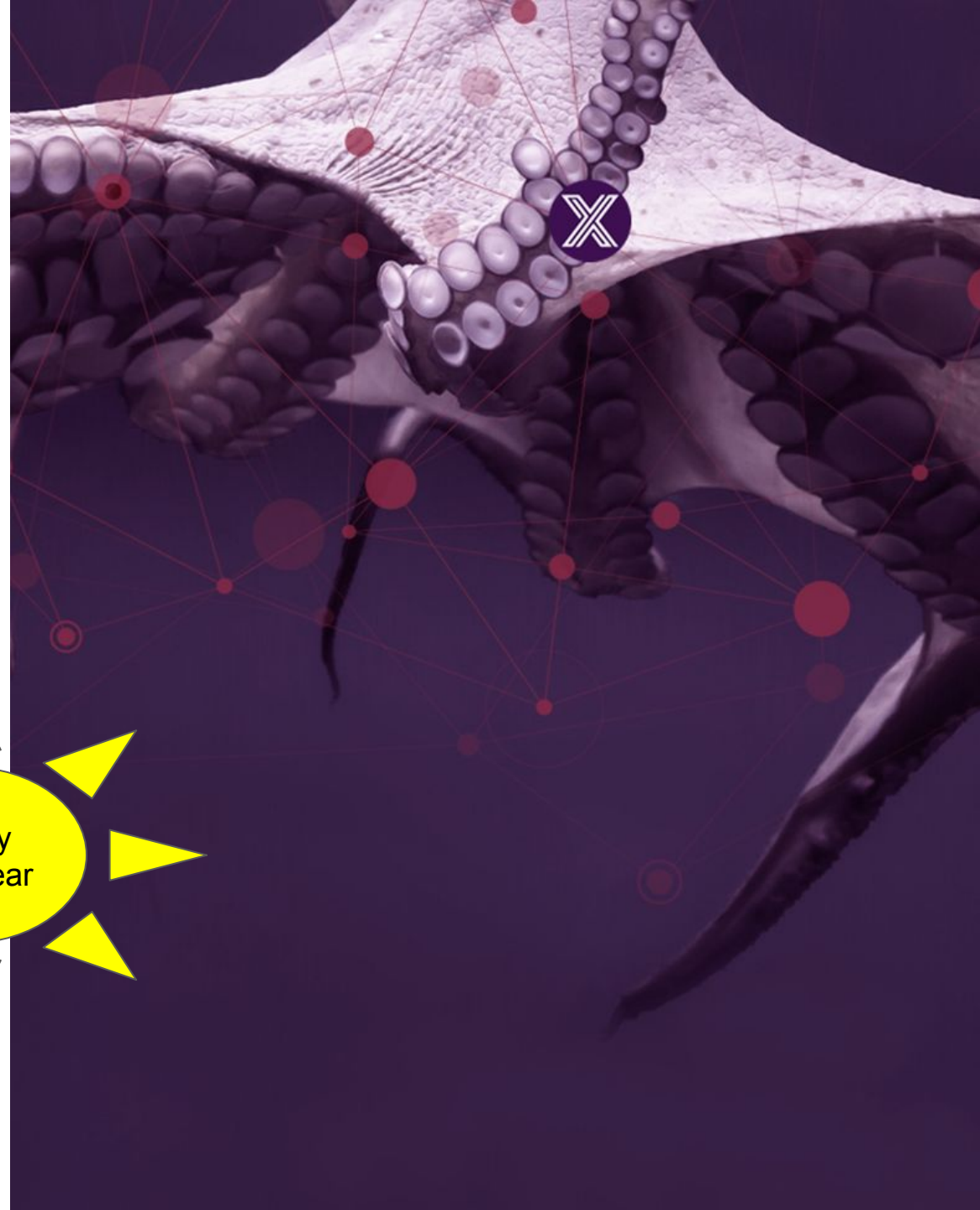
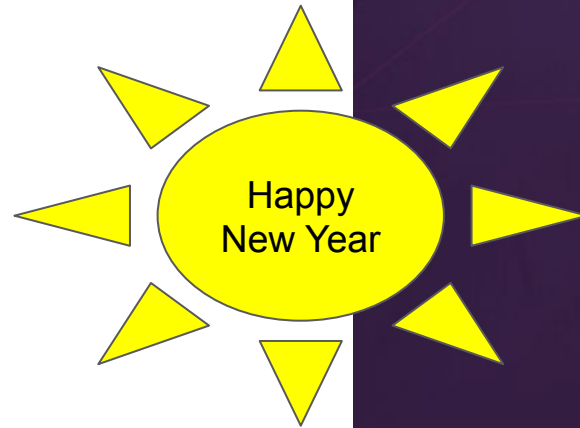


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# TSC Meeting

January 8, 2020



# LF Antitrust Policy Notice

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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 <http://www.linuxfoundation.org/antitrust-policy>. 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.

