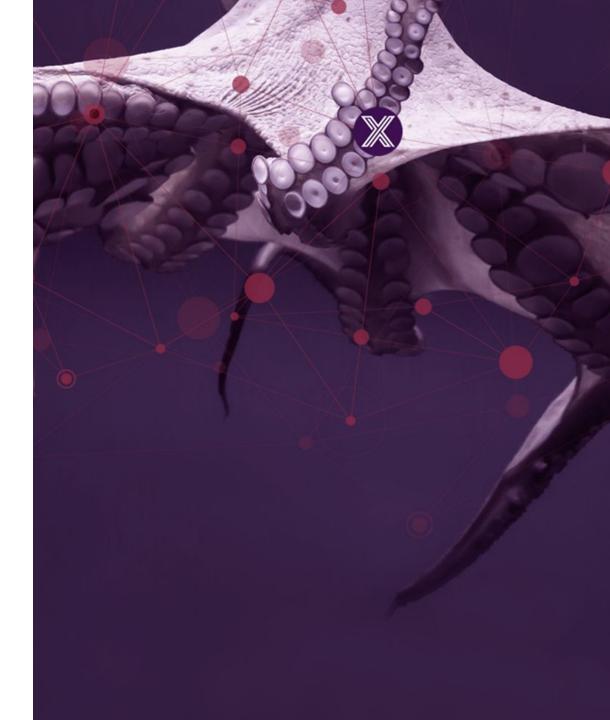
# $E D G E \mathbb{X} F O U N D R Y^{\mathsf{T}}$

## **TSC** Meeting

February 19, 2020

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## LF Antitrust Policy Notice

EdgeX Foundry meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

Examples of types of actions that are prohibited at EdgeX Foundry meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at <a href="http://www.linuxfoundation.org/antitrust-policy">http://www.linuxfoundation.org/antitrust-policy</a>. If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrove of the firm of Gesmer Updegrove LLP, which provides legal counsel to the Linux Foundation.

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## **Meeting Logistics**

Time: Wednesdays 8am PDT – 9am PDT

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



### $\mathsf{E} \ \mathsf{D} \ \mathsf{G} \ \mathsf{E} \ \bigotimes \mathsf{F} \ \mathsf{O} \ \mathsf{U} \ \mathsf{N} \ \mathsf{D} \ \mathsf{R} \ \mathsf{Y}^{\text{\tiny{\tiny T}}}$

## TSC – Members Present Today

<u>Company</u>	Name	<u>Email</u>	
Intel	Brad Corrion	bradley.w.corrion@intel.com	
IOTech	lain Anderson	iain@iotechsys.com	
Intel	James Gregg	james.r.gregg@intel.com	
IBM	Joe Pearson	joe.pearson@us.ibm.com	
IOTech	Keith Steele (TSC Chair)	keith@iotechsys.com	
VMware	Malini Bhandaru	mbhandaru@vmware.com	
Intel	Mike Johanson	michael.johanson@intel.com	
IOTech	Robin Chattergee	robin@iotechsys.com	
Beechwoods	Rodney Hess	rodney@beechwoods.com	
RSA	Tingyu Zeng	tingyu.zeng@rsa.com	
Canonical	Tony Espy	espy@canonical.com	
Dell	Trevor Conn	Trevor.Conn@dell.com	
Dell	Michael Estrin	m.estrin@dell.com	

