### LFN CVC | Vision

### **Compliance Program for VNFs**



Standards /

Requirements

#### **VNF** Compliance

Check against existing VNF standards such as:

- ONAP VNFRQTS
- ETSI NFV
- **>** ...
- Operator specific requirements.

#### **VNF** Validation

Validation tests for VNF running against various profiles. (LCM, Health, etc)

- OpenStack
- VMWare
- Kubernettes
- etc

#### **VNF Performance**

Performance tests for VNF running against a given Infrastructure profile

- Profile A
- Profile B
- Profile C

#### **Testing/ Certification Tools**

Tooling to allow test cases to run and results to be submitted to a repository.

Unified repository for both VNFs and NFVI.

### **Certification Process**

**VNFs** 

NFVI

### **NFVI Compliance**

Check against existing NFVI standards such as:

- ETSI NFV
- ➢ GSMA

#### **NFVI Validation**

Validation tests for VFVI

- OpenStack
- VMWare
- Kubernettes
- ➤ etc

#### **NFVI Performance**

Performance tests for NFVI against given Infrastructure profile

- Profile A
- Profile B
- Profile C

## Unified VNF/NFVI Certification Repository/Portal

VNFs NFVI

√ Compliance A

X Compliance B

X Compliance B

X Compliance B

√ Validation A

X Validation B

√ Performance A

**X** Performance B

**X** Compliance B

✓ Validation A✗ Validation B

√ Performance A

✓ Performance B



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# Compliance Program for VNFs



- Announce at ONS'19 3-5 April
- TSC approval 3/??

- VNF Compliance Program (Badge)
  - For VNF Packages based on HEAT Templates
    - 185 reqts, 183 test scripts from VVP project
  - For VNF Package based on TOSCA CSAR/VFD
    - 26 reqts, ~30 test scripts from VNFSDK project
- Web front end based on OPNFV Dovetail/ OVP
  - Provide public listing of certified products
- Certification launch aiming for April 2019
- Future updates based on ONAP releases and other projects (think interop)
  - PNF Packages, additional reqts, etc.
  - Future releases will extend testing focus to include life-cycle and VNF operation