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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-2023-03-02

- Join the etherpad and set up your name and text color
  - Meeting attendance - no longer needed, tracked by LFX tools

- 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

Once you have subscribed, login to lists.nephio.org (ask for a link to be sent), then edit account details.
## TSC Members

<table>
<thead>
<tr>
<th>Organization</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandeep Sharma</td>
<td>Aarna Networks</td>
</tr>
<tr>
<td>Erhan Lokman / Erol Ozcan</td>
<td>Argela</td>
</tr>
<tr>
<td>Daniel Bernier / Marc-Alexandre Choquette</td>
<td>Bell Canada</td>
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<tr>
<td>Sandip Sarkar / Chandra Thakare</td>
<td>Capgemini</td>
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<tr>
<td>Eric Gaudet</td>
<td>Casa Systems</td>
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<tr>
<td>Bernard Tsai</td>
<td>Deutsche Telekom</td>
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<tr>
<td>Oleg Berzin</td>
<td>Equinix</td>
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<tr>
<td>Ciaran Johnston</td>
<td>Ericsson</td>
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<tr>
<td>Sanju Abraham / Ravi Ravindran</td>
<td>F5</td>
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<tr>
<td>Kandan Kathirvel (Chair)</td>
<td>Google</td>
</tr>
<tr>
<td>Cathy Zhang / Sundar Nadathur</td>
<td>Intel</td>
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<tr>
<td>Sebastian Scheele</td>
<td>Kubermatic</td>
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<tr>
<td>Jane Shen</td>
<td>Mavenir</td>
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<tr>
<td>Timo Perala</td>
<td>Nokia</td>
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<tr>
<td>Eric Debeau</td>
<td>Orange</td>
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<tr>
<td>Sana Tariq (Vice-Chair)</td>
<td>TELUS</td>
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<tr>
<td>Fabrizio Moggio</td>
<td>TIM</td>
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<tr>
<td>Gene Bagwell</td>
<td>Verizon</td>
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<tr>
<td>Hunor Demeter / Padma Sudarsan</td>
<td>VMware</td>
</tr>
<tr>
<td>Iain Wilkinson / Riccardo Gasparetto Stori</td>
<td>Vodafone</td>
</tr>
<tr>
<td>Bin Yang</td>
<td>Wind River</td>
</tr>
</tbody>
</table>
Agenda

- [Lucy] Antitrust Policy, Minutes and Action Items
- [Agenda]
  - MWC Update
  - Membership Update
  - [Ciaran/Timo] Helm Chart Support for Nephio
- SIG Status
  - [Sana & Kaushik] NetArch
  - [John & Wim] Automation
  - [Stephen & Tina] Release
- Q&A
Cloud, datacenter vendors muscle in on traditional telco territory at MWC

Join us in the 'new world of opportunity' says GSMA chief

Public Cloud Providers At MWC 23 Lure Telecommunication Companies

Janakiram MSV Senior Contributor Ø
I cover Cloud Computing, Machine Learning, and Internet of Things

Networking News ➤

MWC 2023’s Biggest Telecom Announcements: Microsoft, Qualcomm, Google, AT&T

BY GINA NARCISI ➤
FEBRUARY 28, 2023, 11:29 AM EST

Mobile edge, open RAN, 5G and private 5G networking were the hot topics on top of mind for the world’s biggest service providers, IT vendors, and telecom equipment makers at MWC 2023 in Barcelona this week.
Membership Update

- Begin transition to Directed Fund
- Community documents are ready
- Linux Foundation will begin to reach out to community members beginning Monday
Nephio Support for Helm Charts (Proposal, to be discussed)

- Use of Helm charts for deploying Kubernetes workloads is ubiquitous in the telecommunication industry, with investment and use over several years.

- Supporting Helm in Nephio is critical to get adoption as the transition to CRDs will happen gradually.

- We propose that we have an urgent discussion in SIG Automation on how we can support Helm in Nephio.

