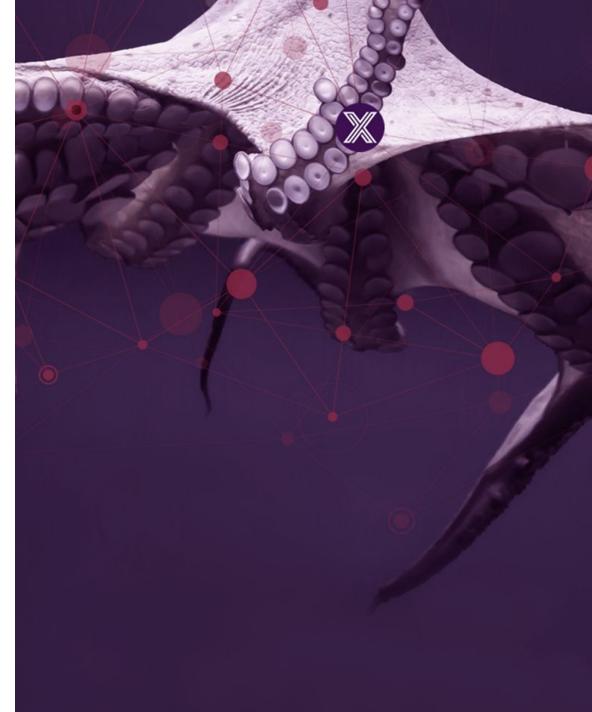


TSC Meeting

July 20, 2022



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Meeting Logistics

Time: Wednesdays 8am PDT – 9am PDT

Join from PC, Mac, Linux, iOS or Android: https://zoom.us/j/983155298

Or iPhone one-tap (US Toll): +14086380968,983155298# or +16465588656,983155298#

Or Telephone:

Dial: +1 408 638 0968 (US Toll) or +1 646 558 8656 (US Toll)

+1 855 880 1246 (US Toll Free)

+1 877 369 0926 (US Toll Free)

Meeting ID: 983 155 298

International numbers available: https://zoom.us/zoomconference?m=mkFexUxEcqHlvXHw53PqScTDRvS48PiQ

** TSC calls are recorded and added to Wiki post-call





TSC – Members Present Today

Company	<u>Name</u>	<u>Email</u>	<u>Position</u>
IOTech	lain Anderson	iain@iotechsys.com	Device Services WG Chair
Intel	Ernesto Ojeda	ernesto.ojeda@intel.com	Dev Ops WG Chair
Intel	Bryon Nevis	bryon.nevis@intel.com	Security WG Chair
Intel	Lenny Goodell	leonard.goodell@intel.com	Applications & Analytics WG Chair
IOTech	Cloud Tsai	cloud@iotechsys.com	Core & Test/QA WG Chair

At Large Members:

Gavin Lu (VMWare), Farshid Tavakolizadeh (Canonical), Melvin Sun (Intel), James Butcher (IOTech), Tom Brennan (Eaton)

Current quorum = 7 members

Note: Quorum for TSC meetings requires at least fifty percent of all voting members of the TSC to be present. The TSC may continue to meet if quorum is not met, but will be prevented from making any decisions at the meeting. Except as provided in Section 7.c. and 8.a, decisions by vote at a meeting require a majority vote of those in attendance, provided quorum is met. Decisions made by electronic vote without a meeting require a majority vote of all voting members of the TSC.

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Today's Agenda

- WG updates
- ADR updates
- Doc updates
- Miscellaneous



Working Group Chair Updates

- Around the horn
 - Product Manager Lenny Goodell
 - Applications Lenny Goodell
 - Core Cloud Tsail
 - Device Services Iain Anderson
 - DevOps Ernesto Ojeda
 - Release Czar Bill Mahoney
 - Security Bryon Nevis
 - PRC Updates Melvin Sun and Gavin Lu
 - Outreach and Marketing
 - Certification Rodney Hess
 - Vertical Solutions (and LF Edge TAC) Henry Lau

Product Manager (07/20/22) - Levski

Cross Cutting Issues

Icebox (1)

Lite Builds (no security features) via Build Tags

Backlog (3)

- Commands via MessageBus (aka N/S MessageBus)
- Secure MQTT MessageBus
- **Microservice Auth**

In Progress (5)

