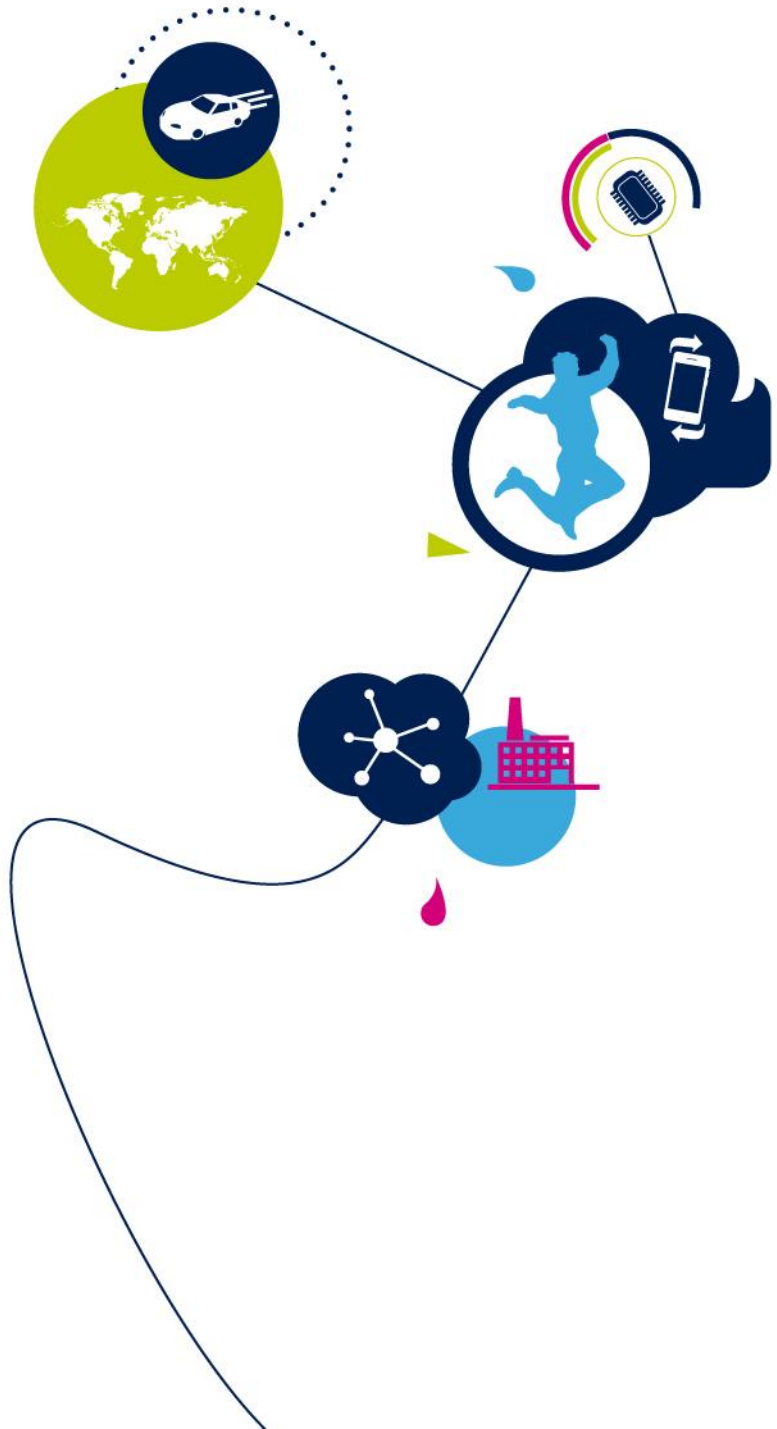
API Example Setup Guide



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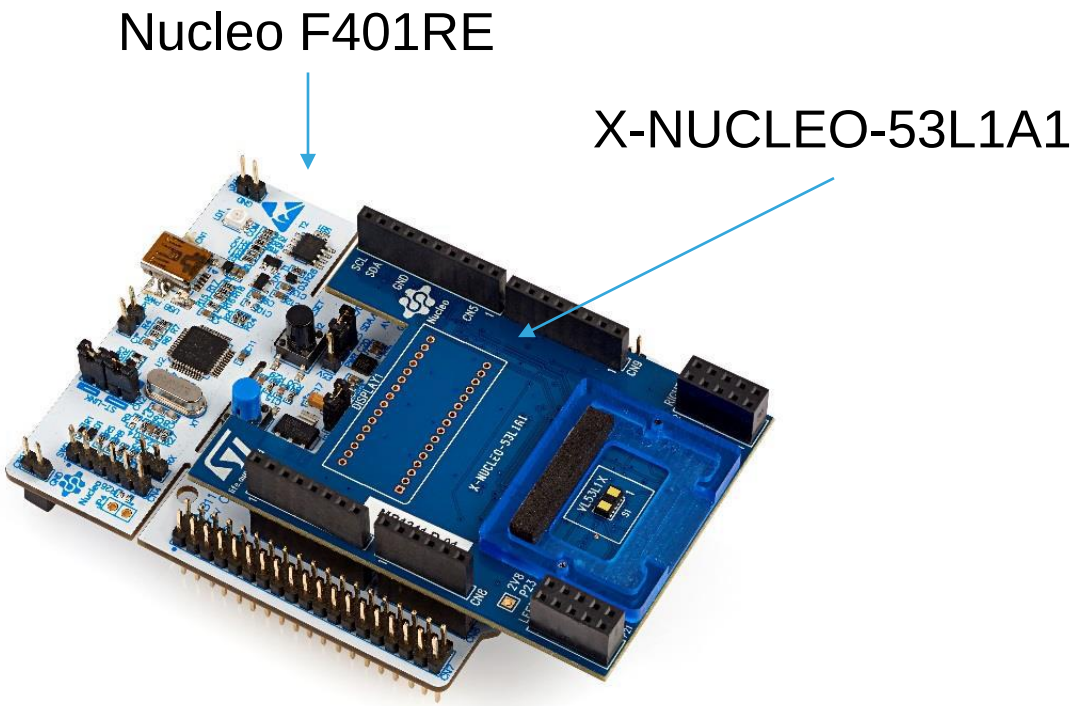
Hardware and software requirements

