



Nephio TSC Meeting

Jan 18, 2024

 **LF** NETWORKING

 **THE LINUX** FOUNDATION

Antitrust Policy Notice

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- › Examples of types of actions that are prohibited at Linux Foundation meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at <http://www.linuxfoundation.org/antitrustpolicy>. If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrave of the firm of Gesmer Updegrave LLP, which provides legal counsel to the Linux Foundation.

Meeting Information

- › Zoom Meeting Information
- › <https://zoom-lfx.platform.linuxfoundation.org/meeting/91267803435>
- › Note: Anyone that accesses the link will be prompted to register for the meeting at which point they also add themselves to the invite list.

Etherpad - Meeting Minutes

- › <https://etherpad.lfnetworking.org/p/Nephio-TSC-2024-01-18>
- › Join the etherpad and set up your name and text color
- › Meeting attendance - no longer needed unless quorum is being tracked for a vote during the meeting. LFX tools zoom long will be uploaded post meeting to capture all attendees.
- › Please help: The more that participate, the better the minutes

Using the Mail Lists

- › All groups.io email lists are <list name>+subscribe to subscribe, just email it (content does not matter)
- › **TSC**
Post: nephio-tsc@lists.nephio.org
Subscribe: nephio-tsc+subscribe@lists.nephio.org
- › **Development**
Post: nephio-dev@lists.nephio.org
Subscribe: nephio-dev+subscribe@lists.nephio.org
- › **SIG Automation**
Post: sig-automation@lists.nephio.org
Subscribe: sig-automation+subscribe@lists.nephio.org
- › **SIG NetArch**
Post: sig-netarch@lists.nephio.org
Subscribe: sig-netarch+subscribe@lists.nephio.org
- › **SIG Release**
Post: sig-release@lists.nephio.org
Subscribe: sig-release+subscribe@lists.nephio.org
- › **SIG Security**
Post: sig-security@lists.nephio.org
Subscribe: sig-security+subscribe@lists.nephio.org
- › Once you have subscribed, login to lists.nephio.org (ask for a link to be sent), then edit account details

TSC Members

Name / Alternate	Organization
Alessandro D'Alessandro / Fabrizio Moggio	TIM
Bala Varadaraju	RedHat
Bernard Tsai	Deutsche Telekom
Ciaran Johnston	Ericsson
Eric Debeau	Orange
Hunor Demeter / Padma Sudarsan	VMware
Iain Wilkinson / Riccardo Gasparetto Stori	Vodafone
Kandan Kathirvel (Chair)	Google
Raj Panchapakesan / Rahul Jadhav	AccuKnox

Name / Alternate	Organization
Ravi Ravindran	F5
Sagar Arora	OpenAirInterface
Sana Tariq (Vice-Chair)	TELUS
Sandeep Sharma	Aarna Networks
Sebastian Scheele	Kubernatic
Seshu Kumar Mudiganti	Wind River
Sundar Nadathur	Intel
Timo Perala	Nokia
Victor Morales	Samsung

Agenda

- › Antitrust Policy, Minutes, and Action Items
- › SIG Status
 - › [Sana & Alexis] NetArch
 - › [Tal] Automation
 - › [Balaji & Radoslaw] Release
 - › [Raj] Security
- › Events
- › Other Topics
 - › Nephio representation at LFN Committees
- › Q&A



SIG Updates

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SIG1 NetArch [Sana & Alexis]

- › General
 - R2 Architecture
 - R3 Scope, Target Architecture,
 - Beyond R3 Roadmap

- › 5 Working Groups
 1. Architecture and Roadmap (*interim lead SIG1 chair/co-chair*)
 - i. [Initial Nephio Component Architecture](#)
 2. O-RAN (*lead Tim / Qualcomm*)
 - i. [Target Deployment Architecture, Objective and User Stories in progress for R3](#)
 3. Release Scope and User Story (*interim lead SIG1 chair/co-chair*)
 - i. More than 10 user stories in progress / potential for R3
 - ii. Scoping is starting this Fri
 4. Experience and Modelling (*lead Ciaran / Ericsson*)
 - i. Initial Draft of [Current State of Modelling](#)
 5. Service Assurance and Policy (*lead Subhash / Samsung*)
 - i. Objectives and User Stories in progress for R3



