# TSC Meeting

June 16, 2021

# Antitrust Policy Notice

› Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

› Examples of types of actions that are prohibited at Linux Foundation 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/zoomconference?m=mkFexUxEcqHlvXHw53PqScTDRvS48PiQ

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

# TSC – Members Present Today

| Company | Name | Email | Position |
|---------|------|-------|----------|
| 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.*

# Adopter Series Reminder

Canonical to present on Tuesday, June 22 @ 8am PDT

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

EdgeX Jakarta Planning meeting starts at 10am - so plenty of time to hear the Canonical presentation and then get some coffee before the planning meeting :)

# Today's Agenda

- Thank you to departing TSC members
- Release Czar report
  - Release week callouts
  - Go/No go issues, tests, etc.
- WG Updates
- ADR review
- 3rd party Docker image/container naming
- Miscellaneous
  - Jakarta planning meetings - please register!!
  - TSC Elections
    - TSC at-large
  - EdgeX Award Ceremony
- Upcoming Events (Dev Advocate)
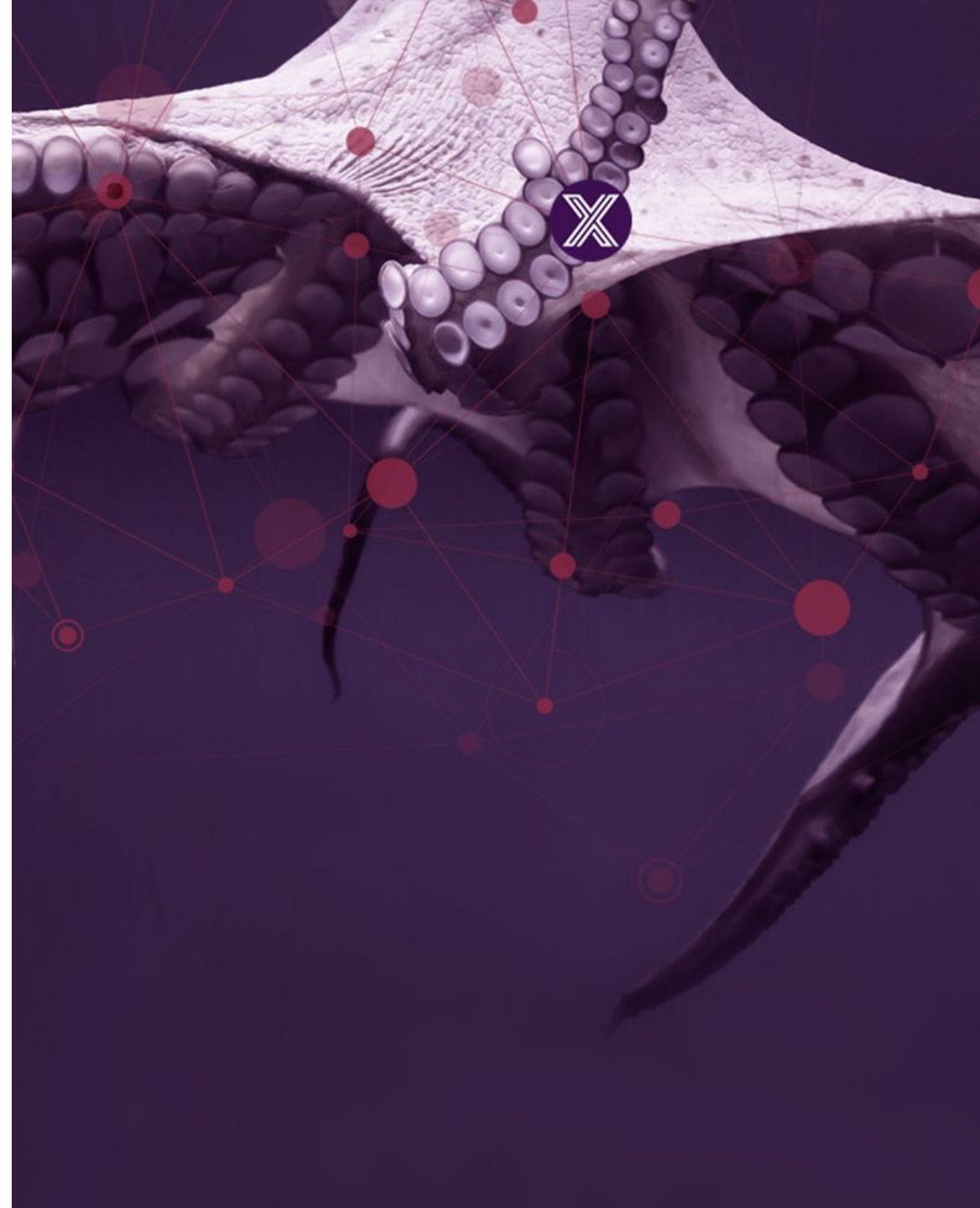
Work Group Updates

Chairs

# EDGE X FOUNDRY™

Keith Steele (4 yrs)
Mike Johanson (2 yrs)
Colin Hutchinson (1 yr)

Thank you!

