

EDGE X FOUNDRY™

TSC Meeting

December 12, 2018



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Meeting Logistics

Time: December 12, 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/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>
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

- Delhi Dot Release
- WG Updates
- Process Misc
 - EdgeX Long/Short Term Support
 - Maintainers/Committers
 - Attribution
 - Google Docs
- Next TSC F2F
- Upcoming Events
- AOB



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Delhi Dot Release

Jim

Delhi Dot Release (0.7.1)

- Released Monday
 - docker-compose files available (see developer-scripts repo)
- 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



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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

Core Working Group (12-Dec-18)

- **Mongo data model decoupling (Edinburgh)**
 - Core-data complete
 - Starting work on core-metadata endpoints
 - Command (Michael Estrin -- Dell)
 - Addressable (Trevor Conn -- Dell)
- **Mongo DB driver replacement**
 - PR #915 -- Blackbox tested, will merge 12-Dec after TSC Call
 - Contribution from Intel (Lenny Goodell)
 - Usage of the GlobalSign community supported driver
- **Delhi post-release**
 - Thanks to Ian @ Canonical for his work on updating Attribute.txt files in edgex-go

Applications WG Update (12-Dec-18)

- Presentations on:
 - Redis Streams
 - Intel DPS

As possible initial examples for Application Services Message Bus. We need to continue the discussion and look at some implementation examples.

- Proposition for development tasks for first two Application Services microservices is in the Application WG Slide deck.
- We need to discuss and agree on the tasks list before we create the project, tasks and issues in the GitHub.

Device Services WG Update (12-12-18)

- Go SDK
 - Issue: To support dynamic configuration registration
 - Merged versioning and Attribution.txt for Go SDK, MQTT, and Modbus Device Service
- Michael created new shared doc for device profile requirements
- Action to add additional SDK/service committers
- Initial service branching to match EdgeX core
- Tony to review updates to SDK requirements from Iain
- 0.7.1 tagging complete

Test/QA WG Update (12-12-18)

- Improving black box test script to use general API to initialize and cleanup database
 - Initial work completed on local machine, opened issue <https://github.com/edgexfoundry/blackbox-testing/issues/113> for this task, and opening PR back to community soon
 - Found out some issues when running EdgeX with Redis, added more information to the existing issue: <https://github.com/edgexfoundry/edgex-go/issues/776>
 - Found out some issues when Logging service running with file persistence, opened new issue <https://github.com/edgexfoundry/edgex-go/issues/909> and <https://github.com/edgexfoundry/blackbox-testing/issues/113>
- Started working on performance test implementation based on initial test cases (see <https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=21823740>)

DevOps WG Update (12-12-18)

Delhi patch is out. WG leads make sure to adjust your versions appropriately.

I'll not be attending the DevOps/QA WG meeting tomorrow.

Security WG Update (12-12-18)

- Documentation work ongoing - should have API gateway doc this week
- Completed Delhi demo last week
- Finish presenting HW based secure storage document in today's WG meeting.

System Management WG Update (12-12-18)

- Start/Stop redesign work on going
- New roadmap doc available on the Wiki
- Next Up
 - Go C SDK API work to be done
 - Add CPU usage metrics (in addition to memory usage metrics)
 - 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.)

Vertical Solutions WG Update (12-12-18)

-

Developer Outreach (12-12-18)

- Done
 - [Quick Start Guide](#)
 - New #documentation channel on Slack
- In Progress
 - DevKits pages (just waiting on 2 links)
 - New forum from Discourse
- Blocked
 - [Understanding Device Profiles](#) ([open questions](#))



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EdgeX Process & Misc Items

EdgeX Process & Misc Items

- LTS/STS still being reviewed & worked
 - See Dev Ops page for latest version.
 - <https://wiki.edgexfoundry.org/download/attachments/329486/LTS-draft-v2.pdf?version=1&modificationDate=1543685483000&api=v2>
- Committers and Maintainers - streamline and improve process
 - Old policy required full TSC approval of committers and maintainers
 - New proposed policy with current list of committers/maintainers:
 - <https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=21823860>
- Attribution required of each service/artifact
 - Suggested policy and procedure doc here:
 - <https://wiki.edgexfoundry.org/display/FA/Attribution>
- Google Docs
 - Many WGs are using Google Docs for creating, sharing and collaborating project info
 - Many don't know of the location of these docs and people in China can't access them
 - Ask that team add links to Wiki and make periodic copies (PDF) available on Wiki

Misc continued...

