

EDGE X FOUNDRY™

TSC Meeting

Jun 24, 2020



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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/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>	<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	Keith Steele	keith@iotechsys.com	Outreach WG Chair
Kong	Colin Hutchinson	colin@konghq.com	Security WG Chair
Intel	Mike Johanson	michael.johanson@intel.com	Applications & Analytics WG Chair
IOTech	James Butcher	james@iotechsys.com	Test/QA WG Chair
IOTech	Jim White	jim@iotechsys.com	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.

Today's Agenda

- WG Updates
- Outreach structure/organization
- Fledge/EdgeX collaboration project
- TAC representative
- Repository access needs
- Upcoming EdgeX User presentations
 - Accenture June 30
 - Jaingxing Intelligence July 28
- Upcoming Events (Dev Advocate)



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Work Group Updates

Chairs

Working Group Chair Updates

- Around the horn
 - Product Manager - Lenny Goodell
 - Release Czar - Lisa Ranjbar
 - 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 - Henry Lau
 - Core/Supporting - Jim White

Product Manager (6/24/20)

- Closed old and unused Project Boards
- Working with WGs on using their Project Boards
 - Weekly Kunban review.
 - Reconciled all open issues assigned a project
- Created Cross Cutting Issues Project Board
 - Tracks issues across repos ==>
 - Populated with items from Hanoi vF2F

The screenshot displays the Jira interface for the EdgeX Foundry Project. At the top, navigation links include Repositories (100), Packages, People (75), Teams (100), and Projects (10). A 'Cross Cutting Issues' section is visible, updated 37 minutes ago. Below are four project boards:

- Ice Box (4 items):**
 - explore possible collapse of core command *** and metadata (Added by lenny-intel)
 - EdgeX Go services move to Go 1.15 (Added by lenny-intel)
 - EdgeX Metrics Collection & Control Plane Event Handling (Added by lenny-intel)
 - V2 API Consumption (Added by lenny-intel)
 - Device SDK ON-HOLD [edgexfoundry/device-sdk-go#528](#) ON-HOLD [edgexfoundry/device-sdk-c#210](#)
 - App Functions SDK ON-HOLD [edgexfoundry/app-functions-sdk-go#370](#)
 - Edgex Core Services ?? (Added by lenny-intel)
- Backlog (5 items):**
 - Drop Logging Service completely (Added by lenny-intel)
 - deprecate Mongo (Added by lenny-intel)
 - Allow device services to be distributed to alternate hosts (Added by lenny-intel)
 - Generate/Inject random passwords into Vault (Added by lenny-intel)
 - Message Bus from Device Service to App Services (Added by lenny-intel)
 - TBD [edgexfoundry/device-sdk-go#530](#)
 - TBD [edgexfoundry/device-sdk-c#258](#)
- In Progress (3 items):**
 - V2 API Implementations (no consumption) Core Contracts WIP [edgexfoundry/go-mod-core-contracts#235](#) Edgex Core services No issues created, yet Device SDKs TBD [edgexfoundry/device-sdk-go#529](#) WIP [edgexfoundry/device-sdk-c#257](#) App Function SDK WIP [edgexfoundry/app-functions-sdk-go#368](#) (Added by lenny-intel)
 - Refactored Compose files (Added by lenny-intel)
 - WIP - [edgexfoundry/developer-scripts#281](#)
 - WIP - [edgexfoundry/blackbox-testing#452](#)
 - WIP - [edgexfoundry/edgex-taf#122](#)
 - DONE - [edgexfoundry/ci-management#610](#)
 - WIP [edgexfoundry/ci-build-images#135](#)
 - Remove Client Monitoring (Added by lenny-intel)
 - WIP [edgexfoundry/edgex-go#2594](#)
 - TBD [edgexfoundry/device-sdk-go#542](#)
 - TBD [edgexfoundry/device-sdk-c#272](#)
 - WIP [edgexfoundry/app-functions-sdk-go#385](#)
 - TBD [edgexfoundry/go-mod-core-contracts#245](#)
 - TBD [edgexfoundry/go-mod-bootstrap#80](#)Once all these are complete the device service and app service configurable need issues to update with latest SDKs and remove `ServiceInfo.ClientMonitor` from all configs.

