



Conference Agenda

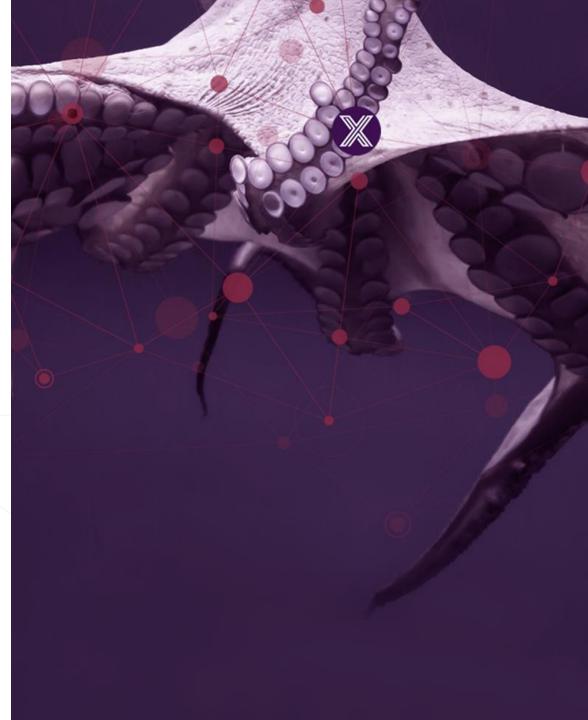
- May 16, Monday, 7am
 - Business Topics
 - Architectural Tee-up
- May 17, Tuesday, 9am
 - Cadence & Process
 - Architectural issues
- May 18, Wednesday, 7am
 - Levski Scoping
- May 19, Thursday, 9am
 - Finish scoping and architectural issues
 - Kamakura lessons learned
 - Future planning meetings
 - Long term road mapping





Intros

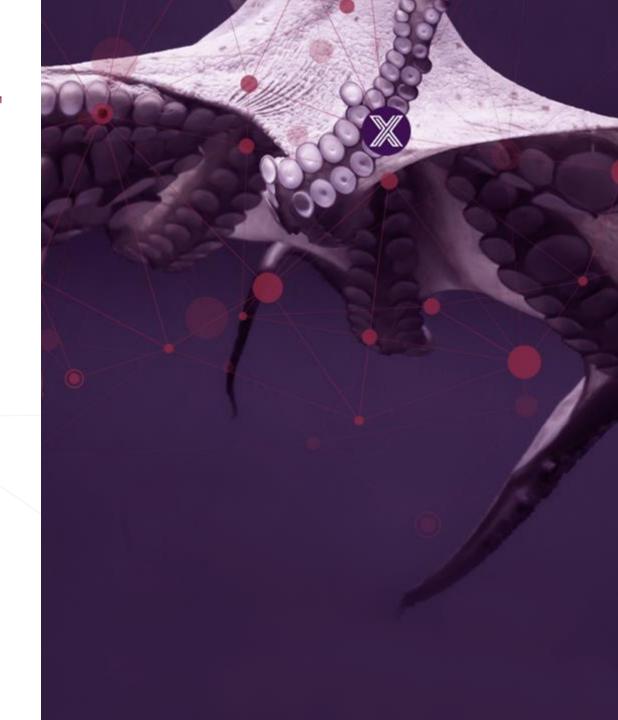
Name, rank, serial number please



EDGE FOUNDRY

Day 1

May 16





Conference Agenda – Day 1

- May 16, Monday (all times in PDT; all times tentative and fluid)
- 7am PDT Introductions & Logistics
- 7:15am Kamakura release (unfinished business, issues, etc.)
 - TBD
- 8:00am Levski release
- 8:30am Business Topics
- 9:00am Architecture topic tee-up
- 10am day 1 adjourn





Kamakura Release

- Still be done
 - C SDK
 - C Device Services
 - Examples
 - Docs
- Issues/Concerns
 - None



Jakarta LTS Release

- Version 2.1.1
- Jun 8 target
- See board for what's in https://github.com/orgs/edgexfoundry/projects/47



EdgeX Project Boards

- Time for all to transition to Levski By May ??
 - Remove the Dones
 - Clean out In progress, QA Review, etc.
 - Move appropriate Icebox items back to the Backlog (leave issues not going) to be addressed in the Icebox)
- Start a new Levski Documentation updates (or rename Kamakura)
- Do we want to explore the new style of boards
 - Multi-view
 - More customizations
 - Better issue repository access



Manual Testing To Do

Test	Owner/Actions
Test any configuration not already handled by new TAF tests	
Test reboot of the system. Make sure EdgeX can come back up	
Test device services (with real hardware where possible)	
Working with service authors to identify minimal tests	
Test different combinations/permutations of app functions in app services	
Test on Windows	
Test running with multiple services of same type (device service and app services)	



Levksi Release

- Version 2.3?
 - Must still be backward compatible
 - Can add, but not remove deprecated items yet
 - Not LTS, but must consider we have LTS now on the books
- Major additions under consideration
 - Unit of measure implementation
 - More metrics
 - North to south message bus implementation
 - CPE implementation
 - Core Data Cache implementation (under consideration)
 - DS Filtering (under consideration)
 - Record and replay DS (under consideration)





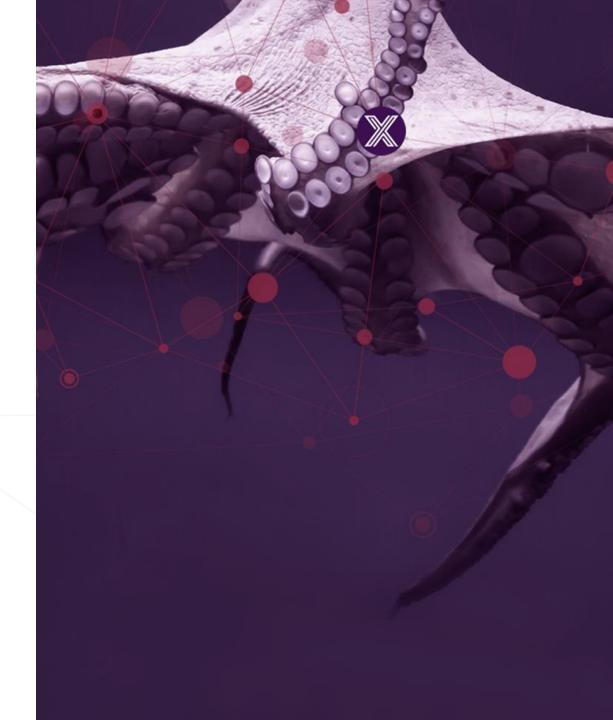
Business Topic Agenda

- Web Site (Andy/Gavin & Melvin on China site)
 - Current stats and status
 - Any planned improvements or changes
 - Security issues
- Developer Evangelism (Jim)
 - EdgeX Ready (Rodney)
 - Tech Talks
 - Hackathon
 - Return to events in 2022 (Fall?)
- Do we still need an Outreach WG (and TSC voting position)?



