

# 08-09-23 - 5G SBP Bi-weekly Status Meeting

- [Chat](#)
- [Recording](#)

## 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
<a href="#">David McBride</a>	Linux Foundation
<a href="#">Rajesh Krishnan</a>	Peraton Labs
<a href="#">Kenny Paul</a>	LF Networking
<a href="#">Lincoln Thurlow</a>	University of Southern California, Information Sciences Institute
<a href="#">Yow-Jian Lin</a>	Peraton Labs
<a href="#">Robert Edwards</a>	MATRIX Software

## Agenda:

- [Antitrust](#)
- Start Recording- helps facilitate minutes and Action Items
- Welcome 1st Time Attendees
- Project Updates
- Followup on 5G Super Blueprint Library
- D&TF input for November. Face 2 Face working sessions - (Lincoln L.)
- Documentation
- Upcoming Meetings - PTO coverage
- 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

## Welcome 1st Time Attendees

Welcome all. new attendees. If you have any questions about participating in this community, please contact Louis Illuzzi (lilluzzi@linuxfoundation.org).

## 5G Super Blueprint Overview and Getting Started

### Project Updates

- **SEDIMENT+KubeArmor**
  - Initial PoC:
    - <https://github.com/5G-Super-Blue-Print/KubeArmor-SEDIMENT-Demo>
  - Kaloom lab- VMs built
    - Need VPN to Kaloom. LJ to Contact Ganesh (gave@kaloom.com)
  - Potential Hex Five sub project - Cesare/Rajesh
    - Investigative meeting took place between Peraton and Hex Five (Cesare).
    - Next Step- Hex Five to come back with a proposal
  - Next Steps:
    - Identify prover device and camera. in progress (07/26)
      - Still being investigated, initial candidates being considered:
        - Nordic nRF9160 <https://www.nordicsemi.com/Products/Development-hardware/nrf9160-dk>
          - Rajesh - correction: this is a TrustZone device, looking at a NXP device for Multizone (Hex5) (08/09)
        - OV2640 SPI camera <https://www.arducam.com/product/arducam-2mp-spi-camera-b0067-arduino/>
          - Rajesh - camera has been ordered. Awaiting arrival. (08/09)
        - Nordic board and camera both support Arduino UNO connector/interface
        - Zephyr (which we run on the nRF9160) includes a driver for this camera
    - Kaloom/UNH implementation
    - Identify and develop a security Use Case - Yogen?
      - ☐ Yogen - in process (08/09)
      - ☐ **Yogendra Pal** - setup meeting with Accuknox to discuss security use case. Report back to this meeting on Aug 23
- **SABRES: Slice Selection, Path Validation, Multiparty Management**
  - Three use cases will have separate services associated
  - What orchestrator will/can be used?
    - potential to duplicate [Simplified E2E Network Slicing](#) (Aarna) using EMCO
      - Simplified network slicing solution is not yet open source. USC may need to sign NDA. Lincoln will investigate. (08/09)
    - potential to leverage Wavelabs slicing using EMCO
  - ICCCN paper: [ICCCN\\_2023\\_paper\\_187.pdf](#)
  - Code repository (<https://pulwar.isi.edu/sabres/cbs/cbs>) that was used during the last government demonstration. This is the initial code base (src directory), which will not be the final product (as this version only works on 2-3 variables, rather than arbitrary). This code was used to replace ETSI's OSM's PLA module (using minizinc constraint solver) with CBS [<https://osm.etsi.org/gitlab/osm/pla>].
  - Next Steps:
    - Replicate Simplified Slicing demo locally in ISI lab (Lincoln)
    - Debug the environment (Lincoln)
    - Set up a drop-in replacement for the current slicing algorithm with CBS algorithm (Lincoln)
    - Leverage UNH and Kaloom. Ganesh and Lincoln
- **Simplified E2E Network Slicing** (Aarna)
  - Question to community to bring in OAI stack
  - Next Steps:
    - Slice selection within Edge Site Selection and Placement use case
    - Potential to demo OAI stack to the community - Yogen
    - Yogen had asked about gNodeB at UNH. Lincoln advises it is available 2nd half June
      - ☐ **Yogendra Pal** to follow up with Lincoln Lavoie on this point
    - Yogen - need to open source simplified slicing solution to EMCO project (08/09)
- **Edge Site Selection and Placement** (Equinix) - On Hold
  - From June D&TF - Call to action: What is current state of edge site selection and where does it need to evolve (future state)?
  - Tie-in with simplified slicing (Aarna)
  - Edge definition talk from the LF? Twitter? LF Edge Taxonomy. <https://hubs.la/Q01RnPZh0>
  - Next Steps
    - Proposal to pause, and focus on E2E slicing
    - Slice selection within edge placement - Yogen
- **L3AF Integration with 5G-UPF (User Plane Function)**
  - Completed

