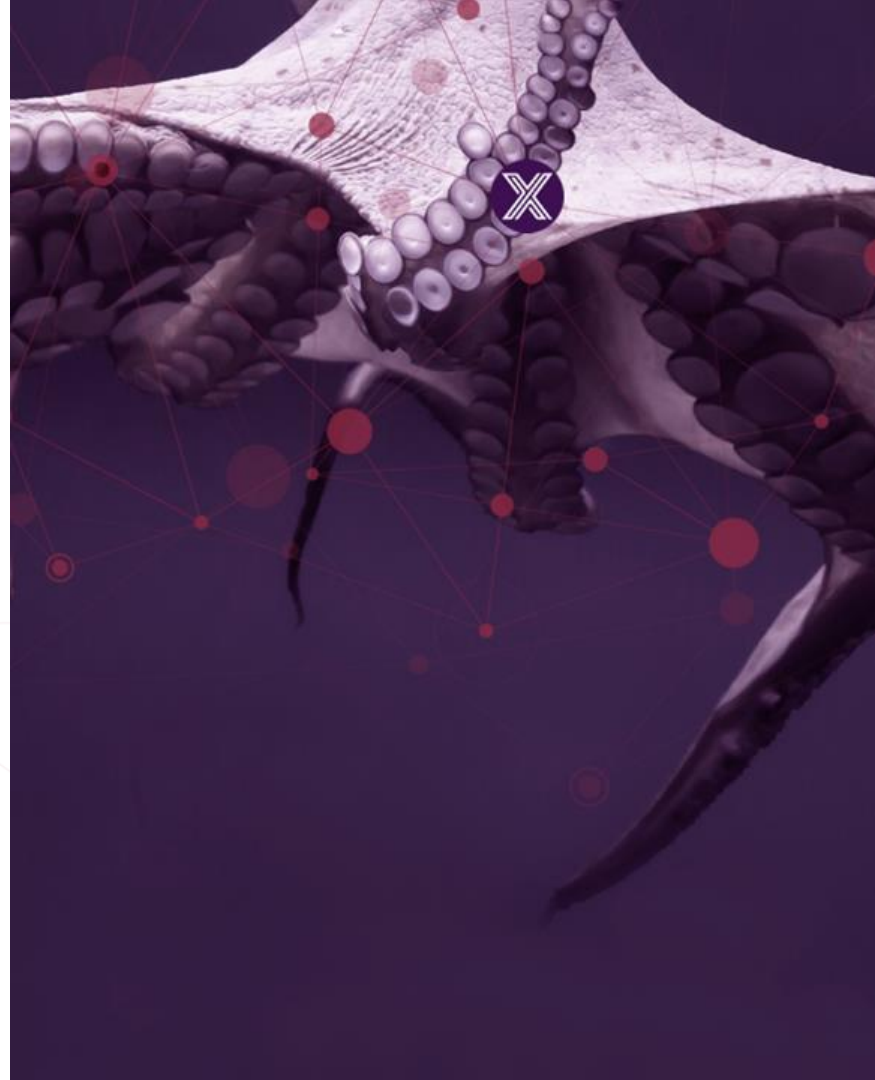




# China Project Meeting

<https://wiki.edgexfoundry.org/display/FA/China+Project>

May 8, 2020



# LF Antitrust Policy Notice

EdgeX Foundry meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

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.

# 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

+86 10 53876330 China

400 669 9381 China Toll-free

400 182 3168 China 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

+1 669 900 6833 US (San Jose)

+1 646 558 8656 US (New York)

877 369 0926 US Toll-free

855 880 1246 US Toll-free

# China Project – Core Team Members/Representatives Present Today

Company	Name	Email
VMware	Gavin Lu	<a href="mailto:gguanglu@vmware.com">gguanglu@vmware.com</a>
Intel	Melvin Sun	<a href="mailto:melvin.sun@intel.com">melvin.sun@intel.com</a>
Thundersoft	Shuo Zhang	<a href="mailto:gavin.zhang@thundersoft.com">gavin.zhang@thundersoft.com</a>
	Pengcheng Zou	<a href="mailto:zoupc@thundersoft.com">zoupc@thundersoft.com</a>
	Shouyong Liu	
WayClouds	Qiang Fu	<a href="mailto:fuqiang@wayclouds.com">fuqiang@wayclouds.com</a>
CertusNet	Liyuan Zhang	<a href="mailto:zhangly@certusnet.com.cn">zhangly@certusnet.com.cn</a>
EMQ	Rocky Jin	<a href="mailto:rocky@emqx.io">rocky@emqx.io</a>
IoTech	Hans Chen	<a href="mailto:hans@iotechsys.com">hans@iotechsys.com</a>
	Joey Fan	
QuarkData	Xiao Shen	<a href="mailto:shenxiao@quarkdata.cn">shenxiao@quarkdata.cn</a>