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Architecture Tee Up





Levski Major Themes and Objectives

- Dot release
- Major additions under consideration
 - Unit of measure implementation
 - More metrics
 - North to south message bus implementation
 - CPE implementation
 - Core Data Cache implementation (under consideration)
 - DS Filtering (under consideration)
 - Record and replay DS (under consideration)



Scoping

- Categories used in our pre-wire
 - In scope
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 - Not being discussed in this meeting



Architect's Topics list

- In scope
 - ADR process improvements (will be covered separately)
 - Additional Metrics collection
 - · What's telemetry is collected outside of core data
 - Last Connected/Last Reported
 - · Possibly some other technical debt in Profile/DS/Device area
 - GUI and calls to SMA
- Under Consideration
 - How can we reduce the build times (especially for ARM)
 - Securing the MQTT message bus communications
 - · Mostly for internal
 - ADR for global configuration
 - An EdgeX 3.0 topic but an ADR is needed sooner versus later because this could be hard to solve
 - Bring your own Vault
 - ADR for URI reference to point to config/profile/etc.
 - Device Discovery
 - Protocol specific today
 - Need additional hooks to facilitate secure device onboarding?

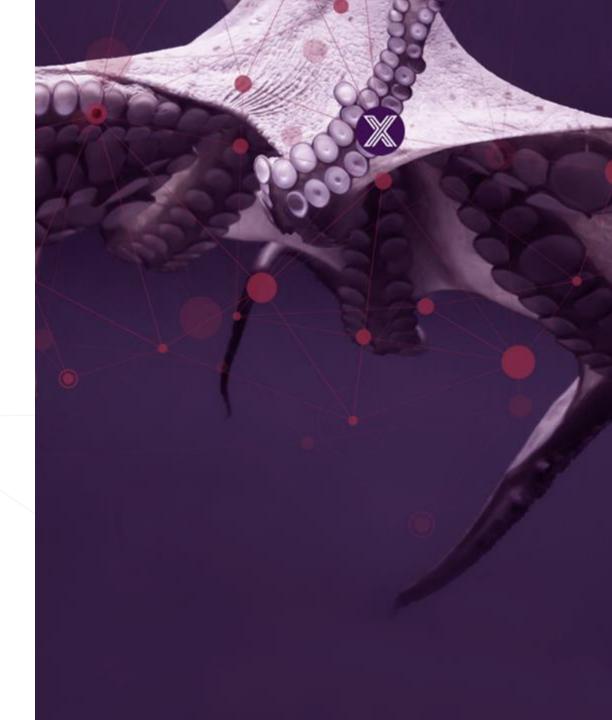
- On the fence
 - NATs implementation of go-mod-messaging
 - I18N/L10N support
 - Allow profile, service, device resource names, etc to use other character sets
 - Ziti for service-service communications



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Day 2

May 17





Conference Agenda – Day 2

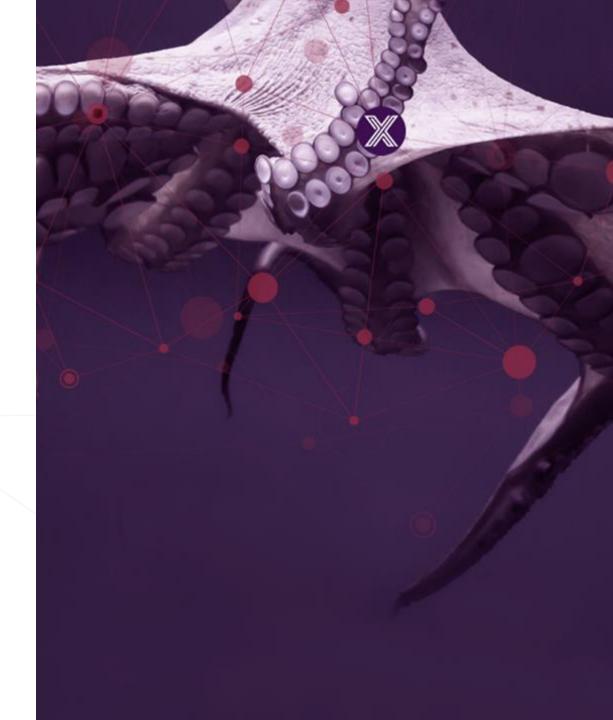
- May 17, Tuesday (all times in PDT; all times tentative and fluid)
- 9am PDT Meeting Start
- 9:15am Release cadence check & release naming
- 9: 45am Process improvements
- 10:30am Architecture topics discussion and decisions
 - Topics relevant to upcoming release having priority, discussion of architectural design - with goal of making decisions that are particularly relevant and impactful to upcoming release
- With any remaining time, we will start to explore Levski scope
- 12pm day 2 adjourn



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2022 EdgeX Awards

Presented by Kendall W.P.





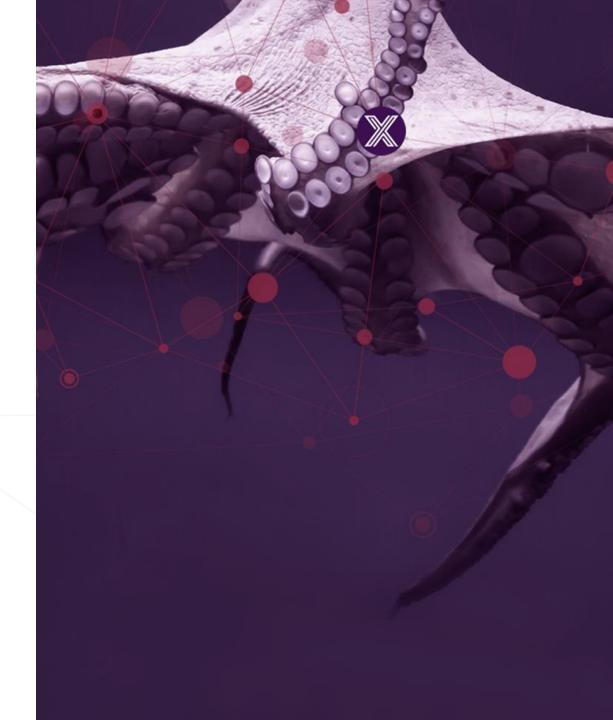
EdgeX Awards

Innovation Award Winners

Contribution Award Winners

EDGE X FOUNDRY

Cadence & Release Naming





Cadence Check

- April & Oct/Nov remain target release months
 - Kamakura release May 2022
 - Levski release Nov 2022
 - Minnesota release May 2023
 - Napa release Nov 2023
- Venue for next F2F Meeting (Nov 2022)
 - With travel restrictions lifted everyone in favor or a F2F
 - Volunteers, suggestions on where to hold this meeting?
- Conferences marketing committee update
 - Target events to return to and when





