EDGE X FOUNDRY™

TSC Meeting

November 28, 2018

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Meeting Logistics

Time: November 28, 2018 7am PST – 8am PST

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
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. Decisions by vote at a meeting require a majority vote, provided quorum is met.*

Today's Agenda

- Welcoming New Members
- Join us on Slack
- Delhi Dot Release
- WG Updates
- EdgeX Long/Short Term Support
- Next TSC F2F
- Upcoming Events
- AOB

Welcoming New Members

Keith Steele

Welcoming New Members

http://www.embeddedlab.org/en

https://dataahead.de/

http://emqtt.io/

http://foundries.io/

Join us on Slack!

Brett

EdgeX Slack is now active

- Link to join: https://join.slack.com/t/edgexfoundry/shared_invite/enQtNDgyOD M5ODUyODY0LWVhY2VmOTcyOWY2NjZhOWJjOGI1YzQ2NzYz ZmIxYzAzN2IzYzY0NTVmMWZhZjNkMjVmODNiZGZmYTkzZDE 3MTA
- Rocket.Chat will remain up for history

Delhi Dot Release

Jim

Delhi Dot Release (0.7.1) - Thursday, 6 DEC

- Feature: Core, Metadata, Logging, Export Client Redis-based services
  - Work towards making EdgeX more database independent
  - Work towards making EdgeX more 32bit available
- Also include some new device services (from the new SDKs)
  - device-random
  - device-mqtt
  - device-modbus
- Work will include some bug fixes not captured in Delhi
- What additional items??
  - Work group leads, please provide me list of items in this dot release

Work Group Updates

Chairs

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
- Developer Outreach - Michael
- Others & Misc

Core Working Group (28-Nov-18)

- Redis code for Delhi 0.7.1 release has been merged
  - Integrated with core-data, core-metadata and export-client
  - For Edinburgh
    - Support-notifications is committed, work not started.
    - IOTech has offered help, in discussion with Redis
- Mongo data model decoupling
  - All of core-data
    - Revised PR #856
    - Blackbox-tests also modified PR #109
  - Core-metadata will be next
    - Could be more than 1 PR to keep things manageable

Applications WG Update (28-Nov-18)

- Last two Applications WG Meeting were canceled due to holidays and FIWARE Summit.
- Next Application WG meeting is scheduled for December 4
- The next goals are:
  - To define development tasks for the Application Services
  - Prepare proposal for TSC

Device Services WG Update (28th Nov)

- Both C/Go SDKs supported for Dehli, a few bug fixes.
- C SDK Consul integration done in Dehli release
- Go MQTT and Modbus Device Services are now published.
- C Grove Device Service in process of publication.
- C OPC-UA Device Service in process of publication.
- Published new simple Go "random" service.
- Michael has done initial version of SDK documentation, Cloud reviewing.
- Discussing proposal for new Device addressable format.

QA/Test WG Update (28th Nov)

- Allure dashboard investigation- verified it works on local Jenkins server for black box test

- Trevor replaced IDs with UUID format in Core-Data test script

- Opened issues for the failed test cases after fixing the incorrect legacy test script

  - 2 in black box repository: #98 and #107

  - 10 in edgex-go: #838 ~ #846, and #848

DevOps WG (28-NOV-18)

- Delhi dot release coming up (1 week)
  - Should already have rev'd delhi versions to dot version
- New device services (go and c)
- New edgex ui (clojure)
- Volunteer for DevOps WG
- Volunteers to be involved in CI
- Regarding last 2 points; Is there a volunteer to work with me on it and help execute the delhi release?

Security (28-Nov-18)

- Edinburgh work has begun
  - Starting with more detailed documentation
- Delhi Security Demo next hour in the Security WG meeting
- HW Secure storage design document review next week

System Management WG (28 Nov 18)

- Reworking start/stop design & implementation
  - Akram working on docker in docker solution POC
- Additional work tasks for Edinburgh
  - Redesign/implement SMA start/stop (part of above)
  - Integrate with Security
  - Incorporate with SDKs/DS
  - Add metrics
  - Add service status health check
  - Create initial transformation (stretch goal)
- System management video available
  - Blog post pending

Developer Outreach (28-NOV-18)

- Done
    - Updated README.md on edgex-go
    - Replace Java SDK docs with Go SDK docs
    - Repointed chat links to Slack
    - Deployment Patterns docs ready

- Coming up
    - DevKits & Ecosystem webpages
    - Release Notes template & script
    - Device Service usage guides

- Blocked
    - Quick Start guide, waiting on device-random docker image

Project Stats (21-27 NOV-18)

