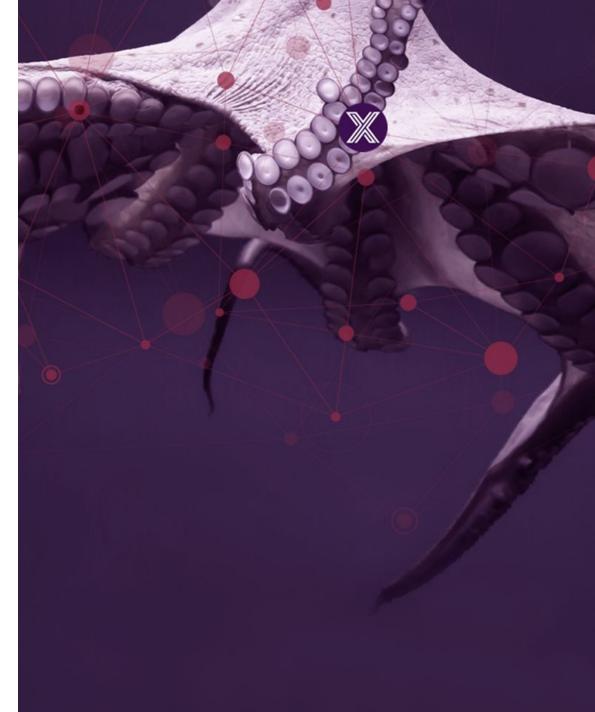


TSC Meeting

July 28, 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>	<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
- LTS policy review
- LF's Slack replacement
- Ireland Documentation



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 (7/28) - Jakarta

Cross Cutting Issues

In Progress (4)

- 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
- Secret Provider for All
 - DS SDK C PR
 - C Device Services TBD
- Metrics ADR WIP

Done (0)

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Backlog (1)

Implement Generate/Inject passwords into Vault

Icebox (0)

No changes from last TSC

Applications WG Update (28-July-2021)

Done

- Documentation
- App Service examples migrated
- rfid-Ilrp-inventory-service building in CI Pipeline.
- Issues created for Jakarta
- Fix a few bugs. 1 critical & 2 lows

WIP

- Design for Pipeline per Topic
- rfid-llrp-inventory-service final validation

Next

Create patch release of SDK and ASC

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
 - o 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 Working Group (7-28-21)

- Ireland
 - Performance google doc <u>here</u>. PDF to come
- Fixes
 - go-mod-core-contracts
 - Fixed issues
 - Issue #650 Ignore the empty Reading fields in DTO
 - Issue #652 Add missing DBTimestamp for Model To DTO conversion
 - Issue #649 missing requestBody in dtos/models.Address(RESTAddress)
 - Issue #645 Remove unclear HTTP status code
 - edgex-docs
 - many doc updates

edgex-taf: all 541 tests passing

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Next Meeting: James out, next meeting Aug 5

Device Services WG Update (28-July-21)

Current activity:

- Documentation
 - Add migration documents
 - Update examples and tutorials
- Completion of v2 release
 - SecretStore implementation for CSDK
 - BACnet, Grove, GPIO services
- Consideration of new services
 - LLRP (integration tests ongoing)
 - UART (Initial review commencing)

Next meeting: August 2nd

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 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 (07-28-2021)

Pipeline Related

- [In Progress] #345 EdgeX DevOps: Optional Dockerfile.build in pipeline [In Progress] #346 EdgeX Spike go.sum research to enable commit back to repo
- [In Progress] #347 EdgeX DevOps: Generate repo badges for newly promoted repos

Other

- [In Progress] Master --> Main branch rename.
 - All done except edgex-docs
 - **Need to look at existing and new holding repos
- [Hold] Spike Developer Badge Program

Next DevOps WG Meeting Thursday, July 29, 2021 @ 9AM PDT

Release Czar (07-28-2021)

No release updates

Security WG Update (July 28)

Next Meeting: Today & August 4

When to release device-coap:2.0.1?

New	Backlog	Development	In Review	Done			
Security board (projects/28)							
0 (→1)	11 (→1)	3	0	(→1) 3			
Consul board (projects/41)							
	7 (+3)	0	0	3 (+3)			
Snyk	Critical	High	Medium	Low			
	0	40 (-24 wip)	19	6			

Updates on EdgeX in PRC

- EdgeX challenge 2021 launched on Jul 12th, with plenty of large companies willing to join: Advantech, ZTE, H3C, etc.
- GOTC (Global Open source Technology Conference) will be held on Jul 31st-Aug 1st, all mainstream LF projects covered. 2 sessions reserved for EdgeX to further improve visibility.
- To further evangelize EdgeX, workshops under planning in Taiwan in Q3.

Outreach WG Updates (7/28/21)

Certification Team

Web site now touting EdgeX Ready

Vertical Solutions Team

- Open Retail Reference Architecture sub-project:
 - Architect document publishing v1 shortly
 - working on demo
- Adopter series 2 events upcoming in August/September (UST Global, Advantech)
 - Advantech Sept 14, 8am PDT registration link now available on web site

Marketing Team

Updated web site landing page for Ireland

Miscellaneous

- Ireland press release to go out after today
- Digital Twin Const meeting
- Upcoming
 - 2022 Events planning
 - English hackathon 2022 planning
 - Blog/Vlog planning

Next meeting: Aug 9th (Monday)

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

^{* -} indicates some work this week



Miscellaneous Issues/Topics

- LTS Policy
 - Tiger team met 7/26/21
 - Working a draft / rewrite of the current policy
 - Meeting again 8/13/21
 - Goal to bring a new policy to TSC this summer
- LFX Chat
 - Slack replacement
 - being tested by Open Horizon
 - OK to engage LF for a test?

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

Reference (service ports has been completed)

Migration guides per App Services examples

