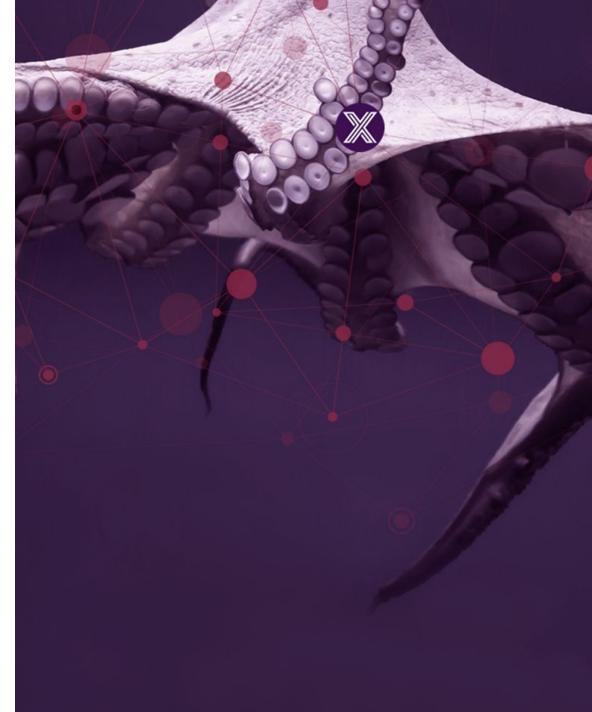


TSC Meeting

September 8, 2021



Antitrust Policy Notice

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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

- WG Updates
- Ireland Documentation
- Advantech Adopter Series
- TSC vote on new LTS Policy
- Issues and PR policy update
- EdgeX Challenge vote



Working Group Chair Updates

- Around the horn
 - 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 (8/8) - Jakarta

Cross Cutting Issues

In Progress (5, +1)

- Securing Consul with Access Token
 - C Device SDK TBD
 - C Device Services TBD
- Secure Message Bus connection
 - C Device SDK TBD
 - C Device Services TBD

Done (1, +1)

Quotes in TOML files inconsistent

Backlog (2)

- Implement Generate/Inject passwords into Vault
- Support complex object types in Reading

- Secret Provider for All
 - DS SDK C DONE
 - C Device Services T

No Update this week

- PR templates require Docs PK IINK
 - Device SDK DONE
 - App SDK DONE
 - ASC DONE
 - Remaining TBD

.

Metrics ADR - WIP

Related Docs PR now required (if applicable)

Related Docs PR: edgexfoundry/edgex-docs#551

Applications WG Update (09/08/2021)

Completed

- Pipeline per Topic
 - https://github.com/edgexfoundry/edgex-docs/pull/551 (Draft for Jakarta)

WIP

Nothing

eKuiper

No update this week

Next

- Disposition Bug #500 (try to recreate)
- Look at enhancing Pipeline per Topic for multiple topics
- Catch up on any new issue filled

Application Services - Ireland

Functions (built into SDK)

- Add Tags
- Batch
- Compression (GZIP & ZLIB)
- Conversion (XML & JSON)
- PushToCore
- MarkAsPushed
- Encryption (AES)
- Export
 - MQTT
 - HTTP POST & PUT
- Filtering
 - By Profile Name
 - By Device Name
 - By Source Name
 - By Resource Name
- JSONLogic
- Set Response Data

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
 - Logging, Event
 - Command
 - o Device, DeviceService
 - DeviceProfile
 - Notification
 - Subscription
 - Registry

Reference/Example App Services

(built on top of SDK)

- Simple Filter
- Simple Filter and MQTT Export
- Simple Filter and HTTP Export
- Simple CBOR
- Azure IoT Hub
- Amazon IoT Core
- Cloud Event Transformation
- Secret Retrieval
- JsonLogic

- Send Command
- Convert & Publish
- Custom Target Type
- IBM Watson IoT (ASC Profile)
- Custom Trigger
- Influx DB Export
- Fledge Export

Core WG Snapshot (08 Sep 2021)

- Ireland / 2.0.1
 - Documentation nearing completion
 - <u>Performance results</u> and <u>performance report</u> now complete
- Jakarta:
 - TAF: All passing. 541 Functional, 32 Integration, 10 Performance.
 - WIP: Config testing
 - Ongoing discussions Complex Object Types #3679

Core Project Board Status

- 2 New Issues (-5)
- 17 Release Backlog (+5)
- 0 Bug Backlog (+0)
- 1 In Progress/QA (+0)
- 38 Done (+1)
- 4 Jakarta Stretch (+0)
- 7 Icebox (+0)