## Preview of the 5G Super Blueprint Library

- The 5G Super Blueprint Library is the central reference point for completed 5G Super Blueprint projects.
- The 5G Super Blueprint Library will be announced in an upcoming 5G SBP Whitepaper that will include all the projects completed to date as well as all the projects
- Next Steps:
  - Add project Lead(s) contact info into the Library Index:
    - SEDIMENT + KubeArmor
      - Peraton Lead: Yow-Jian Lin
      - Accuknox Lead: Ankur Kothiwai (ankur dot kothiwai at accuknox dot com)
    - Simplified End-to-End Network Slicing: Yogen
    - L3AF Integration with 5G-UPF (User Plane Function): Shankar
    - Factory Floor Safety: ??
    - 5G Public Cloud Edge Interface
      - Intel:
      - Aarna: tbd (Yogen to confirm - 08/09)
      - Equinix: Oleg
    - 5G Cloud Native Network: ??
  - Marketing Plan

## D&TF input for November. Face 2 Face working sessions

- MWC Devcon- Las Vegas.
  - Dates: Sept 26 to 28
  - Free for developers and engineers
  - CFP deadline - Pano
  - Accuknox/KubeArmor interested
- [LFN Developer & Testing Forum \(Budapest, Hungary\)](#) this is an on-site event.
  - November 13-16, 2023
  - [Registration](#) is open and free
    - Submit Visa letter requests (if needed) ASAP
  - [Topic submissions](#)

## Documentation

- Deliverables to the 5G SBP

From Use Case Template:

Blueprint Outputs (Mandatory)	check all that apply: <ul style="list-style-type: none"><li><input type="checkbox"/> Code repository</li><li><input type="checkbox"/> Configuration files (e.g. Helm charts, etc.)</li><li><input type="checkbox"/> Upstreaming to relevant projects</li><li><input type="checkbox"/> Continuous Integration</li><li><input type="checkbox"/> Test requirements and test results (if applicable)</li><li><input type="checkbox"/> Documentation:<ul style="list-style-type: none"><li><input type="checkbox"/> Overview and Theory of Operation (i.e., what does it do?)</li><li><input type="checkbox"/> Deployment and setup</li></ul></li><li><input type="checkbox"/> Videos<ul style="list-style-type: none"><li><input type="checkbox"/> demo</li><li><input type="checkbox"/> lab setup/behind the scenes</li><li><input type="checkbox"/> other</li><li><input type="checkbox"/> YouTube</li></ul></li></ul>
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- Create a template for documentation collateral
- Playbook-like theme
- YouTube - independent of any D&TF YouTube postings, but cross-linked

#### **Upcoming Meetings**

- 09 Aug 2023 Bi-Weekly Status Meeting
  - LJ on PTO Aug 7 to Aug 18. David McBride will facilitate this call for LFN
- 16 Aug 2023 Off-Week Working Group Meeting
  - David McBride will facilitate the call for LFN
- 23 Aug 2023 Bi-Weekly Status Meeting
  - LJ returns!
- 30 Aug 2023 Off-Week Working Group Meeting
  - Topic - TBD

#### **Any Other Business**