EDGEX FOUNDRY™

China Project Meeting

https://wiki.edgexfoundry.org/display/FA/China+Project
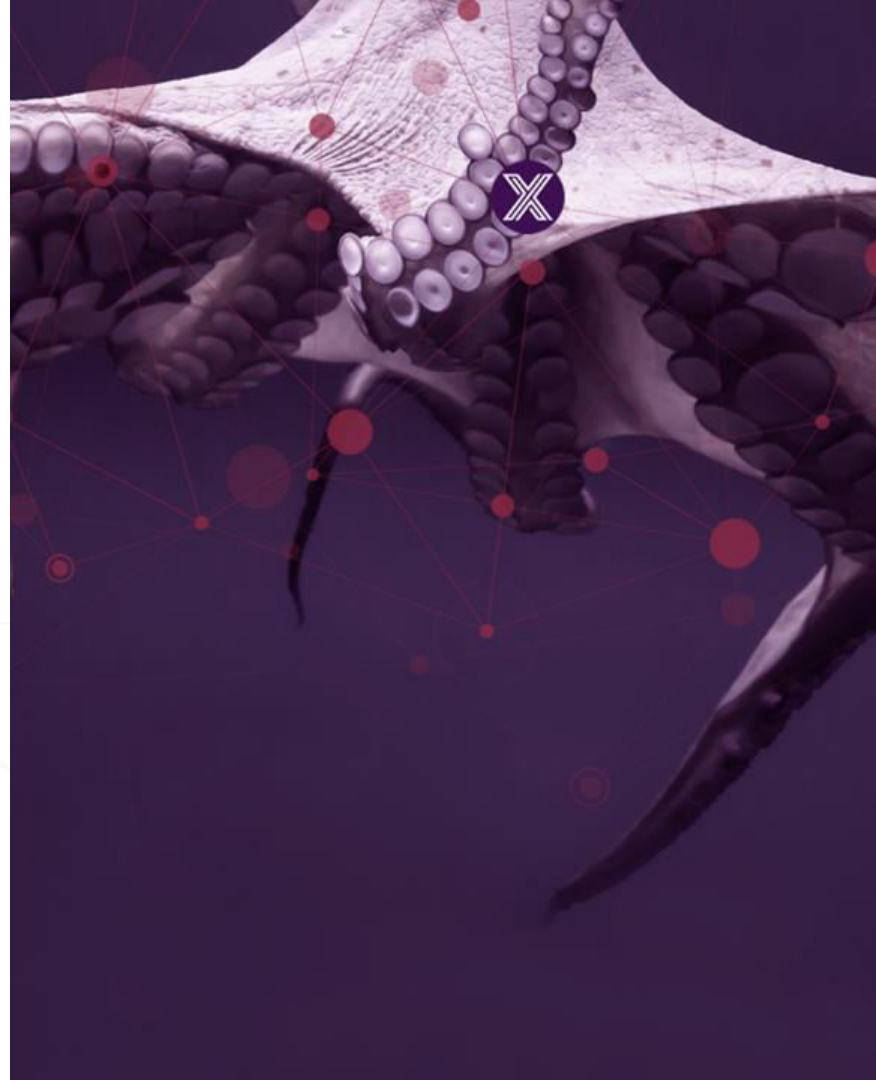
Jan 8, 2021

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Meeting Logistics

Time: 3pm – 4pm (China Standard Time) CST first Friday monthly

Dial-In Info: Join Zoom Meeting: https://zoom.us/j/392518710

Dial by your location:

+86 10 87833177 China	+1 669 900 6833 US (San Jose)
+86 10 53876330 China	+1 646 558 8656 US (New York)
400 669 9381 China Toll-free	877 369 0926 US Toll-free
400 182 3168 China Toll-free	855 880 1246 US Toll-free
400 616 8835 China Toll-free	

Meeting ID: 392 518 710

Find your local number: https://zoom.us/u/abscayLpz

*China Project calls are recorded and added to Wiki post-call

China Project – Core Team Members/Representatives Present Today

Company	Name	Email
VMware	Gavin Lu	gguanglu@vmware.com
Intel	Melvin Sun	melvin.sun@intel.com
Thundersoft	Xiaojing Xu	
WayClouds		
EMQ	Rocky Jin	rocky@emqx.io
IoTech	Joey Fan	hans@iotechsys.com
Jiangxing AI	Danyang Song	songdanyang@jiangxing.ai