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





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Core team update

Maintainers

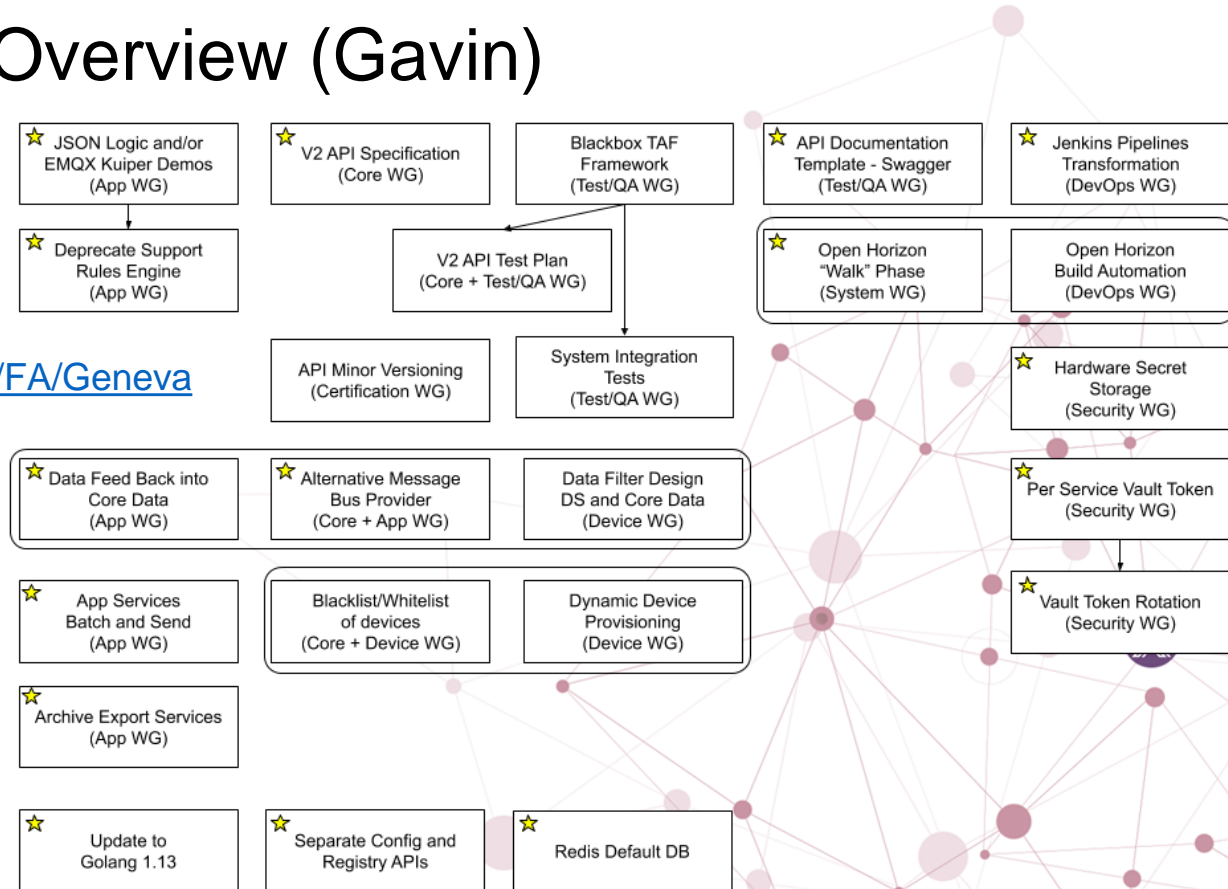
# Maintainer Update (Gavin)

