

EDGE X FOUNDRY™

TSC Meeting

November 14, 2018



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Meeting Logistics

Time: November 14, 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

<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 Release
- WG Updates
- Next TSC F2F
- Upcoming Events
- AOB



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Delhi Last Call

Keith

Delhi Release - Friday, 16 NOV

- What PRs, bug fixes, misc. is still outstanding for this release?
 - What is work plan and timeframe to meet the deadline
- Jeremy - what does DevOps need from the dev community?
-



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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
- Others & Misc

Core Working Group (14-Nov-18)

- Reviewed latest Redis code for Delhi 0.7.1 release
 - Support-notifications is committed, work not started.
 - IOtech has offered help, in discussion with Redis
 - Support-logging will not be included
 - Mongo still to be used here if Persistence == "Database"
 - All other services looking pretty good
- Starting POCs on a couple Edinburgh initiatives
 - GoKit use limited to logging (PR #787)
 - Mongo data model decoupling (PR #779)
 - Hoping to have more detailed progress report @ 15-Nov Core WG call

Applications WG Update (14-Nov-18)

- Applications WG Meeting on 13-Nov-18
- Continued discussion on Application Services
 - Need to decide on example Message Bus Implementation (0MQ vs NATS)
 - MESSage bus configuration should be registered to Sys-config or Consul
 - Need to decide on example Function as a service Implementation (nuclio vs OpenFaaS)
 - Leonard Goodell from Intel will help write down low level spec for development
 - We have discussed to develop following microservices:
 - Data Filter Service - looking into using FaaS as an example
 - Transformation Service
 - Compression Service
 - MQTT Publisher Service
 - Connection Credentials will be pushed to Vault
 - Sync with System Management (Agent) on additional metrics and logging

Device Services WG Update (14th Nov)

- Created Dehli branches for C/Go SDKs
- C SDK Consul integration to be done in 0.7.1 update
- Go MQTT and Modbus Device Services are both in the holding area and ready to publish
- Adding new simple Go “random” service
- Michael doing some getting started guides for services
- Work started on SDK documentation

QA/Test WG Update (14th Nov)

- Merged PR [#104](#) - removed sleep when starting the services to speed up the black box test
- There are some test scripts for core service that don't detect failures - opened two issues to improve it #97 and #98
- Have issued PR [#102](#) for issue [#97](#)
- After the script improvement, we found additional failed test cases (the response code doesn't match the statement in RAML) - will open new issues in edgex-go
- Continuing to review testing tools and frameworks
 - Intel will demo their work with Telegraf+InfluxDB+Granfana for metrics gathering at tomorrow's combined QA/Test WG meeting (Nov 15th)

DevOps WG (7-NOV-18)

Delhi release risks:

- edgex-ui-go build failure (go vet)
- last minute commits to delhi branch (device-sdk-go seems most risk)
- all services need to have version rev on master branch ASAP

Security (14-Nov-18)

- Some last minute Delhi issues being worked. Should be done this morning.
 - Thanks to Ian and Tony for their help!
 - Thanks Tingyu and Alain for the extra hours
- Delhi Security Demo next meeting in the Security WG meeting
- HW Secure storage design document review after Thanksgiving
- Edinburgh work begins tomorrow :)

System Management WG (14-Nov-18)

- Delhi wrapped up
 - Some issues with start/stop punted to Edinburgh (Jim fail)
- Demo of Delhi System Management functionality (thanks Akram)
 - www.youtube.com/watch?v=tlEnEo6whas&feature=youtu.be
- Organizing plans / work tasks for Edinburgh
 - Redesign/implement SMA start/stop **[First priority]**
 - Integrate with Security
 - Incorporate with SDKs/DS
 - Add metrics
 - Add service status health check
 - Create initial transformation (stretch goal)

Developer Outreach (14-NOV-18)

- In Progress
 - New “Quick Start” guide for Delhi
 - Styling docs website to be on-brand
 - Deployment Patterns docs on the website
- Coming up
 - Revised “Get Started” webpage
 - DevKits & Ecosystem webpages
 - Migrating chat to Slack
 - Device Service usage guides