- Request new Consul token on Auth failures
 - C SDK/Services WIP
- Go 1.18
 - CLI DONE
 - UI DONE
 - ONVIF/USB Camera OnHold
 - All others Done except
- **NATs MessageBus**
 - go-mod-messaging Pending PR (almost there)
- **Additional Metrics**
 - App Services Done
 - Device Services Defined
 - Core **Defined**
 - Security Defined

- System Events (aka CPE) (UC/ADR/Impl)
 - UCR Approved
 - ADR Pending PR

Done (3)

- Explore goweight to see impact of individual libs (nothing actionable)
- eclipse/paho.mqtt.golang 1.4.1 (License update to v2.0)
- **Securing Consul with Access Token**
 - C SDK/Services DONE



Applications WG Update (07/20/22) - Levski

Newly Completed (2)

- [SDK] Add pipeline function to wrap raw data from previous function into an Event/Reading #1149
- [DOCS] docs for built-in pipeline function to wrap event #799

New (0)

None

WIP (0)

•

Backlog (12)

https://github.com/orgs/edgexfoundry/projects/50/views/2

ICE BOX (5)

Leftovers not planned for Levski

Next

UCR for Record and Replay

eKuiper

No Update

New Project Board: https://github.com/orgs/edgexfoundry/projects/50/views/2



Application Services - Levski

Functions (built into SDK)

- Add Tags
- Batch
- Compression (GZIP & ZLIB)
- Conversion (XML & JSON)
- PushToCore ** **DEPRECATED****
- EventWrapper NEW
- Encryption (AES256)
- Encryption (AES) ** **DEPRECATED****
- **Export**
 - MQTT
 - HTTP POST & PUT
- Filtering
 - By Profile Name
 - By Device Name
 - By Source Name
 - By Resource Name
- **JSONLogic**
- Set Response Data
- ToLineProtocol (transforms Metric DTO) NEW

Features

- Store and Forward
- Batch and Send
- Web Server
- Configurable App Service
- Vault Integration for Secrets
- MQTT Event triggers
- Filter by Topics
- **Custom Triggers**
- Publish Topics and URL Placeholders
- **Structure Custom Configuration**
- **Background Publishing**

- Received Topic
- Context Storage
- Service Metrics **NEW**
- Clients
 - Logging, Event
 - Command
 - Device, DeviceService
 - DeviceProfile
 - Notification
 - Subscription
 - Registry

Reference/Example App Services

(built on top of SDK)

Released Services

- App Service Configurable
- App RFID LLRP Inventory

Examples

- Simple Filter
- Simple Filter and MQTT Export
- Simple Filter and HTTP Export
- Simple CBOR
- Cloud Export

- Cloud Event Transformation
- Secret Retrieval
- JsonLogic
- Send Command
- Convert & Publish
- **Custom Target Type**
- IBM Watson IoT (ASC Profile)
- **Custom Trigger**
- Influx DB & Flege Exports
- Camera Management **NEW**



Core WG Snapshot (20 July 2022)

- Levski:
 - TAF
 - Functional tests: 594 all passing
 - Integration tests: 55 all passing
 - Performance tests: 10 all passing
 - New change
 - #691 StoreAndForward test fails for previous process doesn't terminate
 - Discussion
 - #750 Discussion of name character restriction

Core Project Board Status

- 9 New Issues (+5)
- 14 Release Backlog (+0)
- 1 In Progress/QA (+0)
- 46 Levski Done (+0)
- 17 Icebox (+0)

QA/Test Project Board Status

- 0 New Issues (-5)
- 8 Release Backlog (+5)
- 1 In Progress/QA (-1)
- 2 Done (+0)
- 0 lcebox (+0)

Device Services WG Update (20 July 2022)

2.2 releases

- C SDK : Token refresh (PR)
- Camera device services : expected complete this week

Ongoing

- Go SDK : Testing/Mock enhancements
- UART updates

Next

- Grove, BACnet
- Metrics

Project board: 17 issues new/backlog (+2); 4 in progress/review (+1)

Next meeting: July 25th

Device Services - current/coming (as of v2.2)

Open Source connectors (Current):

- Modbus (TCP/RTU) in Go
- Virtual Device in Go
- SNMP in Go
- MQTT in Go
- BACnet (IP & MSTP) in C (v1 only)
- ONVIF Cameras in Go.
- REST in Go
- Grove in C (v1 only)
- CoAP in C
- LLRP / RFID in Go
- GPIO in Go

Open Source connectors (Future):

- UART in Go
- OPC-UA in Go
- USB Cameras in Go

Commercial connectors (Current):