For your service on EdgeX TSC

edgexfoundry.org  |  🐦 @edgexfoundry

# 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 Week

Anything prohibiting releasing next week?
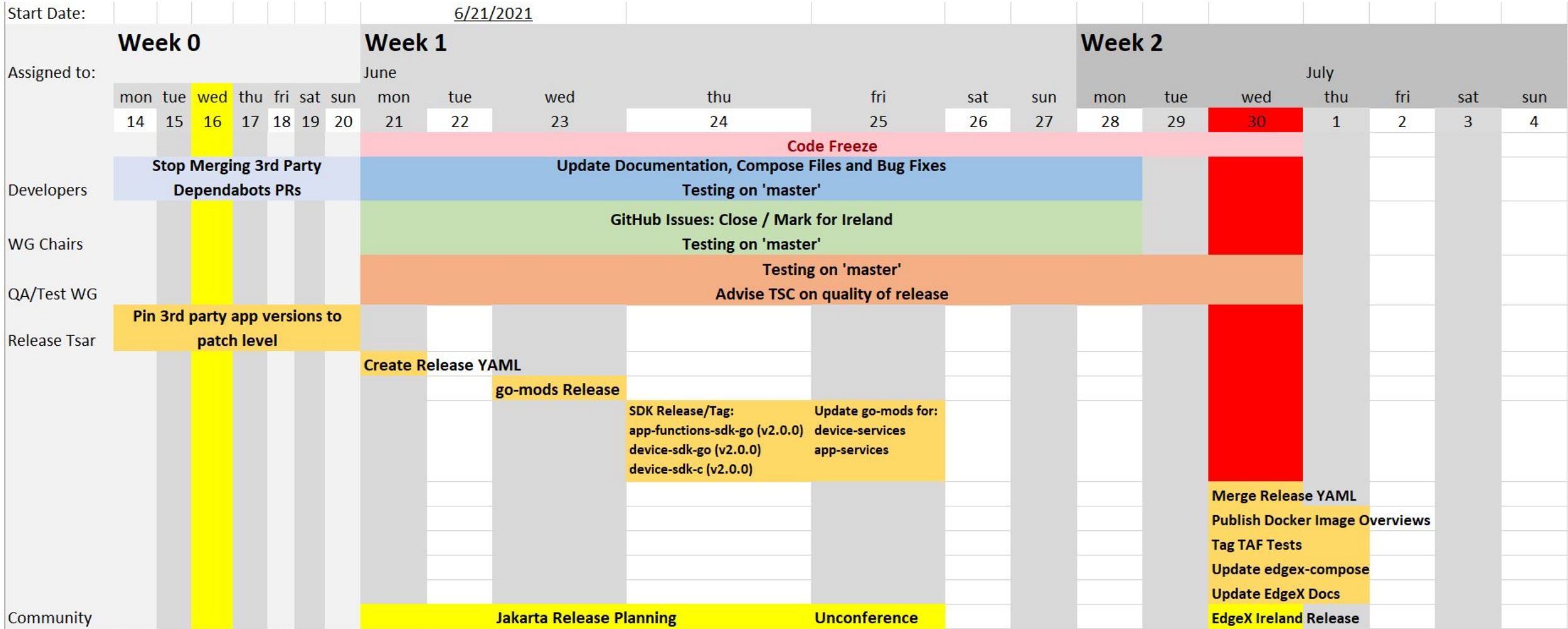
# of broken tests (any show stoppers?)

# Changelogs

Changelogs in all the go-mods

Waiting for code freeze for edgex-go changelog (early next week)

Device Services & App Services in charge of their change logs

# Release Czar (June 16, 2021)

| Start Date: | | | | | | | | 6/21/2021 | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Assigned to: | **Week 0** | | | | | | | **Week 1** June | | | | | | | | **Week 2** July | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mon | tue | wed | thu | fri | sat | sun | mon | tue | wed | thu | fri | sat | sun | mon | tue | wed | thu | fri | sat | sun |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 1 | 2 | 3 | 4 |

**Code Freeze**

**Developers** — Stop Merging 3rd Party Dependabots PRs / Update Documentation, Compose Files and Bug Fixes / Testing on 'master'

