08-16-22 - 5G SBP Off-Week Working Group Meeting

Meeting Recording

Chat not used

Attendance

Please enter you name and company. Tag yourself using LF ID User Name. Don't have an LF ID yet? Go here: https://myprofile.lfx.linuxfoundation.org/.

Name	Company
LJ Illuzzi	Linux Foundation
Ganesh Venkatraman	Kaloom
Ranny Haiby	Linux Foundation
Muddasar Ahmed	MITRE
Satish Sadagopan	IBM
Satish Verma	Spirent
Yogendra Pal	Aarna Networks
David Shur	Peraton Labs
Brandon Wick	Aarna Networks
Ta Chen	Peraton Labs
Mike Loushine	AT&T
Parthiban Nalliamudali	Wavelabs Inc
Robert Edwards	MATRIXX Software
Prajith Paran	DU Telecom

Agenda:

- Start Recording- helps facilitate minutes and Action Items
- Antitrust
- Use Case Discussion
    - IoT Device Authentication at the Edge
    - Traffic Routing at the Edge
    - Packet Filtering at the Edge
    - Visual inspection at the edge
- Lab Architecture
- Any Other Business

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LF Anti-trust

- We will start by mentioning the project's Antitrust Policy, which you can find linked from the LF and project websites. The policy is important where multiple companies, including potential industry competitors, are participating in meetings. Please review and if you have any questions, please contact your company legal counsel. Members of the LF may contact Andrew Updegrove at the firm Gesmer Updegrove LLP, which provides legal counsel to the LF.
    - Antitrust Policy

Start Recording

ONE Summit Demo

- The goal is to demonstare end to end slicing from core to RAN
    - Expectations- Radio (RAN), Transport, Core slicing
    - Transport slicing (DoD/GovOps)
        - Options-
            - [ ] GV- proposal to put GXC in UNH and connect with a pipe. This way transport is part of the soluton.
            - [ ] Hardik Jain All equipment may be installed Montreal. If so how do we proceed with Transport slicing?
            - [ ] Potential for Core (Free5GC) to be installed at UNH (per Neil).. Use Case Scenario (Neil)- Locate GXC equipment in the Kaloom lab with Kaloom UPF; this could represent a use case where you need to co-locate the UPF and RAN to get higher preformance traffic split out at an edge site. In this case the UNH lab can represent resources deeper in the network that might handle with a lower performance requirement. Demo can show slices at the Kaloom lab (edge), with core function happening in the UNH lab.
    - Secure slicing- Muddasar to lead
        - [ ] Muddasar Ahmed Detail the steps and security functionality needed at every stage of the slice life-cycle.
- Use Case(s): what do we want to show?
    - Streaming
    - IoT (security cameras, robotics)
        - Visual inspection at the edge use case (Satish Sadagopan) - application layer, as opposed to network layer. Can be transitioned to Ultra-low lantency use case.
        - Satish Sadagopanprovide details
    - Edge Computing Support (DoD/GovOps):
        - IoT Device Authentication at the Edge - include DARPA Performers
        - Traffic Routing at the Edge -
        - Packet Filtering at the Edge - can enable device authentication at the edge
- Core:
    - Free5GC - installed in Kaloom lab, along with GXC RAN
    - SD-Core - DARPA Performers have experience with SD-Core
    - What capabilities does the core need to have to full fill the use case(s)?

Lab Status/Upgrades

- Lab Architecture Slides
    - Lab architecture updates based on use case functionality needed.
- Kaloom Status-
    - Free5GC Installed - do we shift Free5GC to UNH per above?
    - GXC RAN installed
- Hardware order status?
    - Graphic cards shipped, need to be installed
- Software upgrades at Kaloom Lab? - Tunde to provide details
    - Currently we will do both CU and DU at same location.
    - Based on last discussion if needed we can split between UNH and Kaloom lab

Off-Week Deep Dive Meeting-

Next Meeting Aug 16 -

- [ ] Neil Hoff- pull in DARPA Performers to discuss:
    - IoT Device Authentication at the Edge - include DARPA Performers
    - Traffic Routing at the Edge -
    - Packet Filtering at the Edge - can enable device authentication at the edge
- [ ] Satish Sadagopan Visual inspection at the edge use case (Satish Sadagopan) - application layer, as opposed to network layer. Can be transitioned to Ultra-low latency use case. Automotive applications
- [ ] Lab Architecture Slides
    - Lab architecture updates based on use case functionality needed.

Action Items (open)

- [ ] Ranny Haiby Need decision on core (November & Longer term)

- [x] Ganesh Venkatraman Status at each lab
- [x] Ganesh Venkatraman Next Steps
- [ ] Kader Khan, Parthiban Nalliamudali , Benjamin Posthuma begin work setting up radio components in Wavelabs lab. Can radio be shipped to Wavelabs in Hyderbad? GXC-radios working with Magma. Testing of all Magma 5G capabiliites underway. Other radio vendor DMW
- [ ] Tracy Van Brakle extend invitation to other operator members of ORAN (i.e. Verizon)
- [ ] Heather Kirksey Reach out to outreach committee on Magma Slack #magma-outreach-committee to discuss joint marketing opportunities.
- [ ] Tracy Van Brakle Any link to Multi-Operator RAN from Dec 2021? Referenced on a previous call.
- [ ] Alex Stancu Can help with ORAN implementation. Martin- what is the success criteria? Agenda item for Deep Dive meeting?
- [ ] Martin Skorupskican add detail and next steps for SMO Framework. https://wiki.o-ran-sc.org/x/-YvYAg
- [x] LJ Illuzzi Visibility on the Demo document

Any Other Business

********** Parking Lot **********

Lab Architecture:

- 1st Draft: https://docs.google.com/presentation/d/12Bs-RoH-yKvKTrHocDK57LiHIGvTT3tQKFR10xetSpg/edit#slide=id.g1295cdd58af_0_0
- Updates from 10 May 2022 5G SBP Deep Dive meeting
- How do we add Wavelabs lab into the architecture?
- Request that the RNA and core details be specified on the google doc.

Lab Resources

- UNH- Faraday cage in place.
- Kaloom (Montreal) - Hanen, GenXcomm radio is currently at Kaloom lab. Hanen will talk with Ganesh. (Kaloom previously ran the UPF and fabric). Faraday cage in place
    - Missing radio parts- SW for RAN. If GenXcomm has this, then much easier to deploy
- Wavelabs (India)-

Action Items (completed)

- [x] LJ Illuzzi- SMO Framework packages. What ONAP group is involved? https://wiki.onap.org/x/DgmsBw
- [x] LJ Illuzzi Create wiki to look at the various use cases among communities.
- [x] Martin Skorupski start putting together use cases among open source communities. Starting point --> ORAN Alignment
- [x] Amar Kapadia Will update wiki on roadmap
- [x] LJ IlluzziRoadmap refresh
- [x] Kader Khan Suresh Krishnan Create requirements document capturing ONAP requirements for Magma (as discussed on 03/08). Requirements doc created
- [x] Hardik Jain dedicated resource from GenXcomm to work 5G SBP. Ben will help with resource. Rajesh Ramesh is named resource.

Any Other Business

- 22 Feb 2022 ONAP/Magma Integration - Service Assurance - KPI Network Slicing. This is being tracked by ONAP for Enterprise Task Force. Will come into play in the 5G SBP down the line.