

EDGE X FOUNDRY™

TSC Meeting

August 15, 2018



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Meeting Logistics

Time: August 15, 2018 7am PDT – 8am 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>
IOTech	Andy Foster	andy@iotechsys.com
ForgeRock	David Ferriera	david.ferriera@forgerock.com
Analog Devices	Doug Gardner	doug.gardner@analog.com
Mainflux	Drasko Draskovic	drasko@mainflux.com
Mainflux	Janko Isidorovic	janko@mainflux.com
The Linux Foundation	Jeremy Phelps	jphelps@linuxfoundation.org
Dell	Jim White (TSC Vice Chair)	james.white2@dell.com
IOTech	Keith Steele (TSC Chair)	keith@iotechsys.com
Samsung	Moonki Hong	moonki1.hong@samsung.com
IOTech	Steve Osselton	steve@iotechsys.com
Canonical	Tony Espy	espy@canonical.com
Dell	Trevor Conn	Trevor.Conn@dell.com

Current quorum = 8 members

*Note: TSC meetings shall require a **quorum of two-thirds of the TSC total members to take a vote or make a decision.** If a TSC meeting fails to meet the quorum requirement, discussions may proceed, however there shall be no voting or decisions.*

Today's Agenda

- WG Updates
- EdgeX Community Demo Update
- Next TSC F2F Meetings
- IIC/EdgeX Workshop
- Upcoming Events
- AOB



California Release & Work Group Updates

Jim White

Working Group Chair Updates

- Around the horn
 - Core/Supporting - Trevor
 - Applications - Janko
 - Device Services - Steve
 - Test/QA - Andy
 - DevOps - Jeremy
 - Security - David
 - System Management - Jim
 - Vertical Solutions - Moonki
- Others & Misc

Core Working Group (14-Aug-18)

- 0.6.1 release looks good to go
 - 1 blackbox test failing, issue created
- 0.7.0 work to integrate notifications service into blackbox-verify
 - Thanks for assistance, Jeremy
- RAML Audit completed
 - Service ops should align with RAML now according to Go implementation
 - Tests need to be examined in light of new status codes
- Config V2 work underway
 - Targeting new structure for Delhi
- Pattern for increased unit test coverage
 - Issue 457
 - Starting to introduce concepts from edgex-holding/core-ddd-refactor

Applications WG (8/15/18)

- Preparing the proposal for redesign of Export Services to make them more scalable and modular. (Mainflux)
 - Need sync with Core, Security and Sys. Management WG
- Starting work on end to end tutorial for starting and setting EdgeX
- Delhi Features and Work:
 - Glide to Dep - Issue.
 - If enabled, mark pushed time after an event is sent in export distro
 - Add CouchDB implementation
 - Some bug fixing

Device Services WG Update (7/25/18)

- Go SDK moving into foundry repository
- C SDK to follow
- Core data management proposal from Assaf Natanzon
 - Analysis of data handling issues
 - Further analysis to be done under Core working group

Security (8/15/18)

- On Aug 1 meeting, held HW based secure storage design meeting during the weekly.
 - Gathered a lot of feedback including Intel
 - Use that feedback for working sessions this week.
- Delhi release
 - Vault scripts replacement with golang nearly completed - a little more testing
- Continued work with Tony and Ian to make changes for snap integration of California security components

System Management WG (8/15/18)

- Getting close to finalizing the design doc for Delhi
 - <https://wiki.edgexfoundry.org/display/FA/Phase+1%2C+System+Management+Delhi+Release>
- Implementation of SMA started by Akram Ahmad
 - <https://github.com/akramtexas/edgex-go/commits/sys-management-agent>
- Beyond implementation, we'll be roadmapping future releases starting with next meeting
- There are discussions about using our sys management work in EdgeX to help define a “standard” through a IoT consortia
 - More to come potentially

QA/Test WG Update (8/15/18)

- Current
 - Blackbox tests running and passing with the exception of one failure thanks to work from Trevor and Jeremy
 - Currently one test failure - “Metadata/provisionwatcher Assertion Error” Issue [#481](#)
 - Have issued PR [#68](#) to fix problem
 - Complete review and merge of open PRs [#53](#), [#59](#) and [#39](#)
- Next (Delhi)
 - Modify blackbox tests to support any RAML changes
 - Develop performance test strategy and automate tests
 - Automated Security testing ?