- BLE in C
- Zigbee in C
- GPS in C
- CAN in C
- CANOpen in C
- MEMS in C
- EtherCat in C
- EtherNet/IP in C
- PROFINET in C
- OPC-UA in C
- OPC-UA Pub/Sub in C
- Siemens S7 in C
- File reader in C
- WebSockets in Go

There are additional commercial MQTT (Go), Modbus (C), REST (Go), ONVIF (C) and BACnet (in C) that have added features over the community editions

DevOps WG Update (07-20-2022)

Pipeline Related

- #400 [Complete] Go 1.18 upgrade for Go pipelines.
- #401 [In Progress] Mkdocs–support for variables
- #402 [Complete] htmlproofer checks on each edgex-docs PR
- #407 [Backlog] Standardize make version between Jenkins and Snap builds

Other

#389 [Review] Help optimize local developer make docker builds

Next DevOps WG Meeting: Thursday, July 21, 2022 @ 9AM PST

Release Czar (2022-7-20)

Kamakura (2.2.0):

- Released (2022-5-11)
- C SDK / Device Services Pending

Misc

Next Week Release Scheduling

Security WG Update

Next Meeting: July 20

No updates of consequence. Will probably cancel.

Security Project Board Status

- 10 New Issues (n/c)
- 6 Release Backlog (-1)
- 2 In Progress/QA (n/c)
- 1 In review (n/c)
- 8 Done (+1)

Secure Consul Project Board Status

- 0 In-review
- 0 In-progress
- 2 Phase 1 To-do
- 1 Phase 2 To-do
- 4 Phase 3 To-do

EdgeX China- EdgeX challenge 2022 (China region)

Updates of EdgeX challenge China 2022

- Entry level training (5 courses in total) on each workday this week
- Opening ceremony is scheduled on Aug 3rd
- Calling for sponsorship till end of July

	Cos	t	Benefits			
			Logo exposure on KV, news			OSS ingredient included in EdgeX
Level	RMB	USD	reports, blogs	Keynote	Judge	Hackathon
Strategic Partner	260K	40K	Υ	Y	Y	Y
Diamond	100K	15K	Υ	Y	Y	
Gold	70K	10K	Υ	Y		
Silver	35K	5K	Υ			

EdgeX China community channels:

Website: https://cn.edgexfoundry.org/

- OSChina: https://www.oschina.net/group/edgex-foundry

CSDN: https://blog.csdn.net/edgexfoundry

- Zhihu: https://www.zhihu.com/people/edgex-foundry

Bilibili: https://space.bilibili.com/550595847

Outreach WG (7/19/22)

Ready/Certification

- Rodney working on Wiki update
- Rodney working on EdgeX Ready for Individuals
 - Results from the survey don't indicate value here yet

Social Media

- Performance blog post coming this summer
- Jim's EdgeX Awards blog

Events

Exploring 2023 options

WebSite Changes (order or priority)

- Tech talk reference from web site being explored
- Looking at spend of funding for (\$4500 budget)
 - WIP invoiced, Security Audit issues
 - SEO updates (shared between English and China sites)
- Update some content (diagrams, et al) internal
- Google Analytics for all versions of docs being worked on

Outreach WG

Looking for new leader

ADR PROCESS review (as of 7/12/22)

ADR name and PR number	Status	owner	Work Group
Develop UC/Requirements template	complete	Farshid/Jim	
Parent/Child device relationship	https://github.com/edgexfoundry/edgex -docs/pull/800 ready for UC review	Eaton	Core
control plane events	https://github.com/edgexfoundry/edgex -docs/pull/795 ADR review	Lenny	Core
Record and replay service	Lenny working		App Services
core data cache	Levski release		Core
global configuration	EdgeX 3.0 item (not in scope now)		

Document work (as of 7/12/22)

#685 L [build/run ARM32]

PR in - needs review

#641 L [EdgeX w/ K8s]

Work in progress

#788 M [fix notifications pages]

#787 M [fix scheduler pages]

#731 M [V2 migration guide fix event/reading DTO]

#732 L [role based access for Mosquitto]

#778 S [broken links]

#784 M [document how to decrypt data]

Nice to have

#643 M

#642 L

#598 L

#489 M (with #121, #21)

Miscellaneous

- Monthly Architect's Meeting is this Monday July 25th
 - Main agenda item is continuation of the EdgeX 3.0 item planning

