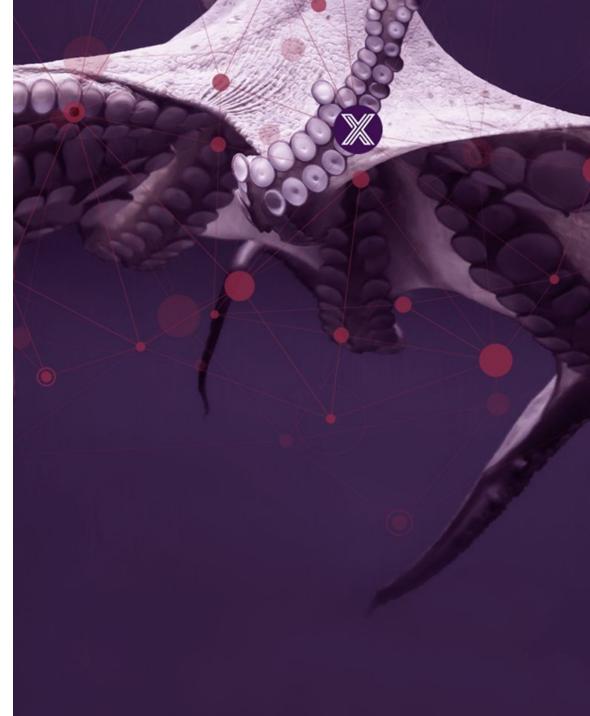


TSC Meeting

June 2, 2021



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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>	
IOTech Iain Anderson <u>iain@iotechsys.com</u>	Device Services WG Chair
Intel Ernesto Ojeda <u>ernesto.ojeda@intel.com</u>	Dev Ops WG Chair
IOTech Keith Steele <u>keith@iotechsys.com</u>	Outreach WG Chair
Kong Colin Hutchinson <u>colin@konghq.com</u>	Security WG Chair
Intel Mike Johanson <u>michael.johanson@intel.</u>	com Applications & Analytics WG Chair
IOTech James Butcher <u>james@iotechsys.com</u>	Test/QA WG Chair
IOTech Jim White <u>jim@iotechsys.com</u>	Core WG Chair

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 review
- Miscellaneous
 - EdgeX Foundry Jakarta planning pre-wire meeting
 - Jakarta planning meetings
 - TSC makeup, nominations, elections
- Upcoming Events (Dev Advocate)



Working Group Chair Updates

- Around the horn
 - Release Czar Bill Mahoney
 - Product Manager Lenny Goodell
 - Applications Mike Johanson
 - Device Services Iain Anderson
 - Test/QA James Butcher
 - DevOps Ernesto Ojeda
 - Security Colin Hutchinson
 - Outreach Keith Steele
 - Certification Rodney Hess
 - Marketing Camilo Dennis
 - Vertical Solutions (and LF Edge TAC) Henry Lau
 - Core/Supporting Jim White



Release Czar (June 2, 2021)

Ireland (2.0.0) Release - Key Dates

Freeze Date: Monday, June 21st, 2021 (2 weeks)

Release Date: Wednesday, **June 30th**, **2021** (4 weeks)



Product Manager (5/26)

Cross Cutting Issues

In Progress (11, +/-0)

- V2 Implementations
 - Support Notifications APIs WIP
 - TAF testing V2 APIs WIP
 - System Mgmt APIs WIP
- V2 Consumption
 - Support Notification Clients TBD
 - App SDK V2 Clients TBD
 - Device Camera DONE
 - C Device Services TBD
- V1 Code removal
 - Core/Support Services PR
 - App Services DONE
 - Device Services DONE
- Securing Consul with Access Token
 - C Device SDK TBD
 - C Device Services TBD
 - Security Services DONE
- Port Reassignment
 - Go Services DONE
 - C Services WIP (COAP)
- Metrics ADR WIP

- <u>Device Service send Events via</u>
 <u>MessageBus implementation</u>
 - Kuiper password inject WIP
 - Device Camera Done
 - Device SDK C DONE
 - C Device Services TBD
 - Core Data Subscribe DONE
 - Go Services DONE
- Consistent Service configuration
 - Core/Support/SysMgmt DONE
 - App Services DONE
 - Go Device Services DONE
 - Device SDK C TBD
 - Device Bacnet TBD
 - Device Grove TBD
 - Device Coap TBD
- Secret Provider for All
 - DS SDK C WIP
 - C Device Services TBD
 - Camera Device Service TBD
 - Go Services DONE

- Secure Message Bus connection
 - C Device SDK TBD
 - C Device Services TBD
 - Go Services DONE
- Service Key names & Clients Config overrides
 - C Device Services WIP
 - Compose DONE
 - Go Services DONE
 - TAF Scripts updated DONE

Done (15, +/-0)

- Switch to Go 1.16
- Switch to Redis as default MessageBus
- Docker image renaming
- See project board for more...

