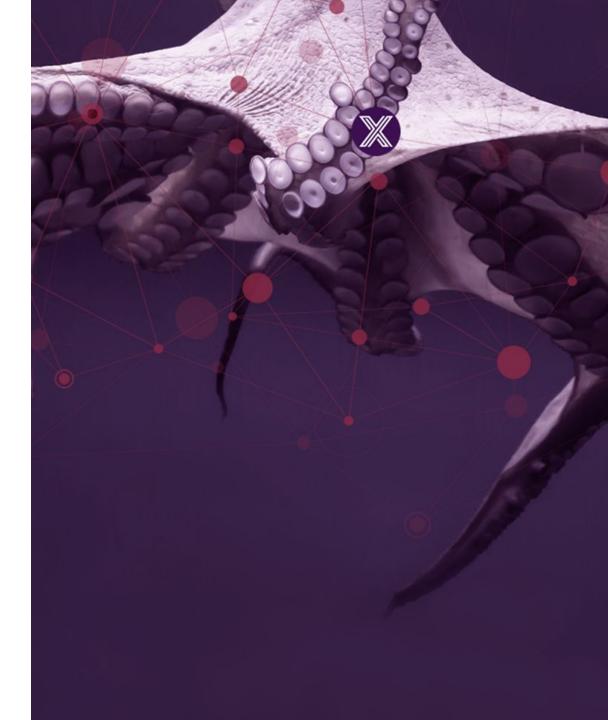
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TSC Meeting

Jun 10, 2020

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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.

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Meeting Logistics

Time: Wednesdays 8am PDT – 9am PDT

Join from PC, Mac, Linux, iOS or Android: <u>https://zoom.us/j/983155298</u> 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



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TSC – Members Present Today

<u>Company</u>	<u>Name</u>	<u>Email</u>
Intel	Camilo Dennis	camilo.a.dennis@intel.com
IOTech	lain Anderson	iain@iotechsys.com
Intel	James Gregg	james.r.gregg@intel.com
IBM	Joe Pearson	joe.pearson@us.ibm.com
IOTech	Keith Steele (TSC Chair)	keith@iotechsys.com
VMware	Malini Bhandaru	mbhandaru@vmware.com
Intel	Mike Johanson	michael.johanson@intel.com
IOTech	Robin Chattergee	robin@iotechsys.com
Beechwoods	Rodney Hess	rodney@beechwoods.com
RSA	Tingyu Zeng	tingyu.zeng@rsa.com
Canonical	Tony Espy	espy@canonical.com
Dell	Trevor Conn	Trevor.Conn@dell.com
Dell	Michael Estrin	m.estrin@dell.com

Current quorum = 7 members

Note: Quorum for TSC 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. Except as provided in Section 7.c. and 8.a, decisions by vote at a meeting require a majority vote of those in attendance, provided quorum is met. Decisions made by electronic vote without a meeting require a majority vote of all voting members of the TSC.

Today's Agenda

- Dot release details
- WG Updates
- Glossary / Landscape project of LF Edge (Molly Wojcik)
- APJ ?'s/feedback/updates
- TSC Elections info and status
- Upcoming Events (Dev Advocate)

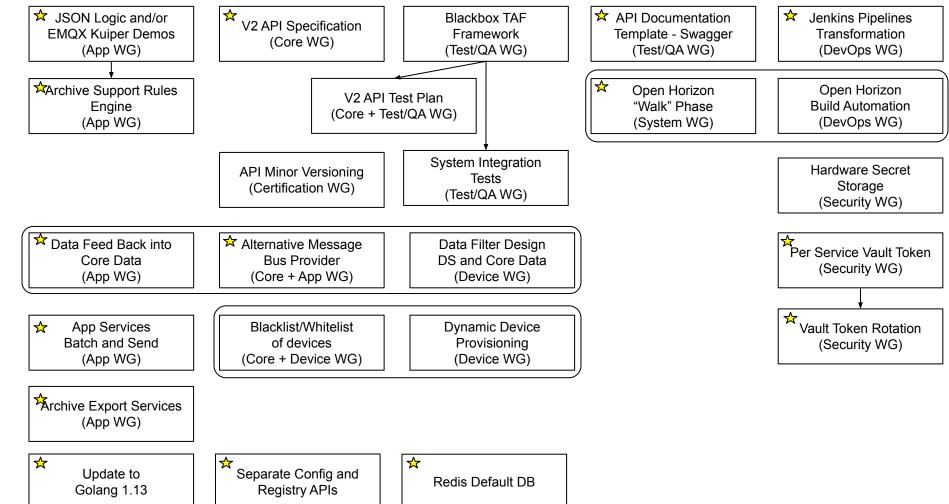
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Geneva Release & Release Czar readout