DevOps WG (8/15/18)

- 1). Migration to LF arm infra is underway and closer.
- 2). Refactor of java service builds in progress, need help here.
- 3). Black box tests passing before we ship california dot release?
- 4). Need dev teams to own build config files (pom.xml, glide.yaml)
- 5). Work on CI is single-threaded atm. Not ideal.
- 6). Can we delete barcelona jobs and lock barcelona branches.

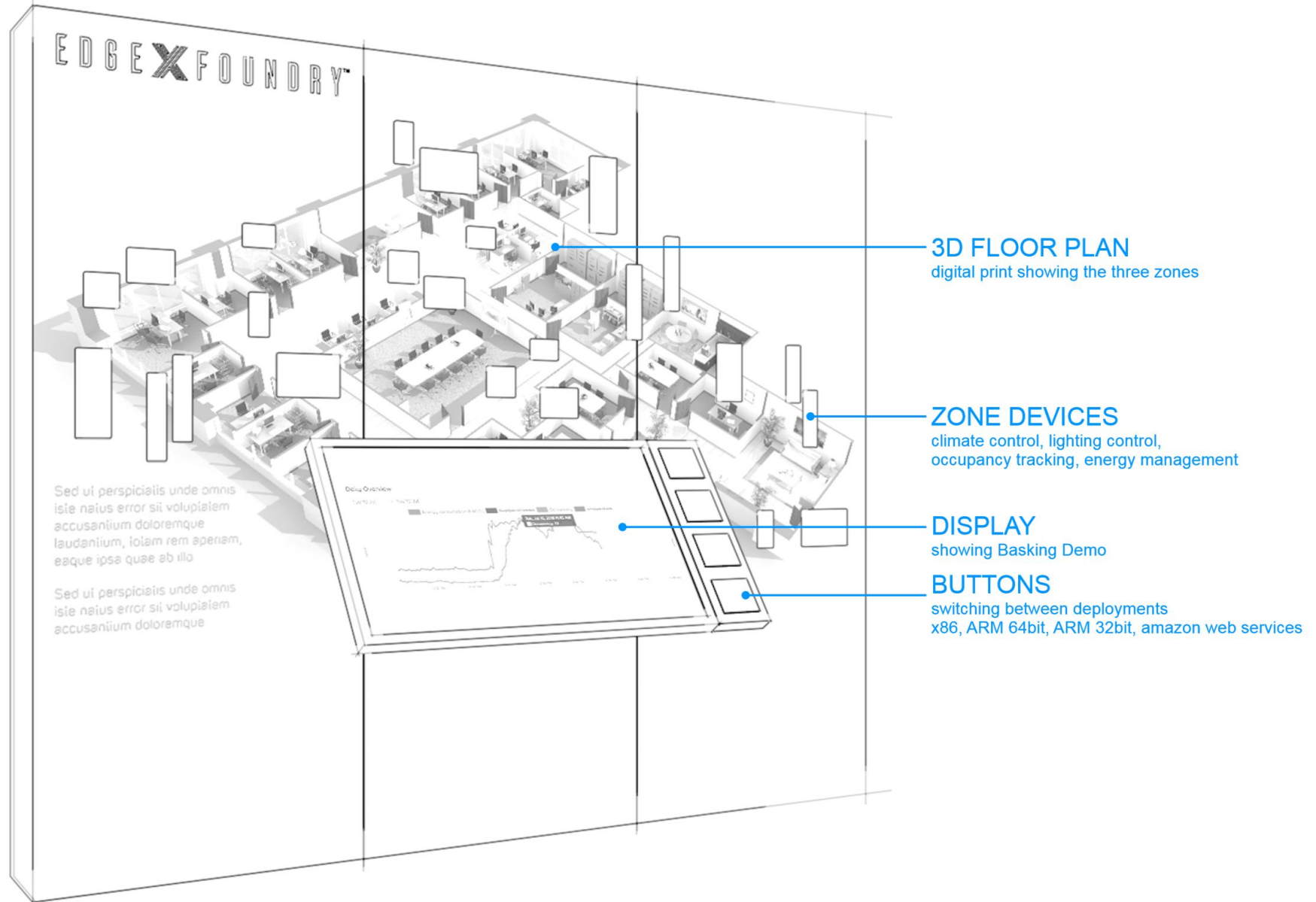


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EdgeX Community Demo Update

IOTech

Stand Design



Questions/Feedback from TSC on Demonstrator Design Documents?

