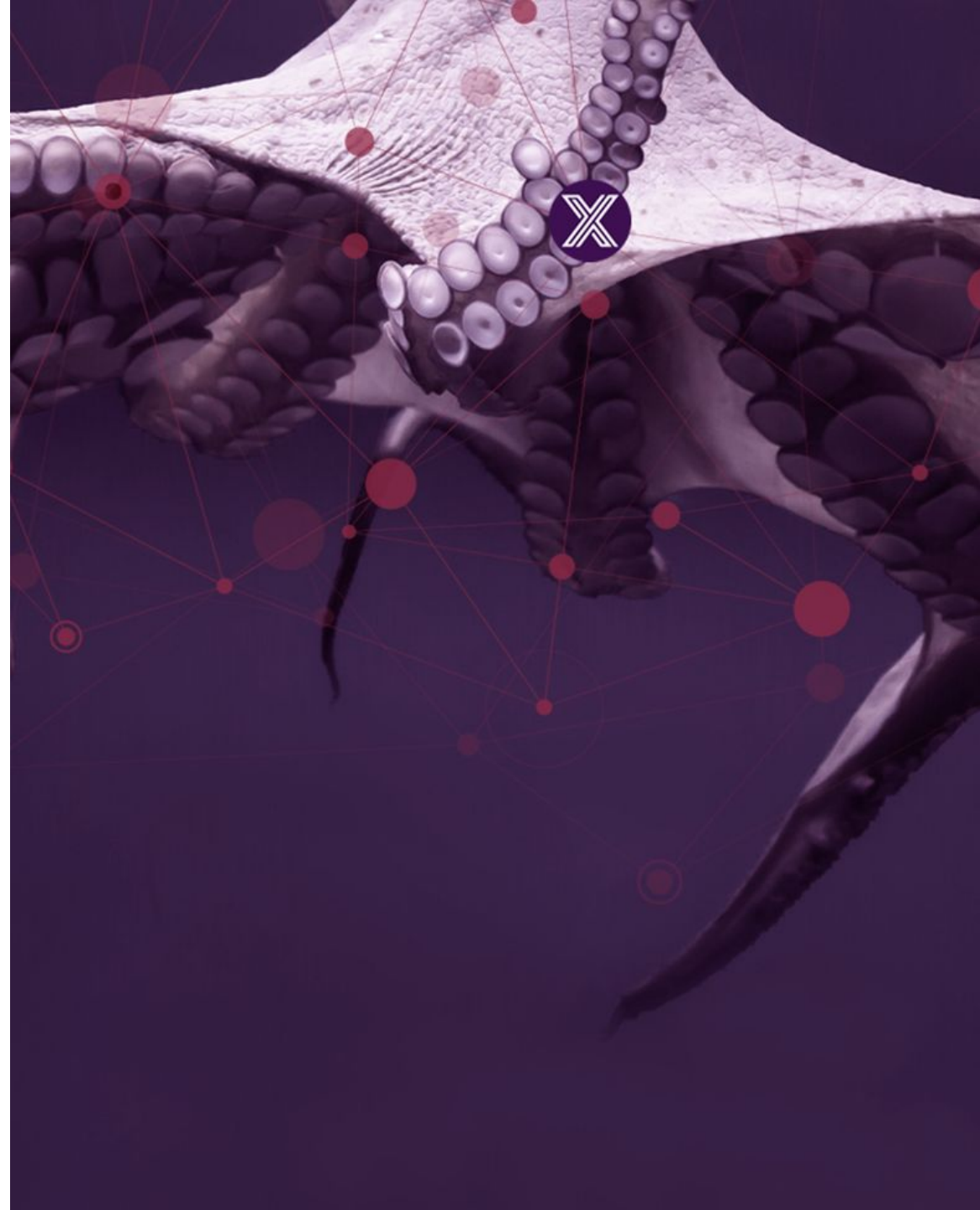


EDGE X FOUNDRY™

TSC Meeting

June 9, 2021

edgexfoundry.org |  @edgexfoundry



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)

