

The Cloud iNfrastrutture Telco Task Force (CNTT)

From Zero to First Deliverable in 3 Months

September 29, 2020

 THE **LINUX** FOUNDATION



Cloud iNfrastrutture Telco Task Force (CNTT)

PANELISTS



Scott Steinbrueck
*Lead Member of Technical Staff,
AT&T*



Gergely Csatari
Senior Open Source Specialist, Nokia



Beth Cohen
NFV/SDN Product Strategist, Verizon



Tom van Pelt
Technical Director, GSMA



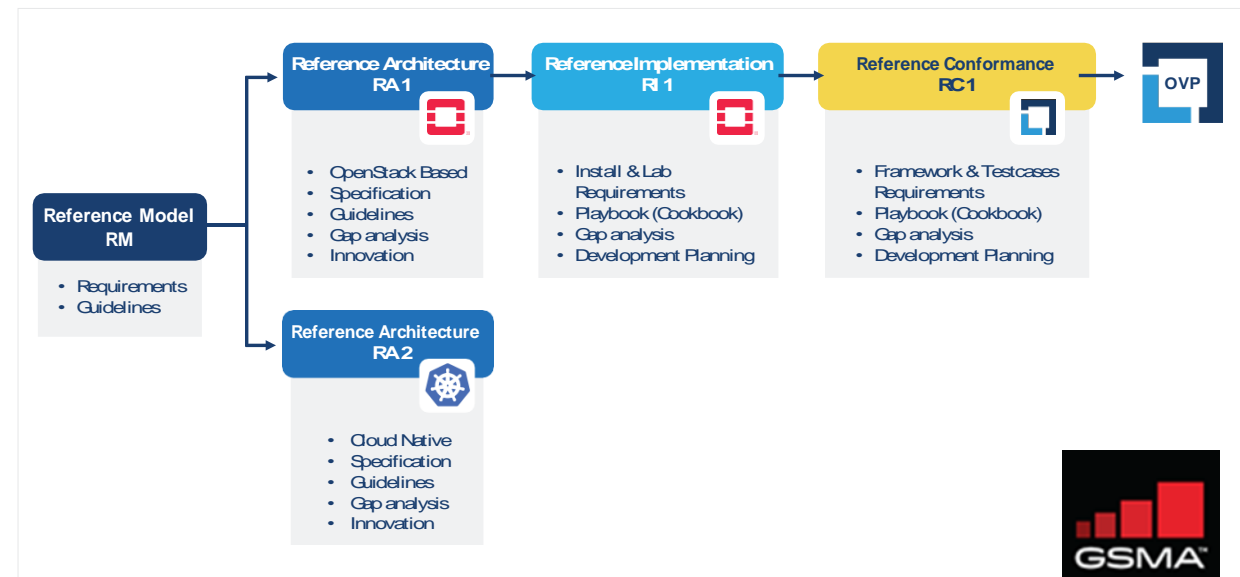
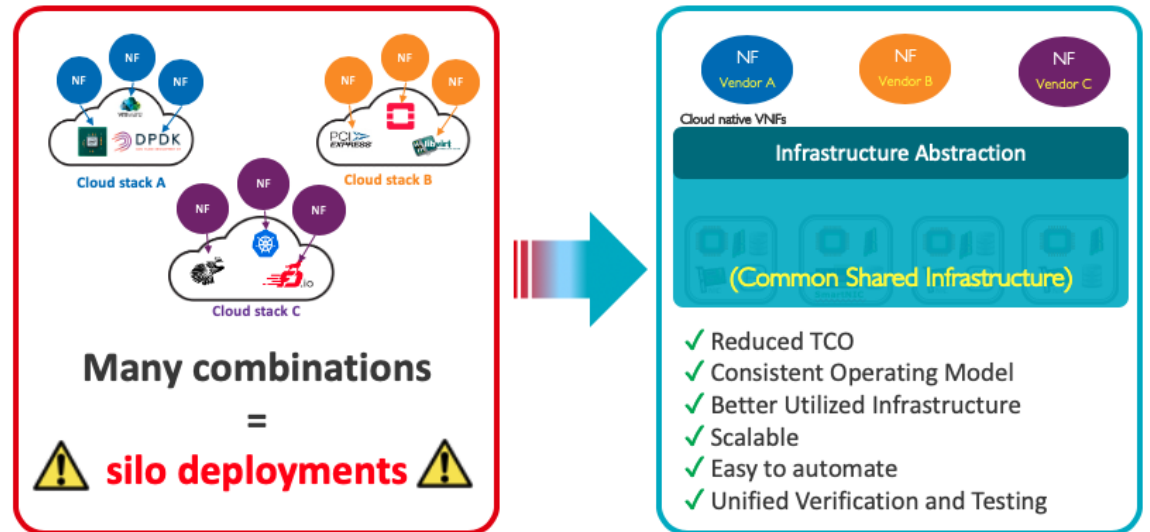
Marc Cohn
Head of Network Virtualization, Spirent