- How will we demonstrate security features as they are released? I don't see any mention of security in the documents. - David Ferriera
- Question 2
- Feedback 1
- ... @ TSC members?



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Next TSC F2F Meetings

Brett Preston

EdgeX TSC F2F Meeting(s)

- Wednesday & Thursday 24th/25th October -- Location Edinburgh, UK -- [Wiki page](#)
 - Working Group technical meetups on Tuesday, October 23
 - **RSVP at <https://goo.gl/forms/QR3WgP4ybB5KUT3w2>**
 - Current registration count: 29 in-person; 3 dial-in (3 are Tuesday only)
 - Tuesday Working Group Counts
 - Applications: 5
 - Device: 10
 - Security: 7
 - Systems Mgmt: 2
 - QA/Test: 2
 - Hotel/Travel: <https://events.linuxfoundation.org/events/elc-openiot-europe-2018/attend/venue-travel/>
 - For Wednesday night dinner/activity, Scotch whisky tasting!!
 - RSVP is required. RSVP as part of TSC registration above.
 - Current dinner count: 25
-
- April 2019 -- Location Seoul or Suwon (South Korea)



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IIC Updates

Riaz Zolfonoon

IIC/EdgeX Workshop

Sept 10-14

Chicago, IL

- Tuesday, Sept 11, 2018: either morning or afternoon (9:00-12:30pm OR 2:00-5:30pm Central Time)
 - **Do we have a preference for morning vs. afternoon?**
- Hyatt Regency O'Hare in Chicago
- <https://www.iiconsortium.org/member-meetings.htm>

Next Steps:

- Content Planning (see Agenda on next slide)
- **Need to finalize who from the EdgeX Community is planning to attend**
 - **Requested:** RSVP at <https://goo.gl/forms/PJpYWYn9TfrscfOq1>
 - Current RSVP count: 0
 - Noted as attending: Jim White (Dell), others?

Note: Just FYI and for planning considerations for those traveling to Chicago: At the same time as IIC meeting, there are also IMTS and Hannover Messe/USA shows in Chicago. On Friday 9/15, IIC and HMI/USA are planning a joint activity: Intelligent Transportation Forum.

<https://hannovermesseusa.com/>

Agenda

- 1. Introductions and Workshop Overview (10 min)**
Speakers: Sven Schrecker, SWG Chair, Wael William Diab, Liaison WG Chair, Jason Shepherd: EdgeX (title)
- 2. Overview of the IIC Liaison Working Group (10)**
Speaker: Wael Diab, Senior Director, Huawei Technologies
- 3. Overview of EdgeX Foundry Initiatives/Activities (10)**
Speaker: Keith Steele (title)
- 4. IIC Security Initiatives (30)**
Speakers:
- 5. EdgeX Architecture/Security Overview (30)**
Speakers: Jim White/ David Ferriera
- 6. Break (15)**
- 7. Joint IIC/EdgeX Activities (15)**
Speakers: TBD
- 8. Panel Discussion & Q/A on Collaboration/Way Forward(55)**
Moderator: Sven Panelists: all presenters
- 9. Closing (5)**

Total: 3 hrs



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Upcoming Events

Upcoming Events - Confirmed

- [Open Source Summit North America](#), August 29 - 31, 2018, Vancouver, Canada
 - Community Partner: Save 15% on Attendee Registration with discount code OSSNA18COM15
- [EdgeX / IIC Workshop](#), September 11, 2018, Chicago, IL
 - Hosted jointly by:
 - IIC Security (Chair: Sven Schrecker, Intel)
 - Liaison Working Group (Chair: Wael William Diab, Huawei)
 - EdgeX Liaisons: James Clardy, NetFoundry, Riaz, Salim AbiEzzi VMware
- [Open Networking Summit Europe](#), September 25 - 27, 2018, Amsterdam, Netherlands
 - Community Partner: Save 15% on Attendee Registration with discount code ONSEU18COM15
- [IOT Solutions World Congress](#), October 16-18, 2018, Barcelona
 - CFP and Call for Testbeds have closed. Email pr@edgexfoundry.org if you were selected so that we can track/promote
 - EdgeX has secured a booth
 - Community Demo will debut at the show
 - Who is planning to be on-site?
 - Andy Foster (IOTech), Brett Preston (LF), Eldar Gizzatov (Basking), James Butcher (IOTech), Keith Steele (IOTech), Martina Ronca (IOTech), Michael Hall (LF), Mo Chehab (Basking) ...others?