Backlog (1, +/-0)

Implement Generate/Inject passwords into Vault

Icebox (0, +/-0)

Applications WG Update (02-Jun-2021)

Done:

New Feature: Multiple HTTP Export

New Feature: Key/Values can now be added to context

Updated SDK to use common ServiceInfo struct

WIP:

Working with Kuiper on injecting secrets

Old WIP:)

- Reviewing edgexfoundry-holding/rfid-llrp-inventory-service Changes in-progress
- **Documentation Updates**

Application Services

Functions (built into SDK)

Current/Complete:

- AES Encryption
- **GZIP Compression**
- ZLIB Compression
- MarkAsPushed
- PushToCore
- Device Name Filter
- Value Descriptor Filter
- Batch
- AddTags
- JSONLogic Filtering
- XML Conversion
- JSON Conversion
- MQTT(S) Export
- HTTP(S) POST Export
- HTTP(S) PUT Export

NEW!

NEW!

Features

- Store and Forward
- Web Server
- Configurable App Service
- Vault Integration for Secrets
- MQTT Event triggers

NEW!

Reference/Example App Services (Geneva)

(built on top of SDK)

- Azure IoT Hub
- Amazon IoT Core
- IBM Watson IoT
- Cloud Event Transformation
- Secret Retrieval Example



Device Services WG Update (2-June-21)

Done

- RFID/LLRP device service adopted
- GPIO passed review
- device-camera to v2

Project status: 19 issues backlog + 4 new (net +1)

Next meeting: June 7th

Device Services - current/coming (as of v2.0)

Open Source connectors (Current):

- Modbus (TCP/RTU) in Go
- Virtual Device in Go
- SNMP in Go
- MQTT in Go
- BACnet (IP & MSTP) in C
- ONVIF Cameras in Go
- REST in Go
- Grove in C
- CoAP in C

Open Source connectors (Future):

- Bluetooth Low Energy in C (2021) contributed
- OPC-UA in C (2021) under dev
- GPIO (2021) contributed
- UART (2021) contributed
- GPS

Commercial connectors (Current):

- File Exporter in C
- 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 Pub/Sub in C
- ONVIF in C
- Siemens S7 in C

Commercial connectors (Future):

- ZeroMQ (Q1 2021)
- RFID (Q1 2021)

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

QA/Test WG Update (1st June)

- TAF tests
 - Status Around 9 failing TAF tests (420 passing)
 - Some will be fixed by:
 - #403 [Kong] connecting to original docker container IP after scheduler restart
 - <u>edge-go #3497</u>, Core Data Subscribe receives own messages published to MessageBus
 - James to check on the others and provide update
 - Fixed Issues
 - #108, #109 Create Support Notifications V2 API Test Cases
 - #436, Update scripts for new API Gateway for service keys names
 - #438, Update device-service configuration

TAF Functional Test Cases

os		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	Non Security	Redis	430	23	7	16
x86_64 / CentOS	Security	Redis	430	27	10	17
arm64 / Ubuntu	Non Security	Redis	430	23	9	14
arm64 / Ubuntu	Security	Redis	430	27	8	19

Jenkins Job: <u>functional-test</u>

TAF Integration Test Cases

os		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	Non Security	Redis	6	0	1	0
x86_64 / CentOS	Security	Redis	6	0	2	0
arm64 / Ubuntu	Non Security	Redis	6	0	1	0
arm64 / Ubuntu	Security	Redis	6	0	2	0

Jenkins Job: integration-test

TAF Performance tests

os		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	Non Security	Redis	10	10	0	10
arm64 / Ubuntu	Non Security	Redis	10	10	0	10

Jenkins Job: <u>performance-test</u>

DevOps WG Update (06-02-2021)

Pipeline Enhancements

- [In Progress] latest vs master docker tags, change needed in edgex-global-pipelines
- [IT-22180] Settings needed for device-rfid-llrp-go pipeline

Other

- Master → Main branch rename coming up after Ireland release.
- [In Progress] Developer Badging Program
- [Backlog] DockerHub Overviews for new docker images

Next DevOps WG Meeting Cancelled

Security WG Update (June 2)

