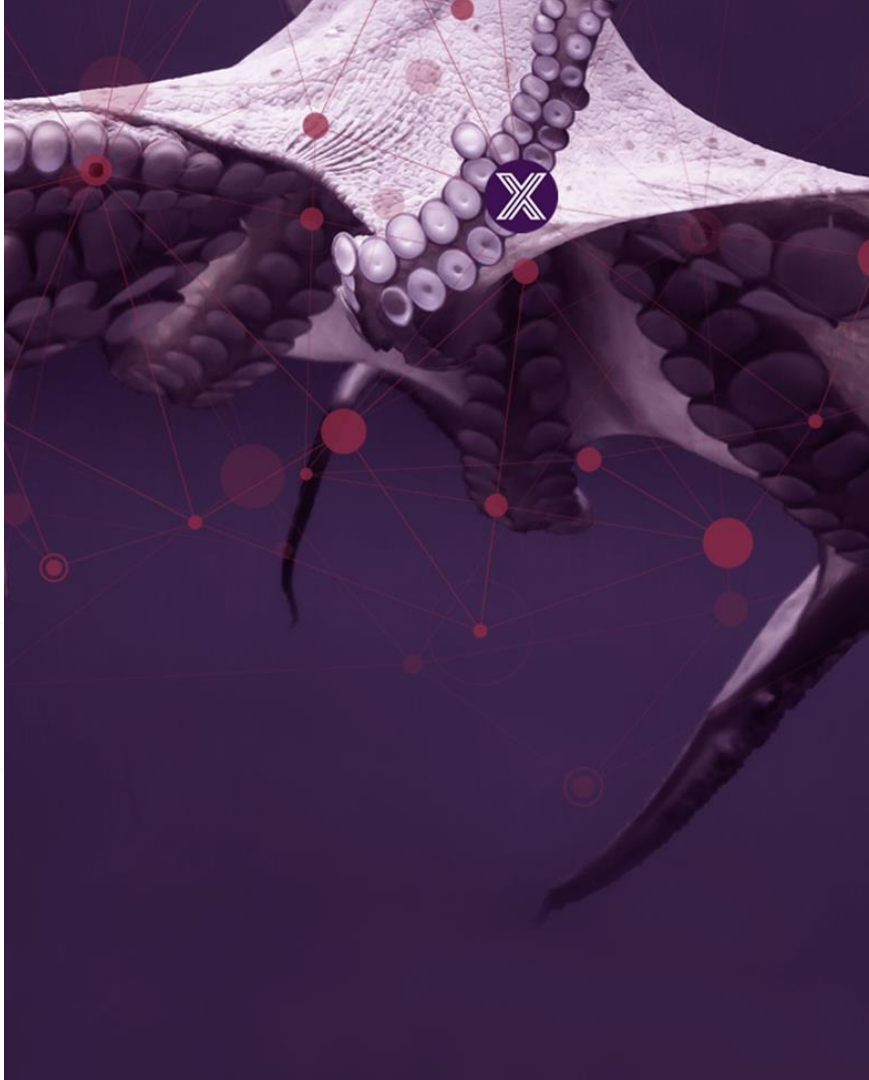
EDGE X FOUNDRY™

Vertical Solutions Working Group

Commerce Project

October 15, 2019



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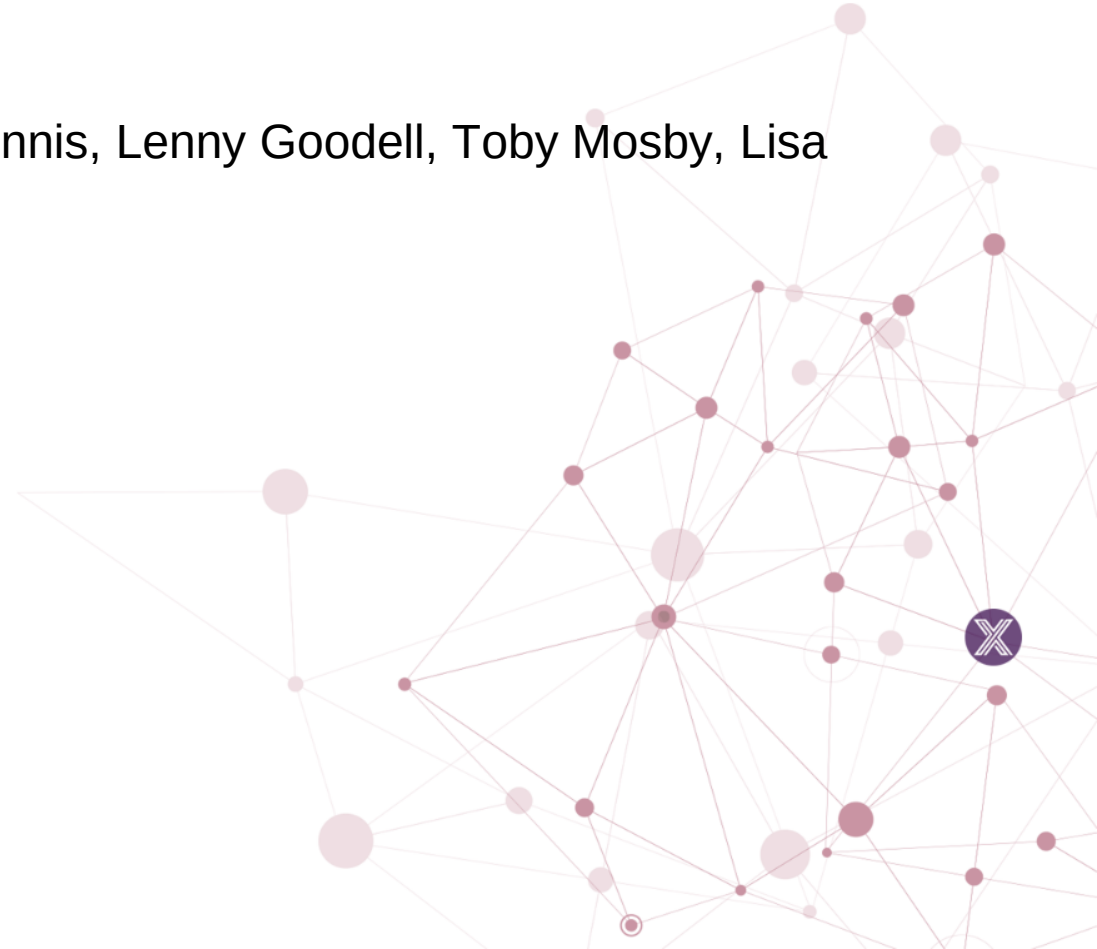
Examples of types of actions that are prohibited at EdgeX Foundry meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at http://www.linuxfoundation.org/antitrust-policy. If you have questions about these matters, please contact 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.

Attendees

- Intel – Brad Corrion, Camilo Dennis, Lenny Goodell, Toby Mosby, Lisa Rashidi-Ranjbar
- Aevistrack – Mike
- IOTech – Jim White
- IBM - krenshaw
- HP – Henry Lau
- Steven Swanson
- Dell – Jean Marie Martini