EdgeX Geneva Release Overview



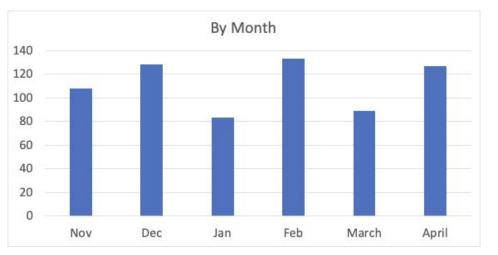
Release Overview

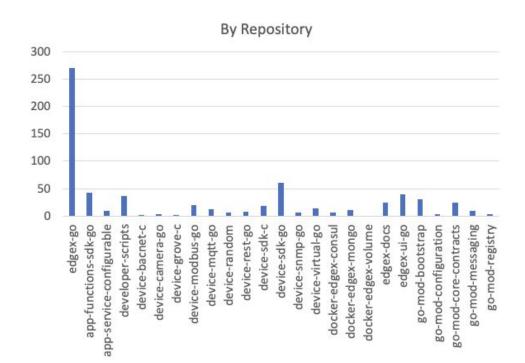
Release Artifact Status

• Docker Images are staged in Nexus for release

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• Snap channels are created for Geneva





Closed Issues - 668 Overall

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Geneva Dot 1.2.1 Release

- Mini freeze to master on most repositories until we get the freeze out on Friday
- Coding done by Wednesday
- Check for issues on Thursday as well as tag 1.2.1
- Release on Friday
- Update compose files shortly after

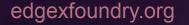
1.2.1 Release contents

- Fix in device-sdk-go to address issue #532 (critical CPU consumption issue based on inappropriate interval)
 - This will also require all Go based device services to be released with the fix as well.
- Small one line bug fixes to device-mqtt-go and device-modbus-go to address env override for profile dir(issues #149 and #152 respectively)
- Changes in edgex-ui-go to address gateway / security issues (addressing short term fixesfor some of #222, #223, #224, #225 and #226 in edgex-ui-go)
- Changes to scheduler service (as part of edgex-go) to eliminate bug on removal of interval (#2554 and associated to issue #2520 and PR #2552)
- Changes to support-rulesengine for remote logging URL (#74)
- Changes to go-mod-bootstrap to address issue #76 empty vars being ignored especially as it relates to webserver host name & Consul callback issue
 - This will also require artifact creation for all core/supporting services, device services, and app services that consume go-mod-bootstrap
- There are a few identified Snap changes
- There is a change to the app functions SDK and therefore associated configurable app service (inclusive of issue #376)
- C SDK 1.2.1 is already tagged at 1.2.1 edgexfoundry.org

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Work Group Updates

Chairs





Working Group Chair Updates

- Around the horn
 - Core/Supporting Trevor Conn
 - Applications Mike Johanson
 - Device Services Iain Anderson
 - Test/QA Robin Chatterjee
 - DevOps James Gregg
 - Security Malini Bhandaru and Tingyu Zeng
 - System Management Michael Estrin
 - Open Horizon Joe Pearson
 - Certification Rodney Hess
 - Vertical Solutions Camilo Dennis and Henry Lau
 - Updates from Release Czar Lisa
 - Updates from Dev Advocate Aaron

Core Working Group (10-Jun-2020)

- No report today. Trevor on vacation
- Core WG call @ 10AM US/Central tomorrow cancelled



Applications WG Update (10-Jun-2020)

Complete:

- Filter Out Device Transform
- Azure Resource Management Templates (For Endorsement)
- Documentation update for Pipeline Config for ASC

WIP:

• Bug fix for message formatting in logs

App Working Group Meeting held on Fridays @ 9AM PDT
 Next meeting June 12th, 2020

Application Services

Functions (built into SDK) Current/Complete:

- AES Encryption
- GZIP Compression
- ZLIB Compression
- MarkAsPushed
- PushToCore
- Device Name Filter
- Value Descriptor Filter
- Batch

NEW!