### Current quorum = 7 members

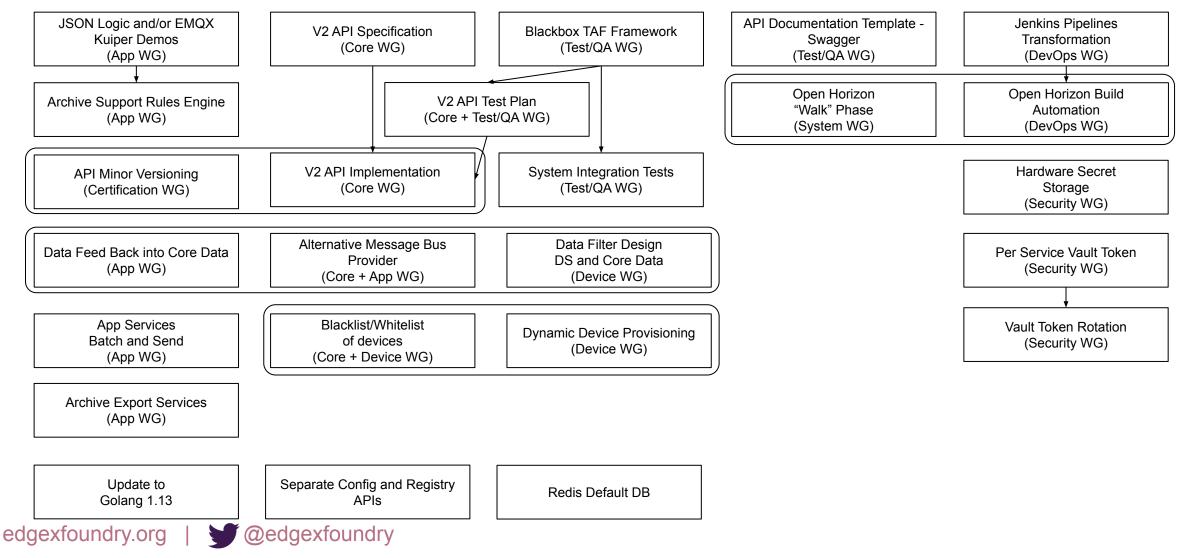
Note: Quorum for TSC meetings requires at least fifty percent of all voting members of the TSC to be present. The TSC may continue to meet if quorum is not met, but will be prevented from making any decisions at the meeting. Except as provided in Section 7.c. and 8.a, decisions by vote at a meeting require 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.

## Today's Agenda

- Lisa's Release Czar Readout
- WG Updates
- Upcoming Events



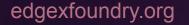
### EdgeX Geneva Release Overview



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### Work Group Updates

Chairs





## Working Group Chair Updates

- Around the horn
  - Core/Supporting Trevor Conn
  - Applications Mike Johanson
  - Device Services Iain Anderson
  - Test/QA Robin Chatterjee
  - DevOps James Gregg
  - Security Malini Bhandaru and Tingyu Zeng
  - System Management Michael Estrin
    - Open Horizon Joe Pearson
  - Certification Rodney Hess
  - Vertical Solutions Camilo Dennis and Henry Lau
  - Updates from Release Czar Lisa
  - Updates from Dev Advocate Aaron

### Core Working Group (19-Feb-20)

- V2 API Scaffolding Work -- On Hold
  - Redefinition of scope required per Architect's Meeting 18-Feb
- Moving to Go  $1.13 \rightarrow$  Essentially done
  - Final review / merge on <a href="https://github.com/edgexfoundry/edgex-go/pull/2348">https://github.com/edgexfoundry/edgex-go/pull/2348</a>
- Redis as default DB for unsecured EdgeX
  - Still under review <a href="https://github.com/edgexfoundry/edgex-go/pull/2335">https://github.com/edgexfoundry/edgex-go/pull/2335</a>
- Core WG tomorrow is <u>cancelled</u>



## Applications WG Update (19 Feb 2020)

- $\circ$  Ability to handle insecure secrets when vault is not used
  - PR#285 is now open
- PR #271 Merged Batch and Send
- All App Service Examples in holding updated to Go 1.13

Next up:

- adding endpoint for storing secret through SDK to vault leveraging go-mod-secrets
- $\circ$  JSONLogic
- App Working Group Meeting held on Fridays @ 9AM PST
  Next meeting Friday, Feb 21st Lenny will run the meeting

## **Application Services**

### Functions (built into SDK) Current/Complete:

### Fuji

- AES Encryption
- GZIP Compression
- ZLIB Compression
- MarkAsPushed •
- PushToCore
- EXPERIMENTAL

### Edinburgh

- Device Name Filter •
- Value Descriptor Filter
- XML Conversion •
- **JSON** Conversion •
- MQTT(S) Export
- HTTP(S) POST Export

Reference/Example App Services (Fuji) (built on top of SDK)

- Azure IoT Hub
- Amazon IoT Core





### Features

- Store and Forward
- Web Server
- Configurable AppService

### Device Services WG Update (19-February-20)

- Go SDK: Discovery implementation in draft
- C SDK: v2 API merged
- device-rest-go: Ready for release



## **Device Services - current/coming**

Open Source connectors (Current):

- Modbus (TCP/RTU)
- Virtual Device
- Grove C ARM only
- SNMP
- MQTT
- BACnet (IP & MSTP) •
- **ONVIF** Cameras