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Misc Updates

Jim

Miscellaneous

- Hanoi naming approved by TSC (Oct 2020 release name)
- Tools budget approved by TSC (Keith moving it forward with board)
- Release Manager meeting later today
- Any Edinburgh Scope Changes since meeting with your work groups?
 - Wiki has been updated with Edinburgh road map (as well as updating backlog)
 - I'll add Issues to Github after this week



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TSC F2F Planning

Brett

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: 1 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

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

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

Upcoming Events

- [IoT Build Europe](#), November 13-14, London
 - Keith Steele - November 13 - [Defining Edge and its role in the Internet of Things](#)
- [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

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Upcoming CFPs

CFP Upcoming Deadlines:

- [Internet of Things World](#), May 13-16, Santa Clara, CA (USA)
 - Deadline - **November 16**, 2018
 - https://get.knect365.com/iot-world/speaking-submission-2019/?_ga=2.218061782.1372769890.1536769581-2081958547.1534262136
- [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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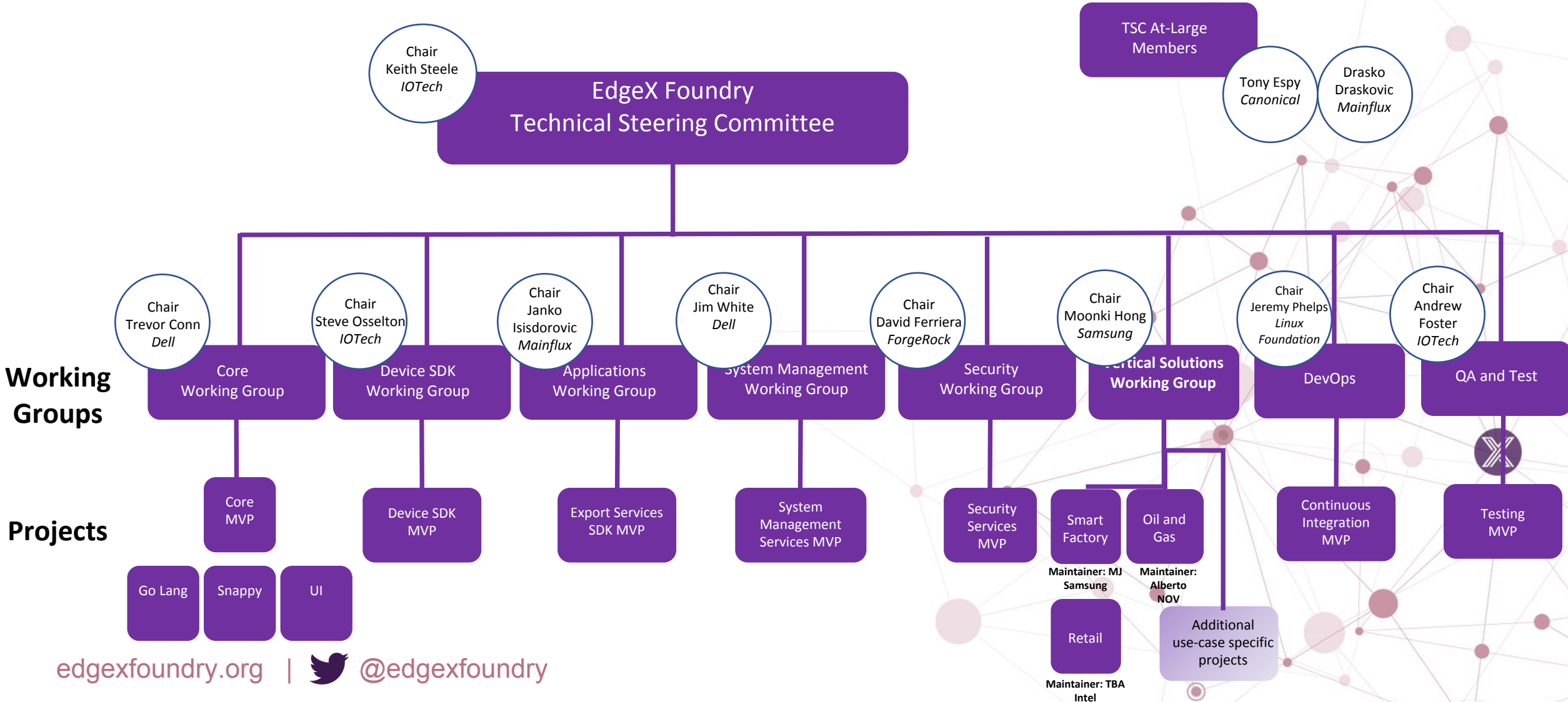
AOB / Reminders