- Done (0 items):**

Release Czar (6/23/20)

- Testing frameworks have been tagged for the Geneva dot release (1.2.1)
- Release of device-grove-c (1.2.0) has been completed as well

- Open PR for Release Artifacts ADR (0010)
 - <https://github.com/edgexfoundry/edgex-docs/pull/165>
- Incoming Updates to the Release Automation ADR (0007)
 - This is to address the problems with releasing the dev versions of docker images and snaps

Let's get started on Hanoi!

Applications WG Update (24-Jun-2020)

Complete:

- Examples updated to default to redis instead of mongo
- Examples updated to default to non-secure mode

WIP:

- Conforming to V2 API Spec

- App Working Group Meeting held on Fridays @ 9AM PDT
 - Next meeting June 26th, 2020

Application Services

Functions (built into SDK)

Current/Complete:

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

NEW!

NEW!

Features

- Store and Forward
- Web Server
- Configurable App Service
- Vault Integration for Secrets
- MQTT Event triggers (via go-mod-messaging)

NEW!

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

AVAILABLE

AVAILABLE

NEW!

Device Services WG Update (24-Jun-20)

- Grove DS (C) released
- Updating requirements documentation
- Setting up project for Hanoi work

Next WG meeting June 29th

Device Services - current/coming (as of 5/7/20)

Open Source connectors (Current):

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

Open Source connectors (Future):

- Bluetooth in C (summer 2020)
- BACnet (IP & MSTP) in C (summer 2020)
- OPC-UA in C (summer 2020)

Commercial connectors (Current):

- File Exporter in C
- BLE in C
- Zigbee in C
- GPS in C
- CAN in C
- MEMS in C
- EtherCat in C
- Profinet in C

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

Commercial connectors (Future):

- EtherNet/IP in C (summer 2020)
- CanOpen in C (summer 2020)
- OPC-UA Pub/Sub in C (summer 2020)
- ONVIF in C (summer 2020)

Test/QA WG Update (06-23-2020)

- Postman blackbox test
 - Working issues
 - Issue [#452](#), update to use new multi-file compose file
 - Fixed
 - Issue [#127](#), switched test images to use the Geneva dot release on Geneva branch
- TAF blackbox test
 - Working issues
 - Issue [#122](#), update to use new multi-file compose file
 - PR [ci-build-image#135](#), pending to build compose image - DevOps to assist please
 - Fixed
 - Resolved permission denied and docker issues on CentOS boxes. All tests now pass
- New Business
 - Agreed to drop backward compatibility tests in security mode - not valid usage
 - Agreed to remove Mongo testing from the Postman Blackbox tests - will reduce test load

Postman Blackbox 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	Mongo	1312	0	0	0
		Redis	1312	0	0	0
x86_64 / CentOS	Security	Mongo	1342	0	0	0
		Redis	1342	0	0	0
arm64 / Ubuntu	Non Security	Mongo	1312	0	0	0
		Redis	1312	0	0	0
arm64 / Ubuntu	Security	Mongo	1342	0	0	0
		Redis	1342	0	0	0

TAF Functional Blackbox 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	52	52	0	52
x86_64 / CentOS	Security	Redis	52	52	0	52
arm64 / Ubuntu	Non Security	Redis	52	0	0	0
arm64 / Ubuntu	Security	Redis	52	0	0	0

TAF Integration Test Cases

Integration 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	6	6	0	6
x86_64 / CentOS	Security	Redis	6	6	0	6
arm64 / Ubuntu	Non Security	Redis	6	0	0	0
arm64 / Ubuntu	Security	Redis	6	0	0	0

Compatibility 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	12	12	0	12
x86_64 / CentOS	Security	Redis	12	12	0	12
arm64 / Ubuntu	Non Security	Redis	12	0	0	0
arm64 / Ubuntu	Security	Redis	12	0	0	0

DevOps WG Update (06-24-2020)

