

ConfigureDevice



- perform a operation responsible for sensor configuration, which provides a simple wizard

GetPackets



- perform an operation which is responsible for downloading all new recordings from the device

DecodeDataFrame



- extract a new recording from the character stream

JSONToSensorConfig



- convert a JSON stream to SensorConfiguration data being processed by the application

DecodeNumericFrame



- extract a new decimal value from the hexadecimal character stream

SensorConfigToJSON



- convert to a JSON stream from the SensorConfiguration data processed by the application

Configuration

Measurements

Main operations

EnqueueGUIUpdate



- add new GUI operation to the queue

EnqueueGUIMultipleUpdate



- add new GUI operations to the queue

DequeueGUIUpdate



- get GUI operation and perform it as soon as possible

GUI update

ConfigureDevice



- prepare a Virtual COM port in order to establish a serial communication

GetAvailableFTDIDevices



- get available FTDI devices' names which are connected to the PC

ProcessRequest



- perform the selected operation of a serial port (e.g. transmit & receive)

Serial communication

ExportPacket



- export selected recording using a one of popular text formats (CSV, JSON)

TakeGraphsScreenshot



- save a PNG file using graphical representation of selected IMU data recordings

SavePackets



- save the current list of recordings to a binary file

LoadPackets



- load (and append if necessary) a file which consists of recordings saved in a binary format

File operations