- JSONLogic Filtering
- XML Conversion
- JSON Conversion
- MQTT(S) Export
- HTTP(S) POST Export

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Features

NEW!

NEW!

- Store and Forward
- Web Server
- Configurable App Service
- Vault Integration for Secrets
 - MQTT Event triggers (via go-mod-messaging)

Reference/Example App Services (Geneva) (built on top of SDK)

- Azure IoT Hub
- Amazon IoT Core
- IBM Watson IoT
- Cloud Event Transformation
- Secret Retrieval Example



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Device Services WG Update (10-Jun-20)

- C SDK tagged at 1.2.1
 - Updated Grove device service in progress
- Go SDK needs to consume newer go-mod-bootstrap
 - Go device services release depend on edgex-go issue #2580
- -holding repository created for RFID/LLRP device service

Next WG meeting June 15th

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Device Services - current/coming (as of 5/7/20)

Open Source connectors (Current):

- Modbus (TCP/RTU) in Go
- Virtual Device in Go
- SNMP in Go
- MQTT in Go

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- BACnet (IP & MSTP) in Go
- ONVIF Cameras in Go
- REST in Go (NEW!)

Open Source connectors (Future):

- Bluetooth in C (summer 2020)
- BACnet (IP & MSTP) in C (summer 2020)

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- OPC-UA in C (summer 2020)
- Grove C (summer 2020)

Commercial connectors (Current):

- File Exporter in C
- BLE in C
- Zigbee in C
- GPS in C
- CAN in C
- MEMS in C
- EtherCat in C
- Profinet in C

Commercial connectors (Future):

- EtherNet/IP in C (summer 2020)
- CanOpen in C (summer 2020)
- OPC-UA Pub/Sub in C (summer 2020)
- ONVIF in C (summer 2020)

There are additional commercial MQTT (Go), Modbus (Go), OPC-UA (in C) and BACnet (in C) that have added features over the community editions

Test/QA WG Update (06-10-2020)

- Blackbox Test
 - \circ Working issues
 - Refactor scripts to pull and deploy using new multi-file compose files <u>PR#459</u> (Approved and verified on sandbox)
 - Remove Mongo from Jenkins pipeline <u>ci-management#611</u>
- TAF
 - Working issues
 - Issue <u>#122</u>, to update to use new multi-file compose file.
 - Docker daemon permission denied on x86_64 VM, opened Jenkins ticket to LF IT-19912
 - Fixed issues
 - Issue <u>#27</u>, to remove Mongo test.
- New Business
 - Create Device SDK and App SDK API document page on edgex-doc <u>PR#157</u> (Merged)
 - Up the version number of Swagger files in edgex-go <u>PR#2562</u>, and upload v1.2 onto SwaggerHub.(Merged)
 - Set the SwaggerHub automatically upload as a public document <u>ci-management#609</u> (Merged)

Postman Blackbox Test Cases

OS		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	x86_64 / CentOS Non Security	Mongo	1312	0	0	0
		Redis	1312	0	0	0
x86_64 / CentOS	86_64 / CentOS Security	Mongo	1342	0	0	0
		Redis	1342	0	0	0
arm64 / Ubuntu	/ Ubuntu Non Security	Mongo	1312	0	0	0
		Redis	1312	0	0	0
arm64 / Ubuntu Security	Security	Mongo	1342	0	0	0
		Redis	1342	0	0	0



TAF Functional Blackbox Test Cases

OS		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	Non Security	Redis	52	0	52	0
x86_64 / CentOS	Security	Redis	52	0	52	0
arm64 / Ubuntu	Non Security	Redis	52	0	0	0
arm64 / Ubuntu	Security	Redis	52	0	0	0

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TAF Integration Test Cases

Integration tests

OS		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	Non Security	Redis	6	0	0	0
x86_64 / CentOS	Security	Redis	6	0	0	0
arm64 / Ubuntu	Non Security	Redis	6	0	0	0
arm64 / Ubuntu	Security	Redis	6	0	0	0