- Next Meeting: Today & June 2
- Backlog
 - Security Board: 8 (-2)
 - Consul Board: 3 (0)
- Development
 - Security Board: 1 (+1)
 - Consul Board: 0 (0)
- In Review
 - Security Board: 1 (0)
 - Consul Board: 0 (0)
- Done
 - Security Board: 94 (+12)
 - Consul Board: 40 (0)



Outreach WG Updates (6/2/21)

Combining meetings going forward

Certification Team

- EdgeX Ready soft launch! https://wiki.edgexfoundry.org/display/FA/EdgeX+Ready
- First round feedback window closes this Friday, June 4th

Vertical Solutions Team

- Open Retail Reference Architecture sub-project:
 https://wiki.edgexfoundry.org/display/FA/Open+Retail+Reference+Architecture
- Next call tomorrow (6/3/21) at 10 a.m. PDT
- Adopter series for June will be the hour before the TSC F2F meeting on Tuesday June 22

Marketing Team

- China Web Site has been started.
- Translation should be done by June 11 with early preview for Chinese community around June 14th

Core Working Group (6-2-2020)

- Ireland
 - Notifications wrapping up
 - System Management PRs in; complete
 - V1 almost complete
 - TAF tests (following API work)
 - Documentation
- status
 - 11in backlog (even)
 - 11 in bug backlog (-1)
 - 2 in progress or QA(-1)
 - 212 done (+5)
- Next call 6/3/21 @ 8AM PDT
 - schedule interval runOnce
 - Jakarta scoping

ADR review (in order of priority)

ADR name and PR number	Status	owner	Work Group
Metrics / #268	Refreshed - needs review	Jim White	Core
ADR on dynamic service list / #377	Approval?? - updated per monthly architect's meeting (for pre-wire)	Jim White	Core
ADR on unit of measure / #386	New - needs review (per monthly architects meeting)	Jim White	Core

^{* -} indicates some work this week



Miscellaneous Issues/Topics

- Jakarta pre-wire will be June 4 (Friday), 8am-11 PDT
 - Should now have a calendar invite
 - Document of agenda (draft looking for inputs):

scope input

- https://drive.google.com/file/d/15vYawmByN7aE5T50NOJBXoiqdTjAsG2D/view
- https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=64716957
- Open to the public. TSC highly encouraged.
- Purpose limit scope discussions for Jakarta (what's possibly in and what's definitely out) and also talk a bit about 2.0.1
- Jakarta F2F planning meeting Jun 21-25, ½ day sessions (alt 7-11, 10-1)
 - Should now have calendar invites
 - Separate China update and feedback session in weeks shortly thereafter
- EdgeX Awards Ceremony still waiting on trophy arrival

TSC makeup

- I believe Core and TestQA are now practically one work group
- The same people are working on core and Test QA
- James and I come from the same company
- The management role can be merged
- Allowing for one more TST at large seat

