### Core Working Group Meeting Notes (14-Mar-2019)

#### Attendees:

<table>
<thead>
<tr>
<th>Avatar</th>
<th>Name</th>
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<tbody>
<tr>
<td>TC</td>
<td>Trevor Conn (Host, me)</td>
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<tr>
<td>MH</td>
<td>Michael Hall (LF)</td>
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<tr>
<td>RH</td>
<td>Rodney Hess</td>
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<tr>
<td>AG</td>
<td>Ankur Gargi</td>
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<td>EC</td>
<td>Eric Cotter</td>
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<td>JW</td>
<td>Jim Wang</td>
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<td>JW</td>
<td>Jim White</td>
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<td>LG</td>
<td>Lenny Goodell (Intel)</td>
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<td>M</td>
<td>Mike</td>
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<td>TM</td>
<td>Tobias Mosby (Intel)</td>
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<td>t</td>
<td>tonyespy</td>
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<td>WM</td>
<td>Walt Morton - Intel</td>
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Old Business

- Intel -- Meeting scheduled last week w/Microsoft RE: Go plugins support for Windows
  - *How did it go?*
  - *It was rescheduled. Still pending.*
- Operating State Unmarshalling Follow-up
  - *Try OperatingState as pointer on ProvisionWatcher, does that trigger Unmarshal when not specified in the request?*
  - *Investigate tags which could be opposite of omitempty and require the field on the request*
    - *This might not prevent a request created by hand*

New Business

- Metadata/Scheduler removal complete
  - *Changes have been merged to Redis feature branch*
  - *Redis still needs implementation for new support-scheduler service*
- CBOR Review
  - *Targeting this for Edinburgh scope since date was moved*
  - Toby @ Intel has additional materials
  - *Integration coordination*
    - *Direct communication between Trevor (core) → Toby (device) → Lenny (app_func)*
    - *Create issues, assign*
    - *Create Kanban project in each repo and then add the issue to the project*
  - Last week’s preliminary assignment of tasks below
    - *Side note – Resources for implementation from Mainflux for App Functions SDK starting April 8th*
    - *Task list*
      - #2 Extend reading with new value descriptor for binary content (byte array) – core contracts (Trevor – Core WG)
        - *Review modifying PropertyValue and ValueDescriptor*
o Implement ability to call AddEvent and receive “not implemented” error while Device Services development is starting.

o Trevor To Do
  ▪ Readings/value descriptor mods
    ■ Value descriptor
      o type=”binary”
      o “mime” describes the content of the blob (pic, audio, video)
    ■ Add Blob property to Reading
      ▪ HTTP header via Context (?)
      ▪ Detect header in core-data and return “Not Implemented” status
  ▪ #1 Ingestion of binary data, create event containing the above reading, POST to core-data using CBOR content-type header (device-sdk Tobias @ Intel)
    o Is this universal to all protocol specific services?
    o Resolve designation of a reading as CBOR in follow up Device Services Meeting
      ▪ In order to know when to encode for CBOR if event includes non zero length byte array, then send event as CBOR.
      ▪ Possibly allow for this to be a toggle for flexibility, also possibly format of encoding.
    o Which specific protocol device service?
      ▪ Possibly device-camera-go in holding
      ▪ Possibly device-mqtt-go
  ▪ #3 Receive event with CBOR content-type (core-data/AddEvent). Trevor & Core WG
    o Convert to JSON to persist event without actual byte array content due to size constraints
    o Publish event as CBOR through Messaging interface
When sending to app-functions, will need to provide content-type as “application-type/cbor”. Body of published message is a byte[]

- #4 Receive event from Messaging as CBOR payload (export-distro) Trevor & Core WG
  - Publish event to relevant clients with content-type header where appropriate
- #5 Integrate above Messaging with app-functions-sdk (Lenny / Mike @ Intel)

New Business – Add agenda item for documentation gap assessment and task assignment next week