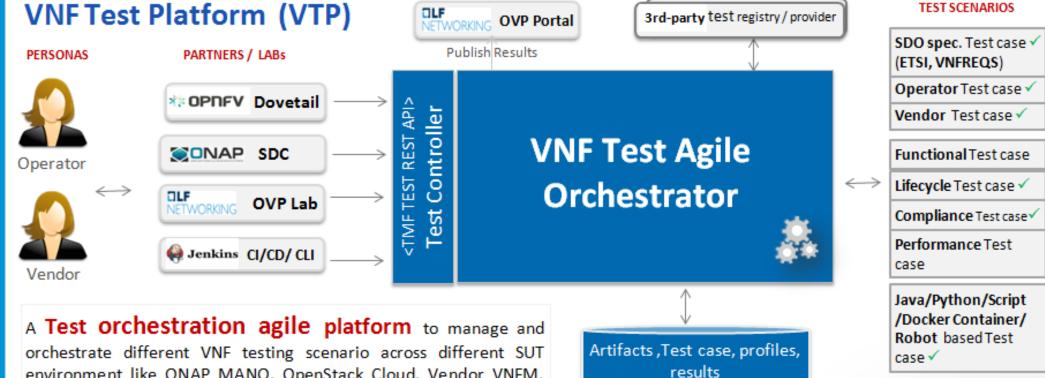


VNT Test Platform OVP, TMF, ONAP perspectives

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environment like ONAP MANO, OpenStack Cloud, Vendor VNFM, SDN Controller, Kubernetes docker, etc under one umbrella across

Programming Interface

✓ Provides REST API over HTTP(s)

√Role-based Access control

User Interface

✓ Web Portal

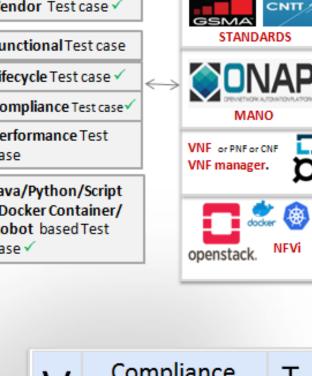
√Command Line Interface (CLI)

Test case Modeling & Standardization Test case management Test orchestration System Under Test (SUT) management

THE LINUX FOUNDATION

different Test providers and partner labs.





ENVIRONMENT

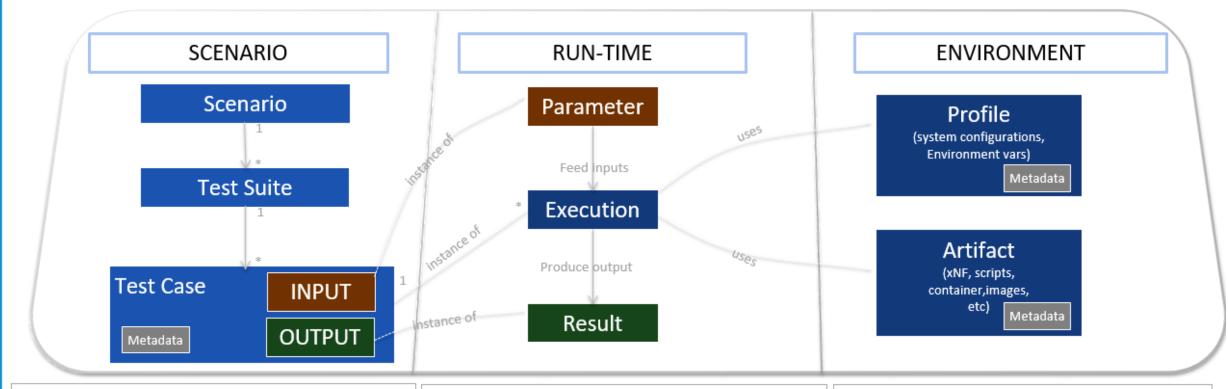
TOSCA

HEAT

Compliance Verification Validation Performance Benchmark

- Easy Extensible for testing CNF and PNF-

VTP: Domain model



- √Scenario is an logical entity to model any given situations for which test cases are made, ex: LFN OVP, vendor specific, functionality specific.
- √Test suites is an logical entity helps to group the tests into hierarchy with the notation x.y.z.
- √Test case models the given real test case with required Inputs and Outputs.
- ✓ Execution models every execution of given test case with unique identifier
- √ Parameter is instance of Test case inputs, given by user
 while executing the test case
- √ Result is instance of Test case output, produced by VTP as part of Execution
- √While execution, user could use Profile and Artifacts

- ✓ **Profile** models the System configurations and Pre-defined test case parameters. Ex: GSMA profile, OpenStack environment details, etc
- ✓ **Artifact** models the given binaries of any nature like VNF, Scripts, configuration files, certificates, etc
- ✓ Metadata models tagging to support searching of test execution

✓ Test case results are searchable based on artifact, profile, scenario, test-case, metadata as VTP captures every test case execution with parameters and results.