Release Detail Timing

- Given circumstances of the last few releases, we have been flexible
 - Should we try to standardize the release timeline a bit for everyone's expectations and planning?
- Formalizing this for future releases (<u>Proposed</u>)
 - Release date selected (attempt to select 2 months in advance of release)
 - Wednesday / mid week target
 - September for fall
 - March for spring
 - Freeze date selected off the release date
 - · Wednesday target to match release date
 - 3 weeks prior for substantial major release or LTS
 - 2 weeks prior for minor release
 - Planning meeting
 - Monday Thursday virtual or Tuesday/Wednesday when in person
 - 2.5 weeks prior to a major or LTS release
 - 1.5 weeks prior to a minor release
 - Pre-wire meeting
 - Wednesday or Thursday prior to the Freeze date





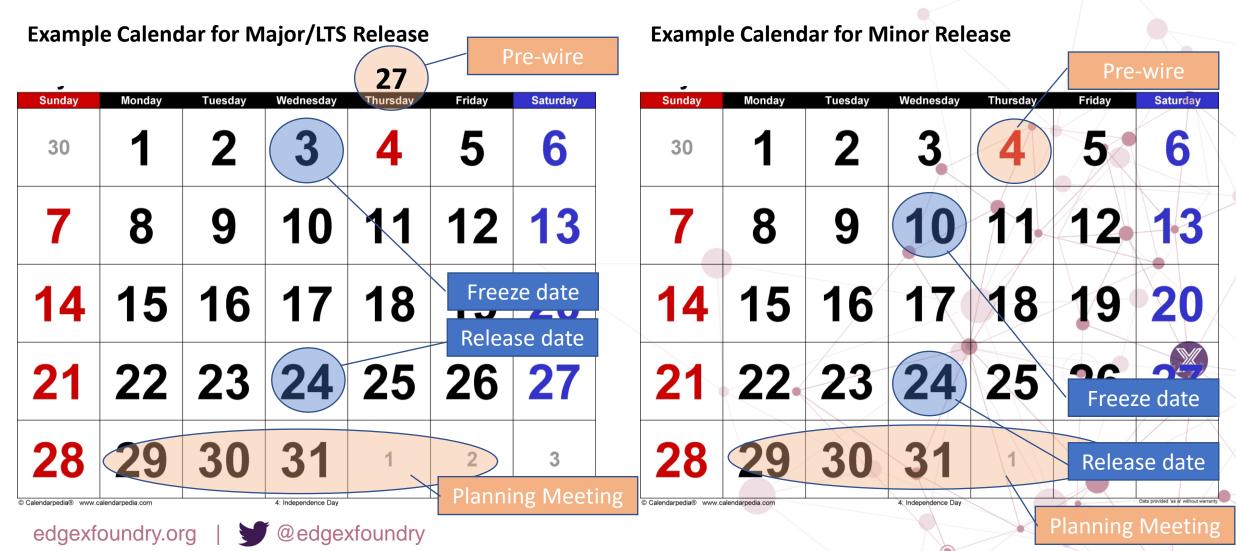
Release Timing

- Formal release/planning schedule is now:
- Generally attempt to select release date about 2 months in advance of the release
 - Typically early March and early September for spring/fall releases
 - Release date preferred to have be a Wednesday
 - Adjust per circumstances and TSC review
- Release schedule for minor release
 - Freeze date 2 weeks in advance of release date
 - Prewire, Thursday prior to freeze date
- Release schedule for major or LTS release
 - Freeze date 3 weeks in advance of release date
 - Prewire, Thursday prior to freeze date
- Planning meeting generally the week following the release
 - Virtual meeting: Monday Thursday with Friday for training/non-conference
 - In person: Tuesday-Thursday with Thursday afternoon for training/non-conference





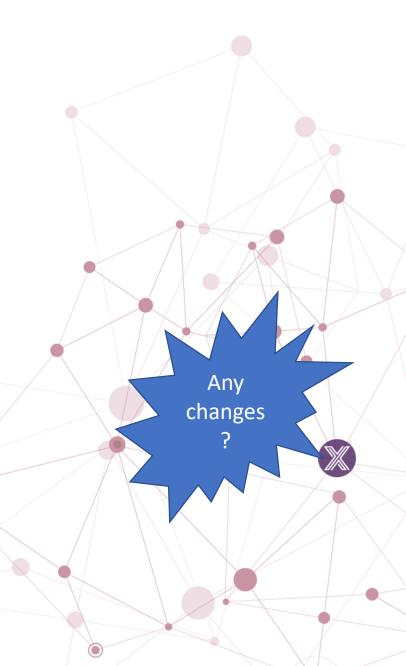
Formalized Planning





EdgeX Meeting Times

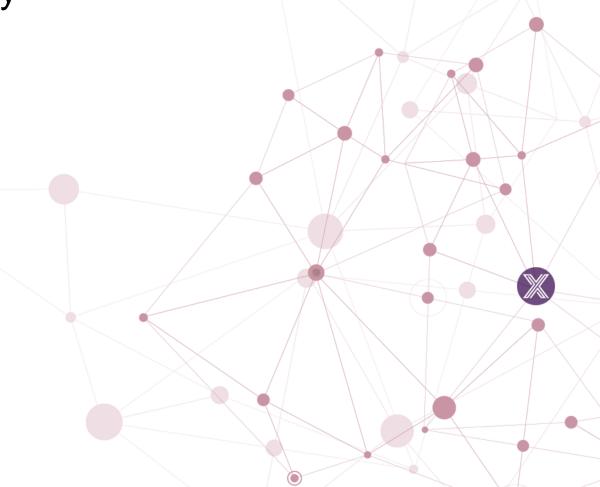
- Mondays
 - Device Services @ 8am PDT
 - Certification & Outreach/Marketing alternate @ 9am PDT
 - Architect's meeting once a month @ 10am PDT
- Tuesdays
 - Occasional Adopter series or tech talk meeting @ 8am PDT
 - Application Services WG @ 9am and 3:30PM PDT alternate weeks
- Wednesdays
 - TSC @ 8am PDT
 - Security @ 9am PDT
- Thursdays
 - Core @ 8am PDT
 - DevOps @ 9am PDT
- Friday
 - No meetings





