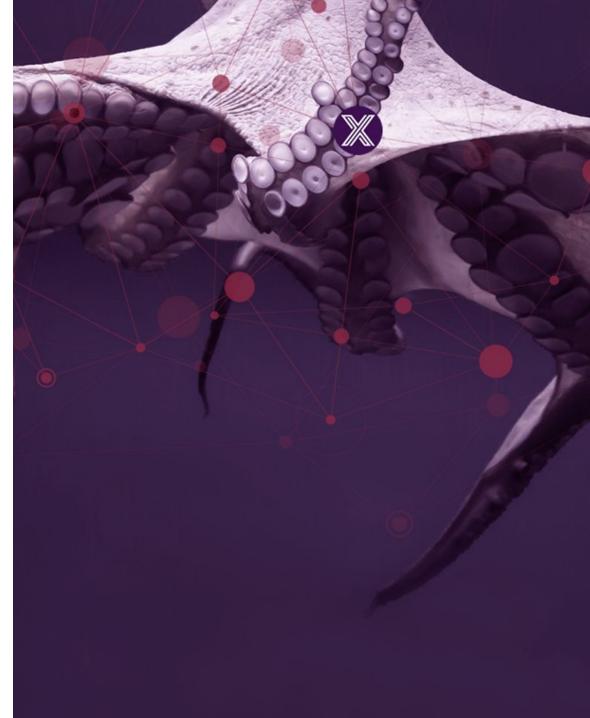


TSC Meeting

March 21, 2018



LF Antitrust Policy Notice

EdgeX Foundry 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 EdgeX Foundry 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: March 21, 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
Analog Devices	Doug Gardner	doug.gardner@analog.com
Mainflux	Janko Isidorovic	janko@mainflux.com
Dell	Jason Shepherd	Jason.A.Shepherd@dell.com
The Linux Foundation	Jeremy Phelps	jphelps@linuxfoundation.org
Dell	Jim White	james.white2@dell.com
IOTech	Keith Steele (TSC Chair)	keith@iotechsys.com
Samsung	Moonki Hong	moonki1.hong@samsung.com
Samsung	MyeongGi Jeong	myeong.jeong@samsung.com
VMware	Salim AbiEzzi	salim@vmware.com
Canonical	Tony Espy	espy@canonical.com

Current quorum = 7 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

- Working Group Updates
- California Development Platform Needs
- Next TSC F2F Meetings
- EdgeX Test Beds
- IIC Liaison Updates & Opportunities
- Upcoming Events
- EdgeX Community Awards
- AOB

EDGE X FOUNDRY Working Group Updates Jim White

California Project Plan & Resourcing

- Detailed task list needs input from chairs and major contributors
 - See Jim's email with attached spreadsheet from last week
- Responses by 22nd March
- Follow up virtual meeting to discuss

Core WG Significant Updates

- Go Project Work now complete and folding back into Core Working Group
 - · Mono Repo up and running; code work in full swing
 - 0MQ replacement or alternatives postponed past California
- Snap Project Work starting (March 27) all welcome
- New documentation review coming up (April)



Required California Development Environment

Developer/QA Tools

Accounts and some amount of available cloud resources (number of storage, compute, etc. hours) for

- Google IoT Core
- Azure IoT Hub
- AWS IoT Core
- Watson IoT Platform
- Pivotal Cloud Foundry Instance
- Cloud provided MQTT broker for testing various parts of EdgeX MQTT use (export services, device services, etc.)

Virtual Lab

- Cloud-based environment that is cable of launching, running and monitoring thousands of instances of EdgeX for volume, scalability and performance concerns.
- Also allows testing system management functionality as it relates to multiple deployments

 Devices in this lab would be virtual devices simulated through software

Physical Device Lab

- Intel and Arm based gateway(s) to run EdgeX
- Devices (for those protocols already supported by EdgeX) connected to the gateway(s)
 - BACNet
 - Modbus
 - BLE
 - SNMP
 - Serial
 - OPC-UA
 - Other devices would be added as more protocols are handled by EdgeX
- A small local network may be necessary
- Internet connectivity and firewall protection
- Internet camera mounted over the devices to be able to see any physical actuation

