

EDGE X FOUNDRY™

TSC Meeting

March 18, 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)

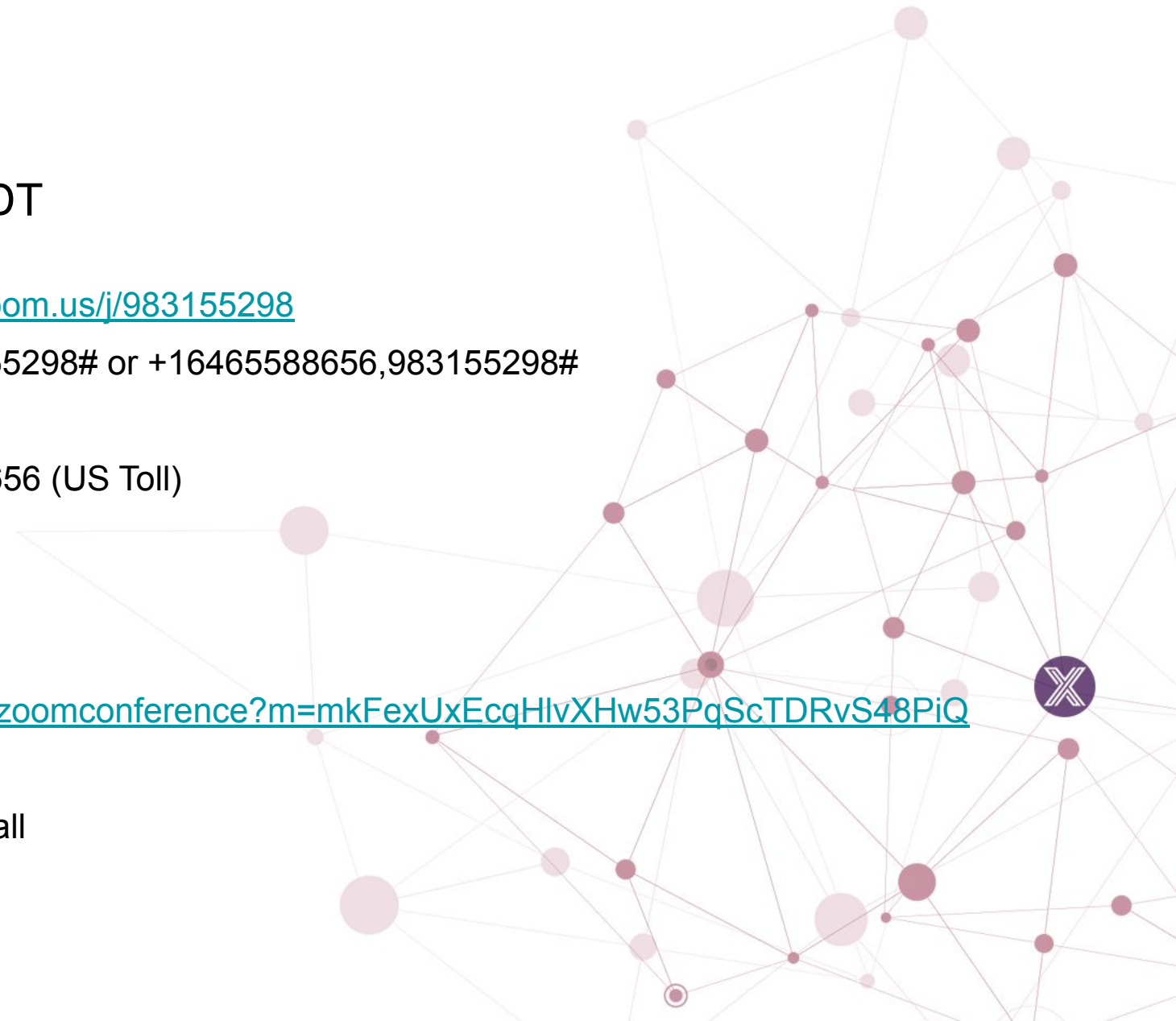
+1 855 880 1246 (US Toll Free)

+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>
Intel	Camilo Dennis	camilo.a.dennis@intel.com
IOTech	Iain Anderson	iain@iotechsys.com
Intel	James Gregg	james.r.gregg@intel.com
IBM	Joe Pearson	joe.pearson@us.ibm.com
IOTech	Keith Steele (TSC Chair)	keith@iotechsys.com
VMware	Malini Bhandaru	mbhandaru@vmware.com
Intel	Mike Johanson	michael.johanson@intel.com
IOTech	Robin Chattergee	robin@iotechsys.com
Beechwoods	Rodney Hess	rodney@beechwoods.com
RSA	Tingyu Zeng	tingyu.zeng@rsa.com
Canonical	Tony Espy	espy@canonical.com
Dell	Trevor Conn	Trevor.Conn@dell.com
Dell	Michael Estrin	m.estrin@dell.com