Agenda

1. EdgeX Open hackathon event wrap up
2. Any other business

EdgeX Open hackathon event

- Date: Oct 7-8, 2019
- Location: Chicago downtown TechNexus

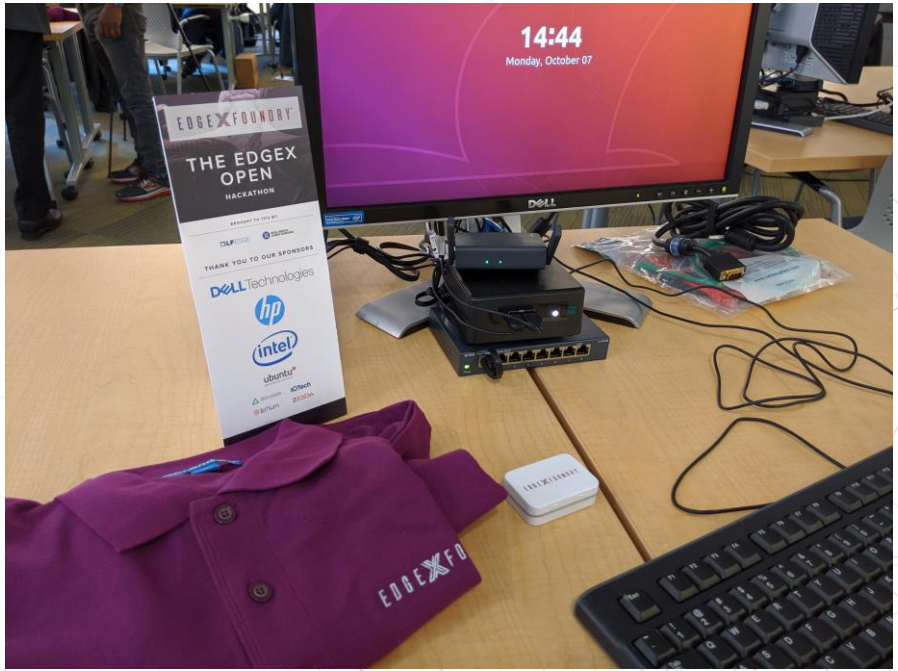
- Use case categories:
  - Advanced loss prevention
  - Dynamic personalized retail experience
  - Inventory management
  - Open category

EdgeX Open – Station Setup

- Intel NUC, keyboard, mouse, display
- Ethernet router
- Wi-Fi router
- Power strip

- Intel network camera over MQTT

- RFID readers, barcode scanners, HP & Dell gateways, etc for share use



EdgeX Open – Two Day Event

- Day 1, 11am to 11pm
- Day 2, 8am to 2pm
- 5 teams submitted for judging

EdgeX Open - Judges

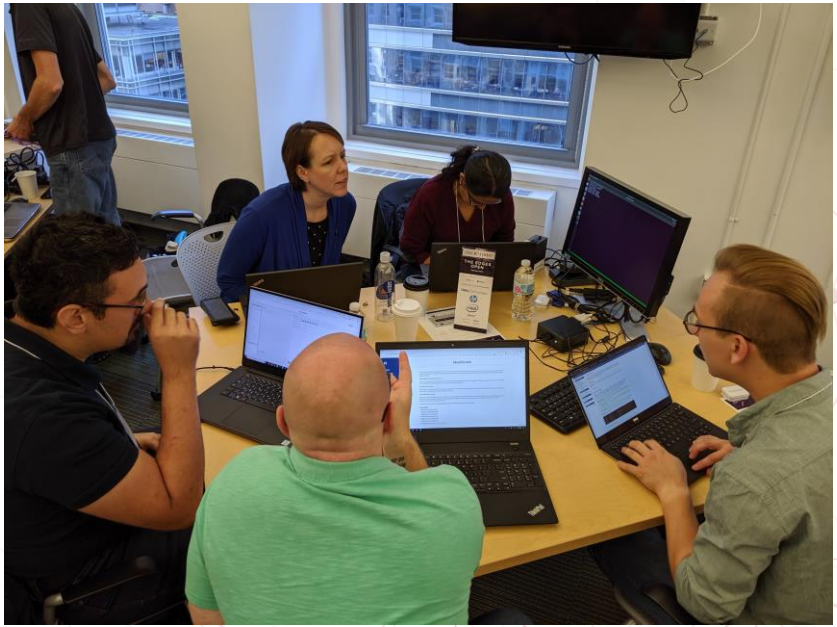
- Scott Gregory, HP
- Nicholas Ahrens, RILA
- Eran Harel, AppCard
- Mark Stutzman, Area 15
- Juan Santos, Tavistock

