



## NFV Service Assurance and Monitoring



Comprehensive Service Assurance Platform for SLA measurement, diagnostics and network monitoring in NFV environments.

### KEY FEATURES

- Physical and virtual test probes
- Support for industry standard hypervisors
- OpenStack™ integrated
- Aligned with ETSI MANO & MEF LSO

### SLA MEASUREMENT & DIAGNOSTICS

- Benchmarking services
- Bandwidth profile testing
- On-demand diagnostics
- Performance measurement with real-time applications

### KEY BENEFITS

- Quick scale up/down of test environment with software probes
- Reduce CAPEX by utilizing COTS hardware
- Lower OPEX with on-demand diagnostics
- Enhance customer experience with superior measurement and monitoring capabilities

### NETWORK MONITORING

- VNF level traffic monitoring
- 100% visibility of E/W & N/S traffic
- On-demand and continuous monitoring
- Support for Local/Remote Traffic Collection - VLAN/VxLAN/GRE
- Interworks with existing physical network monitoring

### APPLICATIONS

- Business Services, Mobile backhaul
- Access, Metro and Core
- Wholesale Interconnect



**Veryx SAMTEST** is a comprehensive solution that addresses various aspects of NFV service assurance and management across the life cycle of business critical services delivered using NFV, Cloud and SDN-based infrastructure. Figure 1 depicts SAMTEST solution installed within the MEF LSO / ETSI MANO framework. SAMTEST supports benchmarking of NFV architecture in lab, on-field pre-deployment verification, service activation, monitoring, on-demand measurement and trouble shooting.