Upcoming Events - Confirmed (continued)

- [Open Source Summit Europe / ELC / OpenIoT Summit Europe](#), October 22 - 24, 2018, Edinburgh, UK
 - Community Partner: Save 15% on Attendee Registration with discount code OSSEU18COM15
 - [Schedule announced](#)
 - EdgeX Sessions:
 - [Getting Started with EdgeX Foundry Workshop](#), Sunday October 21 at 1:30-5:15 pm, Jim White, Dell
 - [Extending Cloud-Native Principles to the Edge to Enable Scalable IoT Solutions](#), October 23 at 9-9:40 am, Jason Shepherd, Dell
 - [Building an Open IoT Solution with EdgeX Foundry and the Zephyr Project](#), October 23 at 12:20-1 pm, Michal Hall, EdgeX Foundry and Thea Aldrich, Zephyr Project
 - [Getting Lean and Distributed at the Edge](#), October 24 at 5:05-5:45 pm, Jim White, Dell
 - Member sessions (for amplification)
 - [Can we Build a Safety Integrity Level System with Linux?](#) October 22 at 11:15-11:55 am, Tiejun Chen, VMware
 - [A Hybrid Solution to Address Real Time Virtualization.](#) October 22 at 5:05-5:45 pm, Tiejun Chen, VMware
 - Any other member presentations?

Upcoming CFP Deadline/ Need a Volunteers

CFP Upcoming Deadline:

- [Embedded World](#), February 26-28, 2019, Germany
 - Deadline - August 31, 2018
 - <https://www.embedded-world.eu/home.html>
- FIWARE Summit, November 26-28, Malaga Spain
 - Deadline - September 14, 2018
 - https://docs.google.com/forms/d/e/1FAIpQLSdr2ban4yHdP1O1STEBHDD-e2GOIy_RmNkgLZ3Aw5ZpDH4t5Q/viewform

Mae secured speaking opportunities - please email maemalynn@linuxfoundation.org if you would like to volunteer:

- [Open Fog Consortium](#) - October 1-3, San Francisco: We are looking for someone who is comfortable presenting an EdgeX presentation and on a panel to discuss how edge computing and fog computing work together.
- [Broadband World Forum](#) - October 23-25, Berlin: We are looking for someone to present an EdgeX presentation under the edge computing track.