Note: Quorum for China Project 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. Decisions by vote at a meeting require a majority vote of those in attendance, provided quorum is met. Current quorum = 5 members

Today's Agenda

- Core team updates
- Industry sub-teams updates
- Upcoming Events

Core team update

Maintainers

Maintainer Update (Gavin)

- China Project wiki
  - https://wiki.edgexfoundry.org/display/FA/China+Project
- Official Wechat
  - ID: EdgeXFoundryCN, Chinese: "EdgeXFoundry社区"
- TSC Monthly Meeting for China
  - Start from Feb
  - Survey on format & style…
- EdgeX Foundry China Day 2020
  - hosted on Dec 22/23
  - https://mp.weixin.qq.com/s/cwKnMCVywrZNIWszTesOxA

EdgeX Foundry China Day 2020 – key numbers

10,000+

Touch Points

1000+

Pageviews (WeChat)

5400

Social Broadcast Views-
Livestreaming Platform

7,680

Social Broadcast Views-
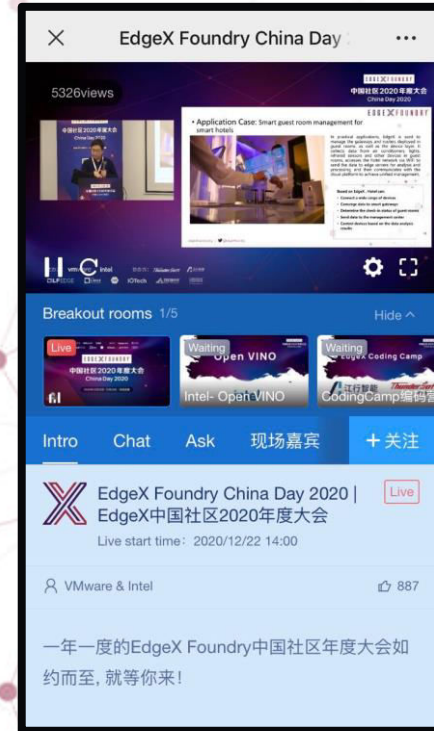CSDN Media Platform

55

Offline Attendees

200

New Followers

edgexfoundry.org | @edgexfoundry

Screen Shot of Live Streaming Platform

Pictures

Pictures

TSC monthly meeting proposal for China

Melvin and Gavin,

I hope you both got some time off during the last week or so for the new year. I know the Chinese new year is still a few weeks away, but that you were able to get some well deserved rest time during the last few weeks.

I'd like to start organizing a regular monthly EdgeX TSC meeting to be held monthly at a China friendly time and in Chinese. I have started to work the EdgeX TSC community and I believe I have their support. I'd like to get your input and thoughts and your support if this makes sense.

My premise for the once a month meetings is to:
A) have one or two TSC members join the call each month and provide an update in their area of concern (next release items, current roadmap, and issues/concerns they are facing).
B) provide a state of the EdgeX project (that would come from me and be about a 10-15 minute quick update on the status of the current release overall and provide information on latest initiatives outside the code (like web site refreshes, integration work with other projects, etc.)
C) allow time for your community there in China to provide any updates to the TSC that they feel would be good for us to pass to the rest of the community. This could include new features being worked on, success stories and use cases, requests for new features, highlight particularly painful bugs, etc.
D. have the call in the morning China time - sometime between 9am-11am China time

If you are supportive of this idea, some questions:

- Is there an existing EdgeX meeting that you all conduct that this could or should be a part of?
- If the TSC members on my side were able to provide a few slides a week before the actual meeting, would there be someone that could help translate these for the Chinese audience prior to the meeting?
- Would there be enough bi-lingual people on the call to help translate our conversations back and forth from Chinese to English?
- When should we start? I see that the Chinese new year is from Feb 11-17th. I was thinking we use the next month to organize and then start our first meeting sometime after the new year holiday??