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

- Hanoi Planning
- Release Czar Readout
- WG Updates
- Architect's ½ day readout
- EdgeX Awards
- Upcoming Events (Dev Advocate)



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Hanoi Planning

March 16, 10am-1pm EDT (2-5pm UK time)

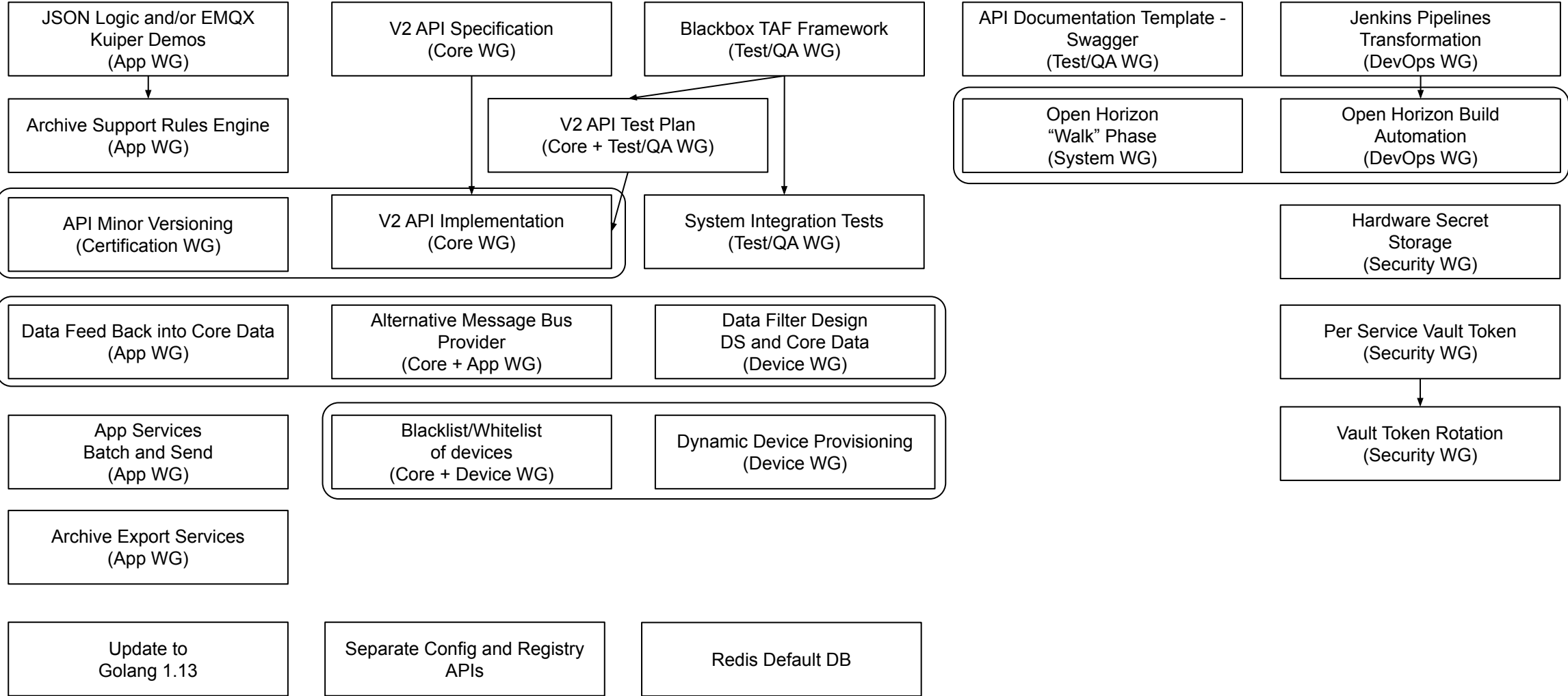
- Per March 16th Architect's meeting, there was agreement that:
 - A planning meeting for Hanoi must occur in April if we still plan to release in the fall
 - The 3 hour virtual meeting proved it could work, if not idea
- It has been proposed that we, the EdgeX community
 - Hold the Hanoi planning meeting in virtual session from April 27th - May 1st
 - The planning meetings would be ½ day sessions from 10am EDT to 2pm EDT on Mon - Fri
 - This is the original time for the Ireland F2F - adjusted as we are having ½ day sessions versus all day sessions
- Obviously this does not suit those in APAC well. Do we need to offer some of the days at alternative times?
- Do we hold architect's pre-wire meeting day(s)?
- Do we still hold a training day?
- What other typical agenda items should we consider to remove or new items to add given the unusual circumstances of this meeting?