Action

- Cost the environment KRS
- Board approval for release of Project Funds to set up the environment

EDGE X FOUNDRY Next TSC F2F Meetings Keith Steele

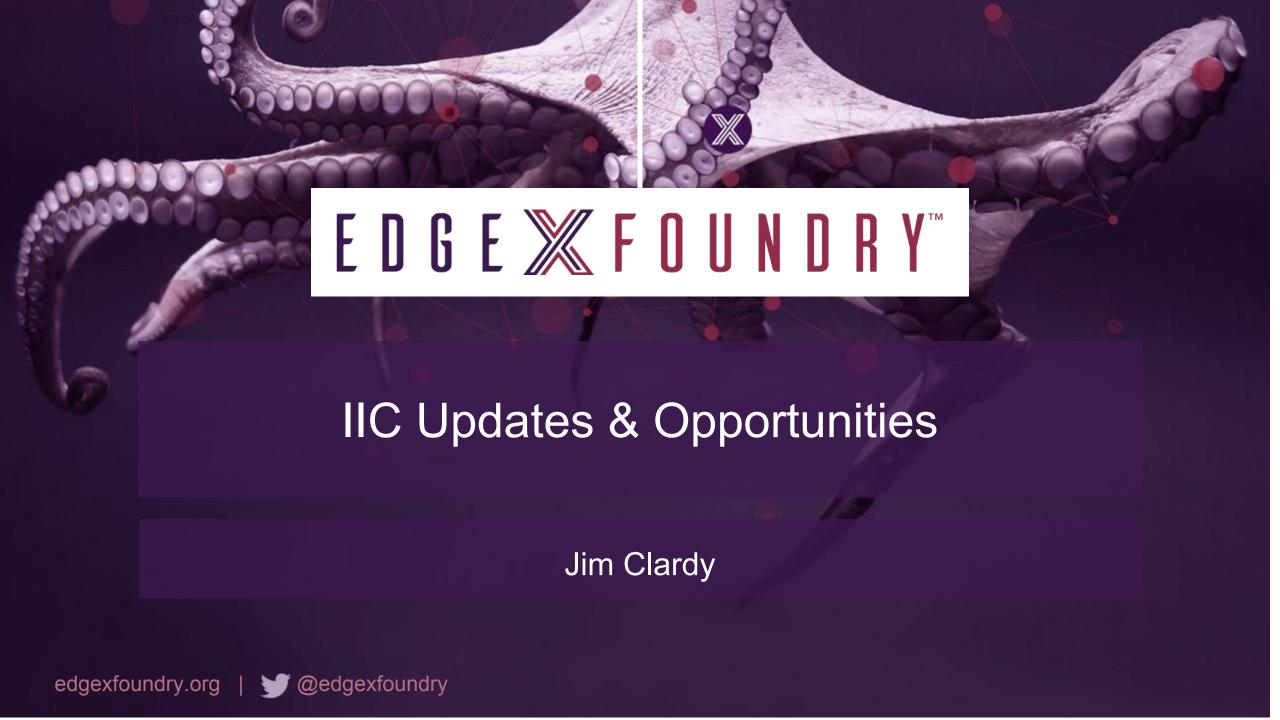
EdgeX TSC F2F Meeting(s)

- Discussion on next TSC F2F Meeting(s)
- Developer/Contributor Conference London
- Member host
- April California Contributor Meeting (London/Hanover)
- June US (Austin) Dell host?
- October
 - Barcelona World Solutions Congress
 - LF's Open Source Summit EU / Embedded Linux Conference EU is scheduled for October 22-24, 2018 in Edinburgh, UK