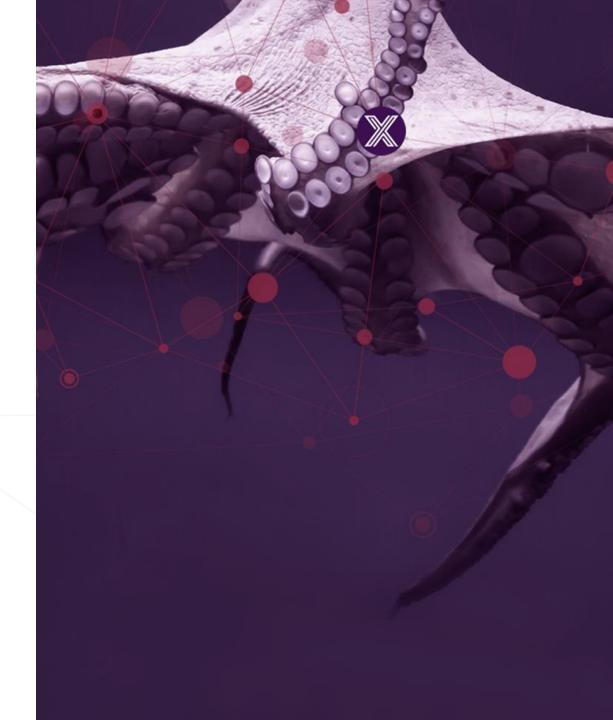
EdgeX Meetings Start, stop, continue (improve?)

- WG meetings more/less frequently
- Monthly architect meetings
 - More/less frequent?



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Process Improvements





Process Improvement Topics

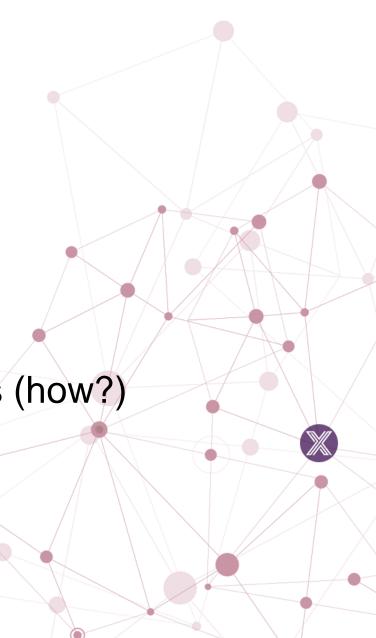
- ADR process changes/improvements
- Real Hardware Testing
- 3rd party library support





ADR Process

- Is it working for us?
- Does it need improvements?
- Farshid's recommendations:
 - Need to cover requirements better
 - Separate requirements and design
- Need to avoid getting into implementation details (how?)





Real Hardware Testing

- How can EdgeX validate the platform with real hardware?
- How can the project get real hardware experiences/feedback?
- Can we establish a "framework" for outside testing with real hardware?



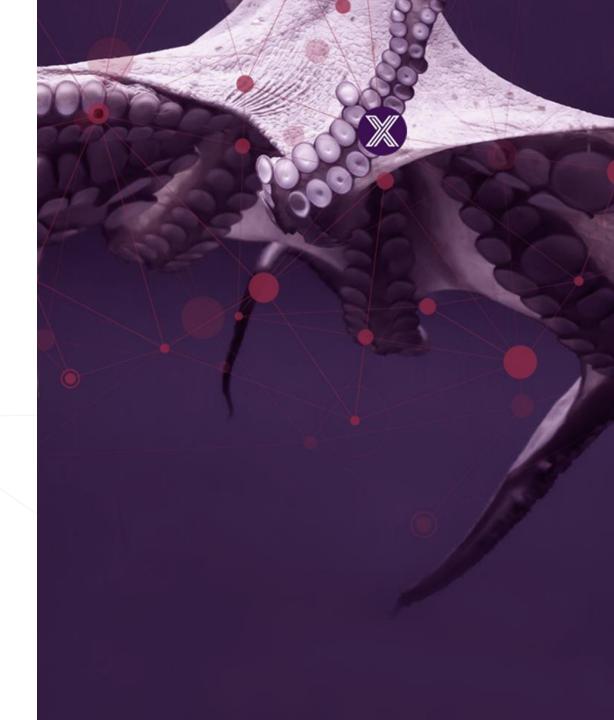
3rd party library support

- We have a process in place to review and vet 3rd party libraries being used by the project
 - We perform a "paper study" to explore the use, ongoing development status, upkeep, and contributors to a library
- In many cases, 3rd party libraries have less than ideal maintenance records, use, etc.
 - But often, there are few or no alternatives to using a library we might otherwise reject
- What to do about this going forward?
 - Fork and maintain libraries (at least those with potential support issues) in EdgeX
 - Try to provide assistance to these library projects
 - Do nothing hope for the best; react to issues as they arise



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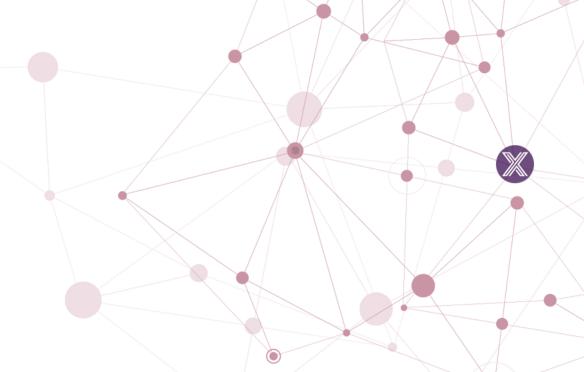
Architectural Discussions/Decisions



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 - **Device Discovery**
 - Protocol specific today
 - Need additional hooks to facilitate secure device onboarding?

- On the fence
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FYI – considered out of scope (per prewire)

ation

Consul

- "EdgeX-lite" w/o security
- Explosion in the number or build artifacts and how we reduce it
 - Do we let adopters do more of regard to binaries, images, ar
- Global configuration (implem
 - Remove duplication across
- EdgeX size concerns (Kong
- Dynamic Config
- Use of URIs to point to configure profiles, etc (implementation)
- Various message bus changes (no connects, topic names, topic aliases)

ing rid of SMA (already deprecated) at replaces start/stop/continue, config,

- indows (more? MSI or other
- ARM port
 - ol or script to create a new device on service (discussed during the planning meeting Nov 21). Creat ap
 - ng/artifact signing
 - nent of real hardware test ment



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Metrics Collection

- ADR https://github.com/edgexfoundry/edgex-docs/pull/268
 - DONE!
- What telemetry do we collect?
 - Impact to size
 - Laundry list in the ADR
 - Revisit scope and what additions we make in Levski (if any)
- Lenny to lead the research/discussion



