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 reqts covered in 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