VNF Test Platform (VTP) – VNF testing @ different phases

Certification (Badging) Time

- **+Vendor** wants to get certification for VNFs (TOSCA & HEAT) by compliance, verification, validation and performance
- +As part of OVP, LFN wants single project from ONAP to perform VNF certification testing

Design Time

- +Operator wants to check the Operator's specific VSP compliance check when VNF is on-boarded in **SDC**
- +Operator wants to design the service testing, similar to service design to enable service verification at run-time

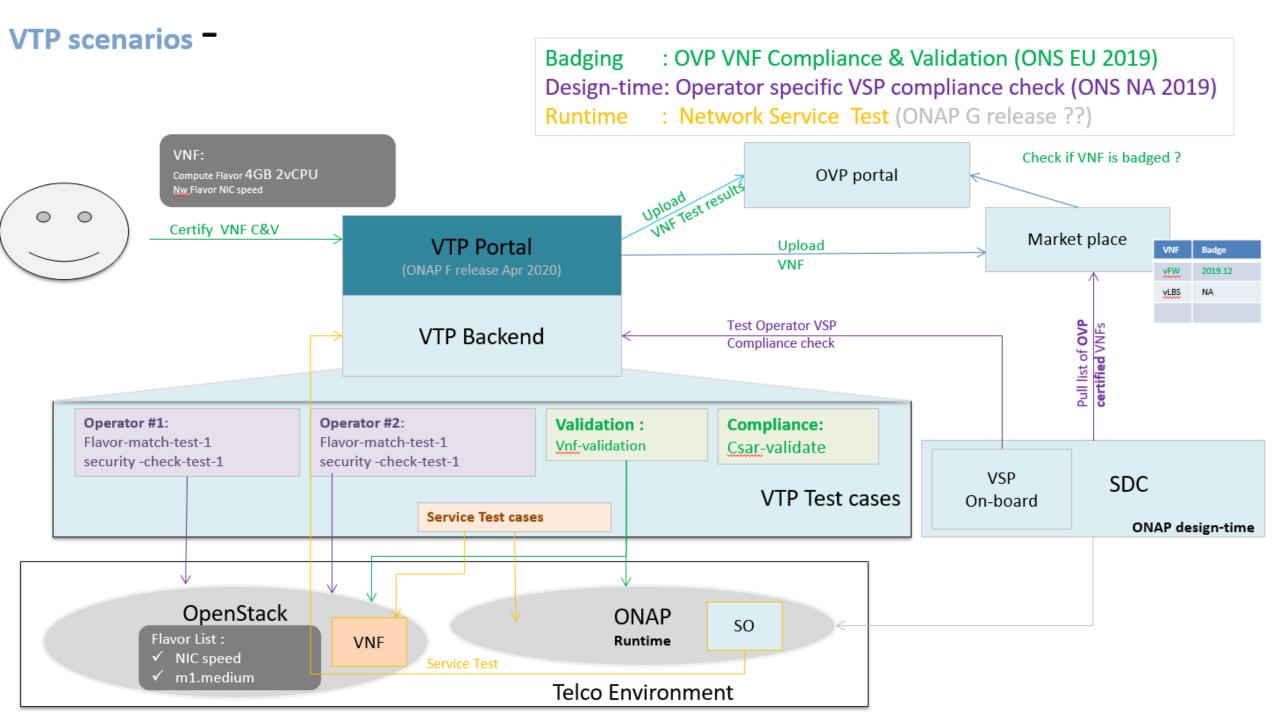
Run Time

- +On every service instantiation, operators want to verify the network service before activating for the consumer. (passive testing) thru SO/VFC
- **+Operators** want to check the SLA of service on need basis (active testing)