- The goal is to produce a framework how to enable Helm in Nephio and have it documented/considered for R2.
SIG Updates

1. SIG NetArch
2. SIG Automation
   ● Delivered CRD proposal to SIG NetArch
   ● Created three subprojects for better parallel execution
   ● Next: subprojects begin execution on R1 tasks
3. SIG Release
The next TSC meeting will be on Thursday, March 16th
Thank you!
Google: Upcoming contributions

- [Early Feb] Nephio R1 design proposal & deployment CRDs (UPF / AMF / SMF)
- [End Feb] Google seed code 2 (matching the CRDs and design proposal) drop to Nephio repo
  - Deployment CRDs for 5GC NFs
  - NF Topology (deployment and hydration pipeline) Operators
  - NF status reporting pipeline for intent reconciliation
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Please email legal@linuxfoundation.org with any questions about The Linux Foundation’s policies or the notices set forth on this slide.
Roadmap towards Release 1

April
- Nephio Launch

June
- Dev Summit

June
- Google seed Code 1

Sep
- Community established

Oct
- R1 Scope Finalized

Nov
- R1 Stories Completed
- Dev Summit 2

Jan-March
- Google seed code 2

April
- R1 dev complete

May
- Nephio R1 Release
- Development R2+

Q2
- 2022 - Completed

Q3

Q4

Q1

Q2
- 2023 - Progress
Reminder to TSC and SIG group on R1 process

<table>
<thead>
<tr>
<th>Release State</th>
<th>Description</th>
<th>Required Information</th>
<th>TSC Acceptance Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposal</td>
<td>Initial release proposal</td>
<td>The presentation by SIG should include clear use cases, software components, and timeline.</td>
<td>The proposal aligns with Nephic Charter and goals.</td>
</tr>
<tr>
<td>Incubation</td>
<td>Proposal is approved by TSC and in development</td>
<td>SIG should present periodic updates (at least every month) to TSC. Any key roadblocks should be highlighted to TSC.</td>
<td>TSC should monitor the progress and guide the SIG to resolve any roadblocks.</td>
</tr>
</tbody>
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<tr>
<td>Mature</td>
<td>Release is completely ready, tested, and document is ready to be published</td>
<td>SIG should present the readiness, user guide, release notes, known bugs, and other relevant information to TSC.</td>
<td>TSC should review the readiness and vote to accept the release.</td>
</tr>
<tr>
<td>Core</td>
<td>Software is released to the public/community and supported by the community for patches. Each release needs to be supported by the community for at least 2 years or TSC approves the exception. Community to support backward compatibility of releases for smooth operations.</td>
<td>TSC approved the release and information is documented for the public. Latest release becomes the Core. Previous release is tagged with end-of-life. Core releases are numbered in this sequence release #: Patch version #: Multiple core patches can be released and SIG can make the release decision of patches and TSC approval is not required.</td>
<td>TSC should coordinate with LP for the public announcement and marketing.</td>
</tr>
<tr>
<td>Archived</td>
<td>The release is no longer supported by the community (after two years or as per TSC decision) and stored as archived software for public reference</td>
<td>Archived release should be documented in the wiki.</td>
<td>TSC approves the archival.</td>
</tr>
</tbody>
</table>

- SIG to present the readiness to TSC
- TSC to review and approve the release
Establish the board at the end of 1st year. April 2023

SIG 1: Network Architecture
Specifications and Requirements

SIG 2: Automation Machinery
CRDs, Operators, and Related Tooling, Reference Implementation, Packaging, Installation

SIG 3: Release
CI/CD, Test Grids, Builds, Release Machinery, Project Administration

SIGNIFICANT PROJECTS TO SCALE

+ SIG 1 to plan for additional use cases

+ New projects
Speed up the community innovation and support new sub-groups/projects under SIG 2 to develop backlog
Establish Board in 2023

Prior TSC slide:

LF Proposal is here

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

- Lucy shared the same documents to TSC on Thu, Jan 12
- TSC members to review and provide feedback by Jan 31st.
- TSC to vote and decide the adoption of this CLA method/changes on Feb 2nd, 2023
Welcome additional contributions - R1 and beyond

User Stories
- Multi-cloud
- Multi-NF
- Multiple use cases i.e. Beyond Mobility; Wireline, Transport, SD-WAN, etc.
- Large scale deployments

CRD/Operators
- Establish CRD schema
- Operators SDK
- Helm & Yang to Nephio CRD converter
- Compliance and certification program

Control-Plane
- SDK for building Operators
- Operators of operators
- UI: GUI & APIs
- UI: Design Studio
- Integration APIs to MSO, Inventory systems, BSS
TSC Proposals to add new projects

- TSC to review and approve new sub-projects focused in delivery of Nephio v1 & ++
- Any community members can bring in projects
- TSC to vote and direct the project either to SIG 1 or SIG 2 or SIG 3 depending on the nature of the project
- Governance provided by the main SIG
- Sub-SIG operates