Nephio R2 release

Automation and Release SIGs

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Planned Release Artifacts - R2

Release Deliverables

- ❖ Features
 - Enhanced multi-vendor support
 - Enhanced multi-cloud support
 - Onboarded OAI components
 - RAN use case
 - Integration with new release of Porch
- ❖ Technical debt
- ❖ Documentation

Exploration (Spikes and PoCs)

- ❖ Nephio SDK
 - Helm support
- ❖ Topology controller

R2 Deliverables - Features

- ❖ **Multi-vendor support**
 - API changes
 - Generalization
 - Parameterization
 - Reuse of params
- ❖ **Multi-cloud support**
 - Sandbox
 - GCP
 - OpenShift
- ❖ **OAI components**
 - Deploying many OAI 5G core and RAN components (CU and DU) NFs via Python-based operators
 - End-to-end call
- ❖ **Integration with new release of Porch**
 - Stability
 - Security
 - Repo watcher changes
- ❖ **Documentation**
 - Shiny new documentation generation
- ❖ **Experimental: Nephio SDK**
 - Flux-based deployment of Helm charts
 - Helm-to-operator converter
- ❖ **Experimental: Topology Controller**
 - Northbound API to express the network topology

R2 Deliverables - Technical Debt

❖ Product

- Removing rigid dependency on Gitea
- Fixing the Multus version
- ConfigMap generator function
- WebUI configuration options for authentication
- Reorganizing the package catalog
- Reduce hardcoding of NF parameters
- Stability of end-to-end tests
- Porch improvements
- Documentation enhancements

❖ Process

- Run integration tests prior to merging PRs
- Improve unit test coverage for PRs
- Automate release process
- Enable Molecule integration tests to be invoked automatically
- Automate upgrade of Prow libraries
- Added nephio-experimental GitHub org, reorganized our repositories

Code Scans

❖ Copyright and licensing scans

Fossology instance will run the final scan of whole codebase:

<https://fossology.nephio.io/repo>

https://prow.nephio.io/?type=presubmit&job=*fossology*

https://prow.nephio.io/?type=presubmit&job=*scancode-toolkit*

https://prow.nephio.io/?type=presubmit&job=*lichen*

❖ Security scans

Results for R1: <https://secreports.nephio.io> (for R2 once images are built)

<https://securityscorecards.dev/viewer/?uri=github.com/nephio-project/nephio>

Coordinates for Artifacts

- ❖ Code
 - All release artifacts: <https://github.com/nephio-project/>
- ❖ Images
 - <https://hub.docker.com/u/nephio>
- ❖ Docs
 - <https://github.com/nephio-project/docs>

SIG3 Release [Balaji & Radoslaw]

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SIG4 Security [Raj & Tom]

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Events

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ONE Summit - APRIL 29 – MAY 3, 2024

- › <https://events.linuxfoundation.org/one-summit-north-america/>
 - › Mon - Co-Located Events
 - › Tue & Wed - Keynotes, Breakouts + Technical Showcase
 - › Thr & Fri - Developer & Testing Forum (D&TF)
- › [Nephio Related Talks](#)
- › LFN Booth participation

Bay Area Meetup

- › Security, transport, other topics?
- ›

Other Topics

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LFN Committee Representation [Timo]

- › Email to TSC: <https://lists.nephio.org/g/nephio-tsc/message/203>
- › Graduated Projects in LFN are entitled to voting representation on SPC, TAC, and the MAC *if desired*
- › Wiki Page <https://wiki.nephio.org/x/KgAmAw>

Documentation Licensing (Ciaran)

The Contributor License Agreement refers to documentation licensing:

iv. Documentation will be received and made available by the Project under the Creative Commons Attribution 4.0 International License

<https://wiki.nephio.org/display/HOME/Contributor+License+Agreement>

In contrast, the actual documentation repo (and other documents in other repos) are licensed under Apache 2.0:

<https://github.com/nephio-project/docs/blob/main/LICENSE>

Is this an oversight, and should we change the license at least in the main documentation repository?