Common NFVI Telco Taskforce

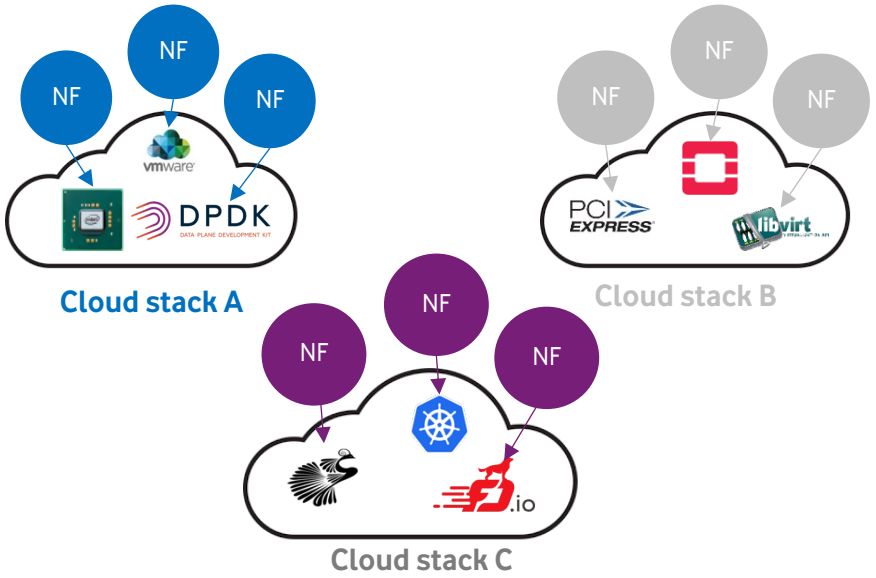
Introduction

25th Oct 2019

THE LINUX FOUNDATION

GSMA

CNTT | Problem Statement



Many combinations

=

⚠ silo deployments ⚠

NF Vendor A

NF Vendor B

NF Vendor C

Cloud native VNFs

Infrastructure Abstraction

(Common Shared Infrastructure)

- ✓ Reduced TCO
- ✓ Consistent Operating Model
- ✓ Better Utilized Infrastructure
- ✓ Scalable
- ✓ Easy to automate
- ✓ Unified Verification and Testing

CNTT | Common NFVI Telco Task Force (CNTT)

COMMON NFVI TELCO TASKFORCE (CNTT)

MISSION

Establish NFVI Reference Model, Architectures, & NFVI | VNF Verification Lifecycle to reduce cost, time to market, & complexity of Telco operations for the benefit of the broader community

COMMON NFVI TELCO TASKFORCE (CNTT)

VALUE STREAMS

GLOBAL NFVI LIFECYCLE FRAMEWORK

Establish an open-sourced end-to-end ecosystem to deliver, maintain & continually improve the infrastructure delivery lifecycle

Status: In-Progress
(Target Delivery - 4/30/20)

REFERENCE MODEL

Develop a framework to drive continuity of Reference Architectures for NFVI

Status: Complete (Botrange – 9/19/19)

REFERENCE ARCHITECTURE

Design number of discrete NFVI specifications based on the Reference Model

Status: Complete
(Botrange RA # 1 – 9/19/19)

REFERENCE IMPLEMENTATION

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

Status: In-Progress
(Target Delivery – January 2020)

VERIFICATION & VALIDATION

Deliver compliant NFVI against a physical manifestation of Reference Architectures

Status: In-Progress
(Target Delivery – March 2020)

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CNTT Overview

SPONSORSHIP

Reference Model hosted by GSMA

Reference Architectures (TBD)

Reference Implementations & VNF Verification hosted by OPNFV

Developed in an open source community ecosystem for a common NFVI

OBJECTIVES

Single NFVI Reference Model and limited number of NFVI Reference Architectures & Implementations

