

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

March 7, 2019



TSC Voting Member Roll Call

Member Company	Voting Member Name	Contact info
Arm	Tina Tsou	tina.tsou@arm.com
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WindRiver	Jim Einarsson	jim.einarsson@windriver.com

Agenda

- › Akraino Blueprint / Feature Project Reporting
- › TSC F2F Meeting Details
- › ONS Conference Planning
- › Equipment Donation Logistics
- › Connected Vehicle Blueprint Submission
- › Chat Tool
- › Sub-Committee Updates

Akraino Blueprint / Feature Project Reporting

- › <https://wiki.akraino.org/display/AK/Project+Reporting>

TSC F2F Meeting Details

- › Logistics Lead: Balaji Ethirajulu
 - › Meeting Details:
 - › Date: April 2, 2019
 - › Time: 1pm to 5pm PT
 - › Location: San Jose McEnery Convention Center, 150 W. San Carlos St., San Jose CA 95113
 - › Draft Agenda:
 - › 1:00pm – 3:00pm: Release Management – TSC
 - › 3:00pm – 3:15pm: Coffee Break
 - › 3:15pm – 4:00pm: CI/CD
 - › 4:00pm – 4:30pm: TBD
 - › 4:30pm – 5:00pm: TBD
- › Logistics Lead: Sujata Tibrewala
 - › Date: April 5, 2019
 - › Time: 8am to 5pm PT
 - › Location: CR-SC12-175 at Intel Campus
 - › Draft Agenda:
 - › TBD

ONS Conference Planning

- › LF Edge Booth at ONS Conference: April 3-5, 2019 in San Jose, CA
 - › Volunteers needed to staff booth:
<https://docs.google.com/spreadsheets/d/1aGeEXCJqxwi6wNwHbFScMR0JA0MaAsTqQuzrO63Ygfg/edit?usp=sharing>
 - › Demonstrations and videos will be needed: <https://wiki.akraino.org/display/AK/Demos>
- › Akraino Panels Approved: <https://wiki.akraino.org/display/AK/Panels>
 - › 04/03 Wednesday 5:10pm - Edge Open Source Synergy to Deliver Value-added End-to-end Services
 - › 04/05 Friday 11:10am - Edge Computing League - LF Edge Umbrella
- › Akraino Speeches Approved: <https://wiki.akraino.org/display/AK/Speeches>
 - › 04/04 Thursday 5:00 pm - Your path to edge computing - Akraino Edge Stack
 - › 04/05 Friday 11:50 am - Securing the Smart Cities Edge with OP-TEE and Arm TrustZone

Donated Equipment Logistics

- › Donated equipment should be sent to address below for the Akraino project lab. The shared sheet on file also has this address .
 - › UNH-IOL
 - › Attn: Lincoln Lavoie
 - › 21 Madbury Road, Suite 100
 - › Durham, NH 03824
 - › USA
 - › +1-603-862-0090 (main line)
 - › +1-603-674-2755 (Lincoln's Cell)

- › LF (Jacqueline or Brett) will schedule an introductory meeting between Akraino TSC members and Lincoln @ UNH.

Connected Vehicle Blueprint Submission

› <https://wiki.akraino.org/display/AK/Connected+Vehicle+Blueprint>

Blueprint Proposal: Connected Vehicle Blueprint		
Case Attributes	Description	Informational
Type	New Blueprint for the Edge	
Blueprint Family - Proposed Name	It is a independent blueprint, NOT a blueprint family yet.	
Use Case	MEC platform used for Connected Vehicle.	
Blueprint proposed Name	Connected Vehicle Blueprint	
Initial POD Cost (capex)	The Minimum Configuration: 4 Servers in total MEC Platform(1 Server) + 1 App Server(1 Server)+ 2 Simulators(2 Server)	
Scale & Type	Up to 4 Arm/X86 server	
Applications	The MEC platform which can be used to connect vehicles, the general data flows are itemized below: 1) Grab the traffic/vehicle information 2) Dispatch the traffic/vehicle information to the corresponding edge process unit. Note well: The dispatch policy can be configurable. 3) Process the data in the Edge or Cloud and figure out the suggested action item for the vehicle driver 4) Send the suggested action items to the vehicle driver	
Power Restrictions	Less than 6KW. The Maximum Power consumption for each server is around 1500W, $1500 * 4 = 6000W$	
Infrastructure orchestration	<ul style="list-style-type: none">o Docker + K8so VM and OpenStack/StarlingX	
PaaS	Tars	
Network	OVS, DPDK, VPP	
Workload Type	Bare metal, VM, Container	
Additional Details	OpenNESS	

Chat Tool

- › The Akraino TSC is interested in chat tool options
- › Slack is the most commonly used chat tool
 - › The free version only saves up to 10k messages (<https://slack.com/pricing>)
 - › EdgeX and the Zephyr Project use Slack
- › Rocket.Chat - Hyperledger has also been used – no message limit and minimal cost
- › The Linux Foundation can spin up Slack for Akraino fairly quickly should this be the direction the TSC would like to go.

Sub-Committee Updates

Sub-Committee	Chair	Notes:
Upstream	Wenjing Chu	
Process	Jim Einarsson	Continuing to work through simplification of the project states, and now also started looking at in-release milestones. Expect to have something new for the TSC to vote on either next week or the week after.
CI and Blueprint Validation Lab	Cesar Berho	
Community	Tapio Tallgren	
Documentation	Sujata Tibrewala	Change Documentation sub-Committee to Documentation and Release Management sub-Committee? Release planning process/page: https://wiki.akraino.org/display/AK/Project+Status+in+Release+1
Security	Ken Yi	