07/04/2021 CynexoCO2.svg

Commands and Interpretation SensorParamEvent + String primary; + float min: - String line; + String sensor; + float max; + vector<pair<String, float>> params{ + float diff; - String getSensor(String& line); ---Use-> {"min", PARAM_NOT_SET}, + float time; vector<String> getParamsVals(String& line); {"max", PARAM_NOT_SET}, vector<String> tokenize(String& line); {"diff", PARAM_NOT_SET}, *{*------, {"time", PARAM_NOT_SET} + SensorParamEvent() {}; + PureCommand createCommand(String& line); + SensorParamEvent(float min, float max, float diff, float time); + void setNotify(float min, float max, float diff, float time); PureCommand addPrimary(String p); + bool checkNotify(float value, unsigned long currentTime); PureCommand addSensor(String s); This class need to read a line in input and create a PureCommand PureCommand set(String param, float value); - the goal is to try to Tokenize and crete a command even if the line float get(String param) const; is not well written This class allows to specify when to be notified using the checkNotify - the class does not know about all different sensors and parameters method and need to be specific for each sensor These are the commands supported: - get {SENSOR}; - SÈNSOR Use - temperature - humidity - set-notify {SENSOR} ({PARAMA} {VAL}, {PARAMA} {VAL},); - SENSOR: - PARAM VAL - temperature ServiceHandler - min val - BLELocalDevice& BLE; - max val - diff val time val // Services // Environmental + BLEService environmentService; // LogReport + BLEService messageService; // Characteristics // Temperature + SensorParamEvent temperatureEvent; + BLEIntCharacteristic temperatureCharacteristic; // Temperature + SensorParamEvent humidityEvent{ 20, 50, 4, 600000 }; + BLEIntCharacteristic humidityCharacteristic // LogReport + BLEStringCharacteristic logReportMessageCharacteristic // Command + BLEStringCharacteristic commandMessageCharacteristic; + float readTemperature(); + float readHumidity(); + float readCo2(); + float readNoise(); `-----Use-----+ bool writeLogReport(String message); + String readLine(); + String executePureCommand(); + String update();