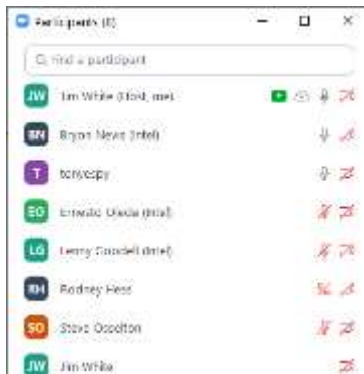


Architect's meeting, November 30, noon CDT

Attendance:



Some attendees may have joined after the call started when this record was captured.

Topics

Old Business/On hold Pending Additional Work/Research/etc.

- How should we apply semantic versioning to modules? When do we update the minor and major versions of modules?
 - Decision was to release (and tag) them with each EdgeX release (major)
 - Enforce backward compatibility within a major release
 - History – Kuiper is using it; external users need to know which module version to use? Or just incrementing the version – is that good enough?
 - Decision: tag ‘em with the release number that they go with. We have the ability to retroactively tag (just a pointer to a release tag that exists out there – a “vanity” tag – align the vanity tag to the release of edgex-go).
 - Under the direction of the Release Czar as part of the release process.
 - Update the readme to indicate which modules go with which EdgeX releases
 - Bug found in the module means we do a bug release for that module (branch if changes have already been made to master for the next release – just like we do for services).
 - DevOps to make some changes CI/CD processes – go-mod Pipelines to not update on patch. (Ernesto)
 - Update ADR 10 to reflect this decision (Bill)
- How do we review/remove artifact removal (docker images in Docker Hub, snaps, etc.)?
 - This issue was decided at the Ireland planning meeting. For now, no images will be removed/archived. This issue is considered closed for now.
- Is order of event/readings being sent by a single device service important? Are there async operations in any service that could change the order of events as they are sent from a DS to core to application services (with REST, 0MQ or MQTT)

infrastructure)? What do customers desire here? Is maintained order important? What is the current state of the system and can we diagram/document that?

- This issue was also closed at the Ireland planning meeting. Adopters recognized the microservice architecture may result in messages out of order.

New

During the meeting of 11/30/20, these issues from the Ireland planning meeting were decided.

- Docker image naming - resolve naming standard we want
 - Drop “go” suffix and “docker” prefix??
 - Decision: drop docker and go and c in names.
- What version of Alpine for Docker images (make them consistent?)
 - Version 3.12 is the latest; stable for about 6 months
 - Decision to move to 3.12 (in second stage from in Dockerfile)
 - For build stage, we will use Go 1.15 with 3.12 Alpine where applicable (for Go services)
 - What about other Dockerfile consistency issues (for best practices) – such as use of apk to install?
 - Hadolint for Dockerfile best practices – to be researched by DevOps
 - To be handled via DevOps (or others) as separate PR process

These issues were not decided, but a priority was set on each to order discussion for future meetings.

- Core/High - Ensure that service location data is pulled from trusted source (i.e. not Consul) (Tony's ADR)
- High - V2 API - should we add security foundation added to that (per some of earlier V2 API designs via Dell and Bryon N)?
 - Adding token to authenticate a micro service call (is this in scope for Ireland)
 - May not be needed unless all services are distributed
 - We need to explore alternatives to provide secure / locked out service to service communications
- High - How to handle binary data in V2
 - Is CBOR still the right way?
 - Simplicity versus performance
 - We should have new requirements/use cases to change this
 - Jim to find the objectors to CBOR before we cover and get any suggestions/requirements for non-CBOR
- Med - Address how to get device resource info (for app services and Kuiper)
 - Probably not ADR worthy
 - Either provide Lenny's convenience APIs or tool to dig out the device resource information in the (cached) profiles
 - How/when to invalidate the cache if we use the profile-digging approach
- Med - Keep commit history from beginning to end (don't squash them until PR approved)
- Med - Standardizing units of measure
- Med - Declarative Kong applicability
 - Allowing us to drop Progress DB

- But can you configure groups/users ACL
 - Only supports JWT users
- **Low** - Is the Wiki the best place to document project decisions (those outside of or smaller than ADRs). This was our initial take. Should we revisit?
- **Low (must be done before V2 is done)** - Naming scheme changes for config.Clients (key name change)
 - Use consistent name that all other services use for core data
 - Consistency in the naming vs changing all the names to use service name as part of key
 - Related to system management hard coded list of services.
 - **Separate issue in arch meeting – high once report back**
 - **Other naming issues (secret store vs secret service)**
 - **Opportunity to make all config/naming consistent**
 - **Jim** take resp – get WG leads – try to prioritize this survey
- **Low** - Revisit combine core services at least at all executables in one image
 - Release would be easier but image would be bigger with more complex compose files
- **Low** - Digital twin (and LWM2M) applicability
- **Low** - Time series database support and applicability
 - **Ian Johnson has an example of app service to InfluxDB export (snap in the store)**