TSC Meeting

February 13, 2019

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Meeting Logistics

Time: February 13, 2019 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

EDGE X FOUNDRY™

Company	Name	Email
IOTech	Andy Foster	andy@iotechsys.com
ForgeRock	David Ferriera	david.ferriera@forgerock.com
Mainflux	Drasko Draskovic	drasko@mainflux.com
Intel	James Gregg	james.r.gregg@intel.com
Mainflux	Janko Isidorovic	janko@mainflux.com
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
Dell	Randy Thompson	Randy.T@dell.com
IOTech	Steve Osselton	steve@iotechsys.com
Canonical	Tony Espy	espy@canonical.com
Dell	Trevor Conn	Trevor.Conn@dell.com

Current quorum = 6 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

- WG Updates
- Edinburgh Freeze/Release dates
- Next TSC F2F
- Upcoming Events
- AOB

Work Group Updates

Chairs

Working Group Chair Updates

- Around the horn
    - Core/Supporting - Trevor
    - Applications - Janko
    - Device Services - Steve
    - Test/QA - Andy
    - DevOps - James
    - Security - David
    - System Management - Jim
    - Certification - Randy
    - Vertical Solutions - Moonki
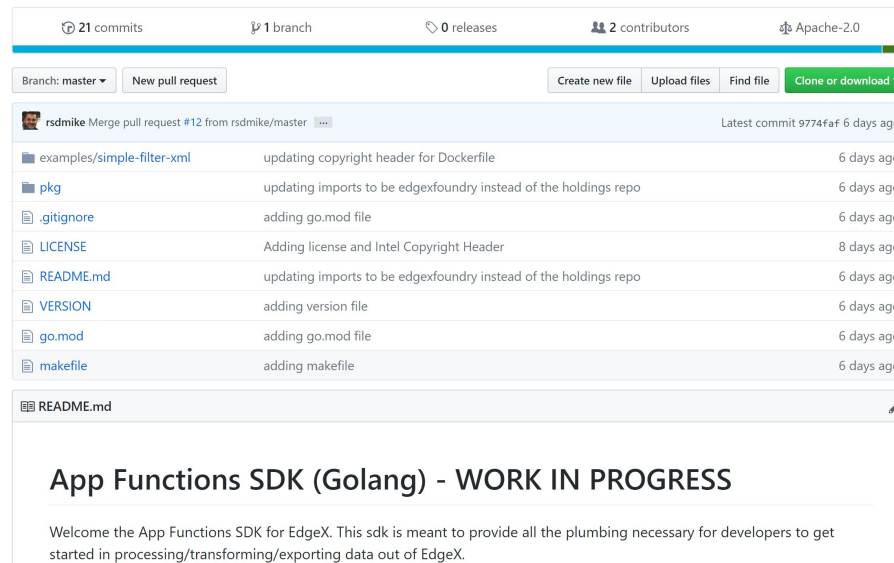   - Developer Outreach - Michael

Core Working Group (13-Feb-19)

- Modules
  - This coming week, starting population of 3 new repos
    - go-mod-core-contracts
    - go-mod-registry
    - go-mod-messaging
  - After creation, device-sdk-go and edgex-go will need to import
    - device-sdk-go is itself already a module, edgex-go needs to be converted
- Versioning
  - Current conclusions to date
    - Modules shared as libs can be versioned independently
    - Services/applications must all be versioned together, tied to named release
      - This currently includes SDKs
- Correlation-ID
  - Now also being passed through event bus (core-data to export-distro)
  - Can be passed to northside endpoints
    - Currently HTTP only, applicable to app-functions-sdk

Applications WG Update (13-Feb-19)

- The First pieces of the EdgeX Application Functions SDK are in the holding repo. Thank you Mike Johnson (Intel). (https://github.com/edgexfoundry-holding/app-functions-sdk-go)

- Mike gave us a overview of the code on yesterday's Application Working Group meeting
- Question was raised how to handle separate configs for SDK and the User Function
- Recording of the meeting:
  https://zoom.us/recording/share/Q9S0fRpObmlgBVII6aQHDwmlVzVK_O8p3ikt5lBTirSwIumekTziMw
- We will try to move Application Functions SDK from holding to main EdgeX Repo as soon as possible.

