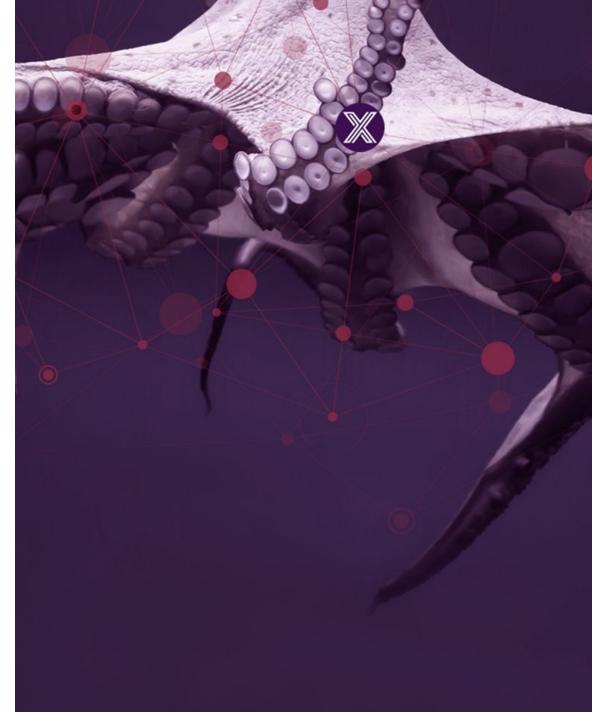


TSC Meeting

June 15, 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

<u>Company</u>	<u>Name</u>	<u>Email</u>	<u>Position</u>
IOTech	Iain Anderson	iain@iotechsys.com	Device Services WG Chair
Intel	Ernesto Ojeda	ernesto.ojeda@intel.com	Dev Ops WG Chair
IOTech	Jim White	jim@iotechsys.com	Outreach WG Chair
Intel	Bryon Nevis	bryon.nevis@intel.com	Security WG Chair
Intel	Lenny Goodell	leonard.goodell@intel.com	Applications & Analytics WG Chair
IOTech	James Butcher	james@iotechsys.com	Core/Test/QA WG Chair

Gavin Lu (VMWare), Tony Espy (Canonical), Melvin Sun (Intel)

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

- EdgeX TSC for the coming year
- WG Updates
- ADR updates
- Doc updates
- Miscellaneous
 - Tech Talks

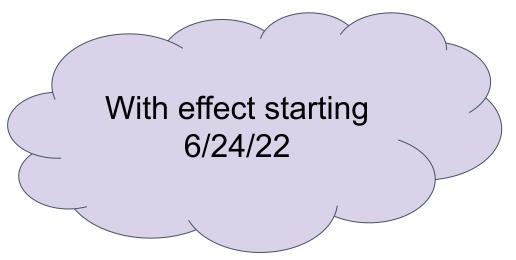




Congratulations to our new TSC

<u>Company</u>	<u>Name</u>	<u>Email</u>	<u>Position</u>
IOTech	Iain 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

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



^{*} indicates new member

Roles for the coming year

PM - Lenny Goodell (Intel)

Release Czar - Bill Mahoney (Intel)

EdgeX Ready/Certification program - Rodney Hess (Beachwoods)

GUI development - Gavin Lu (VMWare)

Vertical Solutions - Henry Lau (HP)

Outreach / Marketing - open



TSC Chairman

Nominations

James Butcher (IOTech Systems) by Cloud and Iain

Working Group Chair Updates

- Around the horn (based on current leadership new leadership starts June 24)
 - Product Manager Lenny Goodell
 - Applications Lenny Goodell
 - Core James Butcher
 - Device Services Iain Anderson
 - DevOps Ernesto Ojeda
 - Release Czar Bill Mahoney
 - Security Bryon Nevis
 - PRC Updates
 - Outreach Jim White
 - Certification Rodney Hess
 - Marketing Camilo Dennis
 - Vertical Solutions (and LF Edge TAC) Henry Lau



Product Manager (06/15/22) - Levski

Cross Cutting Issues

Icebox (1)

Lite Builds (no security features) via Build Tags

Backlog (5)

- System Events (aka CPE) (UC/ADR/Impl)
- Commands via MessageBus (aka N/S MessageBus)
- Secure MQTT MessageBus
- **Microservice Auth**

In Progress (5)

- **Securing Consul with Access Token**
 - C SDK/Services WIP
- Request new Consul token on Auth failures
 - C SDK/Services WIP
- Go 1.18
 - Smoke Test TBD
- **NATs MessageBus**
 - go-mod-messaging Pending PR
- **Additional Metrics**
 - App Services WIP
 - Device Services Defined
 - Core Defined
- eclipse/paho.mqtt.golang 1.4.1 (License update to v2.0)
 - APP SDK DONE
 - APP Services TBD
 - edgex-go TBD
 - Device SDK Go -

Done (1)

Explore goweight to see impact of individual libs (nothing actionable)



Applications WG Update (06/15/22) - Levski

Completed (1)

build(deps): bump github.com/eclipse/paho.mgtt.golang from 1.3.5 to 1.4.1 #1121

New (0)

WIP (1)

App SDK Metrics (InvalidMessagesReceived)

Backlog (12)

https://github.com/oras/edgexfoundry/projects/23

ICE BOX (5)

Leftovers not planned for Levski

Next

- Add additional metrics
- Go 1.18 (waiting on Smoke Test)

eKuiper

- Released 1.5.1
 - https://github.com/lf-edge/ekuiper/milestone/9?closed=1
 - #1285 related to EdgeX for handling Object Value type
- Working on 1.6.0 for July 20th
 - https://github.com/lf-edge/ekuiper/milestone/10
 - Issue when Redis is restarted. Not reconnecting, Rules lost??