- Hardware requirements:
  - Nucleo F401RE
  - X-NUCLEO-53L1A1
  - Windows PC
- SW requirements
  - STSW-XXX



Example folder content

- Search for STSW-XXX on st.com, download and unzip the file in your hard drive C:\ recommended.
- Go to the “Example” folder
- The example project has been pre-compiled for IAR, KEIL and Eclipse as shown below

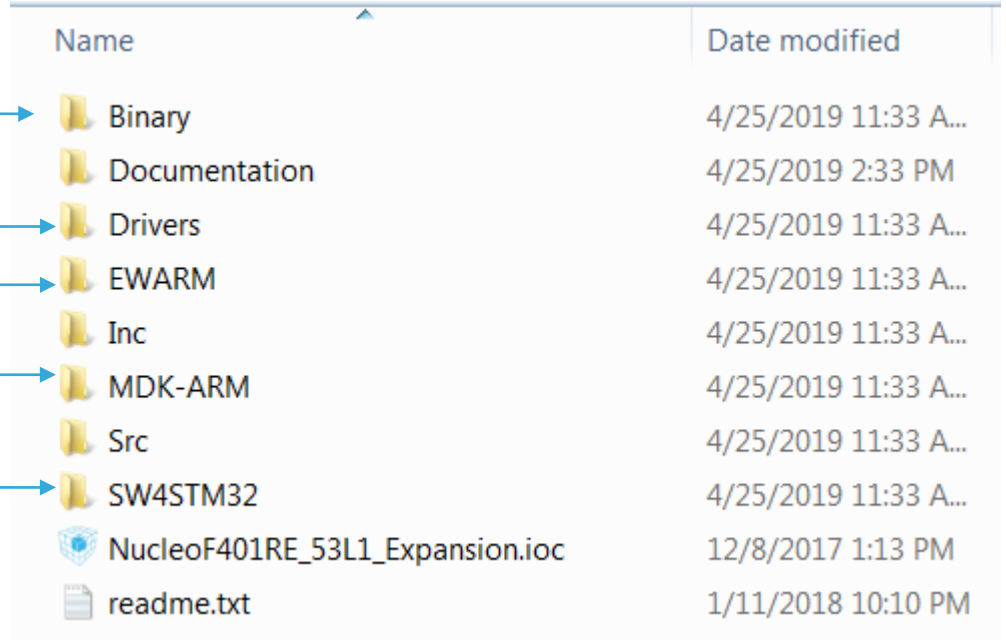
Contains binary application file

VL53L1X ULD API and other STM32 drivers

Precompiled IAR project

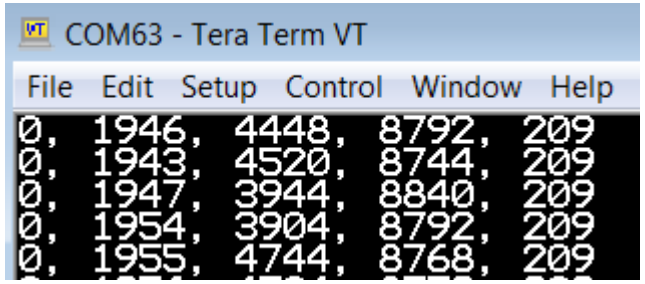
Precompiled KEIL project

Precompiled Eclipse project



Run the example

- Plug the expansion board on the F401RE Nucleo board
- Connect the F401RE Nucleo board to a PC USB port
- Flash the demo application by drag and drop the binary file located in the Binary directory, the demo will start immediately once the FW is loaded
- Open a Tera-Term to monitor the ranging data



Range status, distance in mm, return signal rate, ambient rate, number of actual active SPAD

Modifying, compiling and running the example code

- The example code is precompiled for the most popular professional IDEs

(KEIL,IAR and Eclipse)

- I suppose that you already have your favourite IDE and familiar with.