- China Project wiki
  - <https://wiki.edgexfoundry.org/display/FA/China+Project>
- Training webinar
  - Wrapped up
- Quarterly meetup
  - Held on Apr 24, 2-6PM
  - Intel, VMware, IoTech, EMQ, Thundersoft, H3C, JD delivered tech talks
- Official Wechat
  - ID: EdgeXFoundryCN, Chinese: “EdgeXFoundry社区”
- External facing collaboration
  - Proposal of a joint lab dropped due to legal concern

# Geneva Release Overview (Gavin)

Code Freeze: Apr 22  
Release: May 13

<https://wiki.edgexfoundry.org/display/FA/Geneva>



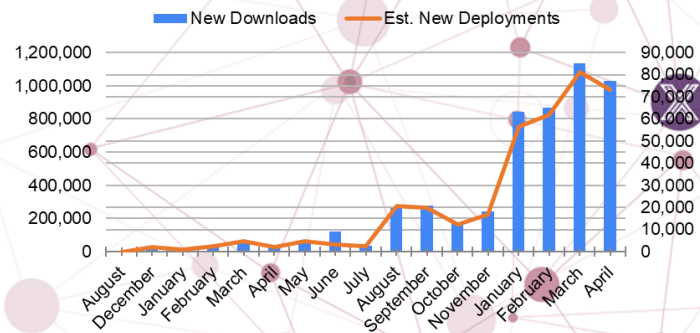
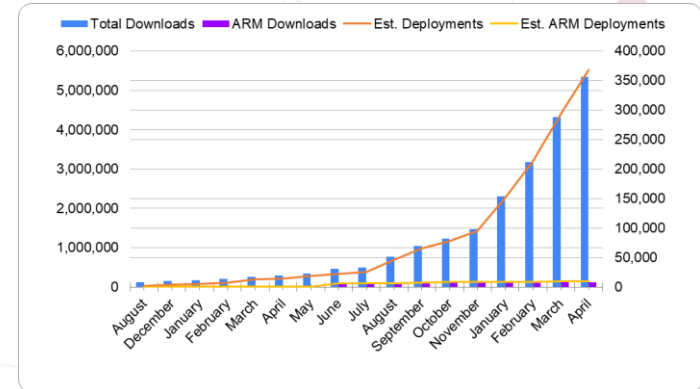


# Hanoi Release Planning (Gavin)

- Release date
  - Fall 2020 (Oct – Nov), likely v1.3 minor release
- Major themes (tentative)
  - Improved micro service APIs (more transport agnostic/data decoupled)
  - Device service to application service message bus
  - Core data (and persistence) becomes optional
  - Improve support for running device services on different hosts
    - Secure service to service communications
  - Data filter at device service
  - Performance guidance
  - Interoperability testing
  - Hardware root of trust abstraction
- Planning online conference
  - April 27 – May 1
  - Record: <https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=37912800>

# Maintainer Update (Melvin) – Statistics of EdgeX

- Total Downloads: **5.3 million**
  - 24% growth since last reported in Mar 2020 (36% last month)
- Estimated Deployments: 366K
- Estimated New Downloads: 1.03M
- Estimated New Deployments: 73K

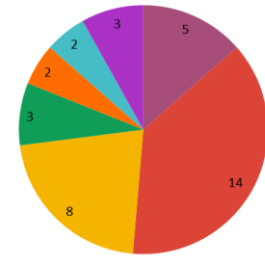


# Maintainer Update (Melvin) – Statistics of EdgeX

- 25 active repositories in April
- 37 Contributors (1 more than Mar)
- 7 new authors (4 more than Mar)
- 229 commits in Apr (level not seen since 2019)
- 24873 LoC added in April