Compatibility tests

OS		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	Non Security	Redis	12	12	0	12
x86_64 / CentOS	Security	Redis	12	0	0	0
arm64 / Ubuntu	Non Security	Redis	12	0	0	0
arm64 / Ubuntu	Security	Redis	12	0	0	0



DevOps WG Update (06-10-2020)

Hanoi

Performance Optimizations

- Build Optimizations for edgex-go
 - Image promotion ٠
 - Improvements to support same type of optimizations for all other pipelines (edgeXBuildGoApp and edgeXBuildDocker) WIP
- Planning next sprint grooming backlog user stories to align to the same process we used in Geneva phases of work

DevSecOps

- Continued explore of options for addressing Issue #1947 vetting of OSS dependencies
 - Now looking at FOSSA since it's something being used by other LF projects (CNCF)
- Community Bridge Feature Requests
 - Transitive dependencies for Go modules findings don't match other tools like Sonatype No Update

Other

githubsync - GitHub Automation to create labels used across all EdgeX Foundry repos

New feature with the refactor (Python) the full sync takes $\sim 5m$ to complete compared to $\sim 2h17m$ before; half of that 5m is from building the python container.

Self Service Committers •

- Aric Gardner presented self-service committers as an option to move from the need to submit JIRA tickets for managing permissions on repos.
- Code Signing Iftools /sigul replacement
- LFTools / Sigul latest version that supports Python 3.x
 - LF is now considering an alternative signing tool
 - LF encountered some of the challenges within their fork trying to refactor sigul to support the latest Python 3.x

Next DevOps WG Meeting 06/11/2020 @9:00AM PST

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System Management WG Update (June 10, 2020)

- No report today.
- Next meeting: Friday, June 19th @ 10AM CST



Security WG Update (06-10-2020)

- Hanoi release working items in progress/review
- SIR team update No major issues found
- Security WG meeting
 - Stop security scanning on docker-edgex-volume
 - Keep security scanning on docker-edgex-mongo for dot release/security fix
 - Move discussion of 3rd party vetting process to future architecture meeting

Certification WG Update (6-8-20)

- Michael Johanson's presentation and demonstration of an Azure-based template for an EdgeX instance
- Discussion with Lisa about what's needed in an AWS-based template
- Next meeting is Monday, June 15th, 9 a.m. PDT

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Vertical Solutions WG Update (June 10, 2020)

- Recent meetings: Use cases, and opportunities for EdgeX community
 - 5/12 <u>Conexxus</u>: Convenience stores technology standards and use cases
 - 5/26 <u>Appcard</u>: Customer Engagement solutions ISV, use cases for grocery stores and QSRs
 - 6/9 <u>RF Rain</u>: RFID ODM, use cases across various verticals
- Last 2 meetings with 30+ attendees
- Next meeting: June 23rd, 2020, Tuesday 10am PST



Marketing update (6/10/20)

- Continue to drive Website project with El Roboto (3rd party)
 - Folder with key documents milestones and information at the Marketing WG wiki <u>https://wiki.edgexfoundry.org/display/FA/Marketing+WG</u>
- Geneva landing page created (Thank you Andy!)
- Topcoder Challenge
 - Working to secure SME(s) for second topcoder challenge
- Pulse with meeting participants. Start, Stop, Continue for Marketing meeting.

Miscellaneous (Jim)