# 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/join?j=983155298>

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



# TSC – Members Present Today

<u>Company</u>	<u>Name</u>	<u>Email</u>
Intel	Brad Corrion	<a href="mailto:bradley.w.corrion@intel.com">bradley.w.corrion@intel.com</a>
IOTech	Iain Anderson	<a href="mailto:iain@iotechsys.com">iain@iotechsys.com</a>
Intel	James Gregg	<a href="mailto:james.r.gregg@intel.com">james.r.gregg@intel.com</a>
IBM	Joe Pearson	<a href="mailto:joe.pearson@us.ibm.com">joe.pearson@us.ibm.com</a>
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RSA	Tingyu Zeng	<a href="mailto:tingyu.zeng@rsa.com">tingyu.zeng@rsa.com</a>
Canonical	Tony Espy	<a href="mailto:espy@canonical.com">espy@canonical.com</a>
Dell	Trevor Conn	<a href="mailto:Trevor.Conn@dell.com">Trevor.Conn@dell.com</a>
Dell	Michael Estrin	<a href="mailto:m.estrin@dell.com">m.estrin@dell.com</a>

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

- Weekly arch decisions/actions summary
- WG Updates
- Upcoming Events



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# Weekly Architecture/Action Summary

Per Phoenix F2F

# Architecture Decisions / Discussions Summary

## Device Services WG

- REST DS now in main Github org. DevOps working on

## Certification

- Discussions on potential release options and impact to certification

## Test/QA WG

- Decision made to use TAF for API V2 testing as it roles out (done by Test/QA team)
- Optional - service level testing in tech of choice by dev teams

## Important upcoming meetings

- Core WG - discussion on Trevor's Geneva API proposal and estimate
- Test/QA - TAF framework implementation (or addition/alternate service level testing locally)
- Resource discussions

Future of these summaries being reconsidered. Let me know if you find them useful/repetitive or how they can/should be tweaked



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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
  - Certification - Rodney Hess
  - Vertical Solutions - Brad Corrion
  - Updates from Release Czar - Lisa
  - Updates from Dev Advocate - Michael

# Core Working Group (8-Jan-20)

- Welcome back and Happy New Year!
- Core WG tomorrow @ 10AM Central/US
  - Agenda will consist of discussion related to API V2 estimate
  - Cross-WG attendance is highly encouraged

# Applications WG Update (7 Jan 2019)

- In Progress
  - Continuing implementation of Batch And Send
  - Closed Issue #106 and #245
- App Working Group Meeting held on Fridays @ 9AM PST
  - Next meeting Friday, Jan 10th

# 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

## Features

- Store and Forward
- Web Server
- Configurable AppService

## Reference/Example App Services (Fuji)

(built on top of SDK)

- Azure IoT Hub
- Amazon IoT Core

AVAILABLE

WIP

# Device Services WG Update (8-January-20)

- device-rest-go adopted
- BACnet CI infrastructure in place
- Design work for Geneva features ongoing
- Next meeting Jan 13th, introducing Visual Inference DS

# Device Services - current/coming

## Open Source connectors (Current):

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

## Commercial connectors (Current):

- GPS
- MEMS
- Zigbee
- Bluetooth

## Open Source connectors (Future):

- OPC-UA (Feb 2020)
- GPS
- Bluetooth (Feb 2020)
- REST (Jan 2020)
- BLE in Go for Thingy 52 (Ian Johnson)

## Commercial connectors (Future):

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

# Test/QA WG Update (08-01-2020)

- Blackbox Test
  - Fixed issue/PR
    - Removed Rules-engine testcases
    - Transmission issue on redis
    - Using docker-compose of developer-script for blackbox testing
    - Security blackbox tests failing
  - Reviewing PR
    - Draft PR [#371](#), sending tests through kong
    - PR [#362](#), enable SMA testcases
- New Blackbox Test
  - PR [#14](#), [#16](#) on edgex-taf still under review
  - Issue [#515](#) on ci-management opened for failing to create edgex-taf image
- Swagger
  - Opened draft PR [#3](#) on edgex-api-docs repository under review
  - Opened draft PR [#531](#) on ci-management repository under review