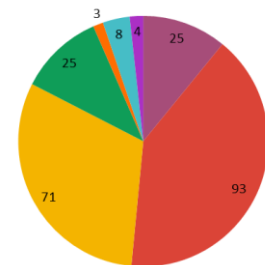
### Authors by Company

■ Dell ■ Intel ■ IoTech ■ VMWare ■ Canonical ■ Redis ■ Unknown



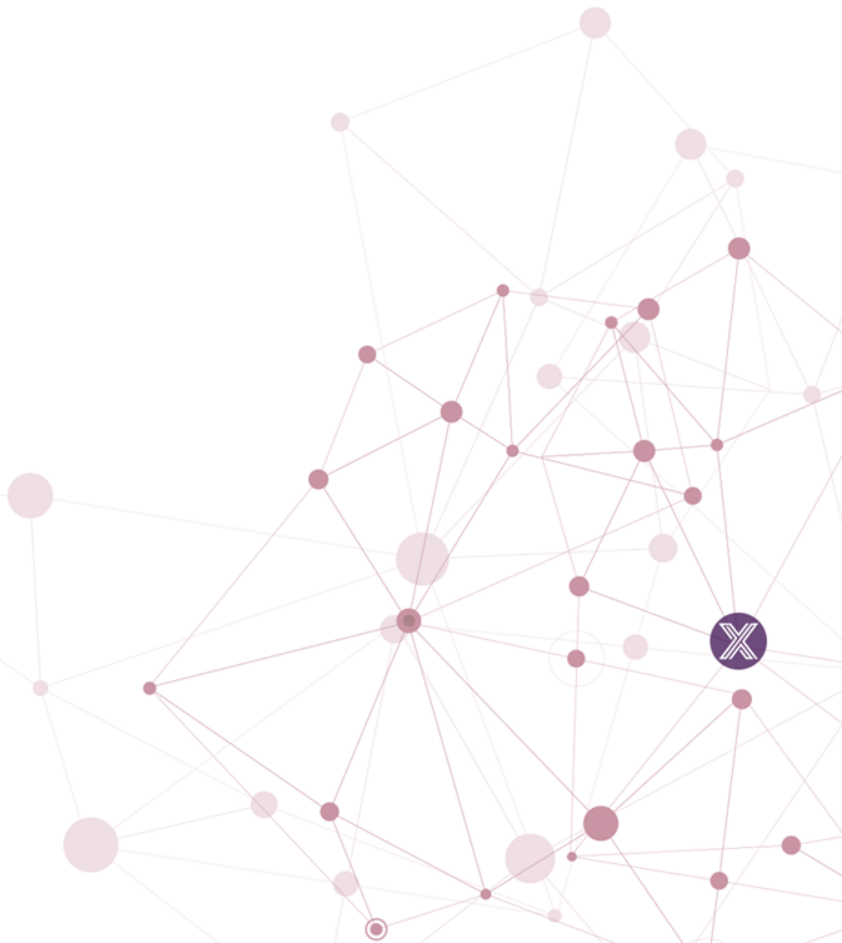
### Commits by Company

■ Dell ■ Intel ■ IoTech ■ VMWare ■ Canonical ■ Redis ■ Unknown



# Rule Engine (Rocky)

- More documents:
  - Rule engine & command service
- Hanoi release
  - Rule engine UI (Gavin)
  - Array type support
  - Adapt to new value descriptor design
  - Other requests from community



# Hanoi plan & exploration (Gavin)

- GUI
  - Kuiper integration
  - Secret management
- K8S
  - Helm Chart
    - <https://github.com/edgexfoundry-holding/edgex-kubernetes-support>
  - YAML
  - Operators (used by Open Horizon)