Last Connected & Last Reported

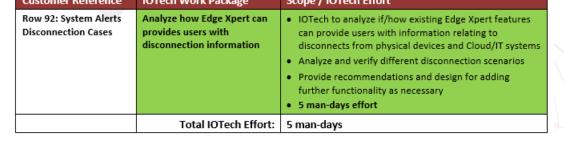
Bugs discovered: (1151, 1150) these fields on device service and device have not been populated since? (perhaps Barcelona but at least Edinburgh)

Obviously the empty fields need to be addressed

Requirement is still there

Options:

- Just deprecate those fields (not recommended)
- Use Levski release to fix these
 - Fix them in DS
 - Use alternate means to provide this information (example: another metric to report)
 - May require short term and long term fix based on backward compatibility
- If we are going into this section of the code, might there be some other tech debt we want to address?
 - Command chaining
 - device-sdk-go #26 and device-sdk-c #3
 - The fields specifying these operations were dropped in the profile
 - rework for v2 so there's an implication there that these will be WONTFIX
 - Configurable size limits in device service
 - MaxCmdValueLen is a configuration setting in the Go SDK that does nothing. It is labelled as "MaxCmdValueLen is the maximum string length of a command parameter or result (including the value descriptor name) that can be returned by a Driver."
 - In the C SDK this is called MaxCmdResultLen and it doesn't do anything either





GUI and calls to SMA

- Today, the GUI calls on the SMA for service metrics, configuration, etc.
 - SMA is deprecated (although won't be removed until EdgeX 3)
 - Do we want GUI to use a different means to get metrics/config/etc.?
 - Per https://github.com/edgexfoundry/edgex-ui-go/issues/486
- Calling on each service directly presents some challenges
 - Service name from the registry isn't directly mapped to metrics APIs
 - GUI doesn't call on all services today (one of the reasons for the SMA)
 - Addition of new service, GUI would have to be notified or do a refresh of service list periodically
 - GUI wouldn't know the proxy path when Kong is deployed/used (GUI is outside of Kong)
- Suggested
 - Service registration includes URL to get metrics and other SMA related data for each service





Under consideration

In scope by default



Build Time Issues

- With SPIFFE/SPIRE and other related items, builds are taking a long time
 - 6 minutes for Intel builds
 - Approaching an hour on ARM builds
- Future discussions about how to do other builds for other needs (with/without security, etc.) could make this worse in the future
- Are there things we can do or try to reduce build times
- Bryon and Ernesto leading this discussion



Securing the internal message bus - specific to MQTT

- Communications between services
- How to generate credentials and tell the services about these
- How to initialize the MQTT secrets for the internal message bus comms
 - This is just about initializing the broker and putting the credentials can get at the in Vault
 - Question: why is an alternative secure implementation for MQTT we already have secure Redis Pub/Sub? Should we consider deprecating Redis Pub/Sub if it is not meeting needs?
 - MQTT does provide more "knobs" (QoS, durability, keep alive, etc.) for using MQTT vs Redis today
- Lenny, Tony to lead the discussion





Global Configuration

- https://github.com/edgexfoundry/edgex-docs/issues/580
- Is it time to consider some sort of global configuration?
 - We have a lot of duplication
 - Requires a lot of config to be touched when an adopter wants to change one item
 - Examples: topic name, logging
 - Turn on/off metrics collection in the future
- Difficulty where would the configuration go?
- Considerations: with or without Consul, with or without security (and Vault)
- Hard to solve one of the downsides of microservices
- EdgeX 3.0 consideration would likely be non-backward compatible
- Architecturally significant calls for an ADR
- Implementation likely out of scope for this release
- Jim to lead the discussion



Bring your own Vault

- Allowing users to potentially run Vault in a cloud
- One customer did run-your-own; it is physically possible
 - Had to rip open secret store setup to make it happen (lot of work)
 - Bootstrapping is the complex part
 - This is really technical debt refactoring (not interfaced/abstracted enough right) now)
- "We should perhaps be thinking about enabling the "bring-your-own Vault" approach, similar to what I proposed for SPIFFE/SPIRE support. This would allow users to potentially run the Vault instance in a cloud where it is more secure." – Bryon N
- Bryon to lead this discussion





URI reference to point to config/profile/etc.

- Came up as part of UoM ADR discussion
- https://github.com/orgs/edgexfoundry/projects/48#card-77954532
- We are looking to use a URI to specify an external configuration file in the future
 - Allowing for file, HTTP, HTTPS or other protocol access support.
 - URI mechanism may be used to point to device profiles, configuration files, UoM and other "configuration" information in the future.
 - This would even allow multiple EdgeX instances to use the same configuration or profile (multiple EdgeX instances using the same URI to use a shared profile for example).
- May need EdgeX 3.0 to implement (backward compatibility)
 - It could be done in a backward compatible way
 - Need requirements/use case better documented
- Requirements/ADR needed
- Implementation probably out of scope for this release
- Jim to lead this discussion





Device Discovery

- Worth a relook and / or additions
- Protocol specific today
- Implementation the responsibility of individual device service providers
- Do we need additional hooks to facilitate secure device onboarding?





On the fence

Out of scope by default

NATs (back again?)

- Add NATS implementation for MessageClient interface
- https://github.com/edgexfoundry/go-mod-messaging/issues/37
- https://github.com/edgexfoundry/go-mod-messaging/pull/137
- Size concerns add size to the binaries
 - Conditional compilation "trick" may be a way address this (this is EdgeX Lite concept)
- Rationale
 - lightweight protocol with potential for on-device use
 - ability to use common messaging infrastructure at all levels of stack
 - protocol-level metadata allows 'native' conveyance of the EdgeX message envelope.
 - flexible deployment options for HA in some settings
- Requested by at least one adopter and discussed in the Kamakura planning meeting (others by Slack more recently)
- NATS JetStream?? How does this apply/differ from NATS at large?
- You are going to want to secure it what does that look like?
- Alex to provide pros/cons and use case for NATS prior to the planning meeting
- Presenter of this discussion to be determined and based on Alex feedback



118n/L10n metadata

- https://github.com/edgexfoundry/edgex-go/issues/3935
- An adopter has requested that things like device names be allowed to contain other language characters. Specifically, in this instance, Vietnamese characters. Presumably, much more of EdgeX could be internationalized or localized.
- May be applicable to all services working with user defined JSON or YAML (like) device profiles).
- Validation of "names" and such would have to be updated to allow for I18n/I10n
 - Think this might be in a single place
- How would this work with URLs, topic names, etc.?
- Input from China how about a name to character of choice translation kept somewhere that can be used for UX purposes?
- Jim to lead the discussion

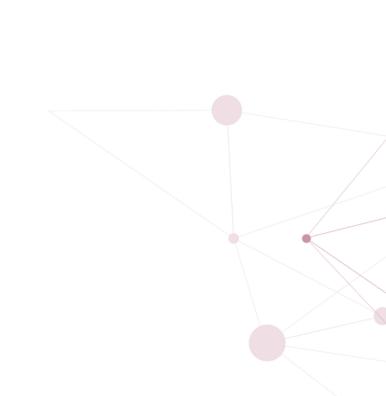




Ziti for underlying service-service security?