Hanoi

- **WIP**

- Build Optimizations for edgex-go
 - git-semver support
 - Opens around cleanup of “-dev” tags
- edgex-global-pipelines new features:
 - SwaggerHub global library
 - Code and unit tests written, Functional testing with sample-service
 - Parallelized docker build global library
 - Code and unit tests written, currently functionally testing on the LF sandbox

- **DevSecOps**

- James wrapping up explore for Issue #1947 - vetting of OSS dependencies
 - Recommendation is to drop FOSSA and keep using Snyk + CB Advanced Snyk reports
 - James will post write up here when ready: <https://github.com/jamesgregg/1947-explore>
- Community Bridge Feature Requests
 - Transitive dependencies for Go modules - findings don't match other tools like Sonatype - No Update “*crickets*”

- **Other**

- James working with LF to add PR Template as part of the repo creation process, using app-functions-sdk-go's as base template
- Code Signing - lftools /sigul replacement
- LFTools / Sigul latest version that supports Python 3.x
 - LF is now considering an alternative signing tool - clarified that this is a future roadmap item - uncommitted
 - LF encountered some of the challenges within their fork trying to refactor sigul to support the latest Python 3.x - **WIP**

Next DevOps WG Meeting 06/24/2020 @9:00AM PST

Security WG Update (06-24-2020)

- New working group chair
- Hanoi release working items in progress/review
- SIR team update - No major issues found
- Security WG meeting
 - Remote service demo by Jim Wang of Intel

Outreach WG Updates (6/23/20)

Certification Team

Vertical Solutions Team

Marketing Team

Certification WG Update (6-15-20)

- Determining documentation requirements for the cloud templates
- Discussion on marketing needs for the Endorsement program
- Next meeting is Monday, June 29th, 9 a.m. PDT

Vertical Solutions WG Update (June 17, 2020)

- Next meeting: 6/30, Tues, 10:00am CDT
 - Accenture AIP+ adoption of EdgeX
- Recent meetings: Use cases, and opportunities for EdgeX community
 - 5/12 [Conexus](#): Convenience stores technology standards and use cases
 - 5/26 [Appcard](#): Customer Engagement solutions ISV, use cases for grocery stores and QSRs
 - 6/9 [RF Rain](#): RFID ODM, use cases across various verticals
- Last 2 meetings with 30+ attendees

Marketing update (6/10/20)

- Continue to drive Website project with El Roboto (3rd party)
 - Folder with key documents milestones and information at the Marketing WG wiki <https://wiki.edgexfoundry.org/display/FA/Marketing+WG>
- Geneva landing page created (Thank you Andy!)
- Topcoder Challenge
 - Working to secure SME(s) for second topcoder challenge
- Pulse with meeting participants. Start, Stop, Continue for Marketing meeting.

Core Working Group (23-Jun-2020)

- Decision was made to remove client monitoring (see issue [2594](#))
 - Decision listed in the release scope decisions and arch notes wiki
- Work continues on V2 API
 - DTO PR still under review
 - Controller/Handler Events PR pending completion of DTO PR
- Next call - 6/25/20 @ 10AM US/Central tomorrow
 - Please send any agenda items
 - Topics this week:
 - API V2 - close out DTO PR?
 - Review Hanoi scoping (core, sys mgmt, UI)

	Closed Issues	Working Issues	New Issues
edgex-go	2557 (PR)	2594, 2584	
contracts mod	243	235	245
bootstrap mod			38

Miscellaneous Issues/Topics

- EdgeX elections
 - TSC at-large (done today)
 - TSC Chair
- Outreach structure/organization
 - General charter, goals, org structure has been achieved (thanks Camilo, Henry, Rodney, Keith)
- TAC representative
 - Henry Lau has been nominate to take EdgeX's TAC position
 - Need TSC approval
- New chairs - send me a list of repositories you need committer rights to
 - TSC chair automatically get committer rights
 - You can nominate additional committers - need 2 add'l TSC approvals
 - Wiki, Zoom, Slack, etc. access should be available - let me know if you run into issues
- Upcoming EdgeX User presentations
 - Accenture June 30
 - Jaingxing Intelligence July 28