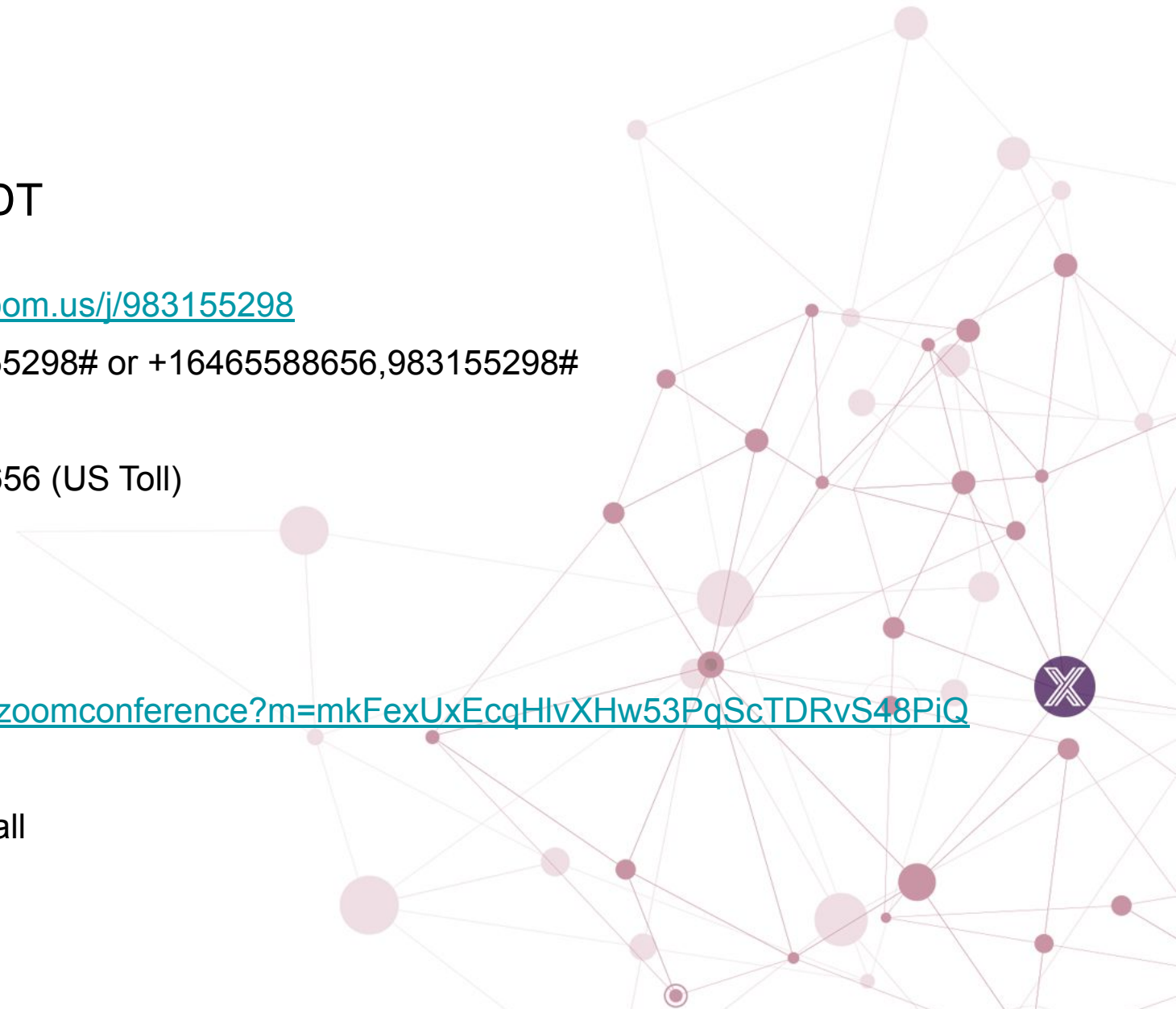
+1 855 880 1246 (US Toll Free)

+1 877 369 0926 (US Toll Free)

Meeting ID: 983 155 298

International numbers available: <https://zoom.us/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
- ADR review
- Miscellaneous
 - Pre-wire meeting read-out
 - Jakarta planning meetings - please register!!
 - TSC
 - WG Chairs
 - TSC at-large nominations
 - EdgeX Award Ceremony, AgStack and DTC updates
 - Brett and Aaron departures
 - Core and Test WGs being combined
- Upcoming Events (Dev Advocate)