Enhance OPNFV & CVC test ecosystem

Establish and sustain Global NFVI | VNF Certification Framework

ORGANIZE around NFVI and VNF verifications & validations

COLLABORATE on CNTT processes and governance structure

RALLY around GSMA and Linux Foundation Communities

DRIVE compatibility and reusability of standards & reference solutions

OUTCOMES

~ 5 Reference Architectures

Reference Implementation & Verification NVFI

Process for continuous improvement

Reduced total cost to operationalize VNFs

Reduced overall time to market

INDUSTRY BENEFITS

Simplify hardware & network infrastructure operations

Lower VNF onboarding costs

Accelerate NFVI | VNF product innovation & time-to-market

Simplify development & deployment of NFV infrastructure

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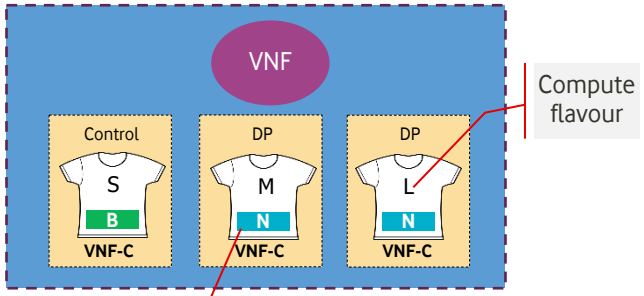
CNTT | Expected Outcome

