

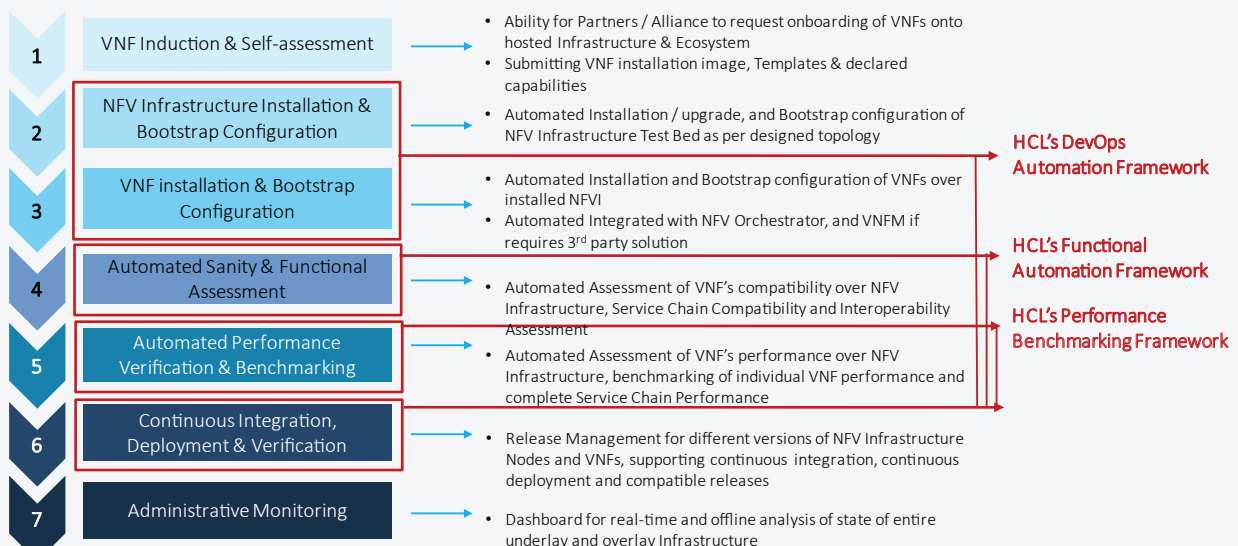
NFV ONBOARDING AUTOMATION FRAMEWORK

A customizable and extensible set of frameworks to provide automated onboarding and interoperability evaluation capabilities for NFV

BUSINESS REQUIREMENTS FOR NFV ONBOARDING & INTEROPERABILITY

- Primary Challenge in NFV deployment today is to establish pre-deployment validation methodologies for carrying out Compatibility and interoperability check for VNFs in particular NFV Infrastructure
- Test scenarios shall assess various combinations of VNF & NFVI Configuration, Data plane, Control plane and Management plane functionalities, calibrating against different types of demand raised from the network based on traffic conditions, subscriber usage, failover scenarios, live migrations, reliability, SLAs and Service Quality Requirements
- An Automation Framework shall assist carrying out the Tests on important pre-deployment aspects with lesser operational overhead, Acceleration and Better Time To Market; and can provide test metrics with cost, profitability and quality indicators for actual deployment
- The 'Agility' for new services roll out & assurance can't be fulfilled without a robust Network DevOps methodology for underlay & overlay NFV Infrastructure
- DevOps methods need to lead tighter integration of IT Operations for Virtualized Services – need of the hour to operationalize NFV deployment

POSITIONING OF HCL'S FRAMEWORKS



FRAMEWORK OVERVIEW

DevOps Automation Framework for NFV Test Setup & Provisioning

- Framework for NFV Lab Topology Designing
- Automated Bare metal Installation of Underlay Infrastructure & Bootstrap Configuration
- Automated Overlay Infrastructure Installation & Bootstrap Configuration

NFV Functional Automation Framework

- Automation Framework to address functional evaluation of Inbound, Outbound and integrated functioning of VNFs
- Framework with integrated Test Analytics capability
- Integrated with Robot Framework with provisions for creating cross-device test scenario scripts

Automation for NFV Performance Benchmarking

- Automation Framework for Black-box Performance Benchmarking
- Automation to instigate Operational Variations
- Framework to collect, consolidate, and analyze supplementary data for white-box assessment

HCL VALUE ADD

- Time to Market Benefits
 - Accelerated Methodology for evaluating multi-party Interoperability
 - Leveraging Reusable Frameworks with 360o Engineering Ownership Capability
- Reduced Total Cost of Ownership
 - Readiness for Outsourced Engineering Project through Investments in Process Automation
 - Flexibility in business models for Engineering Services, Customization, Integration and Professional Services
- Subject Matter Expertise
 - SME Pool of Practitioners & Architects
 - Readiness to work as Client Extended R&D Team through Investments in Engineering Skill Development Methodologies



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