Thoughts and discussion

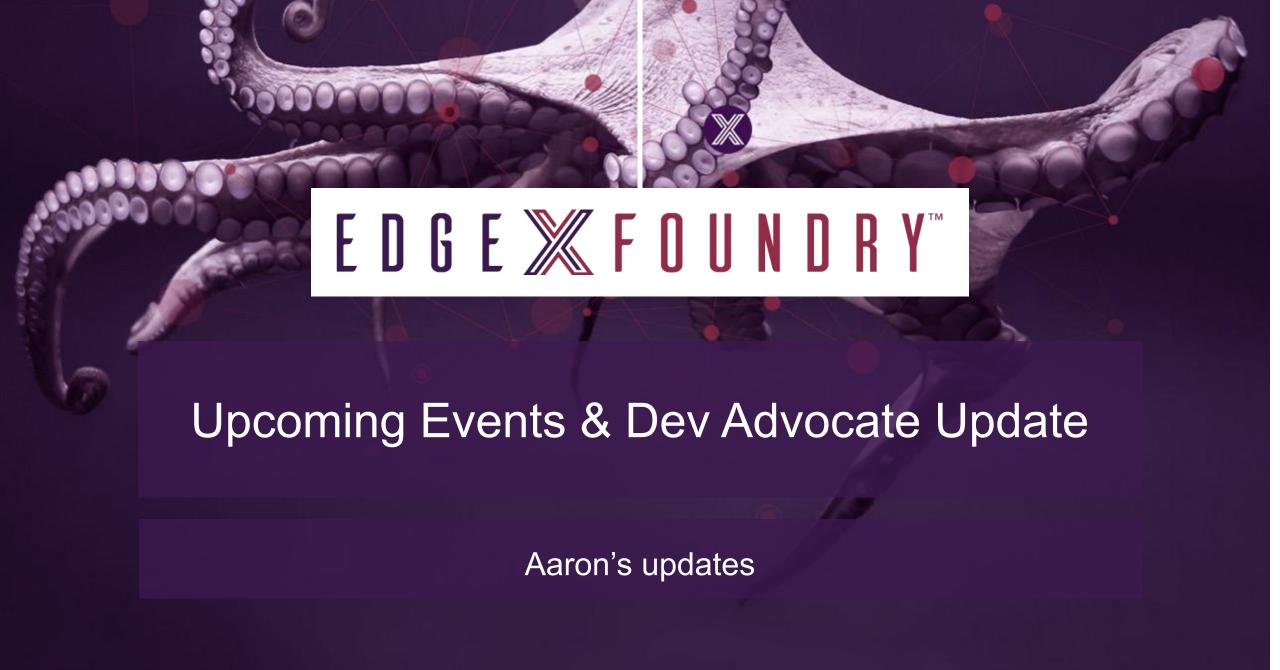
TSC Election Process

- Nominations for WG chairs and at large TSC seats May 19 until June 4 (June 11 for at large)
- WG chair elections week of June 7-11 (if needed)
- TSC at-large elections week of June 14-18 (if needed)
- TSC chair nominations week of Jun 21-25
- TSC chair election June 28th (if needed)

TSC Nominations

- I nominate the following
 - Applications Working Group chair: Mike Johanson Lenny Goodell
 - Device Services Working Group chair: lain Anderson
 - Dev Ops Working Group chair: Ernesto Ojeda
 - Core Working (and Test QA) Group chair: James Butcher
 - TSC at-large seats: Tony Espy
 - Security: Bryon Nevis
 - Open: Outreach (some potential candidates I am discussion with)
 - Roles
 - PM: Lenny
 - Release Czar: Bill Mahoney
 - Certification group leader: Rodney Hess
 - Vertical Solutions group leader: Henry Lau
 - Open: marketing group leader

Thanks Colin,
Mike and Keith
for their
service!



Upcoming External Events

Additional LF Edge events available at: https://www.lfedge.org/events/

- Open Source Summit Europe / Embedded Linux Conference: 27-30 September, 2021 Seattle, WA (and Virtual)
 - > CFP Deadline: 13 June, 2021
- OSPOCon: 27-29 September, 2021 Seattle, WA (and Virtual)
 - > CFP Deadline: 13 June, 2021
- The Global Open Source Technology Conference (GOTC): 9-10 July, 2021 Shenzhen/Shanghai
- > <u>loT Solutions World Congress</u>: 5-7 October, 2021 Barcelona, Spain
 - CFP closed (notifications in June)
 - Call for Testbeds (closed)
- Open Networking & Edge Summit North America: 11-12 October, 2021 Los Angeles, CA
 + Virtual
- › <u>KubeCon + CloudNativeCon North America</u>: 12-15 October, 2021 Los Angeles, CA + Virtual
 - > CFP is open (closes 23 May)
- Discussions around upcoming events occur in the LF Edge Outreach Committee
- Members may subscribe at: https://lists.lfedge.org/q/outreach-committee

Upcoming Project Events

EdgeX Foundry Adopter Series - Canonical EdgeX Snaps: 22 June, 2021

> Registration: https://zoom.us/webinar/register/WN_2BvbgjYNQZCKhx_U2F23Zg

More to follow...



Quick Recap- Goals

- 1. A reward/Thank-you to the community member for their hard work
- 2. Strengthen the connection with the new members by giving us another touch point to them. (if someone has done a commit, we really want them to do a second one.)
- 3. **Honor people** who are the bedrock of the community (more exclusive badges or verified ones).
- 4. Use our community to advertise EdgeX. By posting that they received a badge or including the winners in our blog posts, PR's, etc. others will see it.

Possible Badges

- On your 8th commit, you get an "Edgy" (Edgey?, Edgie?) (the mascot of the EdgeX)
 - So not everyone would get one and odds are you are not going to put in 8 PRs for oxford commas
 - Could also add a star for each factor (8^1, 8^2, 8^3 (512), 8^4 (doubt that we get here)
- Firefighter
 - Close out 2 "3-high" PRs
- Bug Catcher close out 1 PRs labeled bug
 - How many should it be to earn the badge?
- Doc Wizard 5 documentation updates. I would like to say meaningful, but not sure how to quantify this



Current Status

- Dev Ops is working on making this an automated process.
 - when your second bug fix is accepted, you receive an email with a thank you message, links to the wiki to show you how to install the badge and the badge itself.
 - needs to be automated because otherwise it will become too much of a burden.
- below are two samples, next version will be without the

octopus-bug