EdgeX Test Beds

- Discussion on EdgeX Test Beds
- Test Bed Collaboration



IIC Liaison Updates and Opportunities

- Chicago F2F September 12, 2018
 - Latest update (March 21): Kickoff meeting between both teams proposed who's on point at EdgeX?
 - Hosted by IIC Security WG (Point contacts Email sven.schrecker@intel.com, wael.william.diab@huawei.com)
 - EdgeX Organizer/Quarterback: Jim Clardy
 - If you'd like to contribute, please email info@edgexfoundry.org to be added to EdgeX-IIC liaison mail list
 - Need to propose Agenda Topics/Speakers
 - Example: http://www.iiconsortium.org/liaison-workshop.htm
 - Primary goal: Educate people about EdgeX, alignm to IIC Member goals / needs
 - Potential Agenda Items:
 - 1. Introductory presentation EdgeX (including architecture overview)
 - 2. IIC Reference Architecture
 - 3. System Management, Security How does this align to IISF and IIC Endpoint Security Best Practices?
 - 4. Overview of Vertical Activities alignment to IIC testbeds?
 - 5. Presentations from IIC what's desired by EdgeX Members?
 - 6. Representatives from member companies to present use cases; how they fit in, what they are contributing (examples: Samsung, RSA)
 - 7. Map EdgeX to IIC
 - Session length? TBD (IIC/oneM2M workshop was 3.15 hours)



Upcoming Events - Confirmed

- Open Networking Summit North America, March 26 29, 2018, Los Angeles
 - Community Partner: Save 15% on Attendee Registration with discount code ONSNA18COM15
- <u>loT Build</u>, March 27-28, 2018, San Francisco
 - Speakership and panel Noah Harlan (Two Bulls), Deb Noller (Switch Automation), Jason Shepherd (Dell), Rod Schultz (Rubicon Labs)
- <u>Hannover Messe</u>, April 23-27, Germany
 - Member booth confirmed so far: Canonical, IoTium, RSA/Dell, Software AG, VMware (2 other members in progress)
- Internet of Things World, May 14-17, 2018, Santa Clara
 - Panel Philip DesAutels (Linux Foundation EdgeX Foundry)
- <u>LinuxCon + ContainerCon + CloudOpen China</u>, June 25 27, 2018, Beijing
 - Community Partner
- Open Source Summit North America, August 29 31, 2018, Vancouver, Canada
 - Community Partner: Save 15% on Attendee Registration with discount code OSSNA18COM15
 - CFP open through April 29 / Submit your EdgeX talk <u>here</u>

Upcoming Events - Confirmed (continued)

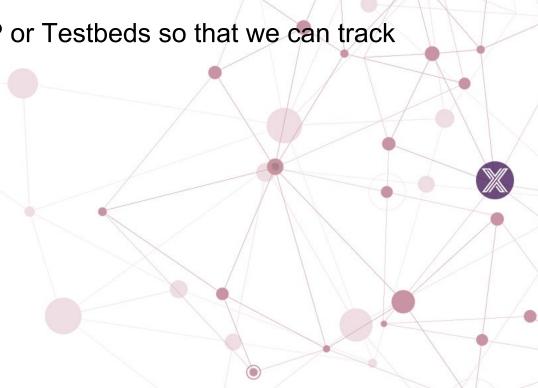
- <u>EdgeX / IIC Workshop</u>, September 12, 2018, Chicago, IL
 - Hosted by the IIC Security Working Group (Chair: Sven Schrecker, Intel)
 - EdgeX lead: Jim Clardy, NetFoundry
- Open Networking Summit Europe, September 25 27, 2018, Amsterdam, Netherlands
 - Community Partner: Save 15% on Attendee Registration with discount code ONSEU18COM15
 - CFP open through June 24 / Submit your EdgeX talk <u>here</u>
- Open Source Summit Europe, October 22 24, 2018, Edinburgh, UK
 - Community Partner: Save 15% on Attendee Registration with discount code OSSEU18COM15
 - CFP open through July 1 / Submit your EdgeX talk <u>here</u>

Event Participation Opportunities



IOT Solutions World Congress

- http://www.iotsworldcongress.com/
- October 16-18, 2018
- Barcelona
- **Call For Papers**
 - Submitted: ---
- **Call For Testbeds**
 - Submitted: ---
- Email info@edgexfoundry.org if you submit for CFP or Testbeds so that we can track