- Website
  - Overall: 8,809 pageviews, 1,359 users / 921 new (down 12%)
  - Docs: 5,132 pageviews (down 8%)
  - Top blog post: How to implement an API Gateway & JSON Web Token (JWT) Based Authentication for EdgeX Foundry

- Github
  - 5 Active Repos (down from 7)
  - 59 Issues Opened / 51 Issues Closed (down from 117/86)
  - 24 Commits (down from 26)
  - 7193 Lines of code (up from 875)

- Slack
  - 89 users / 81 active / 42 posting
  - 135 messages

EdgeX Long / Short Term Support

Jim W

LTS (and STS)

- Per Edinburgh F2F, demand to define EdgeX support policy going forward for 1.0 release and beyond
- Jim W on task to draft strawman and present to DevOps WG.
  - Scheduled for next DevOps call
- Using other open source efforts as template
  - Proposing 2 years (or 3 named releases) long term support
  - Proposing 6 months (or next named release) for short term support
- Support defined as:
  - Best effort by community to fix major bugs and security flaws
  - Making all artifacts and other deliverables like documentation available during LTS/STS
  - Making related / required artifacts (Mongo, Consul, Kong, etc.) used for release available during LTS/STS where legally allowed.

EdgeX TSC F2F Meetings

Brett Preston

EdgeX TSC F2F Meeting(s)

- **22 - 25 April, 2019** -- Location Seoul, South Korea -- Wiki page
    - Technical Business Discussions + EdgeX 101 on Monday, April 22
    - Architect's Day / WG Breakout Sessions + Social Event on Tuesday, April 23
    - Technical F2F - Day 1 + Dinner Reception on Wednesday, April 24
    - Technical F2F - Day 2 on Thursday, April 25
- **RSVP at https://goo.gl/forms/oMptkNU90RRxhK5g1**
    - RSVP by EOD April 5
    - Current registration count: 2 in-person; 0 dial-in
- Hotel/Travel: Information coming soon

- **October, 2019** -- Location Chandler, Arizona (USA) @ hosted by Intel

Upcoming Events

Upcoming Events

- FIWARE Global Summit, November 27-28, Malaga
  - Janko Isidorovic (Mainflux) - Keynote on November 27 - Enabling a Cloud-Native Edge for IoT Scale

- International Congress on Management and Technologies, December 8-13, Brazil
  - Dalton C G. Valadares (Federal University of Campina Grande) - Edgex Foundry: plataforma baseada em serviços para aplicações IoT

- Emerging Computing Technology Conference, January 29-30, 2019, Houston
  - Keith Steele (IOTech) and Jim White (Dell) - January 29 at 4:15 pm

- IoT Evolution Expo, January 29 - February 1, Fort Lauderdale
  - Jim White (Dell) - TBD - Edge Computing: Remotely acting on mission-critical decisions in the field

Upcoming CFPs

CFP Upcoming Deadlines:

- Open Source Leadership Summit , March 12-14, 2019, Half Moon Bay, CA
  - CFP Status: Closes January 28, 2019
  - https://events.linuxfoundation.org/events/open-source-leadership-summit-2019/program/cfp/

- Open Source Summit China, June 24-25, 2019 | Shanghai, China
  - CFP Status: Opens December 1, 2018 – March 10, 2019