A Brief History of CNTT

› Timeline

- › Oct 2018: GSMA Infrastructure project started
- › Dec 2018:
- › Mar 2019: ONES informal gathering
- › May 2019: Barcelona Ideation
- › July 2019: Paris Kickoff
- › Sept 2019: Botrange Initial Release
- › Jan 2020: Snezka Release
- › June 2020: Baldy Release

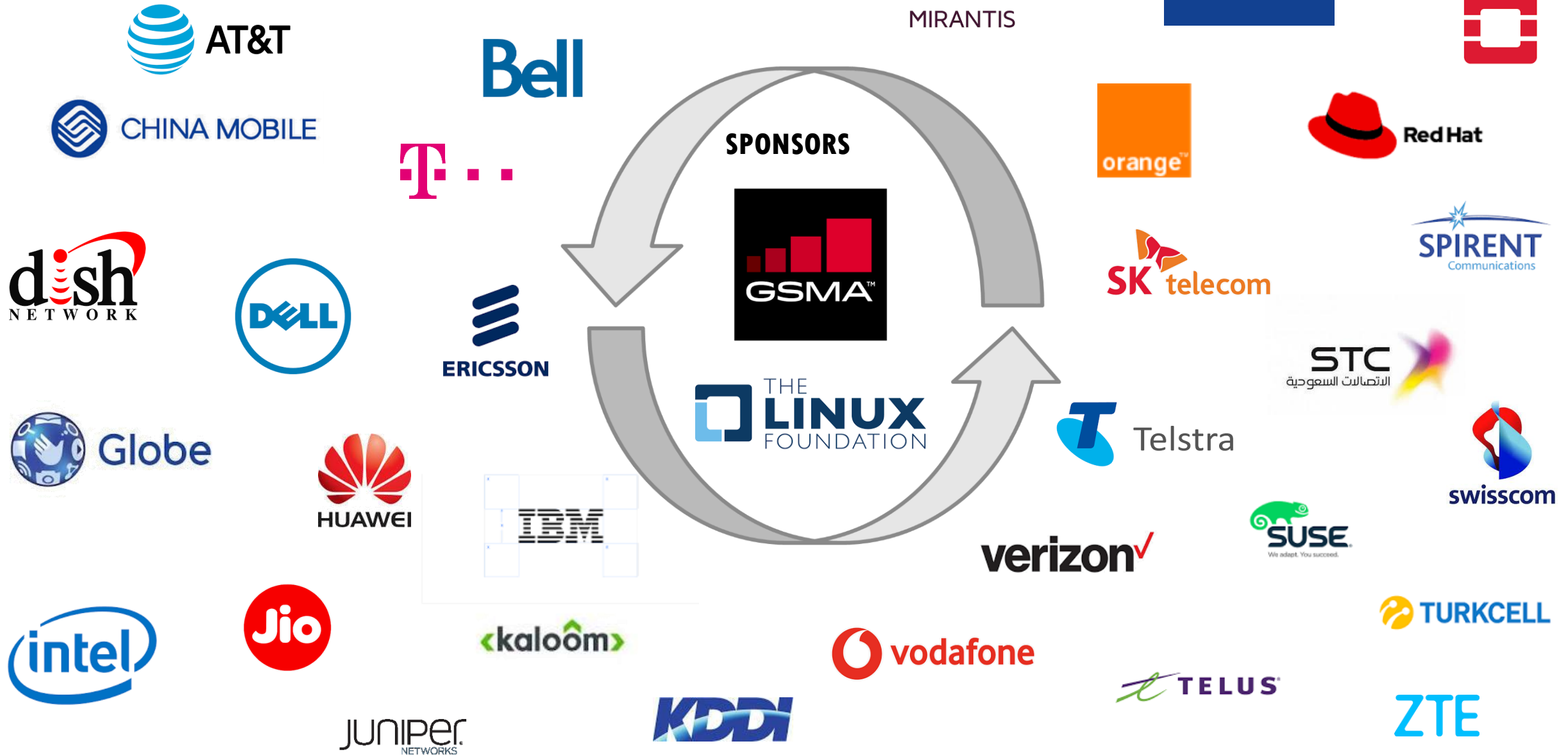
› Purpose and Mission



Attendees at July 2019 CNTT Meeting








Broad Community Support



CNTT | Make it Easy to On Boarding

› <https://wiki.lfnetworking.org/display/LN/Community+Participant+Onboarding>

CNTT Participant On-boarding Overview

				
Getting Started	Information Packet	Automatic Agreement to Terms	Join Community	Engage!
Welcome FAQs	Information Packet CNTT Overview Legal Terms & Conditions How To's Distribution Lists, Meeting Info, Events Tools	Communicate Responsibilities to Participate in CNTT Legal Terms & Conditions	CNTT Workstream Lead Sends Confirmation of Registration Assign Mentor	Contribute! Support & Administration

Cloud iNfrastrutture Telco Taskforce

Technical Activities and Roadmap

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CNTT | Baraque Release Feature Set

RM

- Networking Modelling.
- Networking & Storage Characterization
- Full Containerization support. ★
- HW Acceleration support.

RA1



- New OpenStack release. ★
- Adding Smart NICs.
- Adding HW Acceleration.
- Adding Edge Requirements.

RC1



- General Cleanups.
- OVP Badge. ★

RI 1



- Finalizing Installer Requirements. ★
- Finalizing Installation Cookbook.
- Finalizing Lab Cookbook.

RA2



- Complete Requirements.
- Restructure Traceability Matrix. ★
- Full Architectural specs.

RC2



- Initial Requirements. ★
- Initial Traceability Matrix and align with RA-2/RC-1.

