

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

June 13th, 2019



TSC Voting Member Roll Call

Member Company	Voting Member Name	Contact info
Arm	Tina Tsou	tina.tsou@arm.com
AT&T	Kandan Kathirvel	kk0563@att.com
Dell	Tim Epkes	tim_epkes@dell.com
Ericsson	Torbjörn Keisu	torbjorn.keisu@ericsson.com
Huawei	Wenjing Chu	wchu@futurewei.com
Intel	Srini Adedepalli	srinivasa.r.addepalli@intel.com
Inwinstack	Thor Chin	thor.c@inwinstack.com
Juniper	Sukhdev Kapur	sukhdev@juniper.net
Nokia	Tapio Tallgren	tapio.tallgren@nokia.com
NTT	Takeshi Kuwahara	kuwahara.takeshi@lab.ntt.co.jp
Qualcomm	Shahid Khan	shahidk@qti.qualcomm.com
Radisys	Prakash Siva	psiva@radisys.com
Red Hat	Frank Zdarsky	zdarsky@redhat.com
Seagate Technologies	Tim Walker	tim.t.walker@seagate.com
WindRiver	Dariush Eslimi	dariush.eslimi@windriver.com

Agenda

- › Akraino Technical Mini-Summit
- › Log File Location
- › Security Sub-Committee Presentation
- › Integrated Cloud Native NFV/App Stack Family Vote
- › Sub-Committee Updates

Akraino Technical Mini Summit

- › June 17-19, 2019
- › Hosted @ Dell and MobileEdgeX



Agenda – Day 1 – Application Centric Edge Developer APIs

Time	Topics
9:00 – 9:30	Introductions & Mini Summit Objectives - Kandan, Tina, Vikram
9:30 – 10:30	Edge Use Cases to be Addressed – Rolf Muralt
10:30 – 10:45	Coffee Break
10:45 – 12:00	Fixed Access API: Project EVE- Erik Nordmark
12:00 – 1:00	Lunch Break
1:00 – 3:30	Telco edge API: MobileedgeX - Vikram Siwach
3:30 – 3:45	Coffee Break
3:45 – 5:00	Orchestration & Client-side APIs



MobileedgeX: Room 6G, 333 West San Carlos, San Jose, California

Zoom: <https://zoom.us/j/526983507>

Agenda – Day 2 : Application Centric Infrastructure APIs

Time	Topics
9:00 – 10:30	Developer Application Onboarding
10:30 – 10:45	Coffee Break
10:45 – 12:00	Infrastructure & Cluster Management
12:00 – 1:00	Lunch break
1:00 – 1:45	Open RAN and Provider API – Kandan Kathirvel, AT&T
1:45 – 2:15	ETSI MEC APIs – Alex Reznik, HPE
2:15 – 3:30	Intel MEC APIs – Neal Oliver, Intel
3:30 – 3:45	Coffee Break
3:45 – 5:00	Packet API Session – James Malachowski, Packet



MobiledgeX: Room 6G, 333 West San Carlos, San Jose, California

Zoom: <https://zoom.us/j/203259444>

Agenda – Day 3 – Theme: Release 2.0 Planning

Time	Topics
9:00 – 10:30	Recap Day 1 and 2 :API Sub comm
10:30 – 10:45	Coffee break
10:45 – 12:00	Akraino Release 2.0 Planning
12:00 – 1:00	Lunch break
1:00 – 3:30	Akraino Release 2.0 Planning
3:30 – 4:00	Action Items, Review

Dell: 5450 Great America Parkway, Santa Clara, California

Zoom: <https://zoom.us/j/582875780>

Session will be recorded.



Mini Summit Objectives

- › Discuss Edge Cases and API requirements
- › Discussion Focussed on:
 - › Developer/Application -> SDK/Edge Stack/ Blueprint
 - › Infrastructure API
 - › Device Centric : IOT
 - › Domain specific API: Programmability/Acceleration/Storage
 - › RAN APIs

Edge Use Cases



MOBILE DATA
THINNING



IOT
SECURITY



MOBILE GAMING



NEW PERVASIVE &
IMMERSIVE
EXPERIENCES



DRONE SWARMING



COMPLIANCE &
PRIVACY

Mini Summit Developer APIs Objectives

- › Client Registration API
- › Cellular Control Plane API for identity, location, QOE
- › Infrastructure Orchestration API
- › Application onboarding API
- › Resource Isolation API
- › Metrics API
- › Metering API
- › Application-focused Privacy Policy API

Mini Summit Infrastructure APIs Objectives

- › Programmable Data path: Match Action Pipeline APIs
- › Datapath Acceleration APIs
- › Resource Inventory APIs
- › RAN slice Programmability APIs

Log File Location

- › Andrew Wilkinson, Ericsson

Meeting of the Security Sub-Committee of the Akraino Edge Stack Project

Ken Yi



Agenda

- Security Tools
- Passing Criteria
- Plan

Security Tools

Test	Recommended tools	Notes
Source code static analysis	SonarQube	Open source. Community version free
Vulnerability analysis	Jfrog Xray	Used by AT&T. For container, npm, RPM, and debian etc artifacts vulnerability scan
Full stack scan	Lynis	Open source security and auditing tool.

Passing Criteria

Severity	Definition	Pass Criteria		
		Incubation	Mature	Core
Critical	<ul style="list-style-type: none"> Exploitation likely to result in root-level compromise; Exploitation is usually straightforward 	0	0	0
Important	<ul style="list-style-type: none"> The vulnerability is difficult to exploit. Exploitation could result in elevated privileges. Exploitation could result in a significant data loss or downtime. 	<50%	0	0
Moderate	<ul style="list-style-type: none"> Vulnerabilities that require the attacker to manipulate individual victims via social engineering tactics. Denial of service vulnerabilities that are difficult to set up. Exploits that require an attacker to reside on the same local network as the victim. Vulnerabilities where exploitation provides only very limited access. Vulnerabilities that require user privileges for successful exploitation. 		<75%	<50%
Low	<ul style="list-style-type: none"> Have <i>very little impact</i> on an organization's business. Exploitation of such vulnerabilities usually requires local or physical system access. 			



<https://www.atlassian.com/trust/security/security-severity-levels>

?: not-fixed/found

Plan

- › When to start?
 - › Now
- › Grace period
 - › 2-month
- › Tracking and enforcement
 - › Add a mapping table to track the security bug status for each project
 - › Put together a schedule with PTLs
 - › Invite project PTL to present security status

For More Information, Please
Visit www.akraino.org



Integrated Cloud Native NFV/App Stack Family Vote

> [Link](#)

Sub-Committee Updates

Sub-Committee	Chair	Notes:
Upstream	Wenjing Chu	
Process	Andrew Wilkinson	
CI and Blueprint Validation Lab	Cesar Berho	
Community	Tapio Tallgren	
Documentation	Sujata Tibrewala	
Security	Ken Yi	
API	Vikram Siwach	