- What is the VERSION set to for all repos for master branch
 - Targeting 1.0, but should we set to this yet?
 - 0.8?
- Tooling to help with matters like above
 - Ian: I have personally used <https://fossa.com/> before and it integrates quite well with GitHub and is free for open source projects
 - my recommendation but tooling that can help with the Attribution.txt / legal requirements would be good
 - FOSSA: Integrate realtime license audits, vulnerability scans and reporting at the speed of development and delivery
 - Thoughts?
 - WG ready to explore this?
 - DevOps chair steps down at the end of the month. Impact and should we wait for replacement?



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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: 4 in-person; 0 dial-in
 - Hotel/Travel: Information coming soon
-
- **October, 2019** -- Location Chandler, Arizona (USA) @ hosted by Intel



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Upcoming Events

Upcoming Events

- [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
- Alliance of Industrial Internet / EdgeX liaison meeting, December 10-12, Shenzhen, China
 - Jijun (Wanxiang), Gavin (VMware), and Teijun (VMware) will present on EdgeX
- [Emerging Computing Technology Conference](#), January 29-30, 2019, Houston
 - Akram Ahmad (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

Full list of LF events available at
<https://events.linuxfoundation.org/upcoming-events/>

Additional EdgeX events available at
<https://www.edgexfoundry.org/events/>

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



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AOB / Reminders

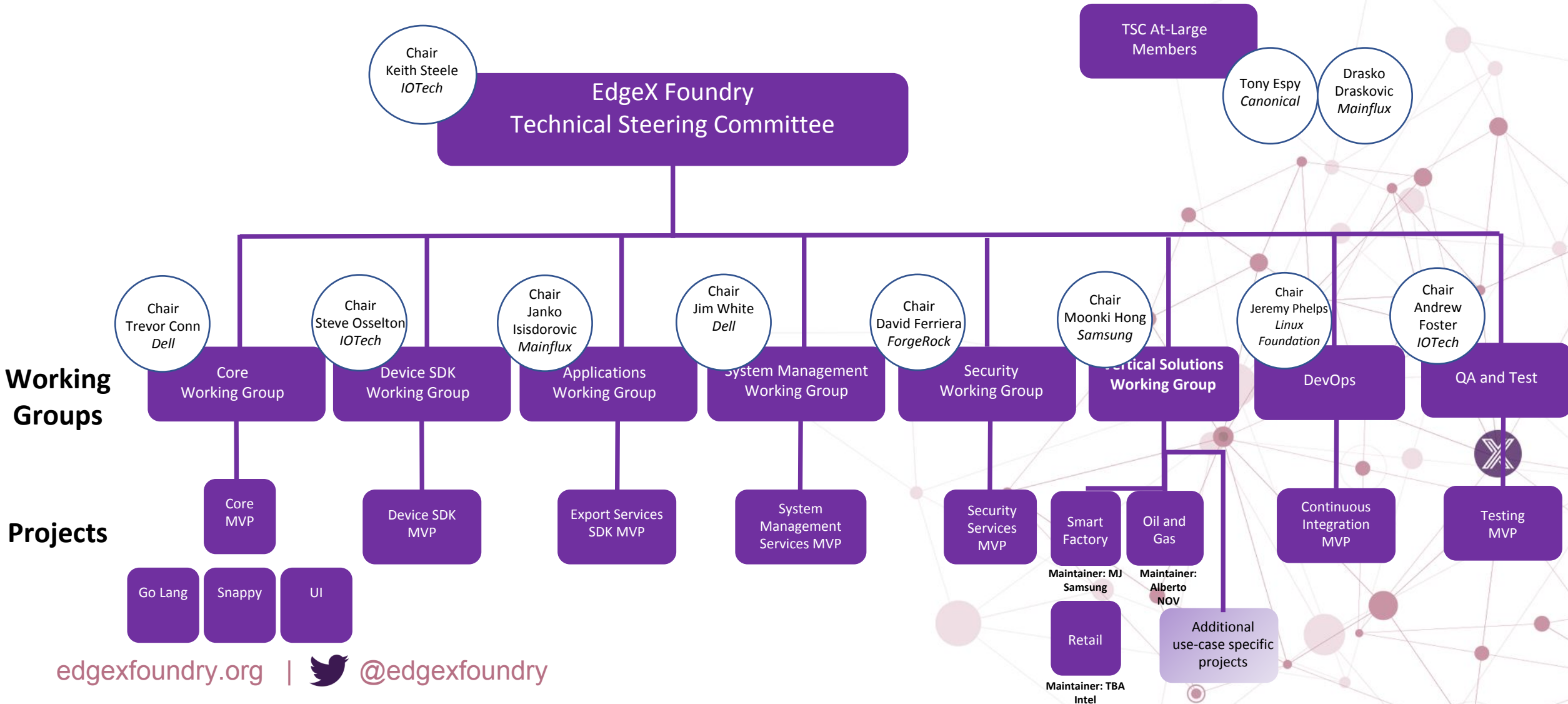
AOB/Cadence

- 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 19, 2018**

Calls December 26 and January 2 will be canceled - Holidays

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](#)

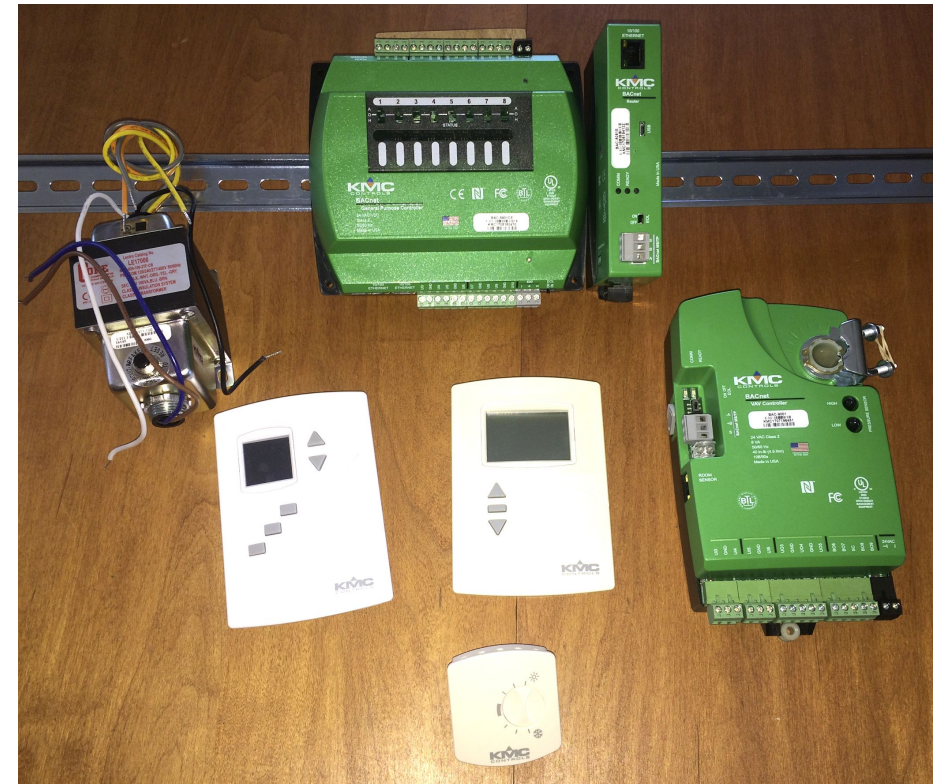
What is the Device Exchange?

- 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

Related topics

New Technology Open Source Interoperability Smart Home Internet of Things

Open Standards Mobile Development Internet of Everything EdgeX

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