RI 2

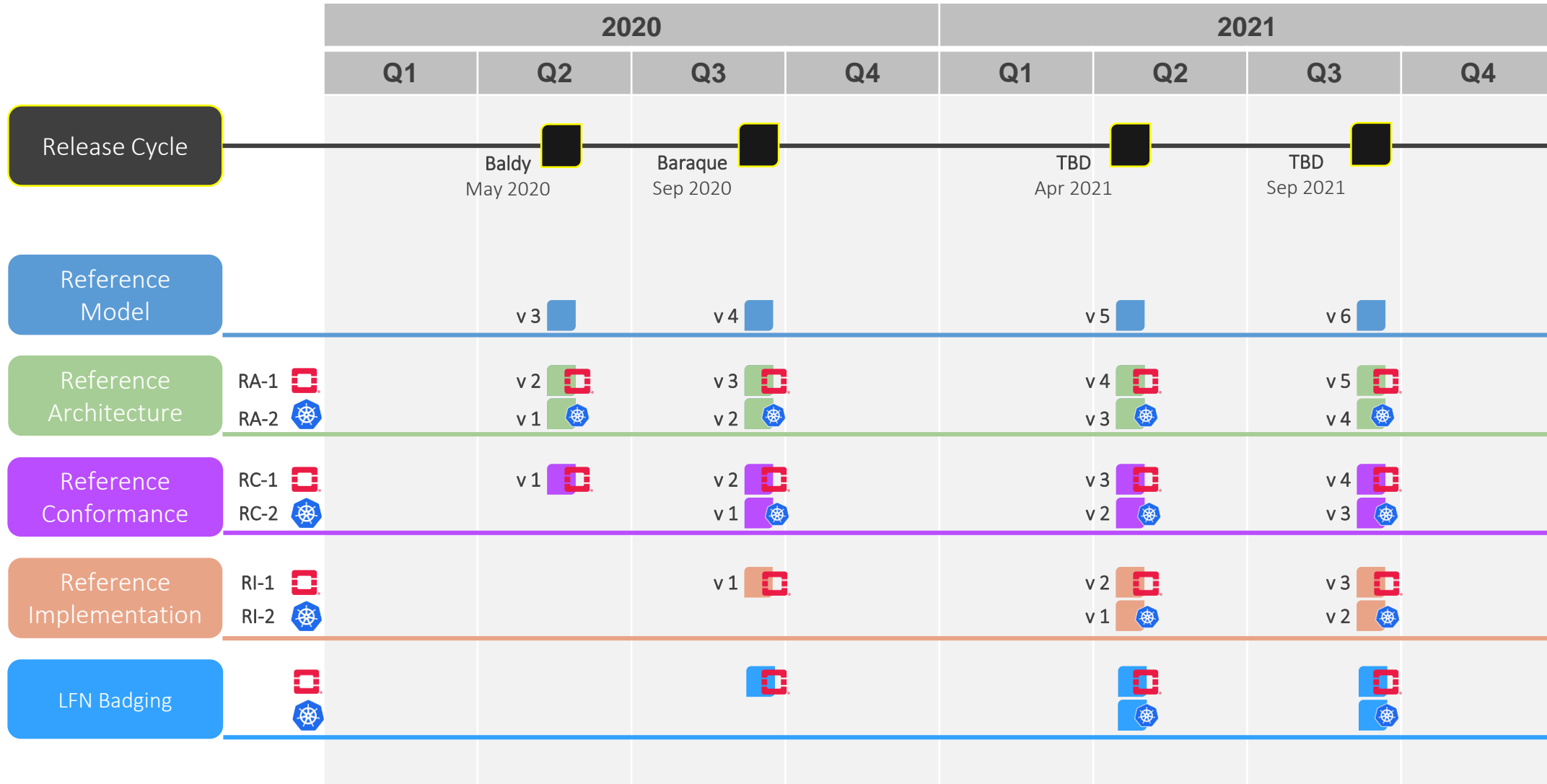


- Initial Installer Requirements. ★
- Initial Lab Requirements.
- Initial Cookbooks.