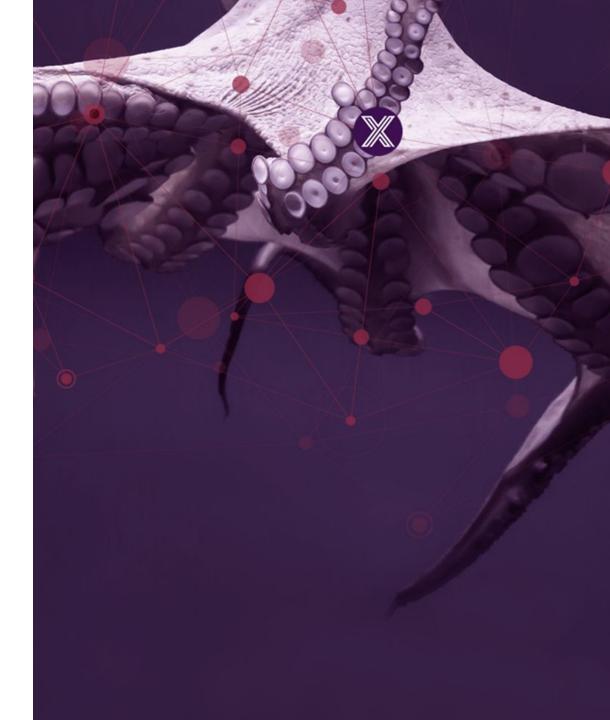
- We are holding a survey to get feedback from the community and beyond with regard to our command line interface tool (CLI).
 - Please take a couple of minutes to fill it out when you receive the link
 - o <u>https://www.surveymonkey.com/r/QWKHZZZ</u>
 - o <u>https://bit.ly/EdgeXCLI</u>
- Monthly Architect's meeting next monday June 15, 12noon CDT
- PM discussion
- Outreach discussions

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LF Edge Glossary Project

Molly Wojcik & Matt Trifiro

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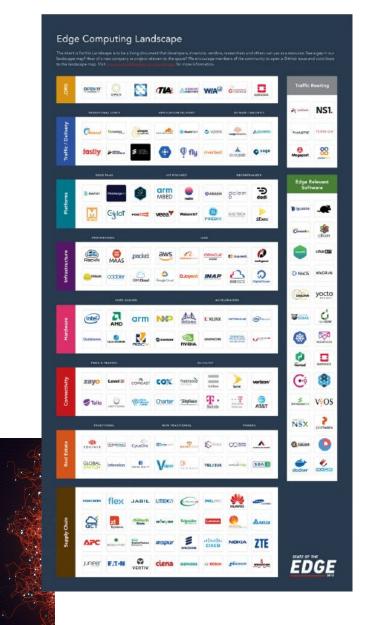
LF Edge Interactive Landsc

How to ensure that your org/tech is properly represented

State of the Edge Project

Vendor-neutral platform for open research on edge computing that is dedicated to accelerating innovation by crowdsourcing a shared vocabulary for edge.

- Founded in 2017
- Recently transitioned under the umbrella of LF Edge
- Assets:
 - State of the Edge reports
 - Open glossary of Edge Computing
 - Edge Computing Landscape



EDGE

CNCF Cloud Native Interactive Landscape Landscape

The Cloud Native Trail Map (png, pdf) is CNCF's recommended path through the cloud native landscape (png, pdf), serverless landscape (png, pdf), and member landscape (png, pdf) are dynamically generated below. Please open a pull request to correct any issues. Greyed logos are not open source. Last Updated: 2020-06-04 Reset Filters 16:19:48Z

You are viewing 1,407 cards with a total of 2,269,396 stars, market cap of \$16.5T and funding of \$66.13B.

Serverless

Members

· · · ·	Landscape	Card Mode

Grouping N/A

Sort By N/A

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Category	Landscape Card Mode Serveriess	members				120%
N/A	Database	App Streaming & Messaging	plication Definition & Image Continuous Integration & Delive Build	ry Platform	Observability and Analysis	1
Any License Any Organization Any Headquarters Location Any Example filters: Cards by age Open source landscape				Summa Certified Kubernetes - Distribution Summa Anno Summ		
Member cards Cards by stars Cards from China Certified K8/KCSP/KTP Cards by MCap/Funding Download as CSV	Scheduling & Coordination & Service Discovery Substration Substrat	Remote Procedure Call SGRPC CKC Weaking DECK Ware Deck W		20/5 22	Synak Immedia	
August 17 - 20	Cloud Native Storage	Container Ru Container Ru Container Ru Container Ru Container Registry			Image: Part of the constant of	
					Members	