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Work Group Updates

Chairs

Working Group Chair Updates

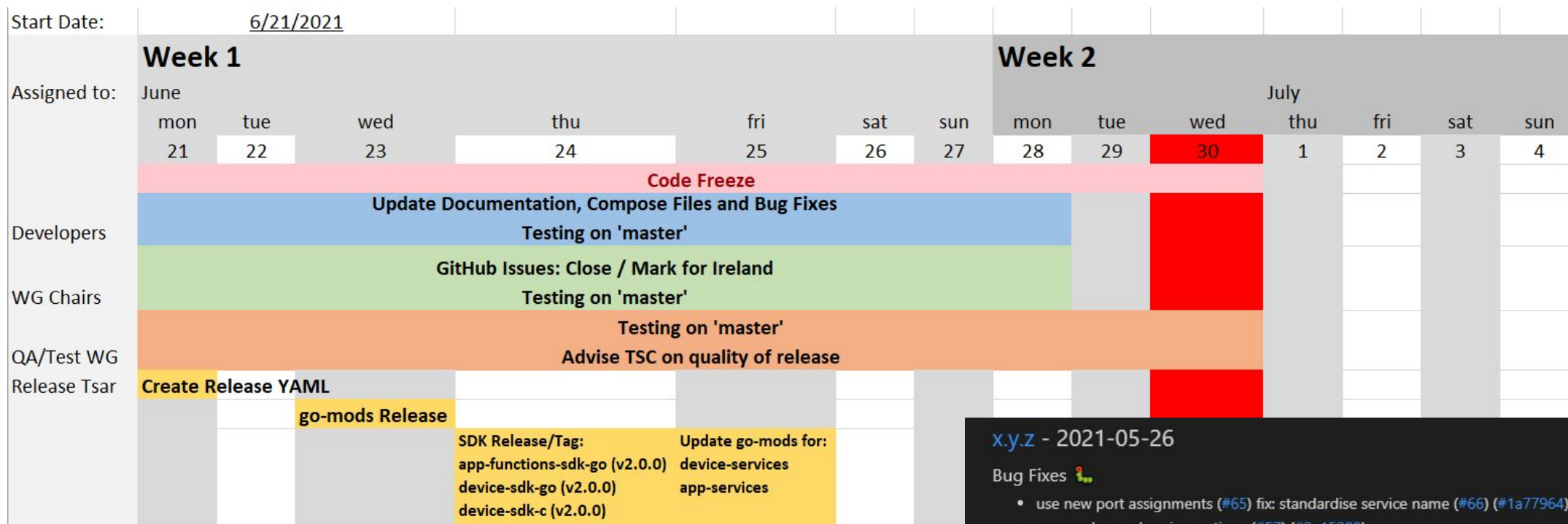
- Around the horn
 - Release Czar - Bill Mahoney
 - Product Manager - Lenny Goodell
 - Applications - Mike Johanson
 - Device Services - Iain Anderson
 - Test/QA - James Butcher
 - DevOps - Ernesto Ojeda
 - Security - Colin Hutchinson
 - Outreach - Keith Steele
 - Certification - Rodney Hess
 - Marketing - Camilo Dennis
 - Vertical Solutions (and LF Edge TAC) - Henry Lau
 - Core/Supporting - Jim White

Release Czar (June 9, 2021)

Ireland (2.0.0) Release - Key Dates

- Freeze Date: Monday, June 21st, 2021

- Release Date: Wednesday, June 30th, 2021 (3 weeks)



Ireland Repository Changelogs - [Jenkins Link](#)

x.y.z - 2021-05-26

Bug Fixes 🐛

- use new port assignments (#65) fix: standardise service name (#66) (#1a77964)
- remove legacy logging options (#57) (#2a15280)

Documentation 📄

- Add badges to readme (#741f120)

Continuous Integration 🔄

- update local docker image names (#cec5a56)

v1.3.1 - 2021-02-09

Bug Fixes 🐛

Product Manager (6/9)

Cross Cutting Issues

In Progress (11, +/-0)