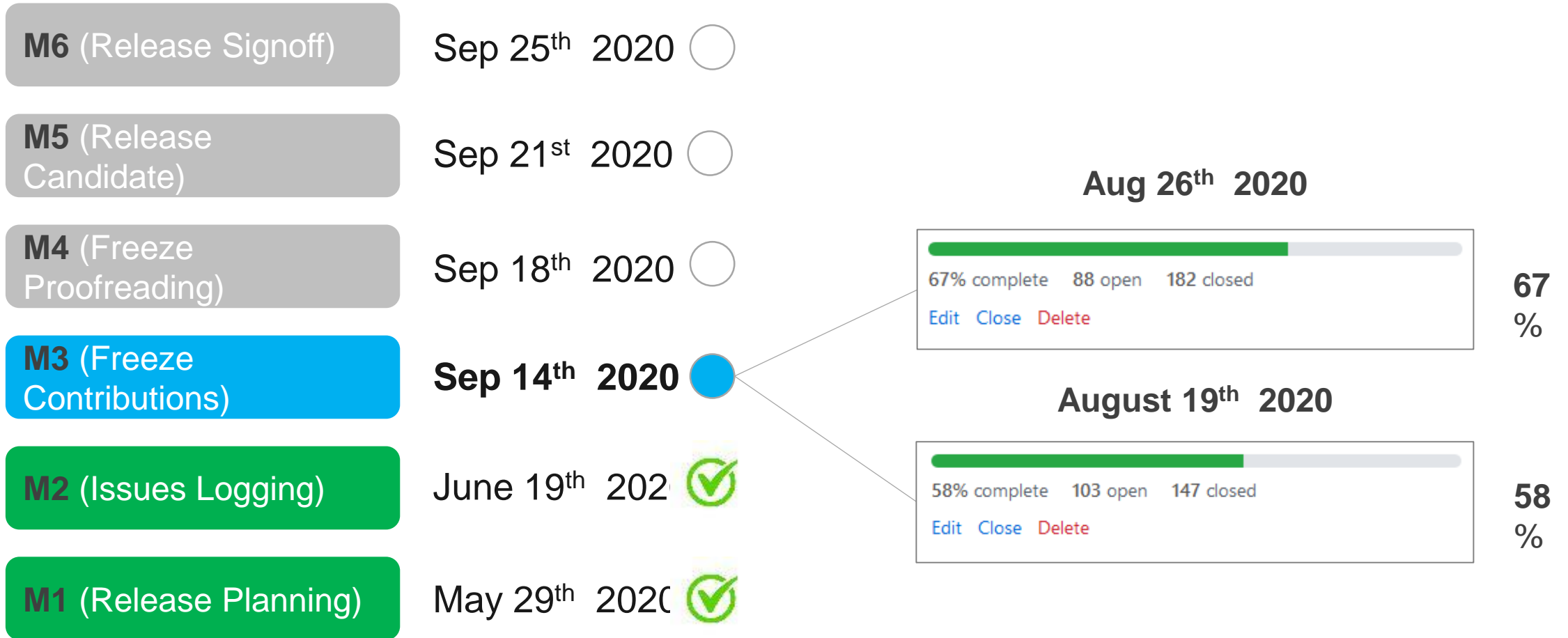
Edge

- Initial Use-Case Requirements. ★
- Edge Profile Creation.
- RM & RAs Enhancements.