Device Services WG Update (13-2-19)

- Go SDK
  - Resync with Edinburgh core changes (e.g. correlation id)
- C SDK
  - Registry abstraction complete
  - Dynamic config update support TBD
- General
  - Attempt to resolve outstanding Edinburgh SDK technical issues
  - Device addressable design agreed
  - Device local scheduling mechanism largely agreed, ETA next WG
  - Triage of outstanding Go SDK issues for Edinburgh

Test/QA WG Update (02-13-19)

- Fixed black box test issues [#141](#), [#142](#), [#144](#)

- Investigating failed blackbox test cases

- Blackbox test results dashboarding in the process of being deployed as part EdgeX CI (committed for Edinburgh)

- Working on automation of performance tests developed so far for (committed for Edinburgh)

- In the process of defining device service automated testing strategy - will review with QA/Test WG + Device Service WG shortly (not committed work for Edinburgh)

- Will hold the first regular QA/Test meeting outside of the current combined DevOps+QA/Test meeting this week (Thursday 4pm PST)

DevOps WG Update (02-12-19)

Several User Stories currently being worked in current sprint.

- PR merged last night refactor docker templates to remove java trigger dependencies
- Allure report publisher added to integration testing job template
- New Jenkins jobs created to enable go modules - Additional Work Needed
- Meeting scheduled today with LF Infrastructure team regarding request landing new TIG stack

Explore on Additional tooling to support QA / Test to include cost analysis

- Codecov.io (SaaS)
- SonarQube (OSS)

Next DevOps WG meeting - Thursday 7AM PST

Security WG Update (01-16-19)

- Documentation work:
  - Secret store near completion
- Finalize HW Secure Storage design document today
  - Coding can begin next.
- Automated testing design has begun

System Management WG Update (2-13-19)

- ## Current work
  - Add CPU usage metrics (in addition to memory usage metrics)
    - Platform dependent
  - Go & C SDK (and device services) incorporation work to be done
    - Additionally need to look at adding to application services (functions SDK)
  - Add health/status check of the services to the SMA

  - Stretch goal – provide a translation layer (with abstraction) to offer SMA API via other protocol (like LWM2M, SNMP, etc.)

Certification WG Update (2-11-19)

- Forming and norming discussions continue
- 5 active and vocal participants, but we could use more
- Minutes and recording available on wiki
- Next meeting Mon Feb 18, 7am PST

Vertical Solutions WG Update (1-30-19)

- 3pm PST Commerce Project Kick Off Meeting
  - https://www.edgexfoundry.org/calendar/

Developer Outreach (02-13-19)

- Community Devkit deep-dive Tech Talk is available

- New Device SDK C Guide

- Security docker-compose.yml fixed

- Working with Discourse

Edinburgh Release

Proposed timeline

- Freeze: April 1
  - Create new branch; update version numbers on master, etc.
  - Testing and bug fixes between 4/1 and 4/26 (25 days)
- Release date: April 26 (Friday)
- EdgeX F2F: April 29 - May2
  - Fuji planning

EdgeX TSC F2F Meetings

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EdgeX TSC F2F Meeting(s)

- **29 April - 2 May, 2019** -- Location Seoul, South Korea -- [Wiki page](#)
  - Technical Business Discussions + EdgeX 101 on Monday, April 29
  - Architect's Day / WG Breakout Sessions + Social Event on Tuesday, April 30
  - Technical F2F - Day 1 + Dinner Reception on Wednesday, May 1
  - Technical F2F - Day 2 on Thursday, May 2
- **RSVP at https://goo.gl/forms/oMptkNU90RRxhK5g1**
  - RSVP by EOD April 12
  - Current registration count: 14 in-person; 0 dial-in
- Hotel/Travel: Recommended hotels listed on [Wiki](#)

- **4 November - 8 November, 2019** -- Location Chandler, Arizona (USA) @ hosted by Intel