Open Source connectors (Future):

- OPC-UA (Geneva?)
- GPS
- Bluetooth (Feb 2020) •
- REST (Feb 2020)
- BLE in Go for Thingy 52 (lan Johnson)

Commercial connectors (Current):

- GPS
- MEMS
- Zigbee
- Bluetooth
- EtherCat
- PROFINET

Commercial connectors (Future):

- CAN SocketCAN, CANopen
- EtherNet/IP
- Siemens s5/s7

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## Test/QA WG Update (12-02-2020)

- Blackbox Test
  - Issue opened for failed testcases Ο
    - Issue <u>#384</u> on blackbox-testing for SMA operation "restart" failed on Arm
    - Issue <u>#386</u> on blackbox-testing for failed tests of valuedescriptor
    - Issue <u>#2237</u> on edgex-go will fix core-command test failure
  - Fixed issue Ο
    - Issue #343, Modify API path to go through Kong when security is enabled
  - **Reviewing PR** Ο
    - Draft PR <u>#385</u>, update database to use redis by default
    - Draft PR #374, run blackbox test on both database, mongo and redis
- New Blackbox Test
  - Merged PR <u>#14</u> on edgex-taf for how to run edgex-taf document
  - Merged PR #28 on edgex-taf for changing file structure
- Swagger
  - Opened PR <u>#2329</u>, for adding v1 API files to edgex-go repository under review
  - Draft PR <u>#2305</u> on edgex-go, will integrate the step of posting API files to SwaggerHub automatically Ο



## DevOps WG Update (02-19-2020)

### Geneva

- Jenkins Transformation to Pipelines
  - Work continues on the transformation to Jenkins Pipelines
    - Lisa is exploring work to look into full automation of the release WIP
    - Automation for the GitHub Issue labels WIP
    - EdgeX-Go Pipeline now in place
    - New bug identified and fixed related to Clair scans
    - git-senver unit testing identified need to refactor code
      - Assessment underway to scope the work involved to refactor git-semver

### CommunityBridge - Advanced Snyk Reporting

- EdgeX Foundry added to the CommunityBridge Vulnerability Reporting
  - Ticket still open with Heather Willson & David Deal / CommunityBridge team
  - No new updates from last week

Next Meeting 02/20/2020 @9:00 PST Ernesto Ojeda will cover meeting

## System Management WG Update (02-19-2020)

- System Management
  - Draft APIv2-specification merged; related work suspended
- CLI
  - Requested improvements underway
  - Expect a re-review update at Friday's meeting
- EdgeX-specific system-wide metrics follow up
  - Jim White has drafted an ADR
  - Issues with edgex-docs prevent PR
  - Expect to discuss in future WG meeting after PR is available
- Next meeting: February 21th @ 10AM CST

### **Open Horizon Update**

- Original POC has been refactored, migrated to <u>holding</u>
- Issues being created and worked on
  - First PR submitted by volunteer, merged
  - $\circ$  Feel free to grab one, if so inclined
  - Still working on breakdown
- Next up:
  - $\circ$   $\,$  Determine what tests to create
  - Grok build automation integration

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edgexfoundry-holding / open-horizon-integration

### Security WG Update (02-19-2020)

- Ongoing work for Geneva release (106 items done, 13 items in progress, 8 items backlog)
- Security discussion related to API V2 proposal
- Next security WG meeting in one hour, covering security objectives for API

## Certification WG Update (2-17-20)

- No meeting this week due to a holiday for some in the States
- Continued focus on the v2 API effort
- Next meeting Monday, February 24th, 9 a.m. PST



### Vertical Solutions WG Update (2/19/2020)

- Last call on Feb 18 10am PST
- 18 participants Intel, IBM, IOTech, Redis, RedIron, AppCard, Megh, GS1, HP
- Intel team went over the learnings from "Real time sensor fusion for loss detection at checkout reference solution" showcased at NRF, including reduce integration effort and ability focus on value add activities and innovation





### Dev Advocate

(see next slide taken from the TAC meeting- from Brett P.)



