Overview

This Host PHDC manager example is a simple demonstration program that uses the KSDK.
The application supports USB weight scale device, it will print out the body mass and body mass index information when USB weight scale device is attached.

System Requirement

Hardware requirements

- J-Link ARM
- P&E Micro Multi-link universal
- Mini/micro USB cable
- USB A to micro AB cable
- Hardware (tower/base board, ...) for specific device
- Personal Computer

Software requirements

- The project files are in:
  <SDK_Install>/boards/<board>/usb/usb_host_phdc_manager/<RTOS>/<toolchain>.

  Note
  > The RTOS is BM ,FreeRTOS.

- Terminal tool.

Getting Started

Hardware Settings

For detailed instructions, see the appropriate board User's Guide.

- The Jumper settingsn JP12 connected .

Prepare the example

1. Download the program to the target board.
2. Power off the target board and then power on again.
3. Connect a USB weight scale device to the board.

Run the example

1. Connect board UART to PC and open the COM port in a terminal tool.

2. Plug in hub or USB weight scale device to the board that is running the PHDC manager example, the attached information prints out in the terminal.
3. The weight scale data(body mass and body mass index) will automatic send to host. You can see information of scan report number, time, value and unit of each field in terminal tool.

The follow picture is an example for attaching one USB weight scale device.

```
File  Edit  Setup  Control  Window  Help
host init done
phdc device attached:pid=0x400vid=0x15a2 address=1
phdc device attached

11073Manager: Enter Connected Unassociated state
11073Manager: Received Association request.
11073Manager: Enter Associated Configuring Waiting state
11073Manager: Received a configuration event report.
11073Manager: ------------------------------------------------
11073Manager: Configuration Report Id: 16384.
11073Manager: Number of configuration Objects: 3.
11073Manager:    > Object Handle 1: Class = 6   Num Attributes = 4.
11073Manager:    > > Attribute0: Id = ID type
11073Manager:    > > Attribute1: Id = Small metric specification
11073Manager:    > > Attribute2: Id = Unit code
11073Manager:    > > Attribute3: Id = Value map
11073Manager:    > Object Handle 2: Class = 6   Num Attributes = 4.
11073Manager:    > > Attribute0: Id = ID type
11073Manager:    > > Attribute1: Id = Small metric specification
11073Manager:    > > Attribute2: Id = Unit code
11073Manager:    > > Attribute3: Id = Value map
11073Manager:    > Object Handle 3: Class = 6   Num Attributes = 5.
11073Manager:    > > Attribute0: Id = ID type
11073Manager:    > > Attribute1: Id = Small metric specification
11073Manager:    > > Attribute2: Id = Unit code
11073Manager:    > > Attribute3: Id = 2631
11073Manager:    > > Attribute4: Id = Value map
11073Manager: Enter Associated Configuring Checking state
11073Manager: Enter Associated Operating state
11073Manager: Received a RORS_CMIP_GET_CHOSEN.
11073Manager: ------------------------------------------------
11073Manager: Number of attributes = 6
11073Manager: Type = Scale, Version = 1
11073Manager: Model: Freescale WeightScale
11073Manager: Received a MDC Noti Scan Report Fixed event.
11073Manager: ------------------------------------------------
11073Manager: Scan Report Number: 0  Number Observations: 4
11073Manager: Object Type : Body Weight, Partition: SCADA
11073Manager: Observation Value = 28.100000 kg
11073Manager: Absolute Time Stamp = 2007-12-06  12:10:01
11073Manager: Object Type : BMI, Partition: SCADA
11073Manager: Observation Value = 28.100000 kg/m2
11073Manager: Absolute Time Stamp = 2007-12-06  12:10:01
11073Manager: Object Type : Body Weight, Partition: SCADA
11073Manager: Observation Value = 76.300003 kg
11073Manager: Absolute Time Stamp = 2007-12-06  20:05:01
11073Manager: Object Type : BMI, Partition: SCADA
11073Manager: Observation Value = 24.400000 kg/m2
11073Manager: Absolute Time Stamp = 2007-12-06  20:05:01
11073Manager: ------------------------------------------------
11073Manager: Send back MDC Noti Scan Fixed response.
11073Manager: Received a MDC Noti Scan Report Fixed event.
11073Manager: ------------------------------------------------
11073Manager: Scan Report Number: 1  Number Observations: 4
11073Manager: Object Type : Body Weight, Partition: SCADA
11073Manager: Observation Value = 28.200001 kg
11073Manager: Absolute Time Stamp = 2007-12-06  12:10:02
11073Manager: Object Type : BMI, Partition: SCADA
11073Manager: Observation Value = 28.200001 kg/m2
```