EDGE X FOUNDRY

EdgeX Community Awards

Brett Preston

EdgeX Community Awards

- Innovation Award: The Innovation Award recognizes individuals who have contributed (contributing back to open source) the most innovative solution to the open source EdgeX project over the past year.
 Once the submission deadline is closed, the EdgeX Technical Steering Committee will review the nominees and select 2 winners.
- Contribution Award: The Contribution Award recognizes individuals who have contributed leadership
 and helped EdgeX Foundry advance and continue momentum in the past year. This includes individuals
 who have lead work groups, special products, and/or contributed large amounts of code, bug fixes,
 marketing material, documentation, or otherwise significantly advanced the efforts of EdgeX with their
 drive and leadership. The Governing Board will evaluate the nominees and select 2 winners.

• Timing:

- Nominations open March 22 and close April 5, 2018 (email will be sent)
- Awards will be announced at Hannover Messe, April 23-27 2018 in Hannover, Germany and in PR and marketing materials



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 <u>keith@iotechsys.com</u> (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 by Jim White, Dell (james white2@dell.com)

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

Call recordings are available on the Wiki

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 <u>pr@edgexfoundry.org</u> once Meetup has been scheduled
- Post-event, please consider doing a blog about the event

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 in Market

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

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 <u>Dave Bohlman</u> and <u>KMC Controls</u> for making this awesome kit and how-to guide available to members!!



Hackathon Events

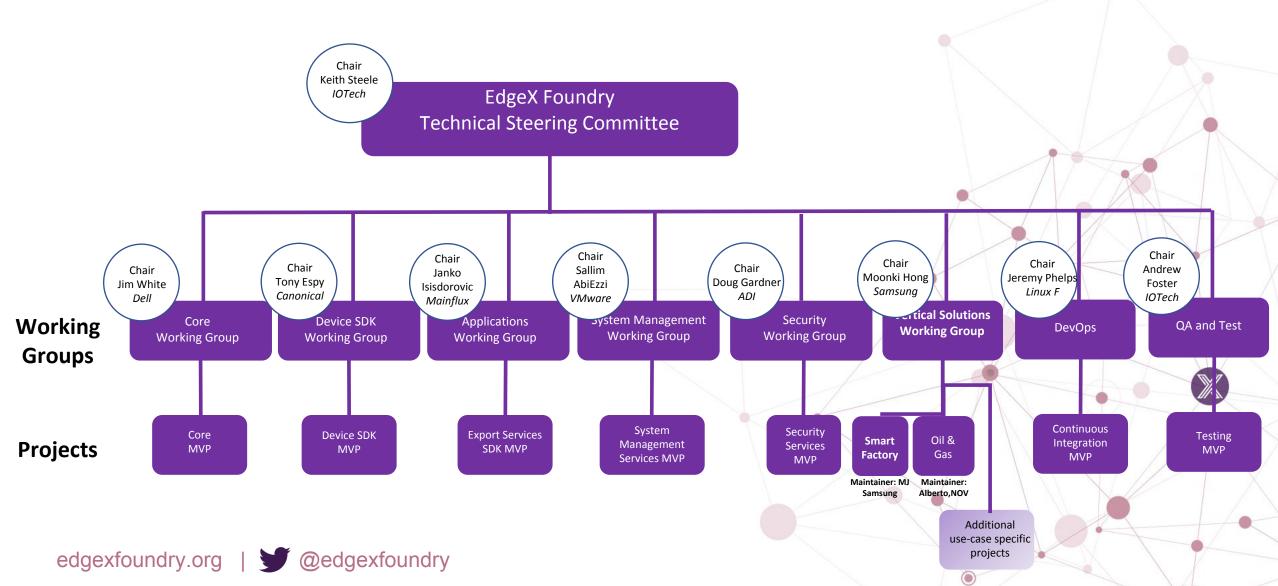
- Jim White and Tyler Cox putting together hackathon starter kit.
- More coming

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







Marketing

 CTA: If your company will be demoing technologies that utilize the EdgeX framework, please email events@edgexfoundry.org so that we can add to https://www.edgexfoundry.org/events/

 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

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: March 28, 2018