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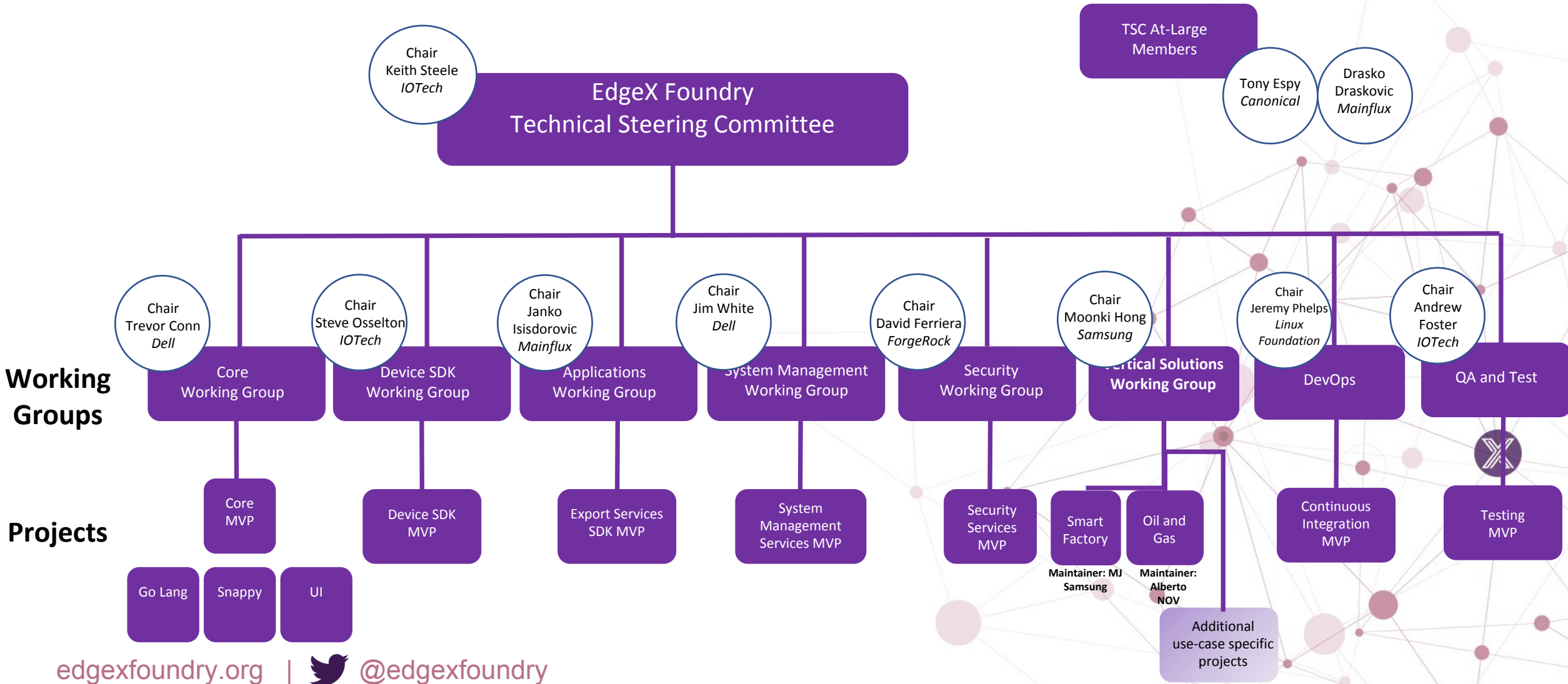
AOB / Reminders

AOB/Cadence

- Meeting Cadence Reminder
 - Currently held weekly at 7am PDT on Wednesday's
 - Calls without TSC quorum will still be used to review issues

- **Next Meeting: August 22, 2018**

EdgeX Project Organization



Marketing

- **CTA:** If your company will be presenting EdgeX at an upcoming event/webinar/other, please email pr@edgexfoundry.org so that we can help promote

EdgeX in Market

- Page showcases momentum in the project, including solutions already available
- <https://www.edgexfoundry.org/edgex-in-market/>
- Email info@edgexfoundry.org if you have any additions

Project Contributions Welcome!

- Our objective is to make EdgeX use & deployment pervasive!
- EdgeX success is 100% dependent on the vibrancy of a proactive community
- Getting Involved
 - Project membership growing - want to join contact Brett Preston at LF (bpreston@linuxfoundation.org)
 - First Priority is the MVP - potential contributors please contact keith@iotechsys.com (people, equipment, technology)
 - If interested in adding new projects please contact the relevant working group chair

Project Resources

Quick links to most commonly used Community Resources

- Code: <https://github.com/edgexfoundry>
- Documentation: <https://wiki.edgexfoundry.org/>
- Discussion: <https://chat.edgexfoundry.org/>
- Mail Lists: <https://lists.edgexfoundry.org/mailman/listinfo>
- Twitter: <https://twitter.com/EdgeXFoundry>
- LinkedIn: <https://www.linkedin.com/company/22298339/>
- YouTube: <https://www.youtube.com/c/EdgeXFoundry>

EdgeX - Where to learn more

- EdgeX Foundry Wiki

<https://wiki.edgexfoundry.org/display/FA/EdgeX+Foundry+Project+Wiki>

- EdgeX Foundry Rocket Chat

<https://chat.edgexfoundry.org/home>

- [Weekly EXF Technical Spin up calls](#)

30 minute deep-dive topics followed by 30 minute open Q&A

Call recordings are available on the [Wiki](#)

