### Core Working Group Meeting Notes (18-Apr-2019)

**Attendees:**

<table>
<thead>
<tr>
<th>Participant</th>
<th>Name</th>
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<tr>
<td>TC</td>
<td>Trevor Conn (Host, me)</td>
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<tr>
<td>RH</td>
<td>Rodney Hess</td>
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<tr>
<td>AS</td>
<td>André Srinivasan</td>
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<td>AB</td>
<td>Anthony Bonafide</td>
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<td>Brandon Forster</td>
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<td>DA</td>
<td>Diana Atanasova</td>
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<td>EC</td>
<td>Eric Cotter</td>
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<td>i</td>
<td>ijohnson</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>Malini Bhandaru</td>
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<td>Michael Estrin</td>
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<td>M</td>
<td>Mike</td>
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<td>TM</td>
<td>Toby Mosby (Intel)</td>
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<td>tonyespy</td>
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Old Business

- Call for Fuji F2F topics (*Reminder*)
  - Currently proposed
    - High Availability
      - 12 factor apps
      - Service Orchestration
        - Registration/deregistration
        - When and when not to use SMA
    - Instrumentation
      - We have correlation ID tracking in our logs, but what’s next?
      - Reporting capabilities as determined by deployment footprint
    - Architecture Principles
      - Explicit discussion of architectural guidelines to move toward
      - Assembly of resources to support guidelines and educate new team members
    - Persistence implementations
      - Decouple from mono-repo? How to do this?
      - *Added topic RE: data lifetimes (core-data vs. core-metadata)*
    - Store and forward capabilities??
      - Collecting events at the edge, connectivity is lost. When restored, push everything stored in the meantime.
  - Correlation logging is giving Tony heartburn (*DONE*)
    - Agreed to change correlation logging level from Info to Trace for the time being
    - PR #1250 should be merged by the time of this meeting
  - Core-command PUTs
    - OperatingState / AdminState
    - Add issues to convert these endpoints to correct REST PUT requests.
  - Redis (Andre)
    - PR submitted for notifications
    - Needs to address merge issue from Ian Johnson
Hopefully can get this one in and then address separate issues subsequently.

New Business

- **CBOR**
  - Review input from Anthony on ingestion from core-data RE: no event ID (issue #1216)
    - See design docs from last year on concurrent approach
  - Will app-functions be updating the timestamp in the same manner as export-distro?
  - Yes, the idea is that we would continue to update the MarkPushed in core-data
  - What’s the cost of re-encoding
    - Discussed benchmarking with binary payloads of 1MB
    - Time / memory cost
    - Anthony to work on this benchmarking harness
  - Also discussed adding the Event ID after persistence to the message envelope
  - Also discussed publishing the JSON event as well with Event ID utilized for MarkPushed call

- Update on removal of DeviceProfile from Device (core-contracts issue #27)
  - Core-contracts issue #68
  - Edgex-go issue #1254

- Core-command part deux
  - When device profile is added, we save the associated CoreCommands in a separate collection
    - See mongo/metadata.go::AddDeviceProfile()
    - These commands are never updated if the profile changes
    - The commands are not associated directly to their parent device
    - The commands aren’t updated when a device profile changes
    - The commands can only be updated by a 3rd party via a direct PUT to core-metadata/api/v1/command
      - What service does this?
  - If we were to address the following
    - Add device linkage to the CoreCommands saved in this separate collection
- Facilitate their being kept in sync internal to core services when device profile change occurs
  - Then we could
    - Allow the core-command service to lookup all commands for a given device
    - This would eliminate the current path to call core-command which calls core-metadata
      - Core-metadata returns the large Device document from which commands must be parsed and returned to caller.
    - Remember the discussion from last week about giving core-command its own DBClient...?
  - *Had to cover this quickly due to time constraints. There were no objections.*