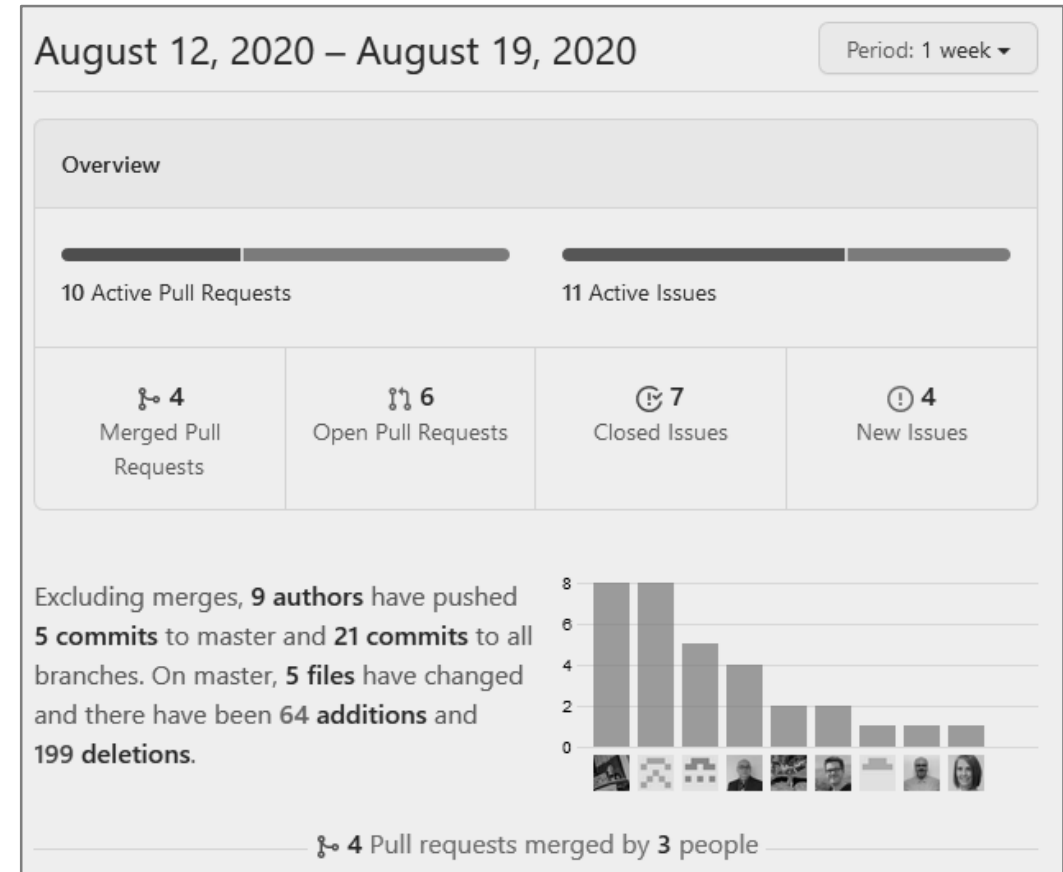