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Release Tsar Readout

EdgeX Geneva Release Overview



Geneva Release Update

- Update to Go 1.13
 - All repositories have been updated to Go 1.13



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Work Group Updates

Chairs

Working Group Chair Updates

- Around the horn
 - Core/Supporting - Trevor Conn
 - Applications - Mike Johanson
 - Device Services - Iain Anderson
 - Test/QA - Robin Chatterjee
 - DevOps - James Gregg
 - Security - Malini Bhandaru and Tingyu Zeng
 - System Management - Michael Estrin
 - Open Horizon - Joe Pearson
 - Certification - Rodney Hess
 - Vertical Solutions - Camilo Dennis and Henry Lau
 - Updates from Release Czar - Lisa
 - Updates from Dev Advocate - Aaron

Core Working Group (18-Mar-2020)

- **** *Due to mandatory internal “all hands” call, no Dell members will be attending today’s TSC meeting.* ****
- Ongoing efforts from last week
 - Provision Watcher (Brandon Forster)
 - Redis Streams (Anthony / Andre)
 - Feature delivery target for RedisConf (May 12-14)
 - Expect PR incoming today (18-Mar-2020)
- **Core WG tomorrow @ 10AM US/Central**
 - Agenda includes
 - Revisit device removal for inclusion in “Device Discovery”
 - Issue #2403 (Tracking Error Handling Improvement Suggestions)
 - Any items to discuss? Send them to me.

Applications WG Update

In Progress:

- Refactor tests w/ Require - PR#304 - Merged
- JSONLogic PR#292 - Merged
- MQTT Support for go-mod-messaging - PR#299 & PR#303 - Merged
 - Thanks Anthony and Jason!

Next up:

- Updating App Service Configurable with both JSONLogic and BatchAndSend
- Example of JSONLogic in app-service-examples

- App Working Group Meeting held on Fridays @ 9AM PST
 - Next meeting Friday, Mar 20th

Application Services

Functions (built into SDK)

Current/Complete:

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

Features

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

Reference/Example App Services (Fuji)

(built on top of SDK)

- Azure IoT Hub AVAILABLE
- Amazon IoT Core AVAILABLE
- IBM Watson IoT NEW!

Device Services WG Update (18-March-20)

In progress:

- Dynamic discovery
 - Queued for merge
- v2 REST API specification (OpenAPI)
- Type information in Readings
 - Implemented in CSDK

To do:

- Array datatypes
- Startup registry/configuration changes (ADR0005)

Device Services - current/coming

Open Source connectors (Current):

- Modbus (TCP/RTU)
- Virtual Device
- Grove C - ARM only
- SNMP
- MQTT
- BACnet (IP & MSTP)
- ONVIF Cameras
- REST

Open Source connectors (Future):

- OPC-UA (Geneva)
- GPS
- Bluetooth (Geneva)
- BLE in Go for Thingy 52 (Ian Johnson)

Commercial connectors (Current):

- GPS
- MEMS
- Zigbee
- Bluetooth
- EtherCat
- PROFINET

Commercial connectors (Future):

- CAN SocketCAN, CANopen
- EtherNet/IP
- Siemens s5/s7

Test/QA WG Update (17-03-2020)

- Blackbox Test
 - Issue opened for failed testcases
 - Issue [edgex-go#2421](#), for failed tests on core-command.
 - Issue [developer-script#233](#), support-scheduler start failed when using mongo db
 - Issue [device-virtual-go#92](#), for failed tests on core-data
 - Fixed issue
 - Issue [#404](#), to change variable name to recognize jobs for different database.
 - Issue [#410](#), to fix security job failure if any testcases fail.
 - PR [#413](#), updated blackbox testing document with the latest change.
- New Blackbox Test
 - PR [edgex-taf-pipeline#1](#) is merged and running, adding Jenkinsfile to trigger functional testing from edgex-taf.
 - Preparing integration/functional test scenarios
 - Open PR [edgex-taf#54](#), adding test scenarios on robot files for support-notifications
- Swagger
 - Open PR [edgex-go#2437](#) to change API version to 1.2.0.

Testcases Number Count (Master Branch)

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	1414	Blocked	Blocked	Blocked
		Redis	1414	2	4	0
x86_64 / CentOS	Security	Mongo	1434	2	0	2
		Redis	1434	N/A	N/A	N/A
arm64 / Ubuntu	Non Security	Mongo	1414	Blocked	Blocked	Blocked
		Redis	1414	2	4	0
arm64 / Ubuntu	Security	Mongo	1434	2	0	2
		Redis	1434	N/A	N/A	N/A

DevOps WG Update (03-18-2020)