Regards,
Jim White
CTO, IOTech

Maintainer Update (Melvin)

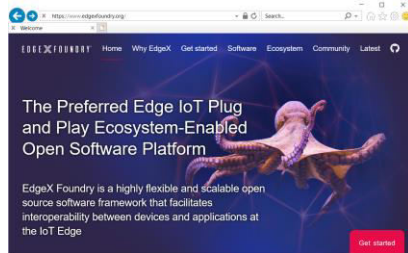- ## UX/DX improvement program

Q1　　　　　　**Q2**　　　　　　　　　　　　　　　　**2H**
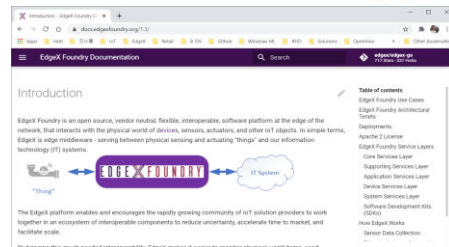
Onboarding the system

Enrich content: document, Use cases, tools & resources provision, cross community collaborations, etc.

Match making, EdgeX ISV program, Project development & Deployment,

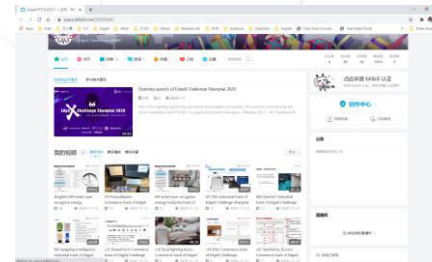✓ EdgeX Foundry Chinese homepage, Chinese Document website.

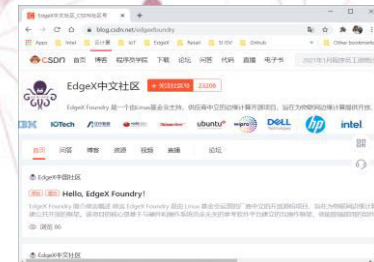✓ EdgeX Foundry China community landing page on CSDN & OSChina, to exchange use cases, BKMs, how-to video, etc.

✓ EdgeX Foundry China community video sharing & live streaming applications

https://cn.edgexfoundry.org/
(to be finalized)

https://cn-docs.edgexfoundry.org/
(to be finalized)

Contributor Update – Rules Engine (EMQ)
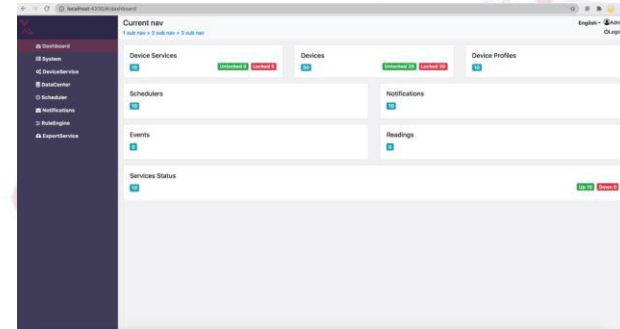
- Kuiper 1.1.0 was released at 6, Jan

Features

- Binary data type support
  - Based on the binary data supported in last release, now Kuiper supports 2 image process functions.
  - Support streams & rules update in kubernetes-tools

- SQL plan optimization:
  - Enhance PushDownPredicate for join on condition, if the condition is related to one source only for inner join, it will be executed earlier.
  - Add ColumnPruning rule, all unused columns or metas will be dropped in preprocessor to reduce memory usage

- Refactor shared-subcription configuration for MQTT source.

- Fixed several document issues

Roadmap

- Kuiper 1.1.1 is to be released at the end of Jan

Contributor Update – UI & K8S (VMware)

- ## UI prototype for roadmap ahead
  - current framework: device creation wizard & data visualization
  - new framework on Angular v2 & Golang backend: adapt to v2 API

- ## K8S
  - Crawl phase: provide a YAML file with all micro services included in multiple pods, published at:

    https://github.com/edgexfoundry/edgex-examples/tree/master/deployment/kubernetes
  - next step: support security mode

Contributor Update – Qualcomm Robotics RB3 Platform(SDA845) Support(Thundersoft)

All the resources of this project was updated on https://github.com/edgexfoundry-holding/edge-device-support

The purpose of this project is to connect a robot based on ROS2 nodes to EdgeX.

