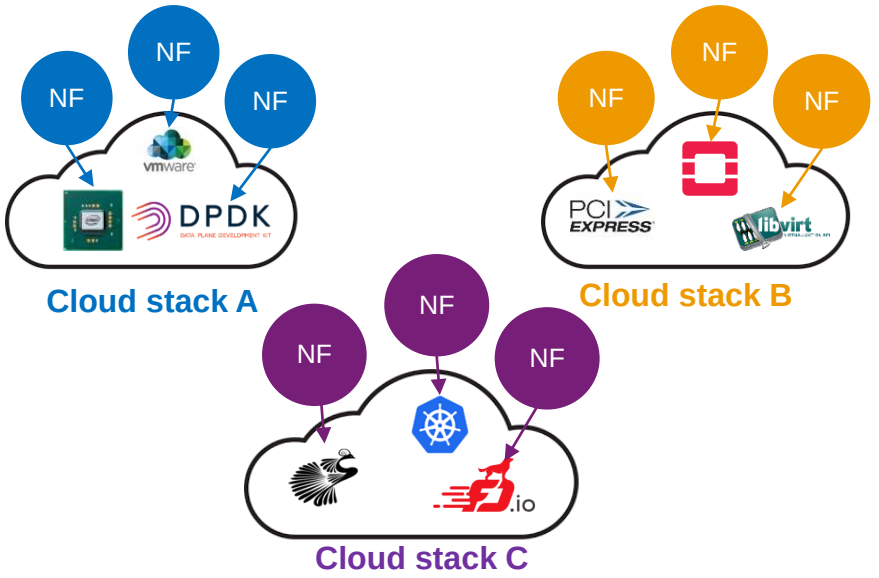
The Journey to Anuket and Beyond...

Ask Me Anything!

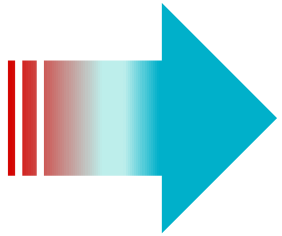
Problem Statement



Many combinations

=

⚠silo deployments⚠



NF Vendor A

NF Vendor B

NF Vendor C

Cloud native VNFs

Infrastructure Abstraction

Abstraction

(Common Shared Infrastructure)

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

Meld Options

Presentation to LFN Board

Date August 19, 2020

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Decision Making Guiding Principles

- Enable and encourage the widest input from operators and vendors into CNTT work to ensure the operator community vision is fulfilled
- Create a sustainable resource model for implementation work
- Reduce disruption and ensure continuity of work
- Ensure alignment between architecture/requirements work and engineering work
- Create a sustainable and transparent funding and resourcing model for CNTT activities
- 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
  - May not solve long term issues/Could be a short-term state.
- **As a Project**
  - Completely independent from OPNFV
  - Solves staff & financial issues over time (no staff or $$ support while in Sandbox)
  - Most difficult to implement
  - Could create
- **Merger/Reimagine OPNFV-CNTT**
  - Equal partner approach
  - Potential rebranding opportunity
  - Mid level difficulty to implement
    - Must build new team structure
  - Leverages most of the work already produced

FM0 Process Consensus - Merger-Reimagine

Consensus reached by majority of the FM0 work stream:

A merger-reimagine of 0PNFV/CNTT represents the best long-term home for CNTT work efforts. To be successful, it must be a merger of equal communities.

CNTT-OPNFV Merger/Re-imagining

- **Full Merger of equal communities**:
  - a "Re-imagining" that produces a project where both communities are needed for success.
- **Merger 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
- **Name of Merged organization**: Community and Board input is needed
  - Create a new name for the merged organization, or
  - Find a way to keep existing organization names
- OPNFV Release process already allows for frequent project self-releases, so any CNTT release schedule can be accommodated.
- Ensure all leadership needs and project activities are covered in the organizational structure
  - New TSC Elections and Officers as organizations combine, see timeline
- New Structures can be accommodated by mutual agreement

Definition of Work Product and Interfaces

Two focus areas: requirements and development/implementation focused projects.