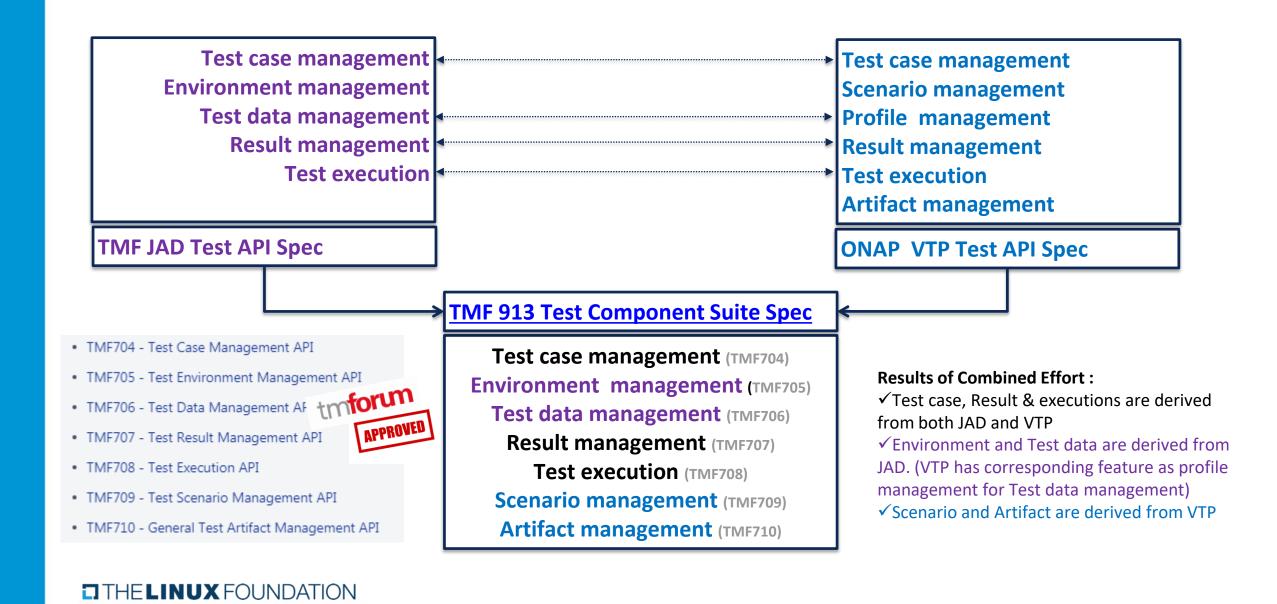
VNF Test Platform (VTP)

VNFSDK – TOSCA compliance test cases | **VVP**– HOT compliance test cases

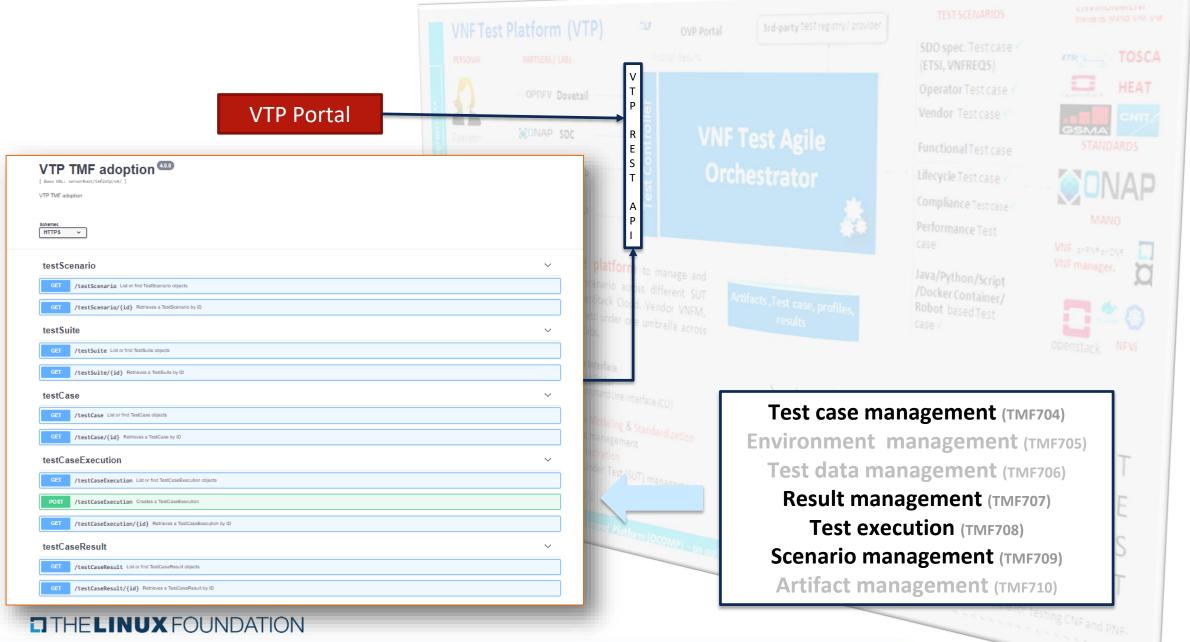
CLI/Integration — TOSCA/HOT verification test cases



TMF Test component Suite API: Collaboration of TMF Test API & ONAP VTP API



Adoption of TMF API in VTP Frankfurt





Thank you