The large combination of ROS and EdgeX will provide (including, but not limited to) the following scenarios:
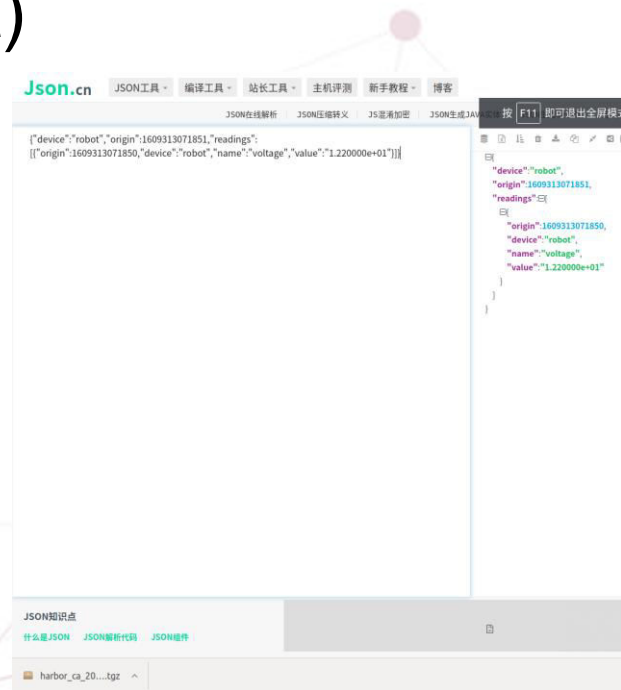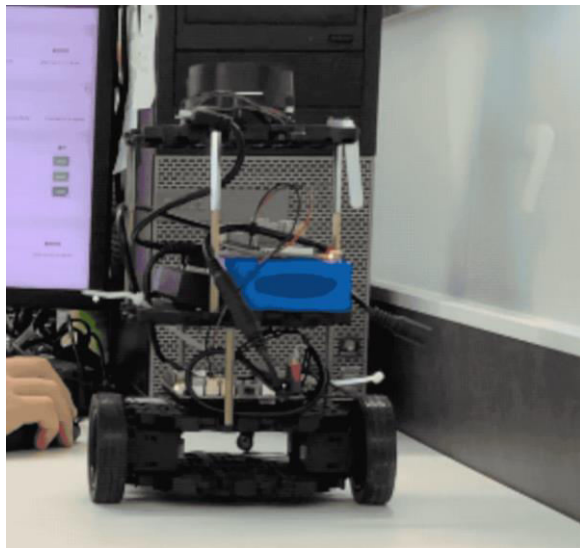
- Build Edge Side robot clusters and a unified robot management platform (Cloud).
- Collect and save useful data from robots (Data).
- Provide more technicians for the robot field with universal tools combined with Edge.
- Combine the decision mechanism of local decision-making of robots and cloud decision-making through edge computing.
- Provide more algorithms and arithmetic support for robot data through edge computing resources (Supporting —— Function as Service).

Contributor Update – Qualcomm Robotics RB3 Platform(SDA845) Support(Thundersoft)
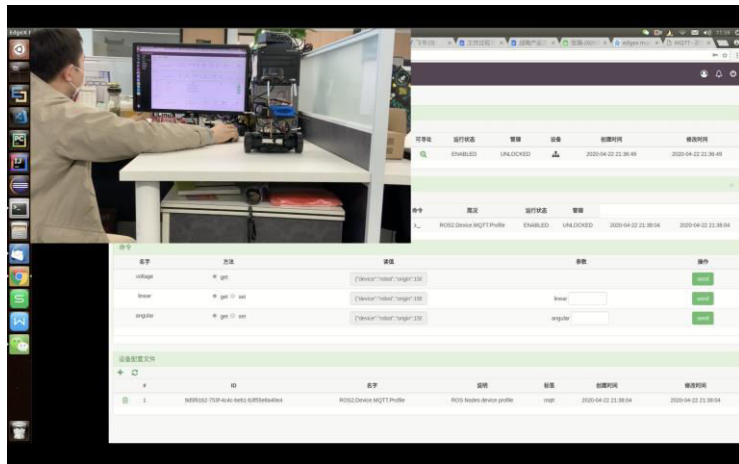

This program is aim to achieve:

- Collecting robot speed, battery, location and other information through EdgeX.