VNF Vendor

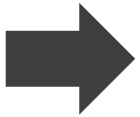


NFVI Vendor

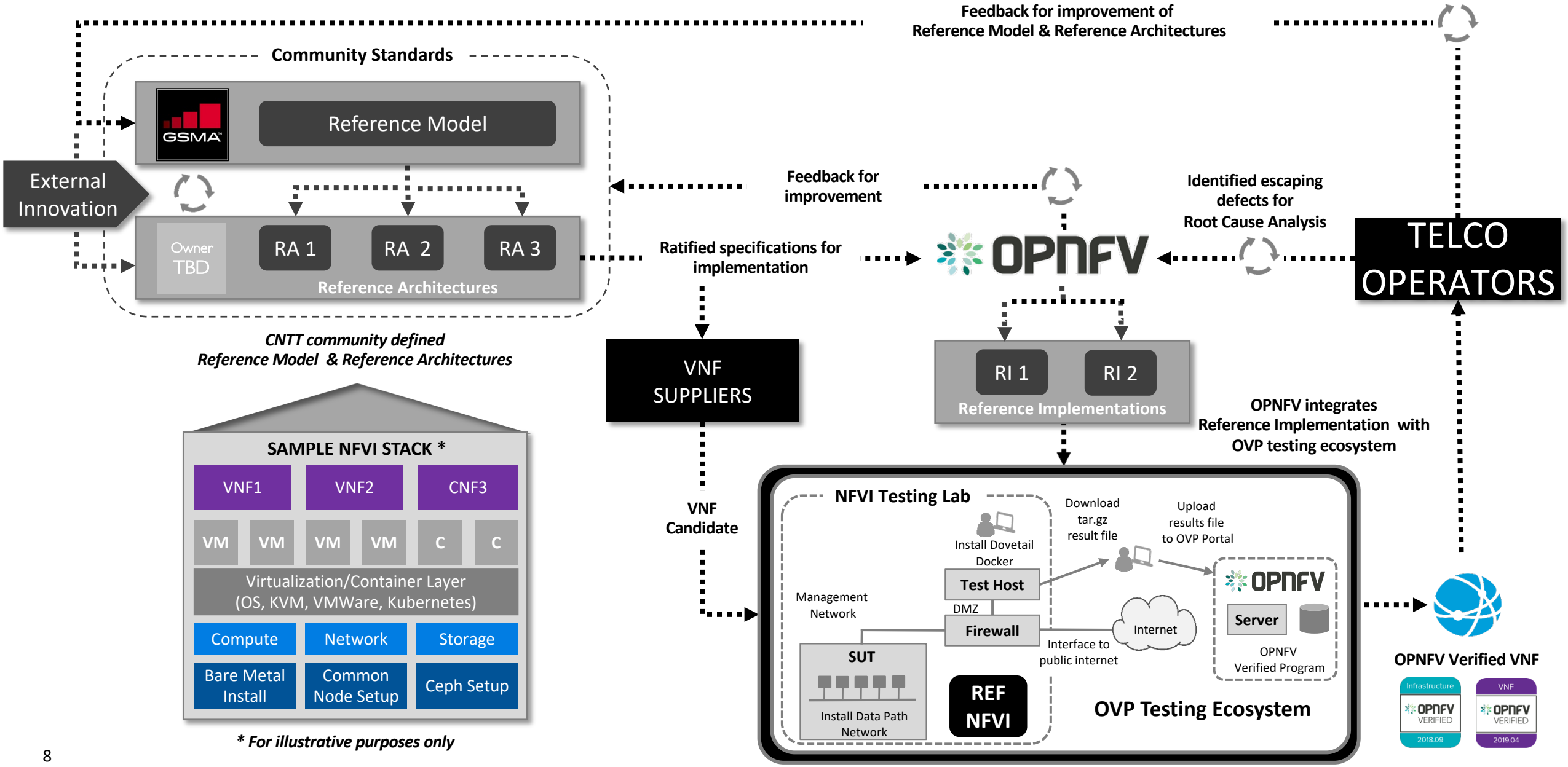
Vendor B NFVI Implementation

NFVI Vendor

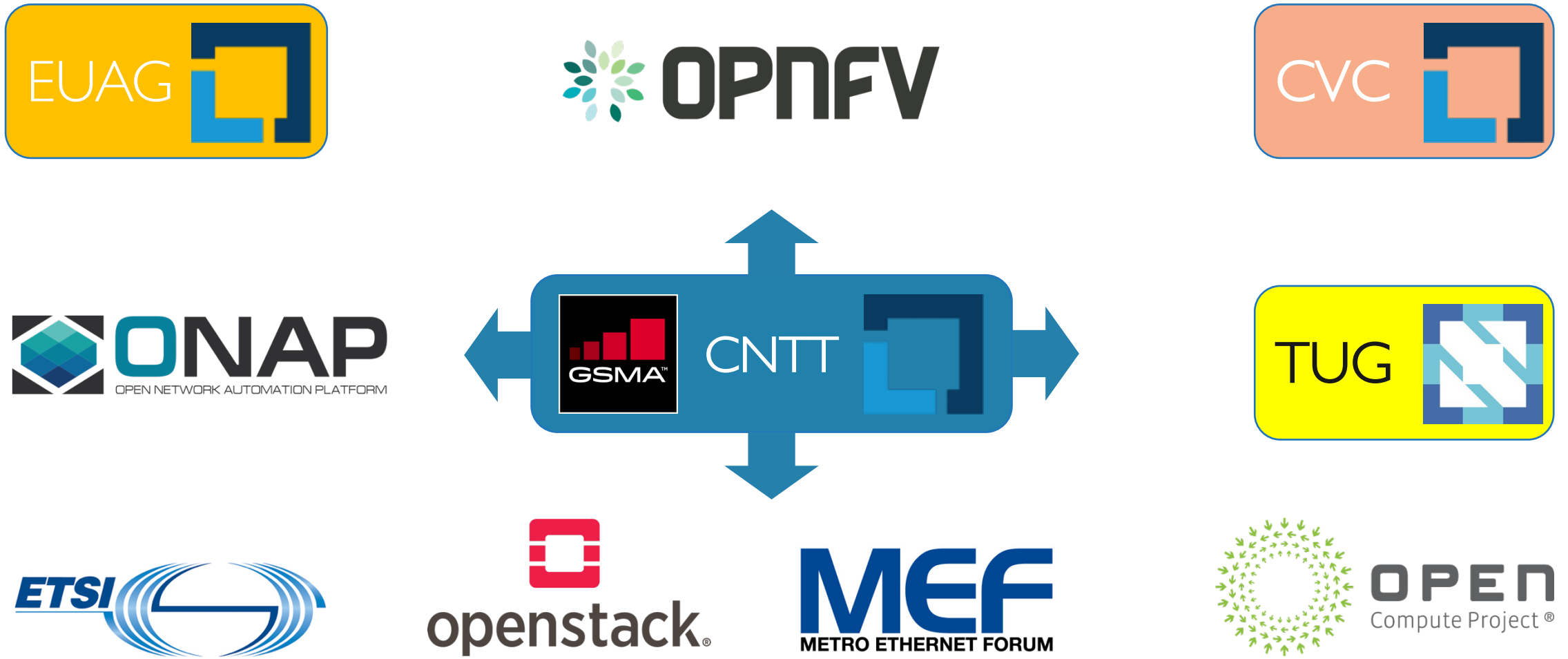
Vendor A NFVI Implementation



COMMON NFVI LIFECYCLE FRAMEWORK



CNTT | Relationship to other communities



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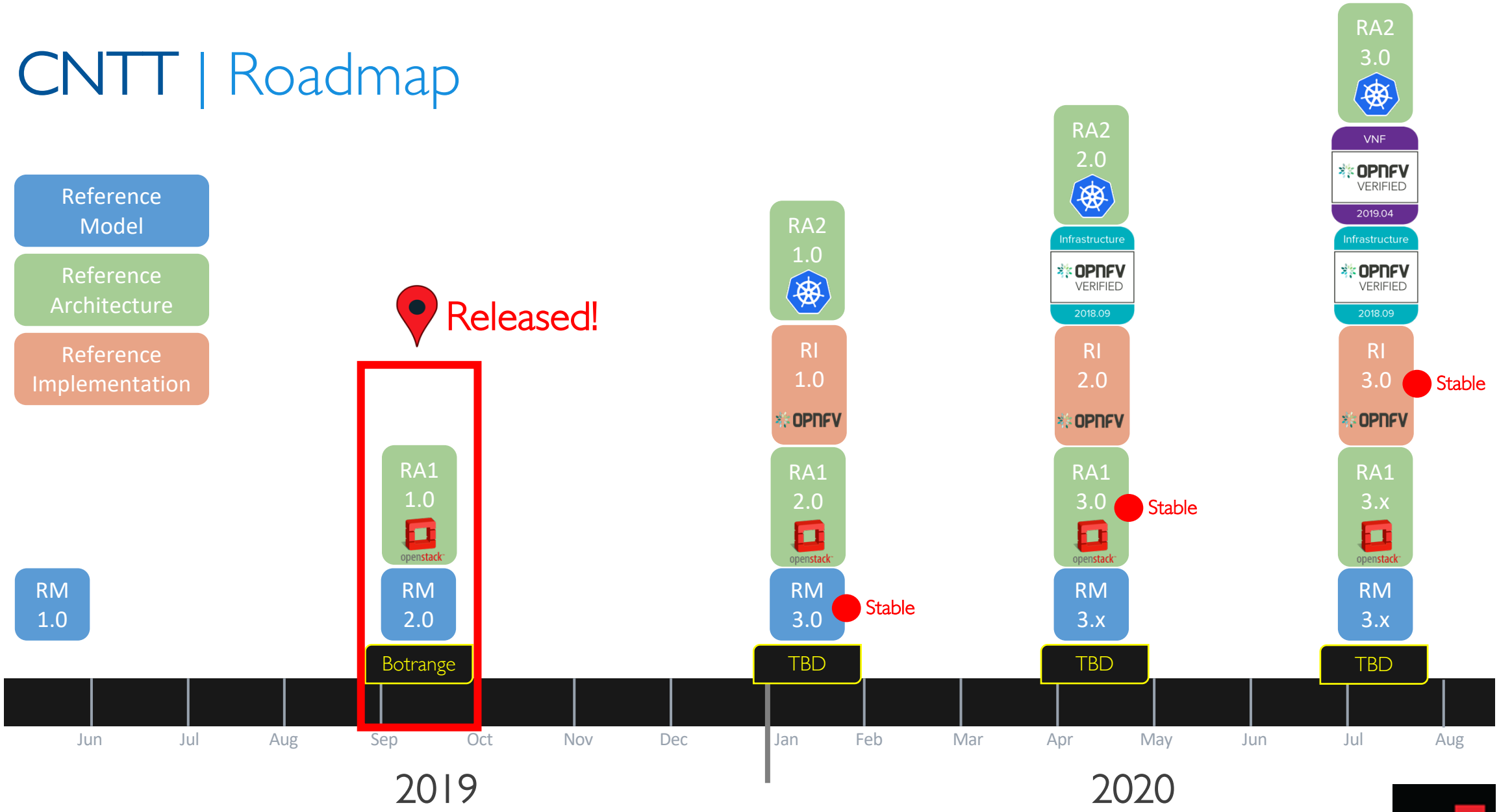
CNTT | Roadmap



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CNTT | How to Contribute

GitHub

https://github.com/cntt-n/CNTT

https://cntt-n.github.io/CNTT/

https://github.com/cntt-n/CNTT/wiki

Reference Model **RM**	https://github.com/cntt-n/CNTT/tree/master/doc/ref_model
Reference Architecture **RA**	https://github.com/cntt-n/CNTT/tree/master/doc/ref_arch
Reference Implementation **RI**	https://github.com/cntt-n/CNTT/tree/master/doc/ref_impl
Reference Certification **RC**	https://github.com/cntt-n/CNTT/tree/master/doc/ref_cert