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: November 28, 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](#)

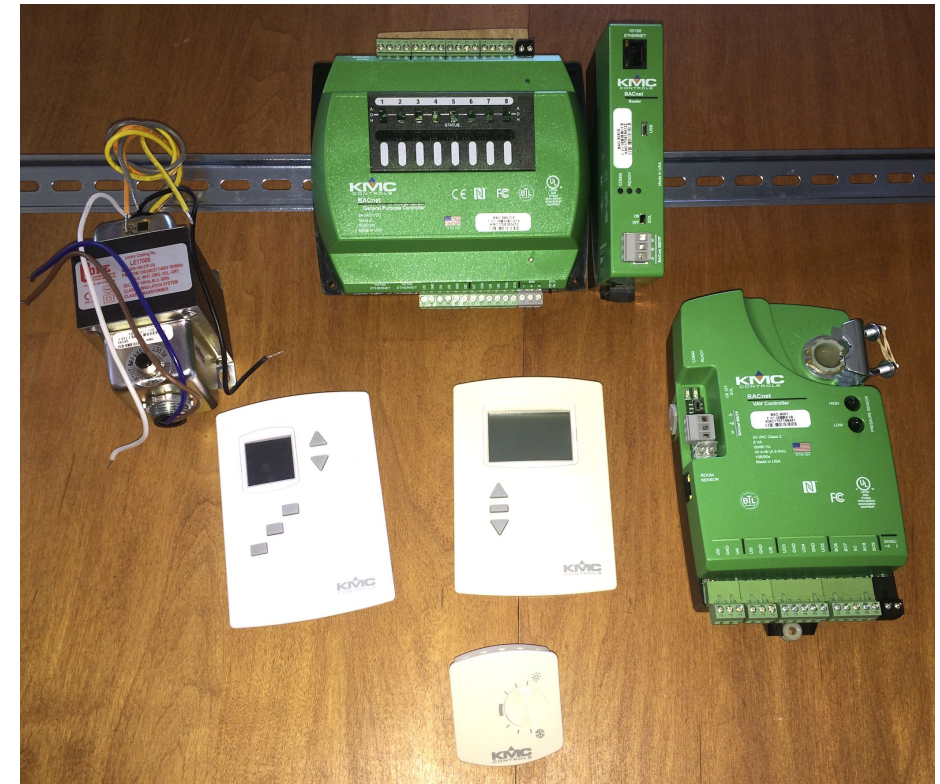
What is the Device Exchange?

- 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>

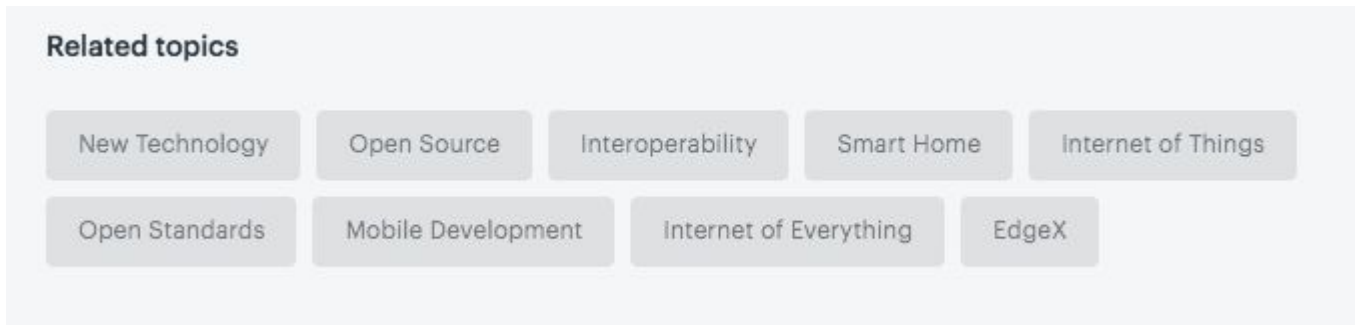


Special thanks to [Dave Bohlman](#) and [KMC Controls](#) for making this awesome kit and how-to guide available to members!!



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