

# Meeting of the Technical Steering Committee of the Akraino Edge Stack Project

August 30, 2018



# Antitrust Policy Statement

- Meetings of the Akraino Edge Stack Project involve participation by industry competitors, and it is the intention of the Project 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 U.S. state, federal or foreign antitrust and competition laws. Examples of types of actions that are prohibited at Akraino Edge Stack Project meetings and in connection with Akraino Edge Stack Project activities are described in the The Linux Foundation Antitrust Policy. If you have questions about these matters, please contact your company counsel or Andrew Updegrove, of the firm of Gesmer Updegrove LLP, which provides legal counsel to The Linux Foundation.
- Linux Foundation Antitrust Policy:  
<https://www.linuxfoundation.org/antitrust-policy>.

# Agenda

- Roll Call – 5 Minutes
- Developer Summit – update – 10 Mins
- TSC Charter document baseline – 15 Mins
- Blueprint & Project Lifecycle document baseline – 15 Mins
- Community calls – 5 Mins
- Workgroups – 5 Mins
- Open discussions – 5 Mins

# TSC Voting Member Director: Roll Call

Member Company	Voting Member Name	Contact info
Arm	Tina Tsou	<a href="mailto:tina.tsou@arm.com">tina.tsou@arm.com</a>
AT&T	Kandan Kathirvel	<a href="mailto:kk0563@att.com">kk0563@att.com</a>
Dell	Tim Epkes	<a href="mailto:Tim_epkes@Dell.com">Tim_epkes@Dell.com</a>
Ericsson	Torbjörn Keisu	<a href="mailto:torbjorn.keisu@ericsson.com">torbjorn.keisu@ericsson.com</a>
Huawei	Wenjing Chu	<a href="mailto:Wenjing.Chu@huawei.com">Wenjing.Chu@huawei.com</a>
Intel	Jenny Koerv	<a href="mailto:jenny.koerv@intel.com">jenny.koerv@intel.com</a>
Inwinstack	Thor Chin	<a href="mailto:thor.c@inwinstack.com">thor.c@inwinstack.com</a>
Juniper	Sukhdev Kapur	<a href="mailto:sukhdev@juniper.net">sukhdev@juniper.net</a>
Nokia	Tapio Tallgren	<a href="mailto:tapio.tallgren@nokia.com">tapio.tallgren@nokia.com</a>
NTT	Takeshi Kawahara	<a href="mailto:kuwahara.takeshi@lab.ntt.co.jp">kuwahara.takeshi@lab.ntt.co.jp</a>
Qualcomm	Jasmin Ajanovic	<a href="mailto:jasmin@qti.qualcomm.com">jasmin@qti.qualcomm.com</a>
Radisys	Prakash Siva	<a href="mailto:psiva@radisys.com">psiva@radisys.com</a>
Red Hat	Frank Zdarsky	<a href="mailto:fzdarsky@redhat.com">fzdarsky@redhat.com</a>
WindRiver	Jim Einarsson	<a href="mailto:jim.einarsson@windriver.com">jim.einarsson@windriver.com</a>

# Developer Summit - Update



## Participation

- 100+ participants, from 54 Companies
- Participation from Telcos, Enterprise and vendors/suppliers
- Speakers from adjacent communities – ONAP, OPNFV, Airship, OpenStack, ODL, FD.IO, Starlingx, Tungsten Fabric
- Multiple breakout sessions covering Blueprint, Orchestration, VNF, Edge APIs, Edge Networking, Testing Frameworks, etc.

Thank you to sponsors and speakers



# Developer Summit – Media coverage

## Light Reading

### AT&T Boosts Akraino With Code, Summit



NEWS ANALYSIS  
CAROL WILSON,  
Editor-at-Large  
8/23/2018

COMMENT (0)

Developers for the new Akraino Edge Stack open source project are hard at work today and tomorrow at a developers' summit hosted by AT&T in New Jersey, on the heels of that operator's release of seed code Wednesday for a key blueprint for telco-based edge computing.

Akraino Edge Stack as a project within the Linux Foundation formally moved into execution earlier this week, solidifying the governing structure and scope of the project and launching technical committee work as well, according to Arpit Joshipura, general manager, Networking and Orchestration for the foundation. While initial membership includes AT&T Inc. (NYSE: T) and 12 vendors, he says other network operators are engaged in the technical work for the project, which is creating an open source software stack to support edge clouds. (See [Unknown Document 745505](#) and [AT&T Sharpens Edge With New Open Source Effort, Test Lab Launch](#).)

"The scope of Akraino is around two macro level use-cases, the operator's own edge -- and that edge is on websites with physical access, so at the customer premise, where latencies less than five milliseconds are important -- and at the traditional edge, which is really base stations and central offices and things like that where up to 20 milliseconds of latency is tolerated," Joshipura says in an interview.

The Akraino community is developing the middleware, software development kits and applications programming interfaces, as well as blueprints to address multiple use cases for each of the macro levels, he adds. One such blueprint is for a Central Office-based, telco-hosted edge compute stack based on OpenStack, and that's the blueprint for which AT&T released seed code on Wednesday, he adds.

"By [today], it will be available to everybody to download and use, and that's good progress," Joshipura says. "We've taken the summer to make sure that code transition is smooth. The second blueprint is the same concept that moves a little bit toward the remote sites. It's a much lighter stack. And then there is the non-telco or non-telecom blueprint that could be with disaggregated hardware or really lightweight, low-latency stacks."

