now ready !

*Indian Ocean sea Turtle project (IOT)*  
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## Comments