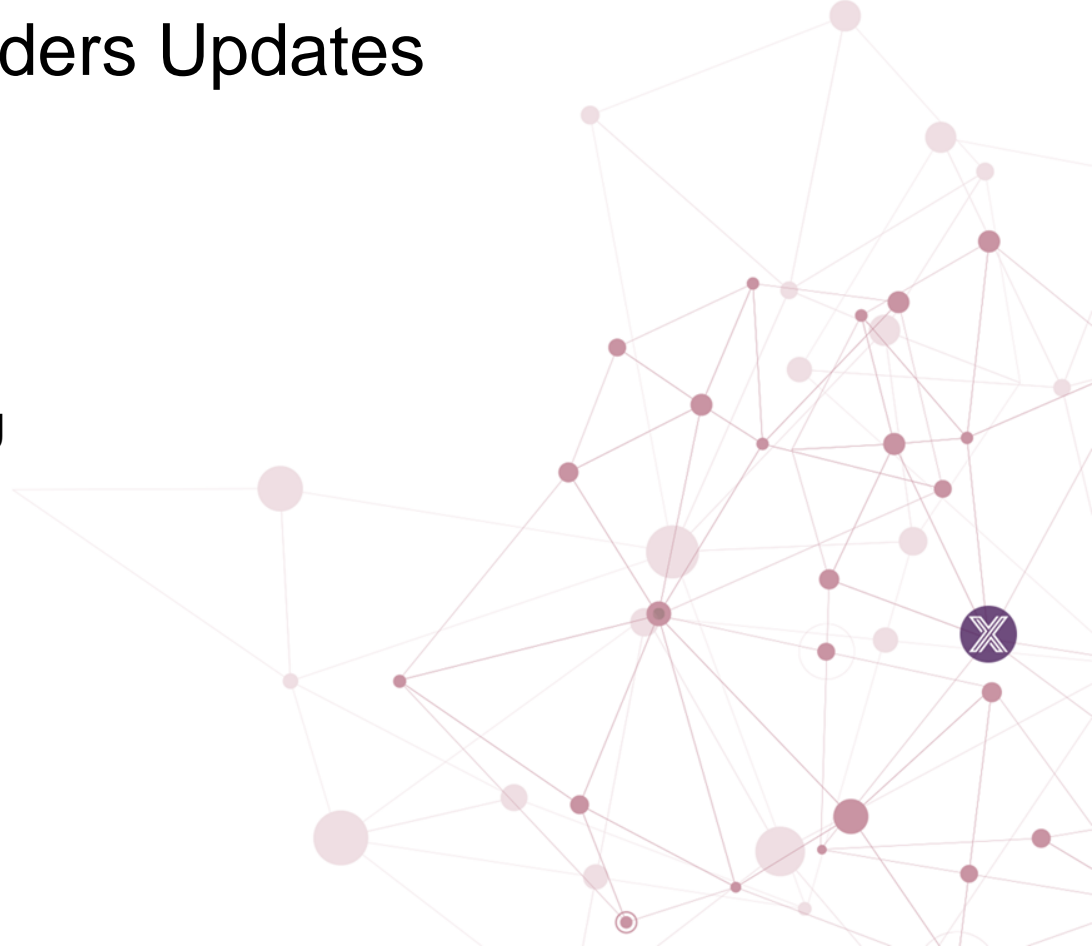


# Industry Sub-team Updates

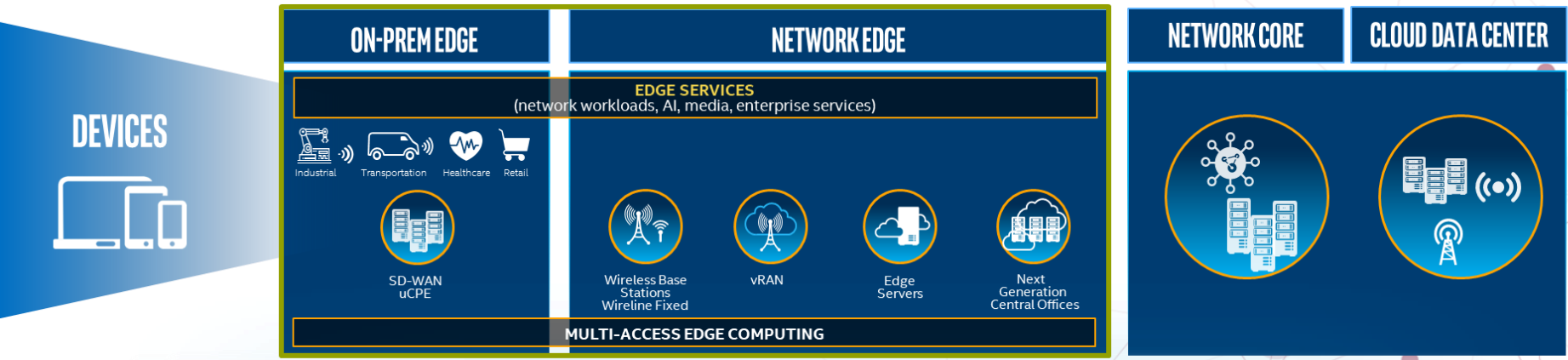
Team Leaders

# Industry Sub-team Leaders Updates

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



# [Retail, Banking, Hospitality & Education] sub-team leader update: Multi-access Edge Computing



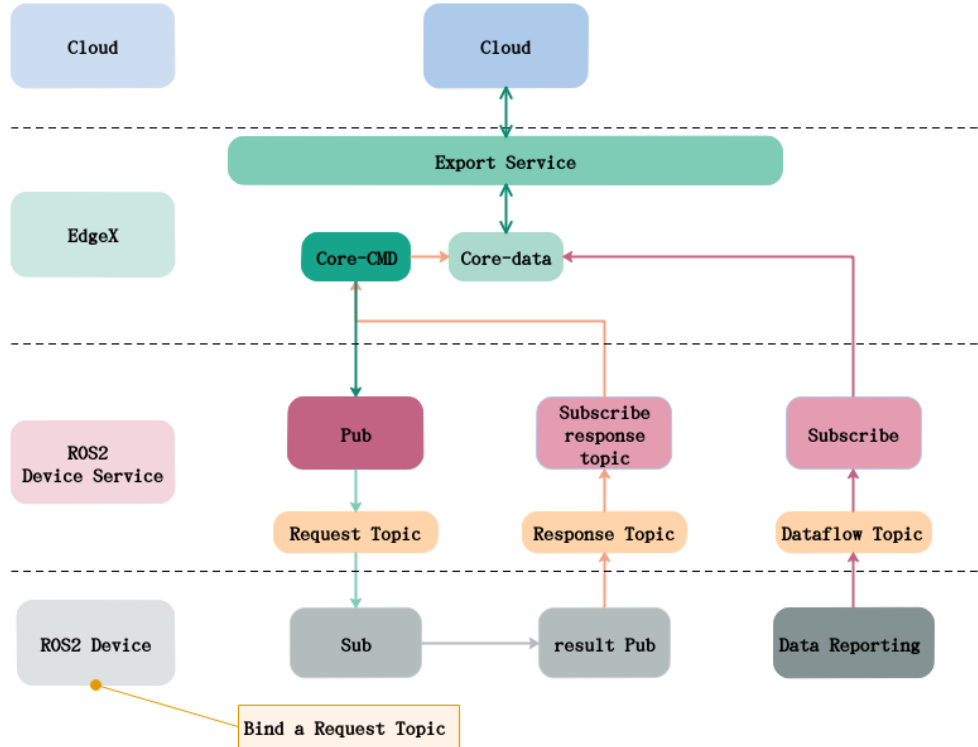
Latency expectation **Varies <1 ms**    **<5 ms**    **<10-40 ms**    **< 60 ms**    **~100 ms**

- ✔ Comply with data locality
- ✔ Reduce application latency
- ✔ Meet reliability requirements
- ✔ Deliver rich user experiences
- ✔ Optimize TCO
- ✔ Improve service capabilities

Edge Computing: Placement Of Data Center-Grade Network, Compute and Storage Closer to the Endpoint Devices



# [Manufacturing] sub-team leader update: (Shuo Zhang)

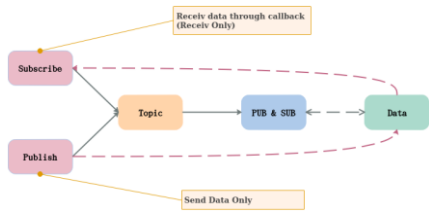


## Milestone

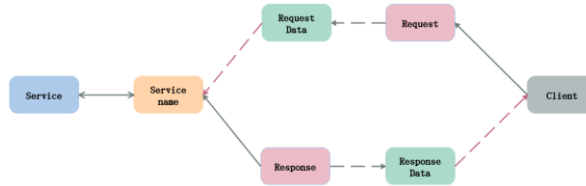
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	Month	Apr		May		June		July		Aug		Sep		Oct		
2	Schedule	step1	step2			step4			step6					step9		
3		step3			step5			step7			step8					
4				step10				step11			step12					
5	step1	对EdgeX ROS2 Device Service 总体方案设计														
6	step2	EdgeX ROS2 Device Service使用Topic与ROS节点通讯的方案制定与验证														
7	step3	EdgeX ROS2 Device Service使用Topic与ROS节点通讯的实现与测试														
8	step4	EdgeX ROS2 Device Service使用Service与ROS节点通讯的方案制定与验证														
9	step5	EdgeX ROS2 Device Service使用Service与ROS节点通讯的实现与测试														
10	step6	EdgeX ROS2 Device Service使用Action与ROS节点通讯的方案制定与验证														
11	step7	EdgeX ROS2 Device Service使用Action与ROS节点通讯的实现与测试														
12	step8	总体功能验证和维护														
13	step9	Release														
14	step10	EdgeX ROS2 Device Service使用Topic与ROS节点通讯的场景Demo														
15	step11	EdgeX ROS2 Device Service使用Service与ROS节点通讯的场景Demo														
16	step12	EdgeX ROS2 Device Service使用Action与ROS节点通讯的场景Demo														