Helping navigate the expansive edge ecosystem

LF EDGE Landscape Reset Filters Grouping N/A Sort By

N/A

N/A

Any

Any

Any

Any

License

Organization

Cards by stars

O NTT

Carlisu

Category

LF Edge Interactive Landscape The LF Edge landscape (png, pdf) is dynamically generated from a community-supported Github account. It is modeled after the CNCF landscape and based on the same open source code If you would like to contribute, please open a pull request with projects in the edge ecosystem. Please note all images submitted must be true SVG files, include a URL to the company's site, and a Crunchbase link. Please open a pull request to correct any issues. Greyed logos are not open source. Last Updated: 2020-06-02 15:33:222 You are viewing 166 cards with a total of 93,710 stars, market cap of \$7.51T and funding of \$5.11B. -Landscape Card Mode **Communication Service** Traffic Routing .ORG **CDN & Distributed Caches** Edge PaaS IoT Focused Decentralized LF Edge Relation ~ 0 0./ Name of olef O Creke * FLEOGE X NUTCIDIANON PROVIDENT .BAETYL NS1. ViOS DEZ HIN A sector 0 C. -Martin stoowny BURAI ÷ Headquarters Location IAAS Security Networking Monitoring Provisioning Virtualization Physical Other Example filters: LF EDGE The intent is for the Landscape Open source cards by age 回給回 0 <u>Å</u> dacher aws to be a living document that distin Lones indscape \$--Apache-2.0 landscape (Intel) 17.2 developers, investors, vendors, EVE HOME Imperia Cards in categories as a resource on the landscape 回診 NSX KubeCee 0 and the second ? Q -HISPES ---of edge computing. I.Ifedge.org Group by location NE-DA • sage or faile at Cards by MCap/Funding ZTE MAAS ----------..... Download as CSV Municipal Accelerators (GPU / FPGA STATE OF THE Core Silicon (CPU / PLC) Edge OEMs Wireless Wireline Traditional Towers Right of Way Services / System Integrators EDGE 2020 6 Ø 1000 ----verteen' THE SHARE Ver cale.nu 19. eriales, EM DIA. EXLAN sayo ai erc NO Premier General Associate Liaison EMO 1 ulin AECC arm - 3 million altran AT&T FUITSU Charto DIANOMIC EQUINIX ERICSSON ETES K. ter trave IBM intel Juniper 0 NETSIA NOKIA Y HUAWEI TESR/

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https://landscape.lfedge.org/

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Taxonomy

- .Org: Standards and collaboration groups involved in facilitating discussion by edge stakeholders of edge.
- *Traffic Routing*: DNS and software/projects to monitor and route traffic to the correct place.
- **Platforms:** Platforms focused on deploying, managing, and scaling custom-workloads at the edge (CDN & Distributed Caches, Application Delivery Network (ADN), Edge PaaS, IoT Focused, Decentralized)
- **Security:** Applications and projects focused primarily on security.
- **Networking:** Software or solutions that control the movement of packets (e.g. SD-WAN, NFV, NOS)
- **Infrastructure:** Infrastructure as a Service tools, vendors, and platforms for edge compute (Monitoring, Provisioning, Virtualization, Physical).
- *Hardware*: Physical gear, including assembled components (Core Silicon, Accelerators).
- *Edge OEMs*: Original Equipment Manufacturers (OEM) building key components critical for the edge ecosystem.
- *Wireless & Wireline*: Physical network infrastructure, protocols, & tooling focused and used at the edge (Fiber & Peering, Wireless).
- **Real Estate / Land / Data Centers:** Companies focused on building, maintaining, and operating data centers and related critical infrastructure for the edge (Tradition, Non-Traditional, Towers & Related, Municipal Right of Way)
- Services / System Integrators: Services for people integrating and deploying at the edge.
- Other Edge Related Software: Software projects /platforms common, but not specific to any of the other categories.
- *LF Edge Member Companies*: Member companies of LF Edge.

How to add a new listing / edit an existing entry

Github repo:

https://github.com/State-of-the-Edge/lfedge-landscape

- Open a PR or issue (with edits to the landscape.yml)
- Required inputs:
 - Name of organization or technology
 - Homepage url
 - .svg logo *Important: Only <u>.svg format logos</u> are accepted
 - Twitter url
 - Crunchbase url
 - Assigned category (Descriptions for categories can be found in the <u>README.md</u>)

Alternate option: Email the required inputs to glossary-wg-landscape@lists.lfedge.org

landscape:
- category:
name: .ORG
subcategories:
- subcategory:
name: .ORG
items:
- item:
name: Cloud Native Computing Foundation
homepage_url: 'https://www.cncf.io/'
logo: 'https://github.com/cncf/artwork/blob/master/other/cncf/stacked/color/cncf-stacked-color.svg'
twitter: 'https://twitter.com/cloudnativefdn'
crunchbase: 'https://www.crunchbase.com/organization/cloud-native-computing-foundation'

