EdgeX Foundry Device Working Group

ATTENDEES

Cloud Tsai (IOTech)
Felix Ting (IOTech)
Jim White (IOTech)
Lenny (Intel)
Lindsey Cheng (IOTech)
Rodney Hess (Beechwoods)

Progress

DONE

- [device-modbus-go]
  - Add support for rawType: Int32 with valueType: Float64 #493
- [device-usb-camera]
  - Implement get/set pixel format commands. #269
- Device UART v3 released and compose file added

IN PROGRESS

- C Device Services 3.0.1 patch release - release in progress
- [Device UART]
  - Add Docker Hub description #22
- Some Device Service out of data in list of Supported device services #1185

New issues

Device WG [Project Board]

Other Business

- Using EdgeX for Software Update of End devices edgexfoundry/discussions#162
  - Open device-sdk-go/#1496 to support binary data type in SET command per discussion

- New CAN device service - device service update from HCL
  - A complete library list that you use for the new CAN device service.
    - *HCL >> The major library used is the Linux socketcan. You can see the sample program using socketcan in this* link
  - Any means or test tool to test the CAN device service
    - *HCL >> We can test using virtual can interface with can-utils user-space tools in linux. Refer this* link. *Also, I have tested the same with Raspberry Pi4 with MCP2515 CAN controller. Loopback can be enabled for testing read and write.*
  - Any known issues or dependency for the CAN device service
    - *HCL >> For now, it supports standard CAN with basic functionality such as init, read and write. Other socketcan features can be added later*
  - Does the new device service already support the security enabled scenario?
    - *HCL >> I have not tested anything which involves security and docker.*
  - Any example or tutorial to add a CAN device. See the EdgeX Adding a modbus device document for example.
    - *HCL >> CAN is a multimaster bus protocol. The CAN devices in a CAN bus should not bother about the no. of end devices attached. However, every device should be configured with the filters (Msg Id). In CAN device service, we need to configure the filter whenever any new devices are added. Currently the filter is configured in configuration.toml. I will prepare a readme file for this.*

    - **Per today's WG discussion, the above information for the new CAN device service looks good and will create the holding repository for it once the code is ready.**