QA/Test Project Board Status

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

Device Services WG Update (8-Sep-21)

No update this week

Next meeting: September 13th

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
- GPIO in Go

Open Source connectors (Future):

- LLRP / RFID in Go.
- UART 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 (09-08-2021)

Pipeline Related

- [Backlog] Alpine 3.12 Security Support Ends May 1, 2022, suggest moving to Alpine 3.14 May 1, 2023
 - https://endoflife.date/alpine
 - golang:1.16-alpine3.14 is available
- [Backlog] LTS artifact rebuild planning.
 - Potential pipeline/release changes required to accommodate rebuilding of artifacts.

Other

- [In Progress] Spike Developer Badge Program
- [Hold] Master --> Main branch rename.
 - [Hold] /edgexfoundry All done except edgex-docs

Next DevOps WG Meeting Thursday, September 9, 2021 @ 9AM PDT

Release Czar (09-08-2021)

Current Release Activity:

None this week

Prior Release Activity:

- (Complete)(August 20) app-rfid-llrp-inventory (1.0.0)
- (Complete)(August 20) device-rfid-llrp-go (1.0.0)
- (Complete)(August 4) app-functions-sdk (2.0.1)
- (Complete)(August 4) app-service-configurable (2.0.1)
- (Complete)(August 4) device-coap-c (2.0.1)

Security WG Update

Next Meeting: Today & September 15

- Closed two due to inactivity or nothing to do.
- +5 more fixes up for review, +2 going from draft to review
- LFX code scanning is going to have a facelift soon. Awaiting details.
- Today's topic: "Secrets retry loop impacts device callbacks"

Security Project Board Status

- 1 New Issues (+1)
- 5 Release Backlog (-7)
- 1 In Progress/QA (+0)
- 7 In review (+5)
- 11 Done (+2)

Secure Consul Project Board Status

- 2 Phase 1 To-do
- 1 Phase 2 To-do
- 4 Phase 3 To-do

Updates on EdgeX in Chinese speaking regions

Upcoming events with EdgeX in September

- Sep 16th: Edge Cloud open source software summit by 5G MEC associations in Shanghai (face-to-face)
- Sep 24th: EdgeX workshop by Advantech in Taiwan (virtual)
- Sep 25-26th: F2F competition of EdgeX challenge 2021
 - (Shanghai, Beijing, Shenzhen) (face-to-face)
- Sep 27th: ACE (AI, Cloud, Edge) summit & EdgeX Q3 meetup co-hosted by VMware & Intel in Beijing (virtual)



Outreach WG (9/15/21)

Certification

Research ongoing

Vertical Solutions

- Open Retail Reference Architecture sub-project
 - Demo available under project page
- Advantech Sept 14, 8am PDT registration link now available on web site

Working on Events for 2022 & Blog/Vlog topics for fall

ADR review (in order of priority)

ADR name and PR number	Status	owner	Work Group
Metrics / #268	Needs review	Jim White	Core
ADR on dynamic service list / #377	Needs review	Jim White	Core
ADR on unit of measure / #386	Needs review	Jim White	Core
ADR on V2 CLI/Client / #525	Needs review	Siggi Skulason	Core

^{* -} indicates some work this week



Miscellaneous topics and announcements

- EdgeX Challenge 2022
 - TSC vote requested (via email)
- Issue and PR policy
 - Draft change proposed to a few members of TSC for reaction
 - Vote coming soon
- LTS Policy Change
 - TSC vote requested
 - see https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=69173332

Ireland Documentation remaining to-dos

✓ Intro

Getting Started

- ✓ Quick start
- ✓ Getting Started with Docker
- ✓ Getting Started with Snap
- ✓ Getting Started Developers
 - ✓ Getting Started Go Developers
 - ✓ Getting Started C Developers
 - ✓ Working in a Hybrid Environment
 - ✓ App Functions SDK
 - ✓ Device Services SDK
 - ✓ C SDK
 - ✓ Go SDK

Tools; CLI

✓ Security (multiple pages)

Microservices

- ✓ Cross Cutting
- ✓ Configuration & Registry
- ✓ Core Services
- ✓ Supporting Services
- ✓ System Management
- ✓ Device Services
- ✓ App Services

Examples and Tutorials (most have been updated)

EdgeX on RaspPi4

Add a device SNMP

Walkthrough (draft PR for review)

EdgeX Hands on Tutorial

✓ Reference

