

Jakarta Planning Meetings (Jun 21-25)

Day 4 Notes/Action Items

Action items in *red*

Ireland Release Update

- 30 failures; think these are due to the go-mod-messaging issue. Will have better results tomorrow after PRs for below are through.
- Go mods to be tagged today.
- New issues that need to be addressed
 - <https://github.com/edgexfoundry/device-sdk-go/issues/980>
 - Needs to be closed since it was addressed in core contracts.
 - <https://github.com/edgexfoundry/go-mod-core-contracts/issues/638>
 - Fixed
- CoAP service and devops
 - Completed by Iain
- GUI team has reduced NPM audit issues considerably.
 - Documented other needs. Now ready for release.
- Changelogs completed for go-mods and edgex-go. Still needed for SDKs and services.
- Snap PRs in flight – ETA Monday (edgex-go, app-service-configurable, device services)

Scoping discussion covered in scope slide deck

Architectural Issues

- **On Metrics and UoM ADRs:**
 - Need to finalize these ADRs in this Jakarta release
 - If there are any parts we are comfortable with implementing for Jakarta we do so (with sensitivity to stability and backward compatibility)
 - Full implementation in Kamakura or later
- **Kong on all the time**
 - Benefits would be to delete a lot of test code and tests to deal with secure and non-secure modes and make it easier for end user scripting.
 - Added benefit of simplicity to user – only one URL to have to use per API – regardless of secure or non-secure mode
 - Decision: not implement Kong-on-all-the-time for Jakarta
 - Kong image is large
 - In Jakarta and through Kamakura:
 - First, have the QA team get performance numbers on current Kong use
 - How big is the image (including PostgreSQL)?
 - How much memory and CPU does it use?
 - Second research on use of Declarative Kong – how does it work, is it a drop-in replacement, etc.
 - Have QA team get performance numbers on Declarative Kong use
 - Compare Kong with Declarative Kong

- Third – research the work required to move from Kong to Declarative Kong if the performance numbers indicate this is a good idea.
 - Work to rewrite proxy setup and other setup of services/processes
 - Target is to have the research done by Kamakura planning meeting in this fall.
- **Declarative Kong**
 - Allows us to drop PostgreSQL DB
 - Can configure groups/user ACL
 - Only supports JWT users
 - See above for decision
- **Distributed Services**
 - Agreement on the part of the community to support distributed services in EdgeX and support in secure mode.
 - The thought is that Device services, App Services and analytics are more likely to be distributed than other services.
 - Issue to which the community did not come to agreement at this time is how to support.
 - What is our dependence on orchestration to support security elements in distributed mode?
 - What underlying infrastructure do we want to use (Kubernetes, Swarm, etc.) to help facilitate this?
 - We support docker containers, should we at least have something that works in Kubernetes orchestration?
 - Should we say use Snaps for native deployments and Kubernetes for distributed/containerized deployments?
- **SDO/Fido integration**
 - Task for Jim to follow up with SDO team and Joe Pearson (ORRA and Open Horizon). What would EdgeX integration mean and what benefit?
- **EdgeX 3.0 - what would it look like?**
 - Distributed and/or HA services?
 - Secure micro service communications?
 - Incorporate secure device onboarding?
 - To fuzzy at this time to know
- **Get rid of ZMQ**
 - Decision: yes – after Jakarta
 - Deprecate in Jakarta
 - Should be a small effort to get rid of the ZMQ code
 - Will make install and development easier on some platforms (Windows especially)
- **Get rid of YAML?**
 - Mixed review from community on YAML (some like it, some prefer JSON).
 - Only place it is used is in device and device profiles today.
 - Stretch goal for Jakarta – add alternate JSON device and device profile files in addition to YAML.
- **Message bus between app services and command and device services (north to south)**
 - Decision: Should be a focus feature of Kamakura.

- Elimination of ZMQ will make it easier.
- ***Architecture decisions (small to large) – what’s the best place to track them and announce them***
 - Small ones are getting lost in meeting notes
 - Jim to research what other projects are doing and how they handle this and work it through the architect’s meetings.
 - Mike J suggested looking at:
<https://github.com/kubernetes/community/blob/master/sig-architecture/README.md>

Unconference Presentations

- IOTech Systems on its new Edge Builder product. Slides available in the wiki.

Lessons Learned from this Planning Meeting

- Don’t overlap with freeze/release weeks
- Meeting times feel right (alternating 9-1pm and noon-3pm CDT)