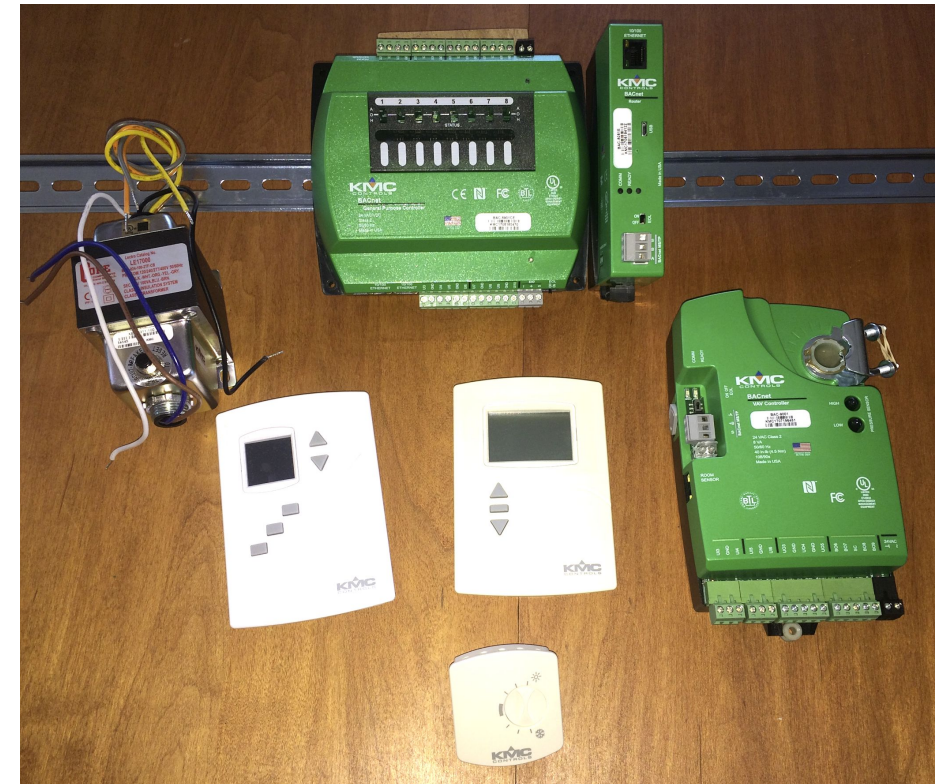
What is the Device Exchange?

- A great way to put your products in the hands of other members so they can help build a better EdgeX!

•<https://wiki.edgexfoundry.org/display/FA/Device+Exchange>



Special thanks to [Dave Bohlman](#) and [KMC Controls](#) for making this awesome kit and how-to guide available to members!!



Meetups

- Help us grow awareness!
- Present, and Tag, EdgeX in your local IoT Meetups
- <https://www.meetup.com/topics/edgex/>
- Email info@edgexfoundry.org for assistance



EdgeX ▾

Find out what's happening in EdgeX Meetup groups around the world and start meeting up with the ones near you.

Related topics:



Meetups: Reimbursement Program

- <https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=7602724>
- Wiki page built for the community to leverage
- Encourage community to begin introducing EdgeX in your local Meetup groups
- EdgeX Foundry will fund/sponsor the talk in which EdgeX is scheduled to be presented
 - Up to \$250 for F&B, once per Meetup group, per quarter
- Let us help drive traffic to your event! Email pr@edgexfoundry.org once Meetup has been scheduled
- Post-event, please consider doing a blog about the event

Hackathons: How can you help?

- <https://wiki.edgexfoundry.org/display/FA/Hackathons>
- Provide any local volunteers onsite to help with technical work, potentially help judge, etc. (see list below of known hackathons coming up and locations)
- Sponsor breakfast/lunch/dinner for the participants (usually things like donuts/coffee, pizza lunch or cater sandwiches)
- Sponsor \$ rewards (incentives) for teams that successfully implement projects (these could even be projects that particular sponsors want to see accomplished - we just need them scoped appropriately so as to be something that can be accomplished in a 2 day period)
- Help provide or resource hackathon winner prizes
- Sponsor or provide any swag (t-shirts, mugs, etc.)
- Provide marketing assistance



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Thank You