**WG Chairs** — GitHub Issues: Close / Mark for Ireland / Testing on 'master'

**QA/Test WG** — Testing on 'master' / Advise TSC on quality of release

**Release Tsar** — Pin 3rd party app versions to patch level / Create Release YAML / go-mods Release / SDK Release/Tag: app-functions-sdk-go (v2.0.0) device-sdk-go (v2.0.0) device-sdk-c (v2.0.0) / Update go-mods for: device-services app-services / Merge Release YAML / Publish Docker Image Overviews / Tag TAF Tests / Update edgex-compose / Update EdgeX Docs

**Community** — Jakarta Release Planning / Unconference / EdgeX Ireland Release

edgexfoundry.org | @edgexfoundry

# Product Manager (6/16)   <u>Cross Cutting Issues</u>

## In Progress (10, -1)

- **V2 Implementations**
  - Support Notifications APIs - DONE
  - **System Mgmt APIs - WIP**
  - **TAF testing V2 APIs - WIP**

- **V2 Consumption**
  - **C Device Services - WIP**
  - Support Notification Clients - DONE
  - App SDK V2 Clients - DONE
  - Device Camera - DONE

- <u>Securing Consul with Access Token</u>
  - **C Device SDK - Post Release**
  - **C Device Services - Post Release**
  - Security Services - DONE

- **Port Reassignment**
  - Go Services - DONE
  - **C Services - WIP(COAP)**

- **Metrics ADR - WIP**

- <u>Device Service send Events via MessageBus implementation</u>
  - **Adjust Device Services publish topic - DONE**
  - **C Device Services - WIP**
  - Kuiper password inject - DONE
  - 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 Coap - WIP**
  - **Device Bacnet - TBD**
  - **Device Grove - TBD**

- <u>Secret Provider for All</u>
  - **DS SDK C - Post Release**
  - **C Device Services - Post Release**
  - Camera Device Service - DONE
  - Go Services - DONE

- **Secure Message Bus connection**
  - **C Device SDK - Post Release**
  - **C Device Services - Post Release**
  - Go Services - DONE

- **Service Key names & Clients Config overrides**
  - C Device Services - **WIP**
  - Compose - DONE
  - Go Services - DONE
  - TAF Scripts updated - DONE

## Done (17, +2)

- **V1 Code removal**
- **SecretStore config Path updates**
- 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 (16-Jun-2021)

**Done**

Documentation Updates: Getting Started

Integration w/ Kuiper beta 1 release

**New Feature:** Background Publisher

**WIP**

Documentation Updates / Change log

Reviewing edgexfoundry-holding/rfid-llrp-inventory-service - Changes in-progress (est. 6 weeks out)

Next meeting **June 10th, 2021** @ 330PM AZ

# Application Services

## Functions (built into SDK)

Current/Complete:

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

## Features

- Store and Forward
- Web Server
- Configurable App Service
- Vault Integration for Secrets
- MQTT Event triggers
- Dynamic Publish Topics — 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)

**Release:**

- 9 issues active
  - MQTT DS configuration changes
  - C DS v2 updates
  - Documentation
- Changelogs

**New services:**

- RFID release pending integration tests
- GPIO build pipeline setup

*Next meeting: July 5th?*

# 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

Commercial connectors (Future):

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

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

# QA/Test WG Update (15th June)

- TAF tests
  - Status - 6 failing TAF tests  (529 passing)
    - All covered by same ticket: #463 SMA permission denied on jenkins when sending get metrics API
      - Solution discussion #124 SMA cannot execute docker command on CentOS
  - Other Fixed Issues
    - #454 Implement sys-mgmt V2 API tests
    - #451 Implement GET and DELETE transmission for support-notification V2 API tests
    - #459 Remove runOnce related tests
    - #461 Remove success field validation in system-agent
    - => Testing now complete for Ireland !
  - Working issues
    - #232 Verify TAF tests to be put against Snaps
    - #393 [Performance Metrics] Add security tests

Next Meeting: Part of the Core Working Group!

# 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 | 529 | 1 | 6 | 1 |
| x86_64 / CentOS | Security | Redis | 529 | 1 | 6 | 1 |
| arm64 / Ubuntu | Non Security | Redis | 529 | 1 | 0 | 1 |
| arm64 / Ubuntu | Security | Redis | 529 | 1 | 0 | 1 |

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 | 8 | 0 | 0 | 0 |
| x86_64 / CentOS | Security | Redis | 8 | 1 | 0 | 1 |
| arm64 / Ubuntu | Non Security | Redis | 8 | 0 | 0 | 0 |
| arm64 / Ubuntu | Security | Redis | 8 | 1 | 0 | 1 |

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 | 0 | 0 | 0 |
| arm64 / Ubuntu | Non Security | Redis | 10 | 0 | 0 | 0 |

