CNTT
Release and Lifecycle Planning

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Operation Definition:
What is a Reference Implementation?

Characteristics of a Reference Implementation:

1. Developed concurrently with the specification and test suite;
2. Verifies that specification is implementable;
3. Enables the test suite to be tested;
4. Serves as a Gold Standard against which other implementations can be measured;
5. Helps to clarify the intent of the specification in situations where conformance tests are inadequate[2]

Taken from: https://en.wikipedia.org/wiki/Reference_implementation

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"Begin with the End in Mind" (Stephen Covey)

Reduce cost/time for carrier deployment of NVFI/VNFs.

- › Accelerate VNF qualification
  - › LaaS - how many flavors can we support for turn-key qualification?
- › Enable commercial NFVI suppliers
  - › Parallel development - CNTT partners use internal test resources to provide acceptance testing of a RI_candidate until tests get upstream into OPNFV
  - › LTS support providers are the commercial NFVI suppliers
- › Manage upstream partners via OPNFV CI/CD
  - › Identifying/resolving defects throughout all major components in RI
  - › Reducing the test burden for all participants in the value-chain

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How many RIs to test within OPNFV?

3 types of instances (B,N,C)

4 sizes (S, M, L, XL)

2 virtualization platforms (OpenStack/Kubernetes)

2 distinct version (current + previous releases)

48 permutations

       BEFORE considering multiple RAs, underlying processesor types, HW architectures, upstream component versions, optional accelerators, etc.

OPNFV capabilities supporting CNTT RI

Today

› Release oriented process flow
› Target major release cadence - every 6mo + minor in 6w
› Support life: Most recent release until next major release
  › Minor releases instead of patches
› 2 (multi-arch) OPNFV versions supported per release

CNTT would like:

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When reality conflicts with grand designs

› While CNTT maybe a transitory taskforce, the requirements and needs for alignment persists beyond the life of the taskforce

› Recommendations:
  › OPNFV project is the working body for delivering CNTT specified RIs, get involved.
  › The LFN End User Advisory Group (EUAG) exists for network operators to advise the board and projects within LFN - use this as the continuing "guiding hand" for the CNTT RM/RA ambitions

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Thank You for Engaging in the Discussion!