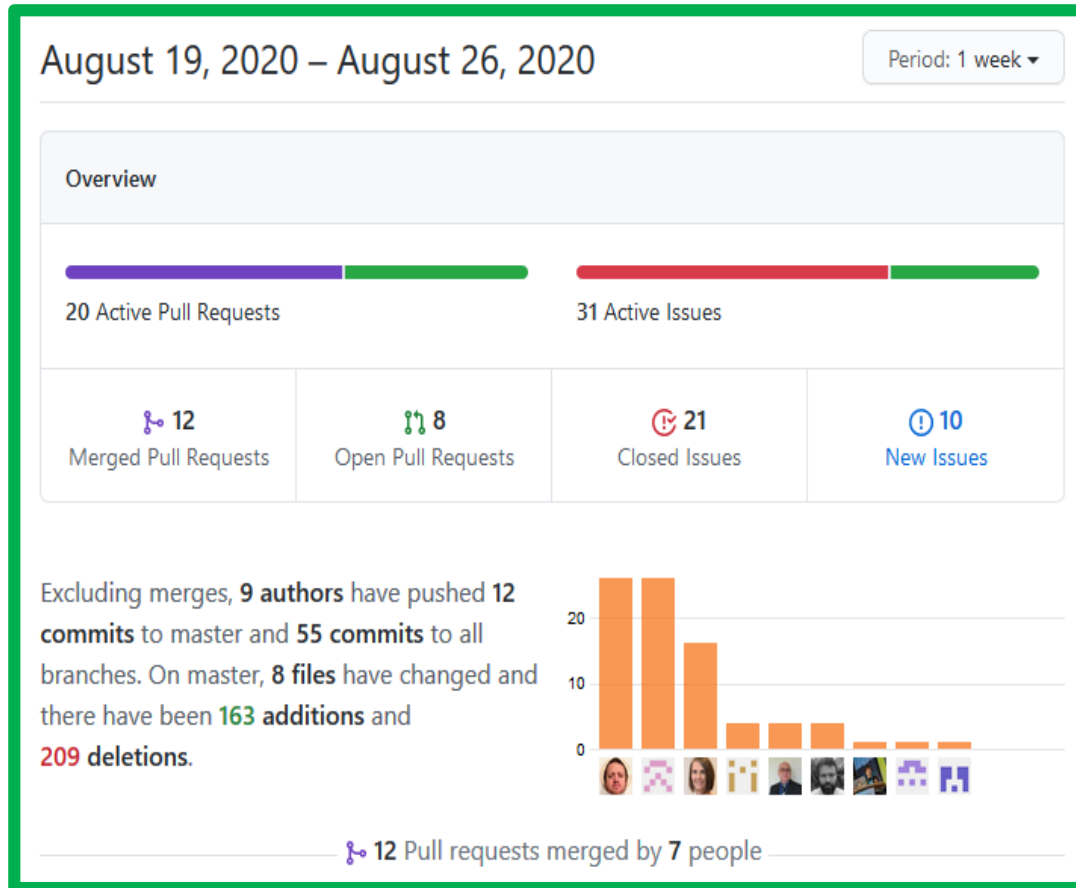
CNTT | Roadmap