Jenkins Job: performance-test

# DevOps WG Update (06-16-2021)

**Pipeline Enhancements**

- [In Progress] device-gpio pipeline

**Other**

- 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, July 1, 2021 @ 9AM PST**

# Security WG Update (June 16)

- Next Meeting: Today & June 23
- Backlog
  - Security Board: 1 (-4)
  - Consul Board: 3 (0)
- Development
  - Security Board: 6 (+4)
  - Consul Board: 0 (0)
- In Review
  - Security Board: 1 (0)
  - Consul Board: 0 (0)
- Done
  - Security Board: 108 (+4)
  - Consul Board: 41 (0)

# Outreach WG Updates (6/16/21)

## Certification Team

- EdgeX Ready soft launch!  https://wiki.edgexfoundry.org/display/FA/EdgeX+Ready
- Updating documentation

## Vertical Solutions Team

- Open Retail Reference Architecture sub-project: https://wiki.edgexfoundry.org/display/FA/Open+Retail+Reference+Architecture
- Next call tomorrow (6/17/21) at 10 a.m. PDT
- Adopter series for June will be two hours 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
  - TAF tests
  - Documentation
  - UI looking good and may be ready by June 30
- status
  - 8 in backlog (-2) - all but one is docs, compose, md files, etc.
  - 3 in bug backlog (-3) - swagger issue and a few long standing small issues
  - 0 in progress or QA(even)
  - 230 done (+8)
- Next call in July - no call tomorrow!

# 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 |

- **Priority to service list ADR for review as it may be part of impl for Jakarta**
- Others part of architecture discussion of planning meeting

\* - indicates some work this week

# Container naming issue

Some have `edgex-` prefix while others do not.

Also container name for `app service rules engine` doesn't follow the standard of `edgex-<service-key>`

This impacts how SMA can know the container name when stopping/starting services.

Lenny proposes:

all container names in our docker-compose follow the `edgex-<service-key>` standard

 where the 3rd party app name is the service-key for those services.

This does impact the TAF scripts

# Miscellaneous Issues/Topics

- 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 now open!!  Please register
    - https://events.linuxfoundation.org/edgex-foundry-jakarta-release-planning-conference-spring/
    - Also see wiki
  - Planning agenda/deck available on the Wiki
  - Calendar invites are out
  - Separate China update and feedback session in weeks shortly thereafter
- EdgeX Awards Ceremony - will hold this as part of next week's planning meetings

# 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) & Henry Lau
- TSC chair election June 28th (if needed)

Please vote today!!

Thanks Colin, Mike and Keith for their service!
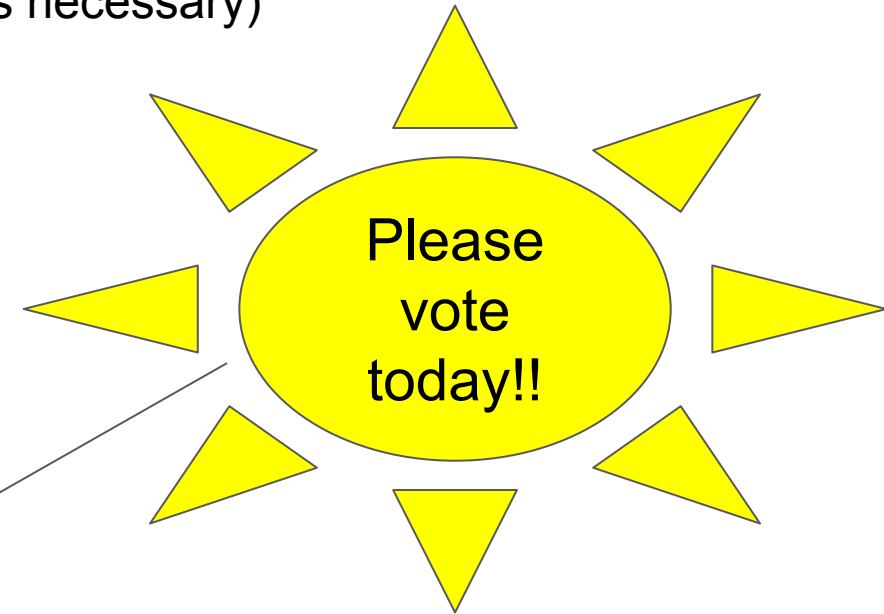
# Upcoming Events & Dev Advocate Update

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
   › **CFP extended until 20 June**
› **KubeCon + CloudNativeCon North America**: 12-15 October, 2021 - Los Angeles, CA + Virtual
   › **CFP** is closed (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...

# Thank You