Upcoming Events

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Upcoming Events

- Hannover Messe, April 1-5, 2019 | Hannover, Germany
  - EdgeX will have a presence in the Dell booth, including the EdgeX Community Demo
- Open Networking Summit, April 3-5, 2019 | San Jose, CA
  - LF Edge is exploring a booth presence
- Internet of Things World, May 13-16, 2019 | Santa Clara, CA
  - EdgeX will have a booth

Upcoming CFPs

CFP Upcoming Deadlines:

- Open Source Summit China, June 24-26, 2019 | Shanghai, China
  - CFP Status: Closes **February 15, 2019**
  - https://linuxfoundation.smapply.io/prog/open_source_summit_china_2019/
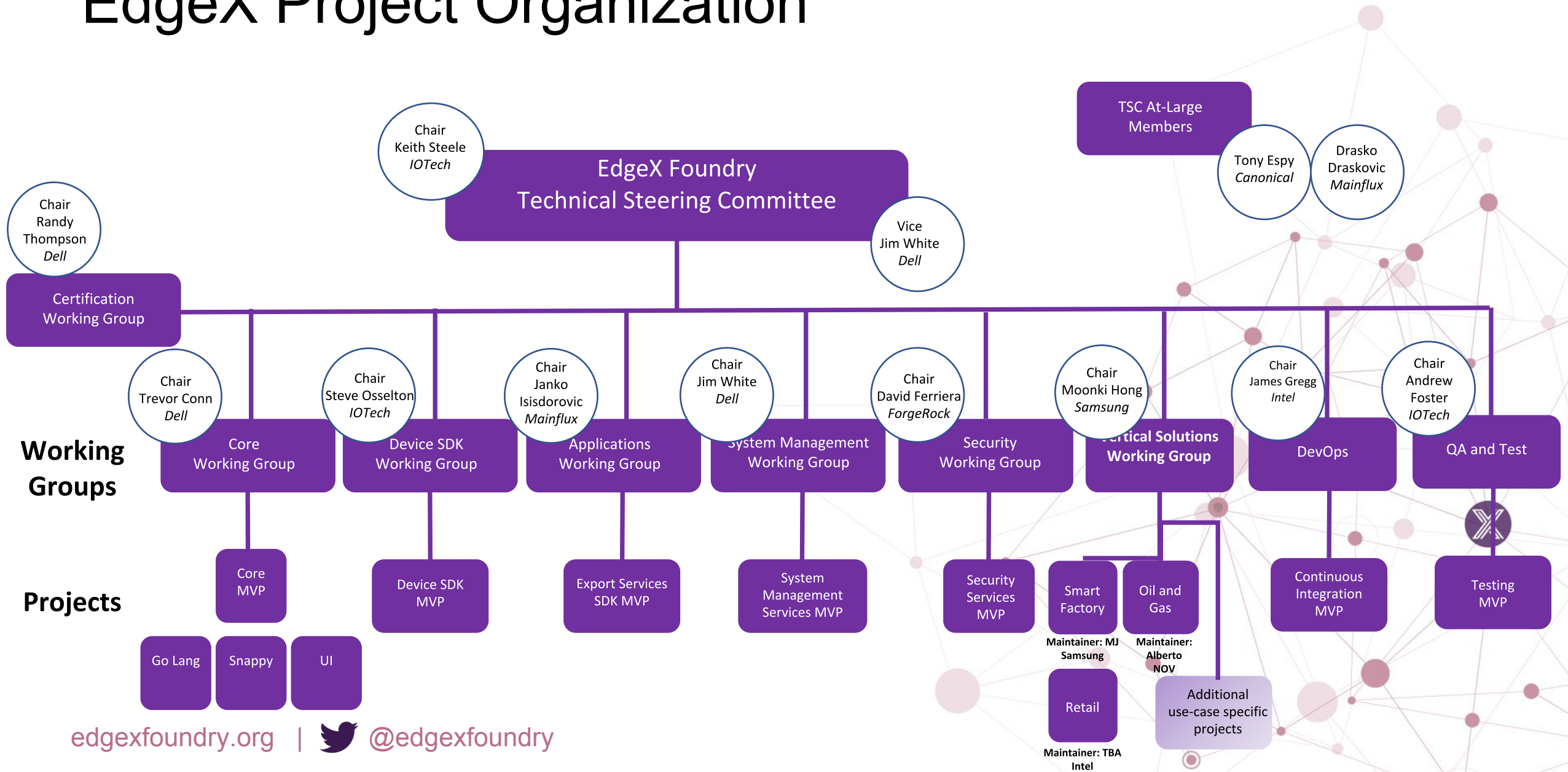
AOB / Reminders