- **V2 Implementations**
 - Support Notifications APIs - **DONE**
 - System Mgmt APIs - **WIP**
 - TAF testing V2 APIs - **WIP**
- **V2 Consumption**
 - Support Notification Clients - **DONE**
 - App SDK V2 Clients - **DONE**
 - Device Camera - DONE
 - C Device Services - TBD
- **V1 Code removal**
 - Core/Support Services - **DONE**
 - Sys Mgmt - TBD
 - Core Contracts - **WIP**
 - App Services - DONE
 - Device Services - DONE
- Securing Consul with Access Token
 - C Device SDK - TBD
 - C Device Services - TBD
 - Security Services - DONE
- **Port Reassignment**
 - Go Services - DONE
 - C Services - **TBD (COAP)**
- Device Service send Events via MessageBus implementation
 - Kuiper password inject - **DONE**
 - Adjust Device Services publish topic - **WIP**
 - C Device Services - TBD
 - Device Camera - Done
 - Device SDK C - DONE
 - Core Data Subscribe - DONE
 - Go Services - DONE
- **Consistent Service configuration**
 - Core/Support/SysMgmt - DONE
 - App Services - DONE
 - Go Device Services - DONE
 - **Device SDK C - TBD**
 - **Device Bacnet - TBD**
 - **Device Grove - TBD**
 - **Device Coap - TBD**
- Secret Provider for All
 - **Camera Device Service - DONE**
 - **DS SDK C - WIP**
 - C Device Services - TBD
 - Go Services - DONE
- **Metrics ADR - WIP**
- **Secure Message Bus connection**
 - C Device SDK - TBD
 - C Device Services - TBD
 - Go Services - DONE
- **Service Key names & Clients Config overrides**
 - C Device Services - **WIP**
 - Compose - DONE
 - Go Services - DONE
 - TAF Scripts updated - DONE

Done (15, +/-0)

- Switch to Go 1.16
- Switch to Redis as default MessageBus
- Docker image renaming
- See project board for more...

Backlog (1, +/-0)

- Implement Generate/Inject passwords into Vault

Icebox (0, +/-0)

Applications WG Update (09-Jun-2021)

Done:

New Feature: Dynamical URLs for HTTP Export
Now using V2 Clients

WIP:

Working with Kuiper on injecting secrets

Old WIP :)

- Reviewing edgexfoundry-holding/rfid-llrp-inventory-service - Changes in-progress
- Documentation Updates

Application Services

Functions (built into SDK)

Current/Complete:

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

NEW!

NEW!

Features

- Store and Forward
- Web Server
- Configurable App Service
- Vault Integration for Secrets
- MQTT Event triggers

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

Device Services WG Update (9-June-21)

Done:

- SDKs in freeze
 - SecretProvider for C absent from v2.0
- GPIO device service approved by TSC

In progress:

- MQTT config rationalisation
- CoAP to v2

Project status: 18 issues backlog + 5 new (net =)

Next meeting: June 14th

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

Open Source connectors (Future):

- Bluetooth Low Energy in C (2021) - contributed
- OPC-UA in C (2021) - under dev
- GPIO (2021) - contributed
- UART (2021) - contributed
- GPS

Commercial connectors (Current):

- File Exporter in C
- 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
- ONVIF in C
- Siemens S7 in C

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

Commercial connectors (Future):

- ZeroMQ (Q1 2021)
- RFID (Q1 2021)

QA/Test WG Update (8th June)

There was no QA/Test meeting this week

- TAF tests
 - Status - 2 failing TAF tests (487 passing)
 - Both addressed by:
 - [#3545](#), Query /notification/subscription/name/{name} with invalid offset range should return 416
 - [#118](#), Export data from app-service-http-export failed with error "No value for the keys: [api-key] exists"
 - Other Fixed Issues
 - [#231](#) & [#447](#) [Kuiper] smoke test & URI update
 - [#444](#) & [#452](#), [V2 Notification] Implement notification APIs
 - [#449](#), [Security] Retry related items need to be removed and update secret path from SecretStore config in TAF testing script
 - [#403](#), [Security] Kong still connected to original docker container ip after restarting scheduler
 - [#455](#), [App Service] HTTP export failed with log change
 - Working issues
 - [#451](#), [V2 notification] Implement GET and DELETE transmission for support-notification
 - [#454](#), Implement sys-mgmt V2 API tests