- Controlling the speed of the robot through EdgeX.

Contributor Update – Qualcomm Robotics RB3 Platform(SDA845) Support(Thundersoft)

We provide the following items for other developers.

- Device docker image
- Robot application docker image
- Detailed and specific operational steps in both Chinese and English
- Demonstration video of the system functions.

Tutorial for Using RB3

中文

🔗**Step1**

Deploy and start EdgeX on PC.

Step2

Deploy and start the program Device on Rb3.

Step3

Deploy and start control programs on Rb3.

Step4

Check whether the system is running successfully.

🔗**Rb3安装教程**

English

第一步
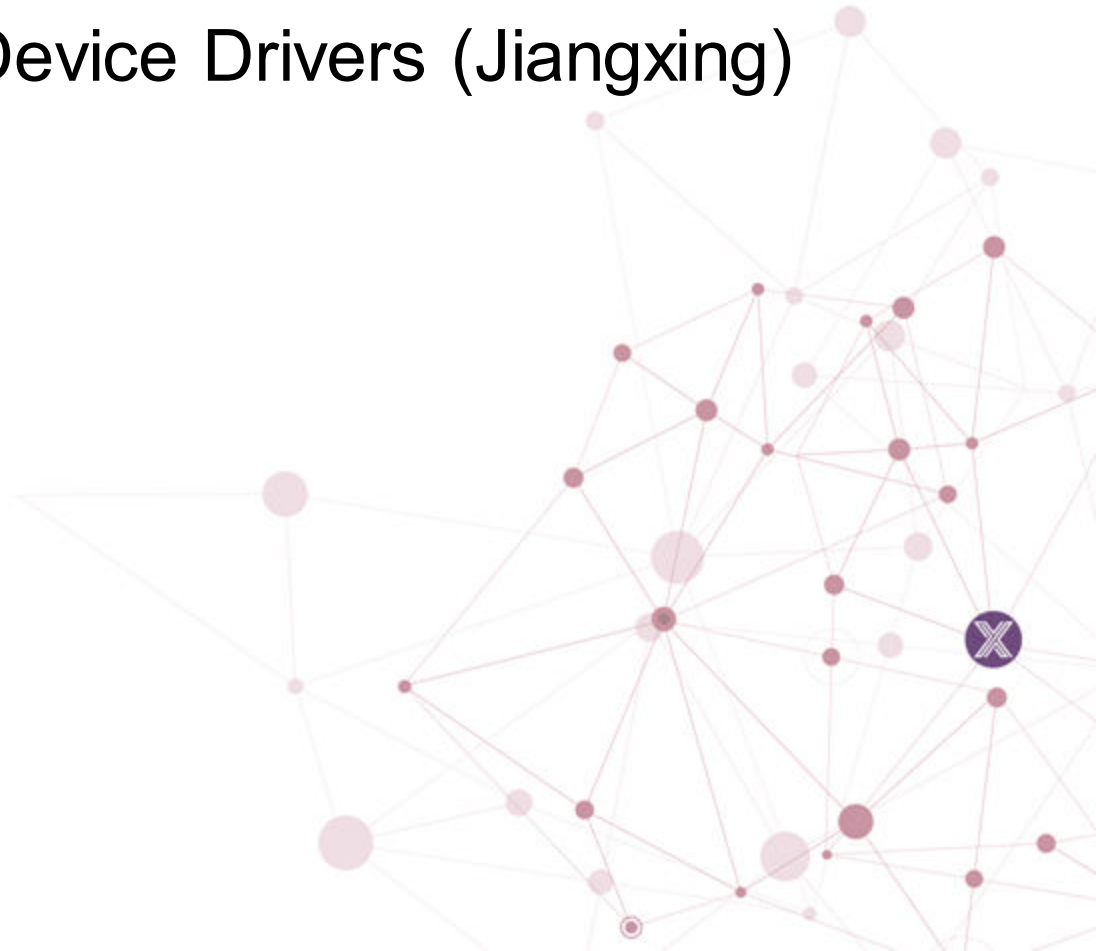
在pc端部署并启动EdgeX

第二步

在Rb3上部署并启动程序device

第三步

在Rb3上部署并启动控制程序

第四步

整体检验系统是否成功运行

Contributor Update – Device Drivers (Jiangxing)
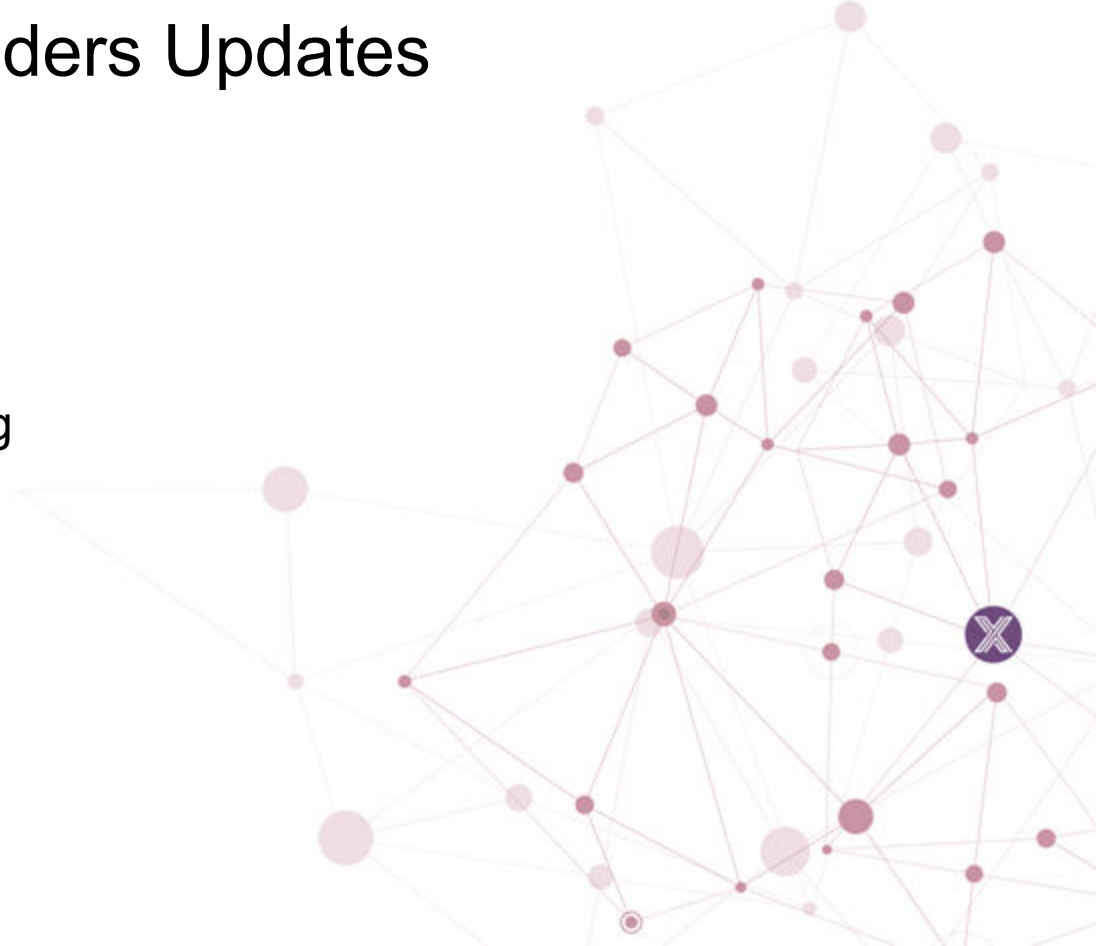
Industry Sub-team Updates

Team Leaders

Industry Sub-team Leaders Updates

- Retails
  - Intel: Melvin Sun
- Manufacturing
  - Thundersoft: Shuo Zhang
- Energy
  - WayClouds: Qiang Fu
- Cities/Campus
  - Intel: Melvin Sun
- Transportation

Upcoming Events

Upcoming Events

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Thank You!