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: February 20, 2019**

EdgeX Project Organization

EDGE**X**FOUNDRY™

EdgeX Foundry Technical Steering Committee

Chair
Keith Steele
IOTech

Vice
Jim White
Dell

TSC At-Large Members

Tony Espy
Canonical

Drasko Draskovic
Mainflux

Chair
Randy Thompson
Dell

Certification Working Group

Working Groups

Chair
Trevor Conn
Dell

Core Working Group

Chair
Steve Osselton
IOTech

Device SDK Working Group

Chair
Janko Isisdorovic
Mainflux

Applications Working Group

Chair
Jim White
Dell

System Management Working Group

Chair
David Ferriera
ForgeRock

Security Working Group

Chair
Moonki Hong
Samsung

Vertical Solutions Working Group

Chair
James Gregg
Intel

DevOps

Chair
Andrew Foster
IOTech

QA and Test

Projects

Core MVP

Device SDK MVP

Export Services SDK MVP

System Management Services MVP

Security Services MVP

Smart Factory

Maintainer: MJ Samsung

Oil and Gas

Maintainer: Alberto NOV

Continuous Integration MVP

Testing MVP

Go Lang

Snappy

UI

Retail

Maintainer: TBA Intel

Additional use-case specific projects

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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
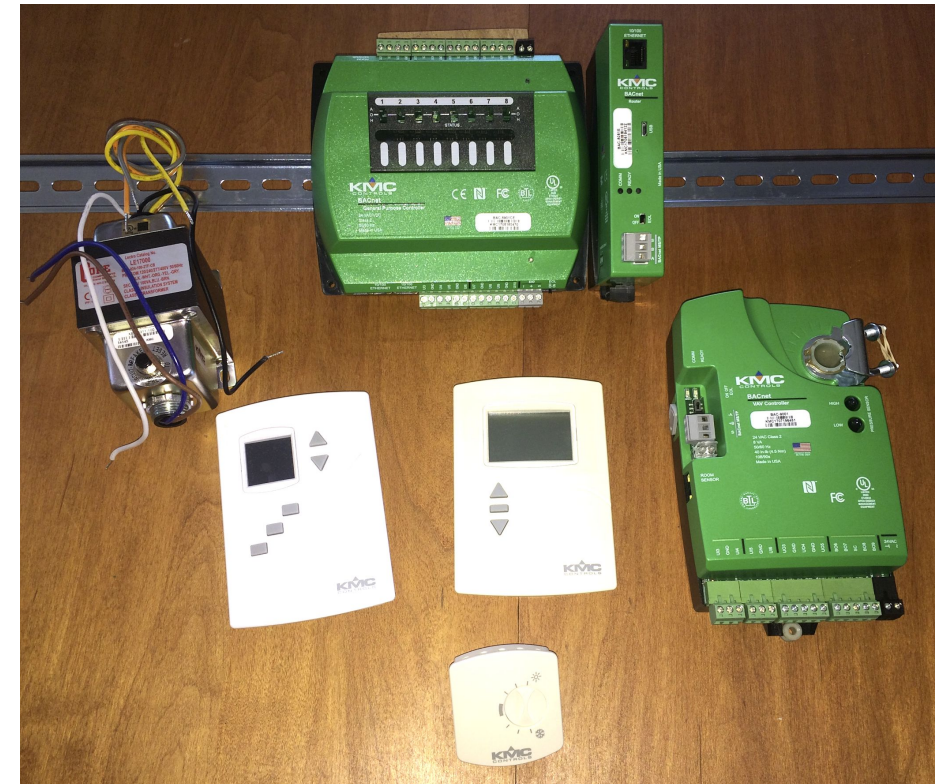
  Call recordings are available on the Wiki

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