EdgeX Open – Team HAVI

- Supply chain management company based in Chicago, IL
- Use sensors in backroom to track inventory with QR code or RFID
- Add weight events to increase accuracy
- Goal to reduce waste and get more accurate dynamic inventory

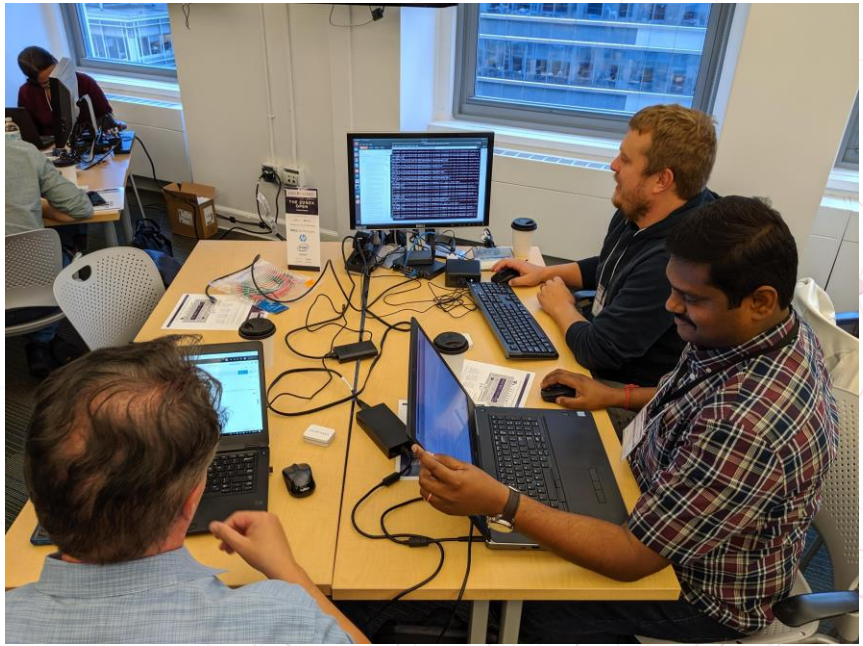
EdgeX Open – Team Intel/Intuiface

- Formed by Chandler, AZ folks and partner Intuiface
- Customized shopping experience by using camera & RFID to detect items picked
- Create custom recommendation based on person specifics and products picked



EdgeX Open – Team Johnson Controls

- Building technology solutions company based in Milwaukee, WI
- Collect environmental and usage data
- Thermostat, air quality, people counting camera, integrated on BACnet
- Runs higher level algorithms to optimize energy, electricity, space, etc



EdgeX Open – Team UST Global

- IT management company based in Aliso Viejo, CA
- Track ultra-perishable goods in grocery stores, e.g. how fresh is the meat
- Customers determine what to buy based on price, weight, sell-by-date
- AR mobile app scans aisles and gives details of meat packages
- Show “value” items with retailers pushing dynamics markdowns

EdgeX Open – Team Volteo

- Service and IT management company based in Chandler, AZ
- Use RFID sensors and network camera for accurate inventory management
- Track by combining POS transaction together with merchandise movement and door exit events

EdgeX Open – Results

- 1st place: Volteo
- 2nd place: Intel/Intuiface
- 3rd place: UST Global

EdgeX Open – Collected Comments

- We didn't want to learn Golang
- Why are we putting data from MQTT into EdgeX just to put it back into MQTT on export?
- We think we fixed it but don't want to restart services to pull the configs
- Device profiles - complicated configs and restarts
- A lot of work to pull data into EdgeX just to do little with it
- Wish we had time or knew how to utilize notifications, telemetry, etc
- If all my customer's vendors used EdgeX, my job would be a lot easier