Geneva

- Jenkins Transformation to Pipelines
 - Work continues on the transformation to Jenkins Pipelines
 - “release-kraken” full automation of the release - WIP
 - Linter for edgex-global-pipelines - DONE
 - Update to Jenkins Pipeline documentation - DONE
 - git-semver bug fix - DONE
 - Automation for the GitHub Issue labels - DONE
 - Update Iftools for ci-build images - WIP
 - Defect identified Iftools:latest which supports python3 includes sigul which doesn't
 - LF Release Engineering tracking under their own ticket
 - Snap Global Library - DONE
 - Community Bridge Advanced Snyk Reporting
 - CB accepted several new feature requests that address UX - WIP
 - Add a count next to the repo name in the drop down box in the issues section
 - Improved Navigation with a Click through from the Overview dashboard
 - Added to the CB backlog for for future development
 - Improvements to the history section to include pagination

System Management WG Update (Mar 18, 2020)

- CLI
 - Move out of holding delayed until Mike's review comments are addressed
 - Work transitioning from Alex to Diana
- Hanoi (and beyond) Metrics
 - EdgeX-specific system-wide metrics follow up
 - <https://github.com/edgexfoundry/edgex-docs/pull/104>
 - Eric Cotter (Dell) presented *Metrics and Monitoring for EdgeX using Prometheus and Graphana*.
 - Next steps
 - Land ADR (104); create abstraction; get community buy-in; create golang module
- Next meeting: Friday, March 20th @ 10AM CST

Open Horizon Update

- In progress:
 - Finishing docs refactoring (~95%)
 - Adding multi-arch support to POC
 - Makefile refactoring
 - Automate dependency version update detection logic
- Presented to TAC Subgroup yesterday
- Thanks to Jim White for volunteering to write up a summary of the project and the subgroup recommendation to the TAC!



Security WG Update (03-17-2020)

- Ongoing work for Geneva release (143 items done, 2 items in progress, 8 items backlog)
- SIR team update
- Threat modeling for Geneva in progress
- Next security WG meeting in one hour, covering issue of bound checking (size/time) associated with # 2439

Certification WG Update (3-16-20)

- Activity has been quiet as we wait on progress on the v2 API effort
- Next meeting is Monday, March 23rd, 9 a.m. PDT

Vertical Solutions WG Update (Mar 18, 2020)

- Last meeting: March 17, 2020, 10:00am PDT
 - Mike Johanson: Intel NRF demo, message and event flow walk through.
- Next meeting: March 31, 2020, 10:00am PDT

- China project webinars:
 - Feb 28: Create new Device Service (VMWare)
 - Mar 6: Write export service and scheduling plan (VMWare)
 - Mar 13: Add device and service monitoring (ThunderSoft)

Marketing update 3/18

- Received and heard proposals for EdgeX website update
- Topcoder challenge. Looking for:
 - Volunteer judges
 - Sponsors
 - help to promote

Challenge preview: <https://www.topcoder.com/challenges/30117605>

Registration open 3/14 and challenge submissions starting 3/26

Miscellaneous (Jim)

- EdgeX Awards
 - Nominations being accepted
 - See <https://wiki.edgexfoundry.org/display/FA/EdgeX+Awards> for details
- Architect's meeting
 - V2 API goals/high level design finalized
 - Config seed ADR was finalized but for some language clean up
 - Decision was reached on code that originates in EdgeX org doesn't require holding repo (Wiki updated)
 - Bound checking issue was deferred back to WG chairs (2 weeks to report in)
 - Blacklisting of devices topic was deferred to Core WG
 - see: <https://wiki.edgexfoundry.org/display/FA/Monthly+Architects%27+Meeting>



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Upcoming Events & Dev Advocate Update

Aaron's updates

Upcoming External Events

- › [Industry of Things World](#): Mar 12-13 - San Diego CA
 - ›
- › [IoT Tech](#): Mar 17-18 - London, UK
- › [KubeCon EU 2020](#): 31 March - 2 April, 2020 - Amsterdam
 - › CFP closed 22 November
- › [IoT World](#): Apr 6-9 - San Jose, CA
- › [Hannover Messe](#): June ?? - Hannover GE
- › Open Networking & Edge Summit North America: 20-21 April, 2020 - Los Angeles, CA
- › Open Source Summit North America: 22-24 June, 2020 - Austin, TX



Upcoming External Events

- › [IIOT World Day](#): Jun 30-Jul 1
 - › Call for papers until March
- › Open Source Summit Japan: 15-16 September, 2020 - Tokyo, Japan
 - › CFP Status: Details Available Late 2020
- › Open Networking & Edge Summit Europe: 30 September - 1 October, 2020 - Antwerp, Belgium
 - › CFP Status: Open til Jun 7, 2020
- › Open Source Summit Europe: 26-28 October, 2020 - Dublin, Ireland
 - › CFP Status: Details Available Late 2020
- › [IOT SWC](#): 27-29 Oct, 2020 - Barcelona, Spain
- › Discussions around upcoming events occur in the LF Edge Outreach Committee
- › Members may subscribe at: <https://lists.lfedge.org/g/outreach-committee>





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Thank You