Per Ziti presentation at Security WG meeting

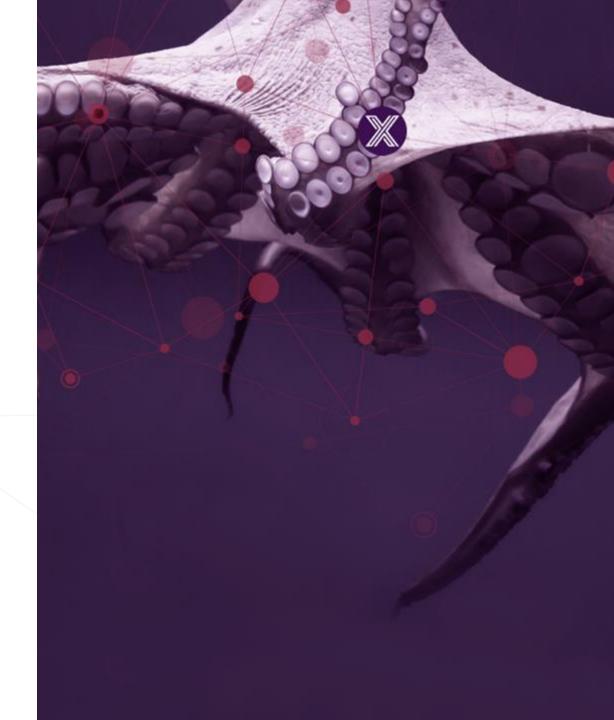
https://openziti.github.io/



EDGE FOUNDRY

Day 3

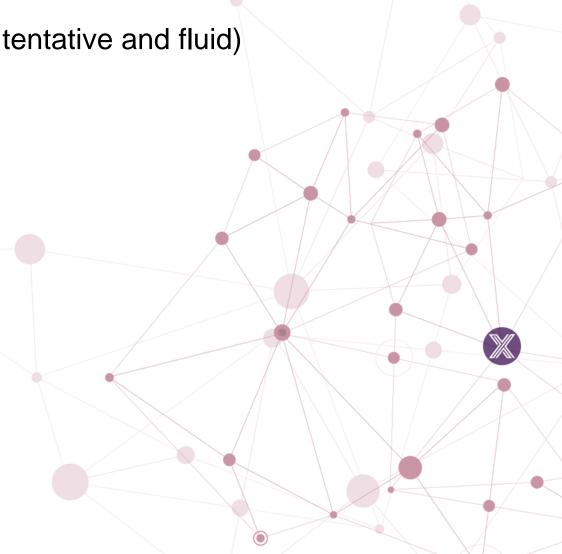
May 18





Conference Agenda – Day 3

- May 18, Wednesday (all times in PDT; all times tentative and fluid)
- 7:00am PDT
- 7:15am Levski scope planning by WG / area
 - General
 - Common
 - · Cross cutting concerns
 - Core
 - GUI
 - CLI
 - System management
 - Test QA
 - Device Service
 - Application
 - eKuiper / rules engine
 - Security
 - DevOps
- 10am day 3 adjourn

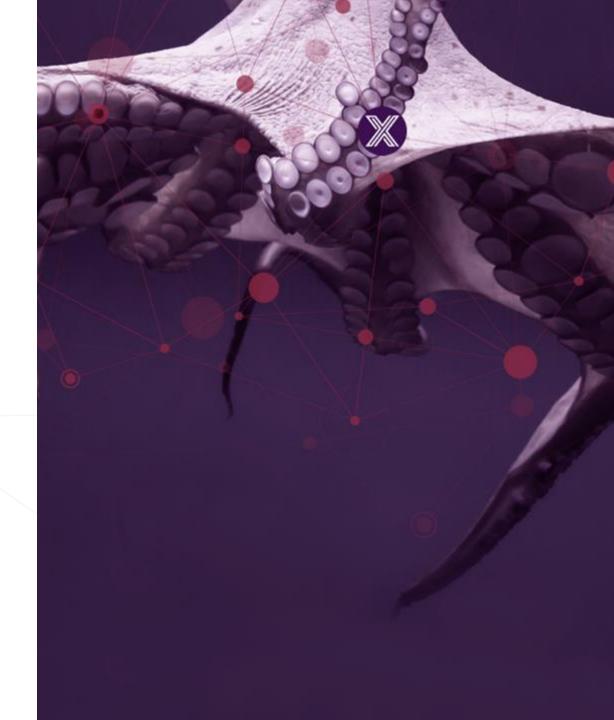






EDGE FOUNDRY

Levski Scope





Considerations

- Is there a champion / developer to drive the solution & get the work done
 - Who
 - Timeline
 - Dependencies
- What is high priority and what is a stretch goal?
 - T-shirt size it
 - Small one release; one WG; one service; approximately one man to complete
 - Med one release; many services;
 - Large one release; all services; could take someone all release to finish
 - X-Large multi-release and probably more than one service





Caveats

- Items in the pages following are options at this point
- May be research or design tasks for this release
 - May be partial implementation
- No level of effort has been determined
- No priority has been assigned
- NOTE: scope does not include tasks and work items that come from the architectural discussion earlier.
 - These need to be added and scoped as well



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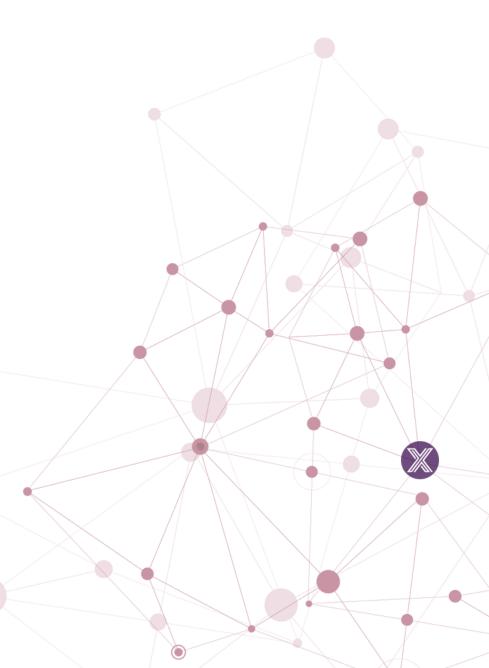
General