Next Meeting June 15th, 8am PST

TAF Functional 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	487	3	1	2
x86_64 / CentOS	Security	Redis	487	9	1	8
arm64 / Ubuntu	Non Security	Redis	487	8	1	7
arm64 / Ubuntu	Security	Redis	487	7	1	6

Jenkins Job: [functional-test](#)

TAF Integration 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	10	0	0	0
x86_64 / CentOS	Security	Redis	10	0	1	0
arm64 / Ubuntu	Non Security	Redis	10	0	0	0
arm64 / Ubuntu	Security	Redis	10	0	1	0

Jenkins Job: [integration-test](#)

TAF Performance 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	10	10	0	10
arm64 / Ubuntu	Non Security	Redis	10	10	0	10

Jenkins Job: [performance-test](#)

DevOps WG Update (06-09-2021)

Pipeline Enhancements

- [Complete] latest vs master docker tags, change needed in edgex-global-pipelines
- #IT-22180 [Complete] Settings needed for device-rfid-llrp-go pipeline

Other

- Go 1.15.13 caused Snap stage to break in edgex-go, Snap stage currently disabled
- Master → Main branch rename coming up after Ireland release.
- [In Progress] Developer Badging Program
- [Backlog] DockerHub Overviews for new docker images
 - Draft PR in place <https://github.com/edgexfoundry/cd-management/pull/152>

Next DevOps WG Meeting Thursday, June 10, 2021 @ 9AM PST

Security WG Update (June 9)

- Next Meeting: Today & June 16
- Backlog
 - Security Board: 5 (-3)
 - Consul Board: 3 (0)
- Development
 - Security Board: 2 (+1)
 - Consul Board: 0 (0)
- In Review
 - Security Board: 1 (0)
 - Consul Board: 0 (0)
- Done
 - Security Board: 104 (+10)
 - Consul Board: 41 (+1)

Outreach WG Updates (6/9/21)

Combining meetings going forward

Certification Team

- EdgeX Ready soft launch! <https://wiki.edgexfoundry.org/display/FA/EdgeX+Ready>
- First round feedback window closes this Friday, June 4th

Vertical Solutions Team

- Open Retail Reference Architecture sub-project:
<https://wiki.edgexfoundry.org/display/FA/Open+Retail+Reference+Architecture>
- Next call tomorrow (6/3/21) at 10 a.m. PDT
- Adopter series for June will be the hour before the TSC F2F meeting on Tuesday June 22

Marketing Team

- China Web Site has been started.
- Translation should be done by June 11 with early preview for Chinese community around June 14th

Core Working Group (6-9-2020)

- Ireland
 - clean up of notification / sys mgmt / scheduler
 - TAF tests
 - Documentation
 - UI looking good and may be ready by June 30
- status
 - 10in backlog (-1)
 - 6 in bug backlog (-5)
 - 0 in progress or QA(-1)
 - 222 done (+10)
- Next call - 6/10/21 @ 8AM PDT

ADR review (in order of priority)

<i>ADR name and PR number</i>	<i>Status</i>	<i>owner</i>	<i>Work Group</i>
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

- Per pre-wire, metrics and UoM ADRs would be relevant to stretch/experimental work for Jakarta
- Service list ADR is something we want to accomplish for Jakarta but concerned about backward compatibility
- **Priority to service list ADR for review**

* - indicates some work this week

Miscellaneous Issues/Topics


- Brett Preston is moving projects in LF (RISC-V) - our eternal thanks
 - Kendall Waters Perez taking Brett's place (at least for now)
- Jakarta pre-wire a success.
 - Thanks to everyone that participated. Job well done to accomplish in 3 hours
 - Results of the pre-wire can be seen on the Wiki
 - <https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=64716957&preview=/64716957/66453568/Jakarta%20PreWire-v3-%20Notes-Summary.pdf>
 - Please review for corrections and for next Jakarta planning meeting
- Jakarta F2F planning meeting - June 21-25, ½ day sessions (alt 7-11, 10-1)
 - 25th is Unconference / training day - **seeking proposals for 15 minute talks during this ½ day**
 - Registration site being set up by LF (Brett/Kendall)
 - Calendar invites are out (with proper Zoom links)
 - Separate China update and feedback session in weeks shortly thereafter
- EdgeX Awards Ceremony - LF trying to coordinate for an MC. Should have decision this week and will schedule the ceremony shortly