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Additional Topics

Fledge/EdgeX collaboration

Fledge/EdgeX Collaboration

- Background
 - Fledge project seeking to move from LF Edge Stage 1 to Stage 2
 - As part of that process collaboration with EdgeX suggested would be beneficial to their case
 - High degree of overlap between the projects
 - Initial discussions led to following suggestion
- Preferred Option "Basic Interoperability"
 - The ability to exchange data between our projects
- Next Steps
 - Form small group from TSC to assist Fledge
 - Initial call tomorrow evening - 6pm UK time

LF Edge TAC/ Project Recognition Process

- Update on TAC
 - Jim White stepped down as the EdgeX TAC representative to focus on EdgeX activities
 - Henry Lau has volunteered to take over TAC role - Thanks Henry
- TAC Recognition Process
 - Recent events in the TAC have again highlighted issues with LF Edge stage recognition process
 - Process for stage recognition and advancement unclear and open to interpretation
 - This is important because stage dictates resources project receives from LF Edge and marketing focus
 - Also important because LF Edge has permitted projects with large overlap with EdgeX to be admitted to LF Edge
 - Stage process was 'home grown' by the TAC, and support from LF Edge for process has appeared to be lukewarm often leads to 'conflict' between projects rather than stated aim of harmonization and collaboration
 - Stages not very descriptive (ie Stage 1-4) and have only recently been added to LD Edge website with no explanation as to what stages mean
 - Do we want to propose changes?
- Possible Answers
 - LF Edge and TAC should be aligned on rules, and should be as one in following them
 - LF Edge are the ones with experience of running umbrella projects, should they not be the ones to construct the advancement rules and provide the resource to determine if a project qualifies?
 - Make stages more descriptive e.g. Stage 1 = Incubation, Stage 2 = Developing, Stage 3 = Premier



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Upcoming Events & Dev Advocate Update

Aaron's updates

Upcoming External Events

Full list of LF events available at:
<https://events.linuxfoundation.org/>

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

- › **“On the Edge with LF Edge” Webinars**
 - › Project EVE Webinar (May 29 at 9 am PDT):
 - › Register for the webinar!
https://zoom.us/webinar/register/8815888722994/WN_35oZJ3hrQE69snMaiJUTPg
- › [Open Source Summit North America](#): 29 June - 2 July, 2020 - Virtual
 - › 90 minute session(s) - July 2 at 12-1:30pm CST
- › [IIOT World](#): 30 June - 1 July, 2020 - Virtual
 - › Arpit Joshipura: “Uniting the Edge for Tomorrow’s Demands.”
 - › Jim White: “Using Open Source Technology to Manage IoT/Edge Solutions.”
- › [Open Source Summit Japan](#): 15-16 September, 2020 - Tokyo, Japan
 - › CFP Open: <https://events.linuxfoundation.org/open-source-summit-japan/program/cfp/>

Upcoming External Events

- › [Open Networking & Edge Summit North America](#): 28-29 September, 2020 - Los Angeles, CA
 - › [ONES Unconference Track](#)- **Virtual**
- › [Open Source Summit Europe](#): 26-28 October, 2020 - Dublin, Ireland-
 - › CFP Open: <https://events.linuxfoundation.org/open-source-summit-europe/program/cfp/>
- › [IoT Solutions World Congress](#): **MOVED** 11-13 May, 2021 - Barcelona, Spain
 - › Call for Testbeds Open: <https://www.iotsworldcongress.com/activities/testbeds/>
- › [Open Networking & Edge Summit Europe](#): TBD Q4, 2020 - Antwerp, Belgium- **Cancelled**
 - › CFP Open: <https://events.linuxfoundation.org/open-networking-edge-summit-europe/program/cfp/>

- › Discussions around upcoming events occur in the LF Edge Outreach Committee
- › Members may subscribe at: <https://lists.lfedge.org/g/outreach-committee>

Upcoming Project Events

- › none

- › Projects can add their events to this list by sending the Wiki page listing the information to info@lfedge.org



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Thank You