CNTT | Technical Milestones - Baraque



CNTT | Technical Activity – Overall



CNTT/OPNFV Next Steps

*Future Reimagining
Better together*

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Decision Making Guiding Principles

- Enable and encourage the widest **input** from operators and vendors to ensure the operator community vision is fulfilled
- Create sustainable resource model for **implementation** work
- Reduce disruption and ensure continuity of **work**
- Ensure **alignment** between architecture/requirements and engineering
- Create a sustainable and transparent **funding** and **resourcing** model
- Facilitate broad reach of **influence** with other industry groups
- Enable broad **adoption** and **deployment** including associated marketing support
- Ensure a sustainable and workable long-term **governance** and **IPR** plan/legal support

Options Comparison

➤ **As a Committee**

- Similar to CVC & EUAG
- Solves staff & financial issues
- Easiest to implement – Lift & Shift
- Governance and silo issues remain

➤ **As a Project**

- Completely independent from OPNFV
- Solves staff & financial issues over time (no staff or \$\$ support while in Sandbox)
- Most difficult to implement – start from scratch

➤ **Merger/Reimagine OPNFV-CNTT**

- Equal partner approach
- Potential rebranding opportunity
- Mid level difficulty to implement
 - Must build new team structure
- Center of Gravity for project resources
- Trust building essential