# DevOps WG Update (1-08-2020)

## Geneva

- Jenkins Production Environment
  - Recent outages - instability of the Jenkins environment
    - Network problem caused Jenkins init script to not execute properly (1/3/2020)
    - Openstack network controller problem (1/6/2020)
- Jenkins Transformation to Pipelines
  - GitHub Org plugin - install / configuration completed
  - Go Modules migration to Jenkins Pipelines completed
  - Application services migration to Jenkins Pipelines completed
  - Fixed bug with Clair scan stage of ARM64 images
    - We don't have an arm64 klar scanner image
  - Fuji Docs released

## CommunityBridge - Advanced Snyk Reporting

- Meeting with the CommunityBridge team before holidays
  - <https://jira.linuxfoundation.org/servicedesk/customer/portal/4/SUPPORT-715>
  - Ran into issues with the onboarding process for the Advanced Snyk Reporting
  - Next Steps - waiting for follow up with CB Team (Agnes)

Next Meeting 1/09/2020 @9:00 PST



# System Management WG Update (01-08-2020)

- Nothing to report; no working group meetings since last TSC meeting/report
- Next meeting: January 10, 2020

# Security WG Update (01-08-2020)

- Ongoing work for token provider server ( close to finish)
- Docker-compose file update in blackbox testing
- ARM testing platform provided by Linaro is ready
- Golang 1.13 compatibility with security component verified
- Geneva issues : 15; unscoped: 11
- Next security WG meeting in one hour & will be focusing on discussing existing issues & next release targets

# Certification WG Update (1-6-20)

- Discussion of the V2 API timeline
- Next steps: Skeletal framework for certification workflow
- Next meeting Monday, January 13th, 9 a.m. PST

# Vertical Solutions WG Update (China Project)

- China Meetup: ~100 participants / VMware, Linux Foundation, Intel, JD.com, ThunderSoft, WayCloud, EMQ, Microsoft presented slides explaining their eco-system plans, solutions & products.
- In the afternoon sessions, deep-dive coding and hands-on sessions were arranged for developers.
- Preparation meeting of EdgeX China Project: co-hosted by Gavin (VMware) and Melvin (Intel), more than 20 persons jointly reviewed & discussed draft plan of EdgeX China Project in general, and Hackathon planned for March 2020.

# Release Czar - 01/08/20

- Fuji docs released
- Device-bacnet-c release is being finalized:
  - LF support ticket opened for docker image release:
  - <https://jira.linuxfoundation.org/servicedesk/customer/portal/2/IT-18677>
- Started a discussion with Device WG on standardizing the C device service builds to streamline the release of device services.
-

# Miscellaneous (Jim)

- UI Project
- Docs update
- Good first/Help wanted tags
- Developer Advocate update
  - Potential replacement found?
- Face-to-Face meeting in Ireland: need an event manager
  - Someone that will organize / coordinate logistics with Dell local personnel there
  - Look for registration site shortly
- Is there any changes to this TSC meeting we should be considering for the new year?
  - How can we make it more productive?
  - How can we make it more helpful/useful to the technical leadership of our project?
  - What should we start? What should we stop?



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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

- › [Embedded World](#): 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
- › [IoT Tech](#): Mar 17-18 - London, UK
- › [IoT World](#): Apr 6-9 - San Jose, CA
- › [KubeCon EU 2020](#): 31 March - 2 April, 2020 - Amsterdam
  - › CFP closes 22 November
- › Open Networking & Edge Summit North America: 20-21 April, 2020 - Los Angeles, CA
  - › CFP Status: Details Available Late 2019
- › Open Source Summit North America: 22-24 June, 2020 - Austin, TX
  - › CFP Status: Details Available Late 2019
- › 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: Details Available Late 2019
- › Open Source Summit Europe: 26-28 October, 2020 - Dublin, Ireland
  - › CFP Status: Details Available Late 2019
- › Discussions around upcoming events occur in the LF Edge Outreach Committee
- › Members may subscribe at: <https://lists.lfedge.org/g/outreach-committee>





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Thank You