<https://www.lightreading.com/the-edge/atandt-boosts-akraino-with-code-summit/d/d-id/745587>

## IoT Evolution

### FOG COMPUTING FEATURE NEWS

### Edging Closer to Enterprise IoT, Akraino Stack Announces Execution Phase

By Cynthia S. Artin / August 22, 2018

It is hard to imagine a more active open source, non-profit foundation doing more in the last twelve months than Linux has, with the world's largest companies jumping in to "open source everything" which would have been unimaginable a few years ago when many vendors, especially, resisted any initiatives that might threaten their business models. A combination of forceful mandates from companies like AT&T and Verizon in the US (establishing policies to only go forward with partners who supported their network virtualization strategies, for example) are making it impossible for "walled garden" offerings to win.

Yesterday, Linux announced their Akraino Edge Stack project, creating an open source software stack that supports high-availability cloud services optimized for edge computing systems and applications, moved from formation into execution.

"Since forming earlier this year, the Akraino Edge Stack project has generated strong industry support and is now well-positioned to create blueprints optimized for various edge use cases," said Arpit Joshipura, general manager, Networking and Orchestration, The Linux Foundation. "We are pleased to welcome leading members with a broad swath of edge expertise and resources to collaborate on improving the state of open source edge software."

<https://www.iotevolutionworld.com/fog/articles/439219-edging-closer-enterprise-iot-akraino-stack-announces-execution.htm>

## Marketwatch.com

PRESS RELEASE

### Akraino Edge Stack Moves into Execution with Project Governance Formation and Ecosystem Growth

Published: Aug 20, 2018 12:00 p.m. ET



Aa

Under The Linux Foundation, new open source project at the edge gathers momentum to support broad range of Telco, Enterprise, and Industrial IoT use cases

SAN FRANCISCO, Aug. 20, 2018 /PRNewswire/ -- The **Akraino Edge Stack**, a Linux Foundation project creating an open source software stack that supports high-availability cloud services optimized for edge computing systems and applications, today announced it has moved from formation into execution. The project welcomes members Arm, AT&T, Dell EMC, Ericsson, Huawei, Intel Corporation, inwinSTACK, Juniper Networks, Nokia, Qualcomm, Radisys, Red Hat, and Wind River as it solidifies its governing structure and begins technical documentation.

The Akraino Edge Stack is designed to improve the state of edge cloud infrastructure for enterprise edge, OTT edge, and carrier edge networks. It will offer users new levels of flexibility to scale edge cloud services quickly, to maximize the applications and functions supported at the edge, and to help ensure the reliability of systems that must be up at all times.

<https://www.marketwatch.com/press-release/akraino-edge-stack-moves-into-execution-with-project-governance-formation-and-ecosystem-growth-2018-08-20>



# TSC Charter documents – Target

- › Draft Available here – [Link](#)
- › TSC Members to add comments in to the google docs
- › TSC document will be baselined
  - › No Frequent changes expected (Legal document)
  - › Any amendment requires TSC approval
  - › Baseline Target date – September 18th
  - › TSC Chair and/or Co-chair to lead the discussion
  - › Document review dates
    - › Tuesday 09/4th, 10-10:30 ET
    - › Friday 09/7th, 10-10:30 ET
    - › Tuesday 09/11th, 10-10:30 ET
    - › Friday 09/14th, 10-10:30 ET

# TSC Charter documents – Target

- › Blueprint & Project Lifecycle content will be maintained in the wiki.
  - › Draft Started - [Link](#)
  - › Living wiki document (Community document)
  - › Edit as we learn (especially 1st 6 months)
  - › All amendments requires TSC approval
  - › Final version, Target date – September 30th
  - › TSC Chair and/or Co-chair or any TSC volunteer to lead the discussion (Volunteers welcome)
  - › Need volunteers to compile a Project/Blueprint/Spec acceptance Form
  - › Need decision on the platform to submit Project/Blueprint/Spec
  - › Document review dates
    - › Tuesday 09/4th, 10:30-11:00 ET
    - › Friday 09/7th, 10-10:30 ET
    - › Tuesday 09/11th, 10-10:30 ET
    - › Friday 09/14th, 10-10:30 ET
    - › Tuesday 09/17th, 10:30-11:00 ET
    - › Friday 09/21th, 10-10:30 ET
    - › Tuesday 09/24th, 10-10:30 ET
    - › Friday 09/28th, 10-10:30 ET

# Community calls

- › Broader community calls
- › Proposed Thursday 11-12 ET or 2-3 PM ET
- › Start from September 7th
- › Discussion topics
  - › Items from that week community email list
  - › Update from TSC to the community
  - › Work group updates
  - › Specific technical topics [Early ones to tackle]
    - › Use case
    - › Upstream work
    - › Blueprint/Spec/Project proposal [ This one start after September 30th to avoid confusion]

Need volunteers or one TSC member coverage per week. Same volunteer to consolidate topics from that week's community email exchanges



# Work groups

- › Community could carry on these workgroups
- › TSC Volunteers required until community pickup these calls
- › Proposed – Continue the topics from the summit
  - › Use cases [ Day 1 and Day 2]
  - › Edge Applications and Virtual Network Functions requirements to Akraino
  - › End to End Testing Frameworks
  - › Regional Orchestration, Edge API
  - › Edge Networking

For More Information, Please  
Visit [www.akraino.org](http://www.akraino.org)