### **Upcoming External Events**

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

- > Open Networking & Edge Summit North America: 20-21 April, 2020 Los Angeles, CA
  - > CFP Notifications will be sent Tuesday, March 4
  - > New: ONES Unconference Track
    - > Originally coordinated by LFN; Expanding to include LF Edge (assuming LFE interest)
    - > Most topics will be scheduled on a **first-come**, **first-serve basis** (so **<u>Submit Today</u>**)
    - > Will publish initial schedule on March 24
  - > New: Call for LF Edge Booth Demos
    - > Demo ideas submissions due February 26
    - > See <u>Call for Demos email</u> for full information
    - > Submission form:

https://docs.google.com/forms/d/e/1FAIpQLSfwjEfCcWUKMfiK404Uu51ZI70-8lqcRFCKKQ5v W3eeLOGAfw/viewform

- > loT Build: May 12-13, 2020 Santa Clara
  - > LF Edge will host an edge track with several speaking sessions on May 12 in the afternoon
  - > If you're interested in speaking or moderating the track, please email

Maemalynn@linuxfoundation.org



## Miscellaneous (Jim)

- Release Czar change
  - Lisa Ranjbar is stepping down from her post after Geneva release
    - We want to thank Lisa for all the extraordinary work and help to the project
    - She will still be with us in DevOps, just not full time and
  - Jeremy Phelps has volunteer to step into the role TSC vote required
    - Former DevOps chair
    - Former LF technical staff
    - Member of Dell team
  - Transition plan
    - Starting March, Jeremy will shadow the devops meetings and Lisa's efforts throught the release
    - Requested Lisa document her role and tasks as Czar with the idea of formally ratifying that with the TSC and Jeremy going forward

## Miscellaneous (Jim)

- EdgeX Web site is getting a face lift contact Andy Foster or myself if you want to participate or get info
- Face-to-Face meeting in Ireland
  - Architect's planning and prewire meeting: March 31 in Raleigh
    - WG chairs and TSC members all invited; let me know who else should be invited
  - Registration now up. Please register early so that we can get an early indication of #'s
  - <u>http://www.cvent.com/d/nhqhc8/4W</u>
  - Current registrants: 21
    - IOTech 7
    - Intel 5
    - Dell 4
    - IBM 2
    - VMWare, Redis, HP all with 1

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### Upcoming Events



### Hanoi TSC

Arrangements for the spring TSC meetings has been finalized

- WG Chair/Architects Pre-Wire meeting will be March 31st (Tue)
  - Dell EMC office, Research Triangle Park, 62 T.W Alexander Dr., Durham, NC 27709, Room: Aspen Cedar, first floor, Capacity: 50
- Hanoi TSC F2F will be April 27-30
  - Dell IOT Lab, Limerick Ireland
  - April 27 Architect's day (invite only)
  - April 28-29 General planning sessions with business topics to lead off
  - April 30 Training day (additional hackathon or other planning meetings as necessary)

### **Upcoming External Events**

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

- > <u>Embedded World</u>: 25-27 February Nuremberg, Germany
  - Jim White: Extending EdgeX Foundry– How to Build an IoT Solution from an open source, platform independent framework
- > Industry of Things World: Mar 12-13 San Diego CA
  - > Henry Lau will be in attendance
- > <u>loT Tech</u>: Mar 17-18 London, UK
- > KubeCon EU 2020: 31 March 2 April, 2020 Amsterdam
  - > CFP closed 22 November
- > <u>lot World</u>: Apr 6-9 San Jose, CA
- > <u>Hannover Messe</u>: April 20-24 Hannover GE
- > Open Networking & Edge Summit North America: 20-21 April, 2020 Los Angeles, CA
  - > CFP Status: open til Feb 3
- > Open Source Summit North America: 22-24 June, 2020 Austin, TX
  - > CFP Status: open til Feb 16



https://www.lfedge.org/events/

Additional LF Edge events available at:

### **Upcoming External Events**

- > <u>IIOT World Day</u>: Jun 30-Jul 1
  - > Call for papers until March
- > Open Source Summit Japan: 15-16 September, 2020 Tokyo, Japan
  - > CFP Status: Details Available Late 2019
- Open Networking & Edge Summit Europe: 30 September 1 October, 2020 -Antwerp, Belgium
  - > CFP Status: Open til Jun 7, 2020
- > Open Source Summit Europe: 26-28 October, 2020 Dublin, Ireland
  - > CFP Status: Details Available Late 2019
- > IOT SWC: 27-29 Oct, 2020 Barcelona, Spain
- > Discussions around upcoming events occur in the LF Edge Outreach Committee
- > Members may subscribe at: <u>https://lists.lfedge.org/g/outreach-committee</u>



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### Thank You