- Members interested in joining the EdgeX Speakers Bureau, please email pr@edgexfoundry.org
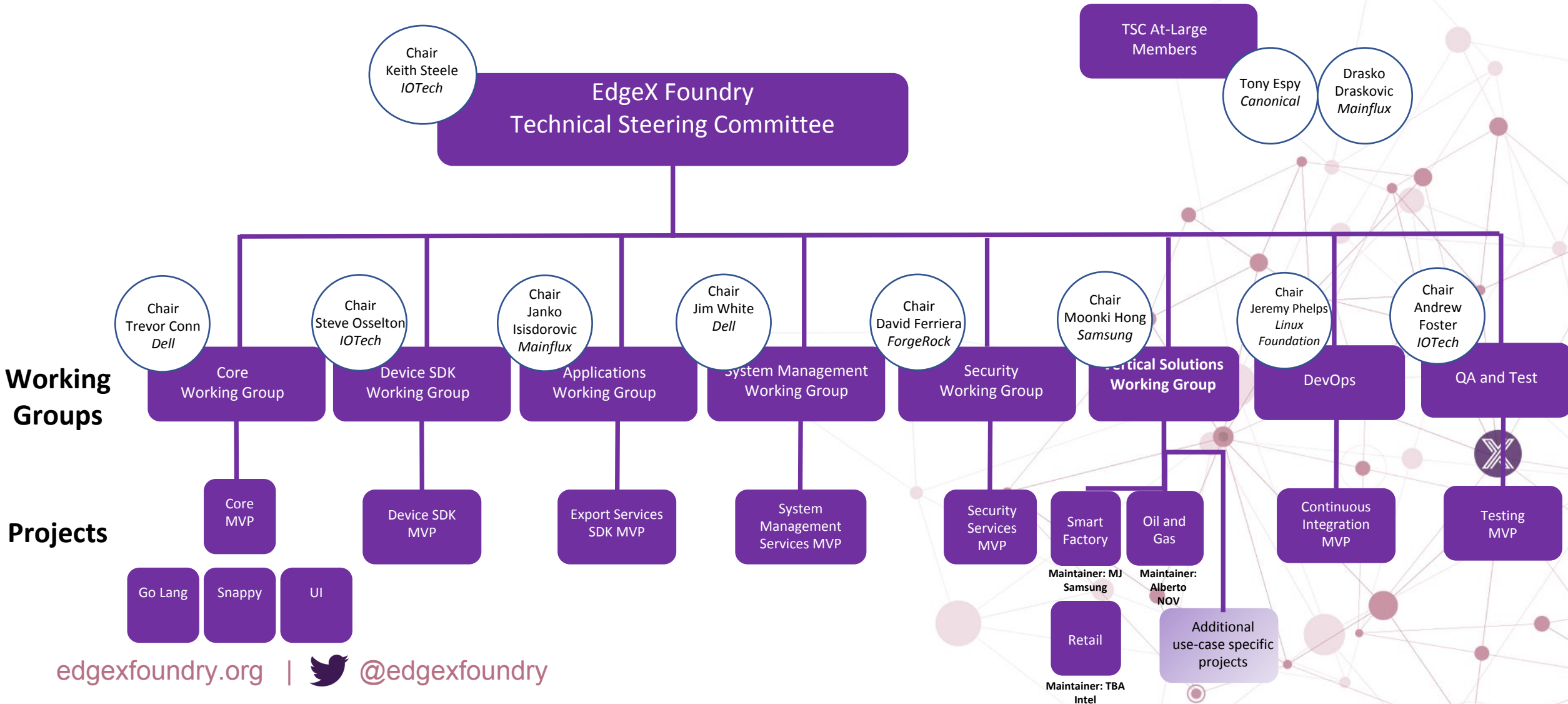
AOB / Reminders

AOB/Cadence

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

- **Next Meeting: December 5, 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
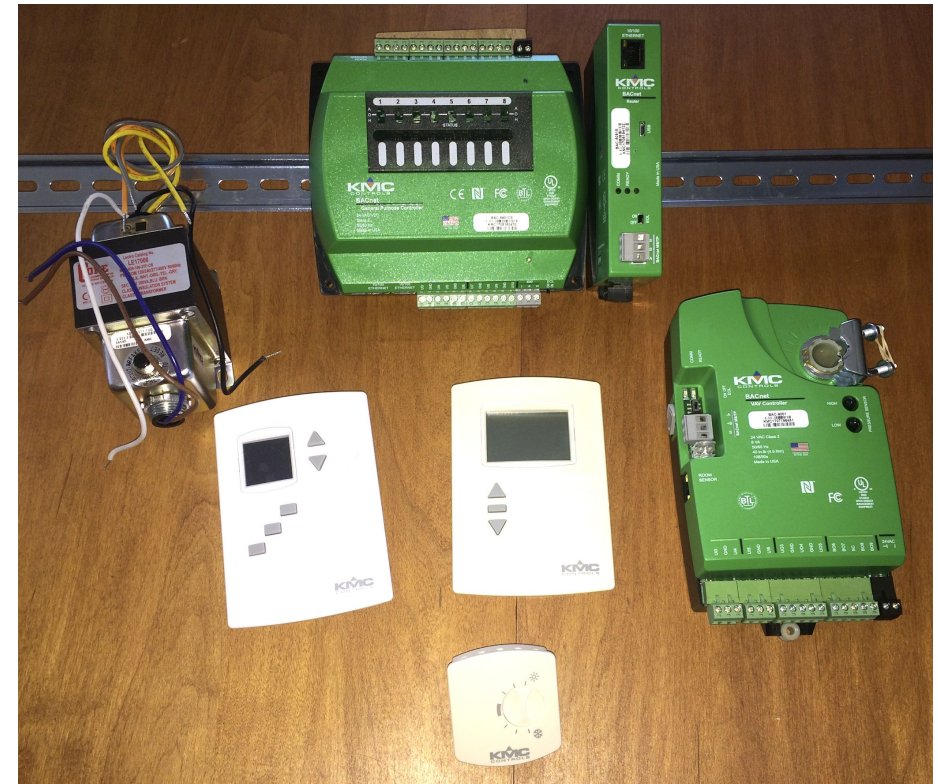   Call recordings are available on the Wiki

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

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

Thank You