- Work Products
  - Requirement projects
    - reference model, reference architectures, reference conformance specifications
    - Reference model is Jointly approved by GSMA
  - Implementation projects
    - infrastructure, test cases, tooling guided by specifications released by requirements projects
    - development to support LFN OVP badging programs
    - many existing
- Dependencies and Relationships
  - Upstream projects and communities: OpenStack, CNCF, LFN, ETSI NFV, IETF, others (Continue "Working Upstream")
  - The merger option simplifies the relationship with GSMA.

Timeframe

- Factors:
  - Governing Board Decision in October 2020 on Fully-fleshed-out plan
    - Ideally, announcement at ONS = late Sept 2020
  - OPNFV JERMA meta-Release Calendar: December 2020
  - CNTT Baraque Release in September 2020
  - Current CNTT officer term ends in December 2020
  - Intermediate tasks to flesh-out post GB decision:
    - such as the structure of the new organization
  - Nomination periods and Elections take about 6 weeks - propose to start the Election Calendar in Nov 2020
  - NewName selection: Community and Marketing
- Estimate: New project in operation in January 2021.

Mission Statement

- Empower the global communications community by creating and developing reference cloud infrastructure models, architectures, conformance programs and tools to deliver network services faster, more reliably, and securely.

A True Collaboration, with Benefits for All

Scope

- Alignment on reference model, architecture and implementation requirements
- Supporting open source and open standards communities
- Integrated, tested, and validated open software reference infrastructure
- Conformance framework and validation programs
- Contributing to and influencing upstream projects
- Creating new open source components within the reference infrastructure where needed

Business Benefits

- Simplify operator operations
- Increase technology adoption velocity
- Reduce complexity
- More efficient use of ecosystem resources
- Allow competition to focus on features and services
- Fosters cross community collaboration with other standards bodies such as GSMA and ETSI

What's in it for the Community?

Network Operators

- Reduced Complexity
- Limit number of infrastructure platforms
- Reduced capital expenses
- Faster buildout intervals
- More efficient operations
- Simpler RFP processes

NFV Vendors

- Reduced development costs,
- Faster testing intervals
- Simplified sales cycles
- Ability to differentiate on value added features
- Reduced resources need to support multiple infrastructure platforms

Infrastructure Vendors

- Reduced development costs,
- Simpler and faster testing
- Streamlined sales cycles with both operators and Network Function Vendors
- Conformance allows differentiation on value added features

Project Work streams

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- Business Requirements
- Operational Requirements
- Technology Requirements

- Code Implementing and Testing Requirements
- Upstream Code Collaboration
- Conformance and Performance Testing