- Upgrade Go (1.18, 1.19?) In scope
 - Generics important
- UoM implementation In scope
- N-S message bus implementation In scope
- Cloud templates need updating
 - Do we even keep these they are way out date
 - EdgeX Ready impact?
 - Under consideration to deprecate

EDGE X FOUNDRY

Core

- Core
 - Prometheus integration
 - Could do with app service configurable
 - Have an example for Influx could do an example for Prometheus
 - Not sure/On the fence
 - CPE ADR and implementation In scope
 - Core Data Cache ADR and implementation Under consideration
 - Parent/child device relationships Eaton commits to ADR this cycle
- K8s support
 - Bryon has submitted issues for how to refine
 - Review Bryon's issues and figure out what's next In scope
- CLI
 - No resource availability at this time
- GUI
 - Add unit tests to CI/CD
 - Some bug fixes/cleanup
- Test QA
 - Always CBOR option for performance (never got to test this cycle) Under consideration
 - Nice to have tests for delayed start In scope
 - Framework for outside testing with real hardware
 - How organizations can validate with real hardware and provide project feedback
 - Under consideration-process improvement

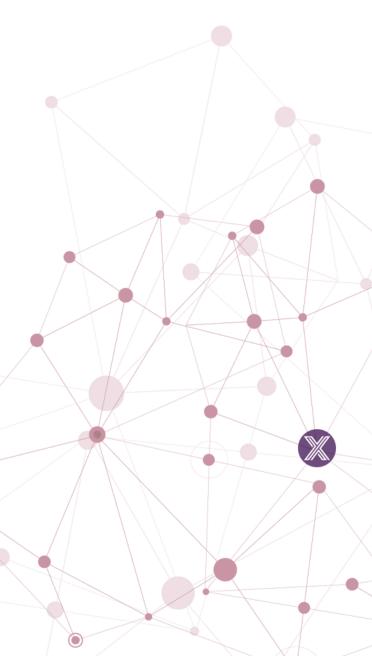






Device Services

- DS upgrage/approvals (CoAP, GPIO, LLRP, UART, Grove, ONVIF, USB) In scope
 - With exception of UART which is stalled should we deprecate this work?
- BACNet DS In scope
- DS Filtering implementation (ADR already in place)
 - Not sure/On the fence resource availability concerns
- C SDK library Eaton input otherwise Out of scope
 - Produce a release artifact vs clone the repo and start a service
- cmake options to optimize dependencies Eaton input otherwise Out of scope
 - Eaton proposed ADR
- Publish multiple readings in 1 msg in MQTT DS #299 Under consideration
 - 2 end user requests for this feature
 - Can this be done in a backward compatible way??
- Handle both JSON request bodies as well as CBOR request bodies #488 Under consideration
 - Need binary PUT for consistency
 - Hasn't high priority in the past
 - In C but not Go
- Metrics / Telemetry collection in C services (per ADR) ???
- Record and Replay under consideration; see next slide
- Allow for more C++ in C SDK Eaton willing to provide resource assistance
 - Exploration of changes and ability to reduce memory management operations by hand





Record and Replay

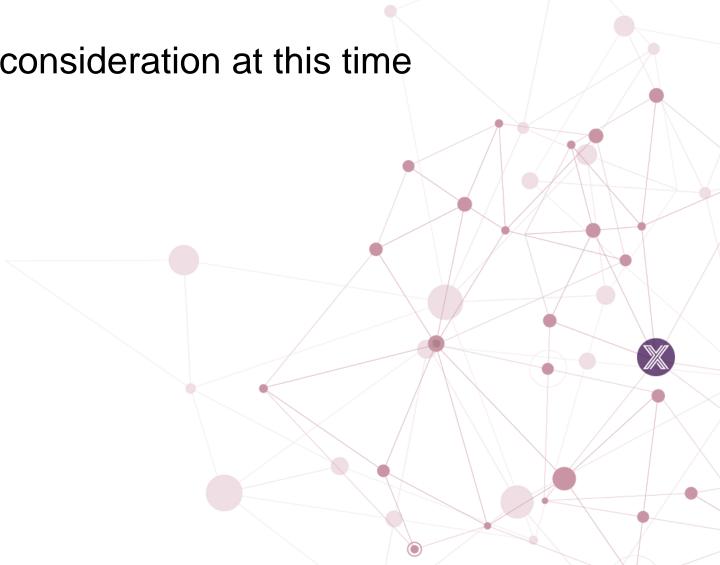
- https://github.com/edgexfoundry/edgex-docs/issues/471
- https://wiki.edgexfoundry.org/display/FA/Record+and+Replay
- Application Service takes Events and logs them to a file. (Maybe a single service to both this and DS work)
- Device Service reads a file generated by that Application Service, and generates new Events based it.
 - Event generation will occur either at fixed intervals defined in the service configuration, or based on the timestamps of the Events which are read in.
 - New Events should have their origin field re-created; the created field should not be set by the device service.
 - Enhancement: Replay the contents of multiple files simultaneously
- Impacts EdgeX Ready
 - · We would need a How-to-Guide and possibly update the submission materials to include the "recorded" sample data.
- Is anyone asking for this not within recent memory but there have been requests
- Could be useful for debugging/testing; could be beneficial beyond EdgeX Ready
- Need of ADR and/or additional requirements?
- A real nice to have
- Not really architectural decision "significant"; could it be handled by a single team (AS or DS)?





Application Services

NO items in scope or under consideration at this time





DevOps

- Credly API integration if needed (carry over from Kamakura)
- htmlproofer checks on each edgex-docs PR
- Automate version bump in swagger api files on release,
 i.e. https://github.com/edgexfoundry/edgex-go/blob/main/openapi/v2/*.yaml (Ask from Lenny)
- Assist GUI team automate testing





Snaps

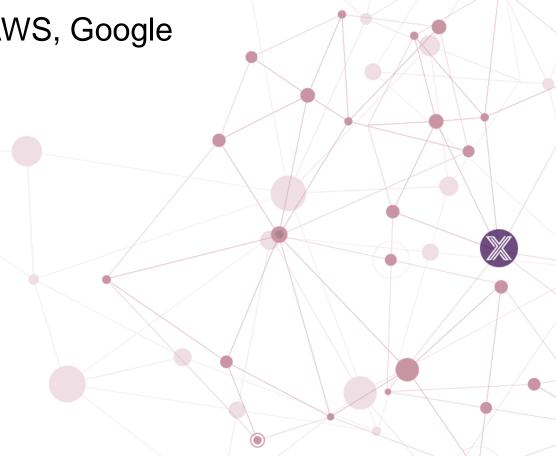
- Upgrade snaps base to core22 (built from Ubuntu 22.04 LTS)
- Guide on headless deployment of EdgeX on Ubuntu Core
- Add support for SPIFFE/SPIRE
- Standalone device-virtual snap