Project Board: https://github.com/orgs/edgexfoundry/projects/23



Application Services - Kamakura

Functions (built into SDK)

- Add Tags
- Batch
- Compression (GZIP & ZLIB)
- Conversion (XML & JSON)
- PushToCore ** DEPRECATED**
- MarkAsPushed
- 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)

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
- Clients
 - o Logging, Event
 - Command
 - o 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



Core WG Snapshot (8 June 2022)

- Levski:
 - TAF
 - Functional tests: 594 all passing
 - Integration tests: 47- all passing
 - Performance tests: 10 all passing
 - WIP
 - Performance Metrics Report https://wiki.edgexfoundry.org/display/FA/Kamakura+Data
 - Added new extra page that explains conditional build options
 - New Testing Overview Page https://wiki.edgexfoundry.org/display/FA/Testing+Overview
 - Core Metrics begun planning which metrics to collect. Conclude in tomorrow's meeting
 - <u>Kanban board for N/S MB implementation</u>. About ready for estimates and timing etc

Core Project Board Status

- 9 New Issues (+1)
- 0 Release Backlog (+0)
- 0 In Progress/QA (+0)
- 33 Done (+5)
- 16 Icebox (-1)

QA/Test Project Board Status

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

Device Services WG Update (15 June 2022)

- Agreed Metrics scope
- GitHub "Discussions" enabled for device-sdk-go
- Project board: 18 issues new/backlog (+1); 3 in progress/review
- Camera device issues raised
 - Use of dependency snapshots
 - Kernel version check for V4L
- C device service issues raised
 - Health checks failing in v2.x
 - OpenSFF best practices to be verified

Next meeting: June 27th

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
- CoAP in C
- LLRP / RFID in Go
- GPIO in Go

Open Source connectors (Future):

- UART in Go
- OPC-UA 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

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 (06-15-2022)

Pipeline Related

- #400 [Hold] Go 1.18 upgrade for Go pipelines.
- #401 [In Progress] Makedocs–support for variables
- #402 [In Progress] htmlproofer checks on each edgex-docs PR

Other

- #389 [In Progress] Help optimize local developer make docker builds
- #391 [Complete] Add repo badges to README for device-onvif-camera
- #392 [Complete] Add repo badges to README for device-usb-camera

Next DevOps WG Meeting: Thursday, June 23, 2022 @ 9AM PST

Release Czar (2022-6-15)

Kamakura (2.2.0):

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

Jakarta (LTS) Patch (2.1.1):

Released (2022-6-8)

Updated Release Checklist:

https://wiki.edgexfoundry.org/display/FA/Release+Checklist

Security WG Update

Next Meeting: Today. Going camping next week.

Will continue OpenSSF best practices survey https://bestpractices.coreinfrastructure.org/en/projects/1226 (expected to take several security WG meetings)

Security Project Board Status

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

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 on sponsorship of EdgeX challenge 2022

- Strategic Partner level sponsors so far: Intel, Alibaba Cloud

	Cos	t		Ве	nefits	
Level	RMB	USD	Logo exposure on KV, news reports, blogs	Keynote	Judge	OSS ingredient included in EdgeX Hackathon
Strategic Partner	260K	40K	Y	Y	Y	Y
Diamond	100K	15K	Y	Υ	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 (5/11/22)

Ready/Certification

- Rodney working on Wiki update
- Rodney working on EdgeX Ready for Individuals presentation for TSC consideration

Social Media

- Blog post on Levski planning out this week
- Blog post coming on EdgeX Awards available for review and posted once ceremony held

Events

- Wait and see mode
- Hackathon decision by July 1

Next meeting Monday June 27th at 9am PST

WebSite Changes (order or priority)

- China website contract signed
- Looking at spend of funding for (\$4500 budget)
 - Security Audit issues
 - SEO updates (shared between English and China sites)
- Update some content (diagrams, et al) internal

Outreach WG

Looking for new leader

ADR PROCESS review

ADR name and PR number	Status	owner	Work Group
Develop UC/Requirements template	Available for review https://github.com/edgexfoundry/edgex-docs/pull/775	Farshid/Jim	
Parent/Child device relationship	Levski release	Eaton	Core
control plane events	Levski release	Lenny	Core
core data cache	Levski release		Core
Record and replay service	Future release		App Services
global configuration	EdgeX 3.0 item (not in scope now)		
URI reference (profiles, config, etc.)	EdgeX 3.0 item (not in scope now; may be sub part of global config)		

Document work

#685 L [build/run ARM32]

in progress

#641 L [EdgeX w/ K8s]

#599 L [build/run on Windows]

PR submitted

Nice to have

#643 M

#642 L

#598 L

#489 M (with #121, #21)

Miscellaneous

Jakarta Patch is out and CVE is now public (thanks Bryon)

- https://github.com/edgexfoundry/edgex-go/security/advisories/GHSA-g63h-g855-vp3g
- Will have public /social media post go out shortly (coordinated with LF)

LF Edge Conference in Austin

- June 20th
- https://events.linuxfoundation.org/open-source-summit-north-america
- LF Edge hosting a gathering there; project presentations

Github Discussions open for Device Services

https://github.com/edgexfoundry/device-sdk-go/discussions

Checking in on EdgeX Award winners - did you receive your Awards via mail?



Upcoming Tech Talks

<u>Tech Talks - mid-May through June</u>

- Revising the old tech talks
- ✓ May 31- Getting started (Jim)
- ✓ June 7 Build an AS (Lenny)
- ✓ June 14 Build a DS (Jim)
- June 21 Build a Device Profile w/ mention of Ready program (James)
- June 28 Getting started with Snaps (Canonical)

Registration Links

June 7-28: https://zoom.us/webinar/register/WN hyrYdafeR5mSM5oLcM75hA