Partners

ETSI

GSMA

3GPP A GLOBAL INITIATIVE

CLOUD NATIVE COMPUTING FOUNDATION

ONAP OPEN NETWORK AUTOMATION PLATFORM

Reference Model

GSMA

Reference Architecture

RA1

RA2

Reference Implementation

Community Labs

Installers

"Feature" Projects

CI/CD

Reference Conformance

X-Testing

Functest

VSPerf

NFV Bench

StorePerf

Sample VNF

Compliance & Verification

Governance

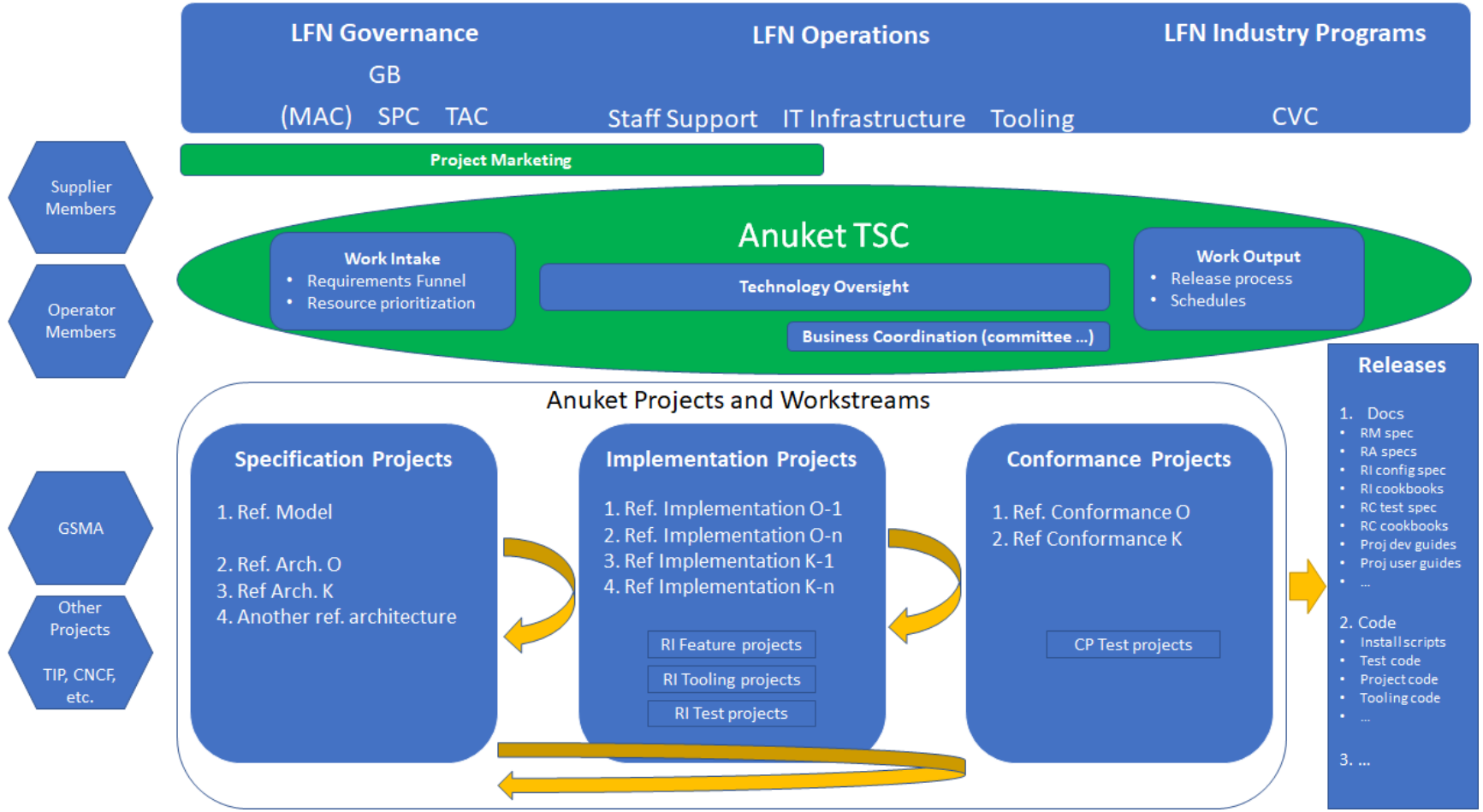
Process

Portal

Badging

Anuket Organization

- A meld of the best from CNTT and OPNFV
- Operators and Vendors working on a common goal
- Architects and Developers working together
- Supports an E2E approach to Infrastructure for NFV applications



COMMUNITY

Note: View includes observers, supporters, & contributors

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How to Contribute

- https://wiki.anuket.io/display/HOME/Getting+Started – Getting Started
- https://wiki.anuket.io/display/HOME/About+Anuket – Anuket Wiki
- Mailing Lists
  - Technical Steering Committee (TSC): https://lists.anuket.io/g/anuket-tsc
  - Technical Discussions: https://lists.anuket.io/g/anuket-tech-discuss
  - Reference Model: https://lists.anuket.io/g/rm
  - Reference Architecture for virtualized NFVI (RA1): https://lists.anuket.io/g/ra1
  - Reference Architecture for Cloud Native: https://lists.anuket.io/g/ra2
  - Reference Implementation for Cloud Native (RI2): https://lists.anuket.io/g/ri2
  - Marketing Working Group: anuket-marketing@lists.anuket.io


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