Miscellaneous

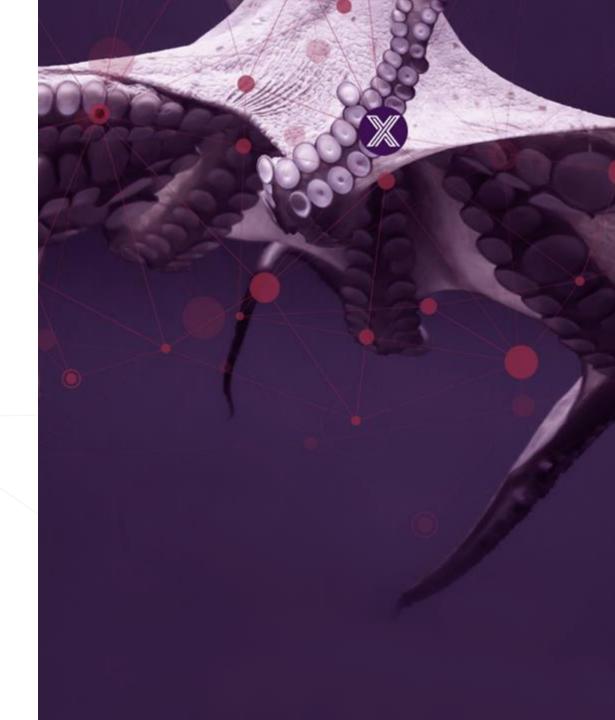
- Tool/script to create new device or application services
- Examples
 - Cloud export more explicit for Azure, AWS, Google
 - Update cloud templates
 - RP4
 - Any new example requests
- Docs
 - Any new sections or features



EDGE FOUNDRY

Day 4

May 19





Conference Agenda – Day 4

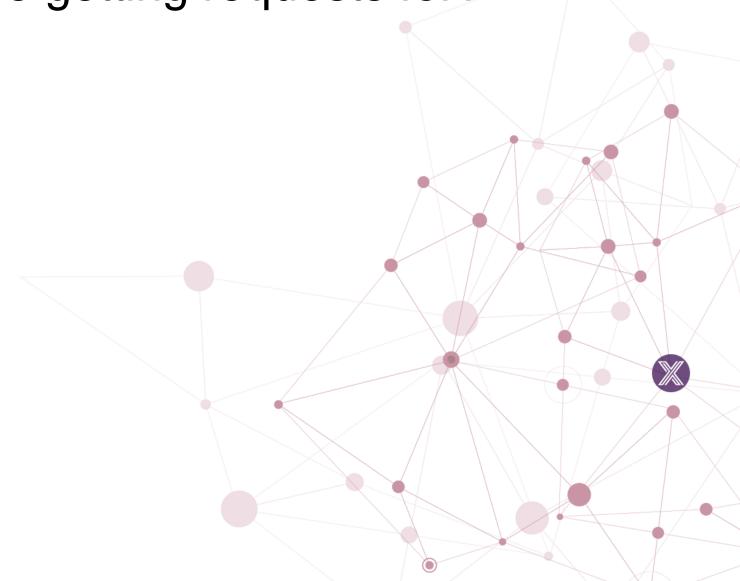
- May 19, Thursday (all times in PDT; all times tentative and fluid)
- 9am PDT Meeting Start
- Scope and architectural questions not addressed in prior 3 days will be finished as priority work on day 4 as needed.
- 10am Requests of adopters
- 10:15am Kamakura lessons learned
- 10:30am Fall release in person face to face??
 - Venue/time line
- 10:45am Long term roadmap beyond Levski
 - Backlog revisit
 - EdgeX 3.0 and next LTS forecast
- 11:30pm Planning meeting lessons learned and changes for Minnesota
- 12pm day 4 adjourn





On Slack – what are we getting requests for?

• To be filled in





Jakarta – lessons learned we said we would try to fix

Positives

- Documentation done in parallel (mostly)
- Docs done by release
- DevOps/Release
- Testing really good now and stable
 - Added a lot (more coverage, performance tests, etc.)
 - Smoke tests!
 - No code without tests
- Fingers crossed we have an LTS!
- More adopters and more input from adopters
- Streamlined PR templates/policy around when issues are required
- What could be improved
 - Takes a long time to make a decision
 - Architectural decisions, review process, collecting information about the real issue or what people need take a long time
 - More planning / describing a change we wanted
 - Object type as example
 - Need for hands for the process
 - ADRs may need to be brought back in to WG discussions

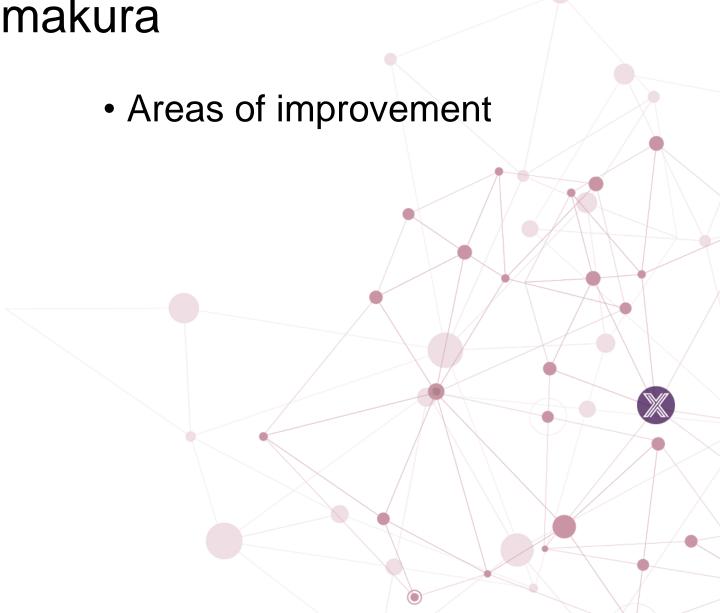






Lessons Learned in Kamakura

Positives





Fall (Minnesota) Release Planning

- Time for a face-to-face?
 - Organizational support
 - Venue suggestions/volunteers to host
 - Timing
 - November after the release (Thanksgiving time is close by)?
 - With potential early November release dates





Long-term Roadmap

- Backlog
 - https://wiki.edgexfoundry.org/display/FA/Backlog
- What would we see as likely big features in Minnesota?
- Open discussion about next EdgeX 3.0 and LTS
- Long term considerations and planning





Planning Meeting Lessons Learned

- Release Planning Meeting
 - Any lessons learned?
 - Any thing that could be done better?
 - Start doing, continue doing, stop doing
 - What worked well and what did not?
- If we shift to F2F for the next meeting, what would we do different?