How to get involved

- Make sure your listing is up to date
- Join the email list: https://lists.lfedge.org/g/glossary-wg-landscape
- Join the bi-weekly calls: https://lists.lfedge.org/g/glossary-wg-landscape/calendar



Molly Wojcik Chair of State of the Edge Landscape Working Group

molly@section.io



Matt Trifiro Co-Founder & Chair of State of the Edge

matt@vapor.io

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EdgeX Elections



Election Schedule (approved by TSC)

- Collection of voter registries (now to June 12)
- Nominations for any chair or TSC at-large positions (now to June 12)
- Chair and at-large elections (week of Jun 15-19)
 - We will have an election for at-large seats as we have 3 nominees and 2 seats
- TSC Chair election (week of Jun 25-29)

Chairs - please provide changes/additions on voter list by EOD June 12th (Friday)

Changes to date: addition of Rocky Jin as contributor

Election Schedule (approved by TSC)

- Current Nominations (now to June 12)
 - DevOps: Ernesto Ojeda (Intel)
 - Application/Analytics: Mike Johanson (Intel)
 - Outreach: Keith Steele (IOTech)
 - TestingQA: James Butcher (IOTech)
 - Device Services: Iain Anderson (IOTech)
 - Security: Colin Hutchinson (Kong)
 - Core: Jim White (IOTech)
 - At Large: Lenny Goodell (Intel), Tony Espy (Canonical), Sean McGinnis (Dell Technologies)
- Volunteer positions (non-TSC voting)
 - Release Czar: Lisa Ranjibar
 - PM: Lenny Goodell

Open Roles

• User Advocate

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Thank you APJ!!



APJ Opens

Questions that the community can answer?

Initiatives you'd like to let us know about?

How can EdgeX do more in APJ?

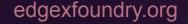
How can we better support your efforts?



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Upcoming Events & Dev Advocate Update

Aaron's updates





Upcoming External Events

Additional LF Edge events available at: <u>https://www.lfedge.org/events/</u>

- "On the Edge with LF Edge" Webinars
 - > Project EVE Webinar (May 29 at 9 am PDT):
 - > Register for the webinar!
 - https://zoom.us/webinar/register/8815888722994/WN_35oZJ3hrQE69snMaiJUTPg
- > Open Source Summit North America: 29 June 2 July, 2020 Virtual
 - > 90 minute session(s) July 2 at 12-1:30pm CST
- > <u>IIOT World</u>: 30 June 1 July, 2020 Virtual
 - > Arpit Joshipura: "Uniting the Edge for Tomorrow's Demands."
 - > Jim White: "Using Open Source Technology to Manage IoT/Edge Solutions."
- > Open Source Summit Japan: 15-16 September, 2020 Tokyo, Japan
 - CFP Open: <u>https://events.linuxfoundation.org/open-source-summit-japan/program/cfp/</u>

Upcoming External Events

Additional LF Edge events available at: <u>https://www.lfedge.org/events/</u>

- > Open Networking & Edge Summit North America: 28-29 September, 2020 Los Angeles, CA
 - ONES Unconference Track- Virtual
- > Open Source Summit Europe: 26-28 October, 2020 Dublin, Ireland-
 - > CFP Open: <u>https://events.linuxfoundation.org/open-source-summit-europe/program/cfp/</u>
- > IoT Solutions World Congress: MOVED 11-13 May, 2021 Barcelona, Spain
 - > Call for Testbeds Open: <u>https://www.iotsworldcongress.com/activities/testbeds/</u>
- > Open Networking & Edge Summit Europe: TBD Q4, 2020 Antwerp, Belgium- Cancelled
 - > CFP Open: <u>https://events.linuxfoundation.org/open-networking-edge-summit-europe/program/cfp/</u>
- > Discussions around upcoming events occur in the LF Edge Outreach Committee
- > Members may subscribe at: <u>https://lists.lfedge.org/g/outreach-committee</u>

Upcoming Project Events

> none

 Projects can add their events to this list by sending the Wiki page listing the information to info@lfedge.org

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Thank You

