Attendees:

Old Business

<table>
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<tr>
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<th>Closed Issues</th>
<th>Working Issues</th>
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<tr>
<td>edgex-go</td>
<td>2602, 2604, 2607, 2526</td>
<td>2596 (PR needs review), 1699, 2609</td>
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<tr>
<td>contracts mod</td>
<td>235, 245</td>
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<td>bootstrap mod</td>
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- API V2
  - PR 236 - merged!!
  - Event handler / controller PR
    - [https://github.com/edgexfoundry/edgex-go/pull/2610](https://github.com/edgexfoundry/edgex-go/pull/2610)
    - Now ready for review
  - Parallel work on Metadata DTO will begin
    - Discussion on device name/id inclusion: PR coming that will contain suggested approach - sticking to swagger file and internal model with have both name and id, but the DTO will have name (Cloud)
  - Event model and request API - should have device id or name
    - Discussion: This is more of a generic issue - reference to other objects in system; not just events
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(plus system management and UI)

- Both API and model will implement everything by name (Cloud)
- Remove all by id Gets - until use case shows need (Cloud)
- Swagger V2 will reflect these decisions (Cloud)
- Put this decision in the release notes (Jim)

- Created timestamp issue (issue #2602)
  - PR 2605 fixes this (needs approval/merge)
    - Lenny not crazy about the fix
    - Set the timestamp early before persisted (not requiring query for the object)
    - Cloud and team have addressed Lenny’s concerns and it needs re-review (Lenny)
    - Documentation on origin vs created timestamp (Jim to find doc and send to Rodney)
    - Submit issue in edgex-docs to make sure the differences between these timestamps is documented somewhere (Rodney)
  - Not planning a bug fix release just for this.

New Business

- Snap bug - on ListenAndServe #2611
  - Change in 1.2.1 - side effect on snap
  - Need patch for Snaps - using the previous version of go-mod-bootstrap in edgex-go
    - Hanoi fix is to have an interface/config var (in the backlog)

Ran out of time - cover these in the next meeting. Jim asked all to review.

CLI Direction

- Recommend moving out of holding
- Most of the bugs have been fixed (ones that provide required functionality)
- I think it would help certain user groups (adding it to some of the documentation would be helpful)
- We are getting some requests by adopting groups
- Making it more prominent can help in adoption and feature understanding
- VMWare (Malini and Diana) have stepped up to make it work and make it useful and have shown commitment to see it used

UI Direction

- UI Today
  - Display device services, devices, device profiles
  - Upload/remove device profile
  - Add, edit, remove device
  - Display schedule intervals and interval actions
  - Add, edit, delete interval and interval actions
  - Display notifications, transmissions
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- Display subscriptions
- Add and remove subscriptions

- Coming (Hanoi)
  - Manage app services (add functions, see data temporarily, etc)
  - Manage Kuiper rules

- User Interface - beyond Hanoi
  - Clean up notifications/transmissions
  - Core data visualization/graphing - using core data APIs
    - Integrate with a data visualization tool?? Like Graphana?
    - Deal with binary data at all??
  - Metrics data visualization/data display
    - CPU, memory today
  - See config? Configuration update? With appropriate service start if necessary? Admin functions? Start/stop/restart services?

Kubernetes Direction (release target is just a suggested goal)
- Crawl (Hanoi or Ireland): Have an example deployment.yml and service.yml for deploying a single instance of EdgeX (minus device services) to a pod. With Redis, minus security.
  - Include example of how to setup device-virtual to send data to K8s instance
  - Document/demonstrate/provide example of setting up in K3s
  - Document what would not work in this environment
- Walk (Ireland): Include security
- Jog (Ireland or Jakarta): Helm charts & / or Operators
- Run (Jakarta or Kamakura): start addressing HA concerns in EdgeX