Miscellaneous Issues/Topics continued

- AgStack and DTC updates
- Aaron Williams leaving LF for role in DataStax
 - He has been a great evangelist for the project.
 - Join me in thanking him for his efforts and wish him luck
 - He are hoping he will be completing efforts on EdgeX Award ceremony & Bug Badge program
- TSC Core and Test WGs to be combined
 - Vote by TSC

TSC Elections

- Your TSC Working Group Chairs starting July 1, 2021 (no elections necessary)
 - Applications Working Group chair: Lenny Goodell
 - Device Services Working Group chair: Iain Anderson
 - Dev Ops Working Group chair: Ernesto Ojeda
 - Core Working (and Test QA) Group chair: James Butcher
 - Security: Bryon Nevis
 - Outreach: Jim White
- Roles
 - PM: Lenny
 - Release Czar: Bill Mahoney
 - Certification group leader: Rodney Hess
 - Vertical Solutions group leader: Henry Lau
 - Marketing group leader: Camilo as he can
- TSC at-large nominations to date
 - Tony Espy, Melvin Sun (Intel), Gavin Lu (VMWare)
- TSC at-large elections week of June 14-18 (if needed)
- TSC chair election June 28th (if needed)



**Thanks Colin,
Mike and Keith
for their
service!**



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Upcoming Events & Dev Advocate Update

Aaron's updates

Upcoming External Events

- › [Open Source Summit Europe / Embedded Linux Conference](#): **27-30 September, 2021 - Seattle, WA** (and Virtual)
 - › [CFP](#) Deadline: 13 June, 2021
- › [OSPOCon](#): **27-29 September, 2021 - Seattle, WA** (and Virtual)
 - › [CFP](#) Deadline: 13 June, 2021
- › [The Global Open Source Technology Conference \(GOTC\)](#): 9-10 July, 2021 - Shenzhen/Shanghai
- › [IoT Solutions World Congress](#): 5-7 October, 2021 - Barcelona, Spain
 - › [CFP](#) closed (notifications in June)
 - › [Call for Testbeds](#) (closed)
- › [Open Networking & Edge Summit North America](#): 11-12 October, 2021 - Los Angeles, CA + Virtual
- › [KubeCon + CloudNativeCon North America](#): 12-15 October, 2021 - Los Angeles, CA + Virtual
 - › [CFP](#) is open (closes 23 May)
- › 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

EdgeX Foundry Adopter Series - Canonical EdgeX Snaps: 22 June, 2021

› Registration: https://zoom.us/webinar/register/WN_2BvbgjYNQZCKhx_U2F23Zg

› More to follow...





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EdgeX Badge Update

Quick Recap- Goals

1. **A reward/Thank-you** to the community member for their hard work
2. **Strengthen the connection** with the new members by giving us another touch point to them. (if someone has done a commit, we really want them to do a second one.)
3. **Honor people** who are the bedrock of the community (more exclusive badges or verified ones).
4. **Use our community to advertise EdgeX.** By posting that they received a badge or including the winners in our blog posts, PR's, etc. others will see it.

Possible Badges

- On your 8th commit, you get an “Edgy” (Edgey?, Edgie?) (the mascot of the EdgeX)
 - So not everyone would get one and odds are you are not going to put in 8 PRs for oxford commas
 - Could also add a star for each factor (8^1 , 8^2 , 8^3 (512), 8^4 (doubt that we get here))
- Firefighter
 - Close out 2 “3-high” PRs
- Bug Catcher - close out 1 PRs labeled bug
 - How many should it be to earn the badge?
- Doc Wizard - 5 documentation updates. I would like to say meaningful, but not sure how to quantify this

Current Status

- Dev Ops is working on making this an automated process.
 - when your second bug fix is accepted, you receive an email with a thank you message, links to the wiki to show you how to install the badge and the badge itself.
 - needs to be automated because otherwise it will become too much of a burden.
- below are two samples, next version will be without the octopus-bug





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Thank You