# [Manufacturing] sub-team leader update: (Shuo Zhang)

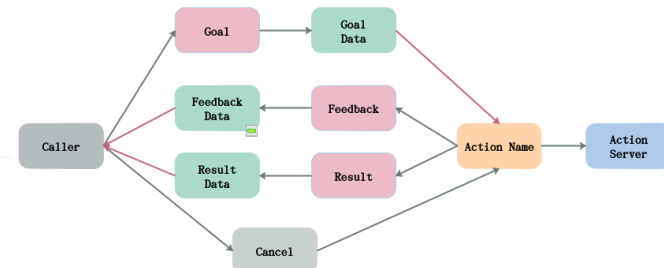
## Sub/Pub



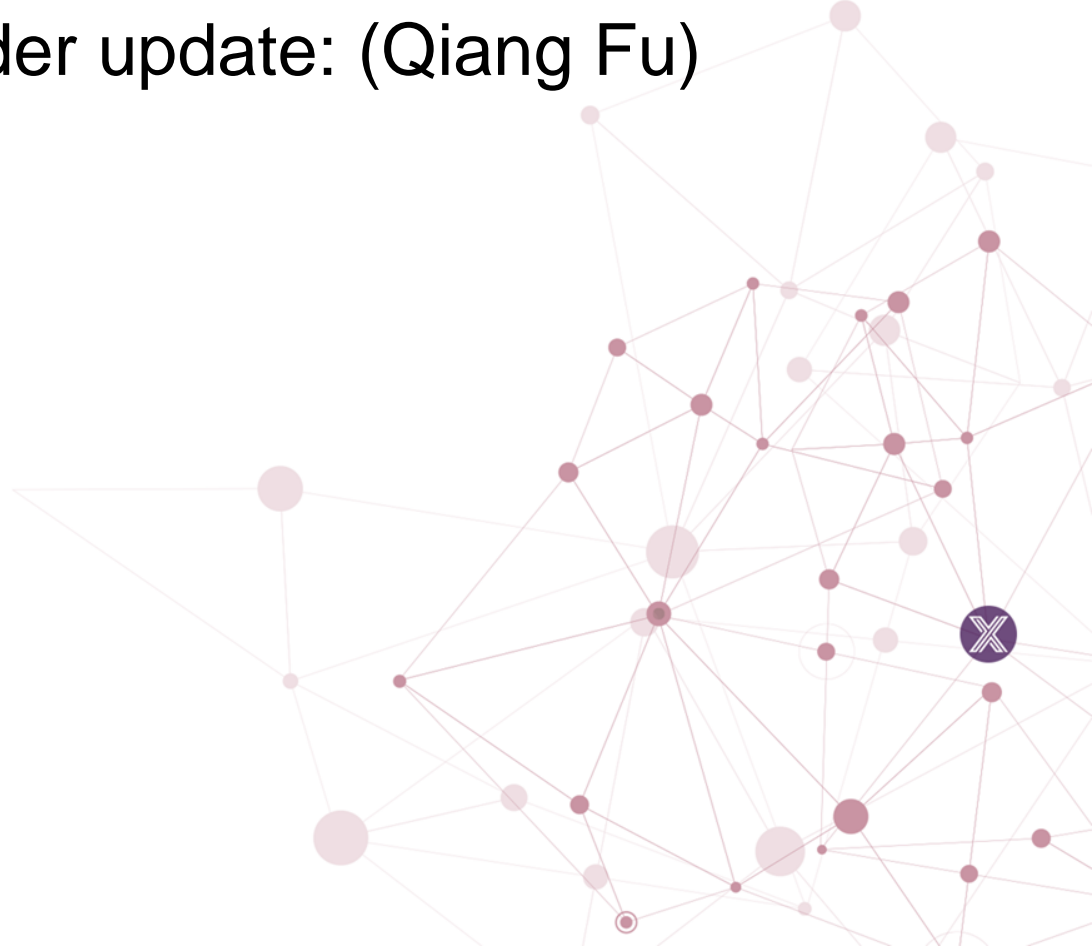
## Service



## Action



# [Energy] sub-team leader update: (Qiang Fu)





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## Upcoming Events



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Thank You!