Team Consensus: Merger-Reimagine

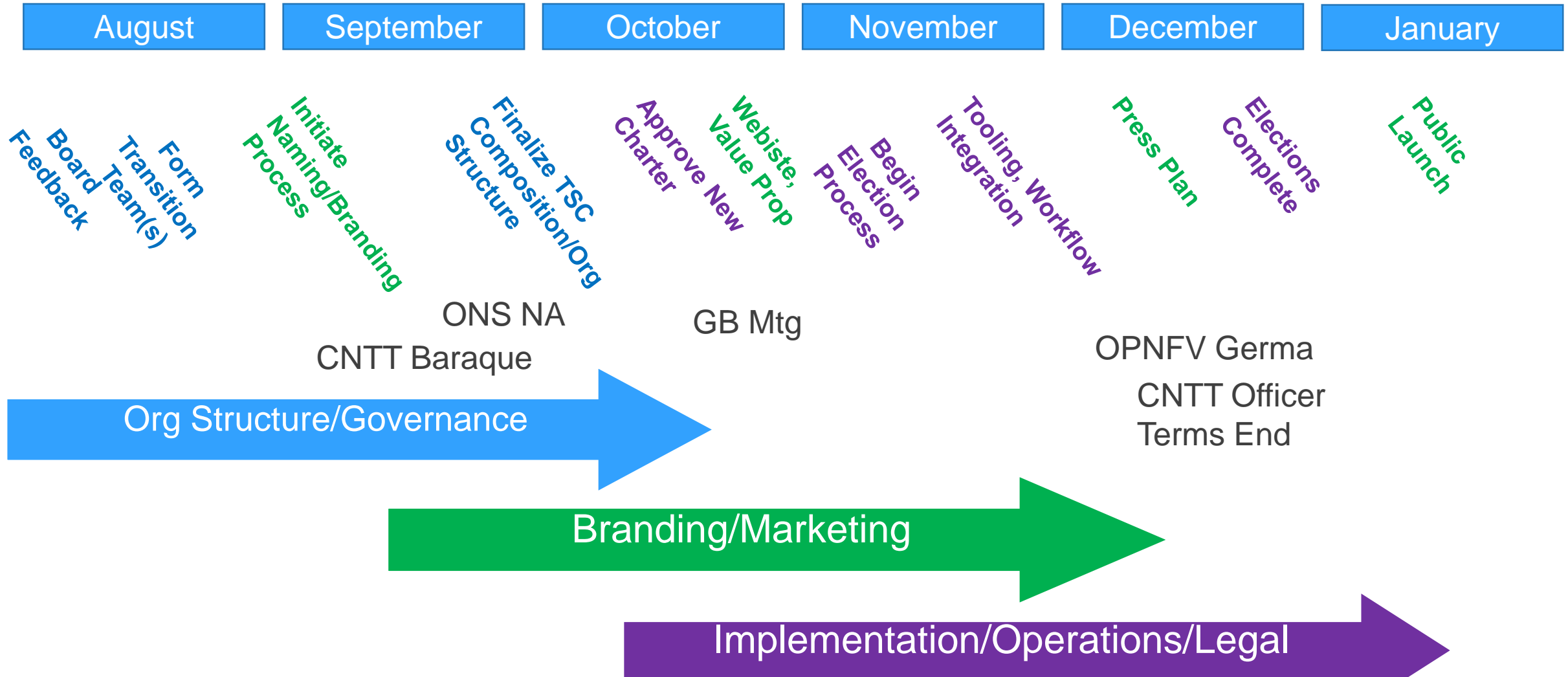


January 2020 LFN Prague Workshop

Outcome: a single organization where telcos work together with vendors and other interested organizations and individuals to define, implement and test the cloud architectures that fulfill the common requirements of telecom applications

A merger-reimagine of OPNFV/CNTT represents the best long-term home for CNTT work efforts. To be successful, it must be built together by both communities.

Transition Roadmap



MORE INFORMATION | QUICK REFERENCE GUIDE

Tracks | Repositories | Mailing Lists | Meeting Schedules | Contacts

Common NFVI Telco Taskforce (CNTT)

Home Page: [CNTT Home](#)

Meeting Schedules | Zoom Bridge | Minutes: [Common NFVI Meeting Information](#)

Governance

Communications, Budgets, Marketing, Recruiting, Adoption, and Release Planning

Repository: [Governance](#)

Mailing List: [Join Governance Mailing List](#)

Quick Reference Guide

Tracks | Repositories | Mailing Lists | Meeting Schedules | Contacts

[CNTT Quick Reference Guide v2 \(2020-02-14\).pdf](#)

[CNTT Structure Questions as of 2019 10 11 1900 UTC FINAL.pdf](#)

Reference Model

Framework to drive continuity of Reference Architectures for NFVI

Repository: [Reference Model](#)

Mailing List: [Join Reference Model Mailing List](#)

Mailing List: [Join Technical Steering Committee Mailing List](#)

Reference Architectures

Discrete NFVI specifications based on the Reference Model

Repository: [Reference Architecture](#)

Mailing List: [Join Reference Architecture Mailing List](#)

Reference Implementation

Implement & deploy based on the design & configurations of each Reference Architecture

Repository: [Reference Implementation](#)

Project Proposal: [CNTT RI OPNFV Project \(Approved\)](#)

Mailing List: [Join Reference Implementation Mailing List](#)

Whitepaper

Developed by the CNTT community, this [whitepaper](#) gives an overview of the framework; reference models, architecture, implementation, and conformance; future roadmap, and how to get involved.

Document Repositories

Github: <https://github.com/cntt-n/CNTT/wiki>

Read the Docs: <https://cntt.readthedocs.io/en/latest/>