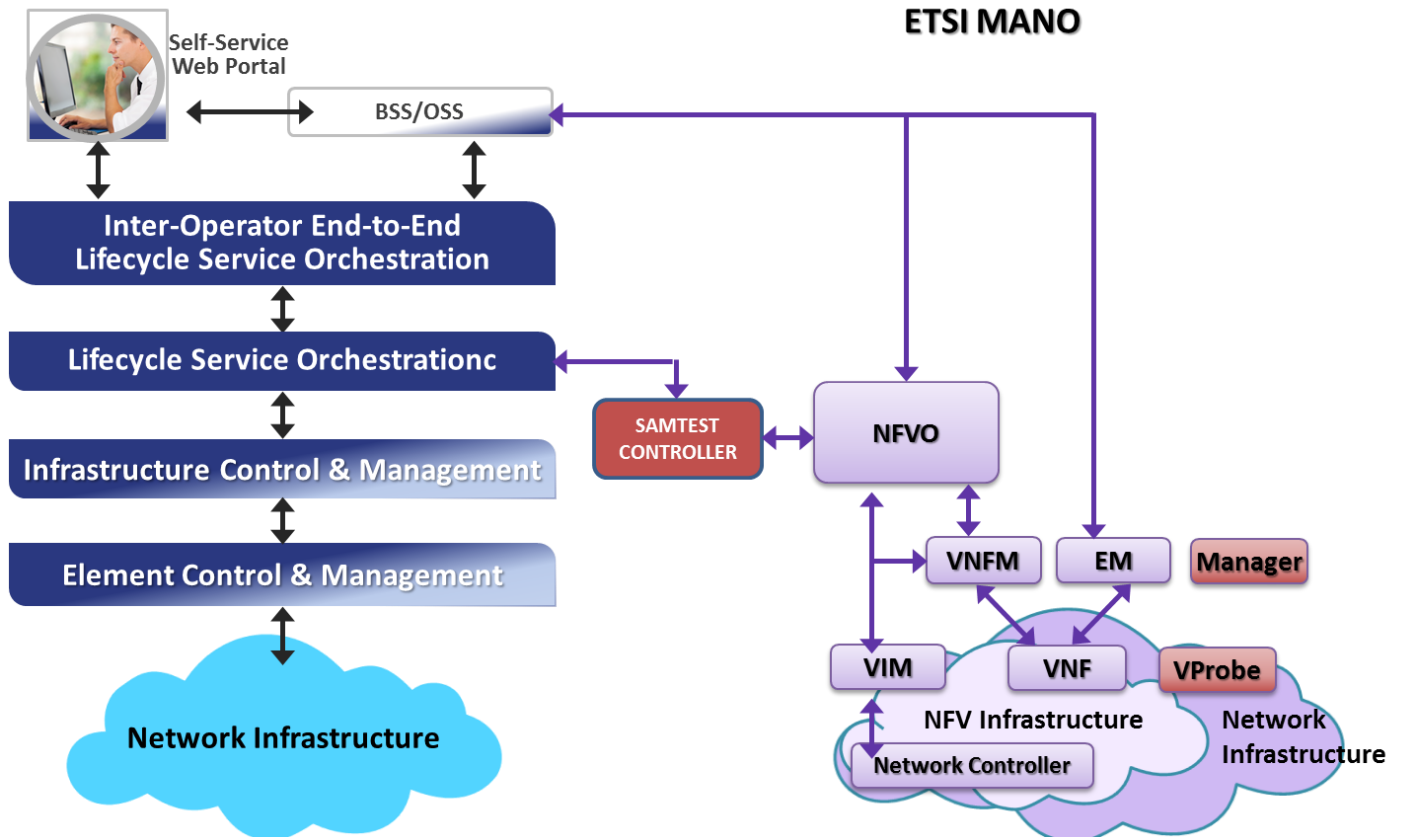


Figure 1: SAMTEST in LSO-MANO

**SAMTEST – NFV Service Testing** helps service providers to measure key performance indicators and troubleshoot the service degradation. With SAMTEST, service providers can measure various performance metrics including bandwidth, frame delay (FD), frame delay variation (FDV) and frame loss ratio (FLR), utilizing physical or virtual probes. Further, SAMTEST workflow provides automated service turn-up testing and generates birth certificate reports encompassing range of pre-built standards-based test scenarios covering 802.1 ag, Y.1731, Y.1564, RFC 2544 and CE 2.0.

**SAMTEST – NFV Network Monitoring** provides complete visibility of traffic into virtual network infrastructure, thereby helps service providers to detect potential network problems before they impact the network performance. As a result, they can not only measure these metrics, but also have the capability to diagnose potential bottlenecks and failures in service delivery.

## Usage Scenarios

**Pre-deployment Validation:** In this scenario, a service provider can validate the NFV-based network service offerings. Pre-deployment validation can be achieved utilizing physical probes or virtual probes or a combination of both. Service providers can validate SLA metrics leveraging multiple features such as bandwidth profile test. In addition, the performance can also be determined using live application servers. Figure 2 shows a sample pre-deployment validation of an EPL service.

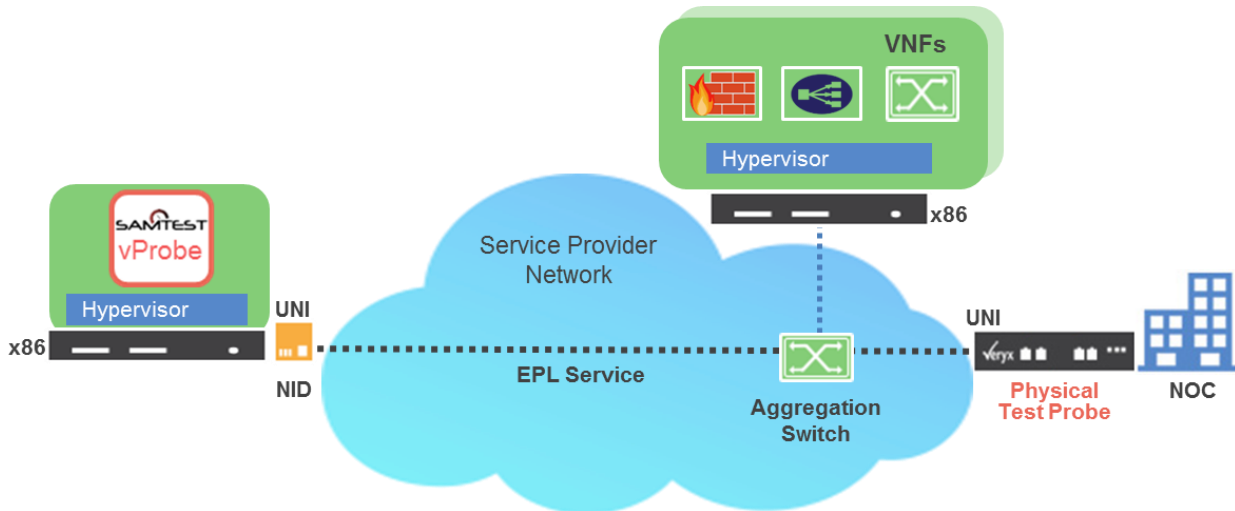


Figure 2: Pre-deployment validation of an EPL Service

**Diagnostics:** SAMTEST provides on-demand diagnostic capabilities both during pre-deployment validation and live deployment. Figure 3 depicts a diagnostics scenario for determining NFV latency.

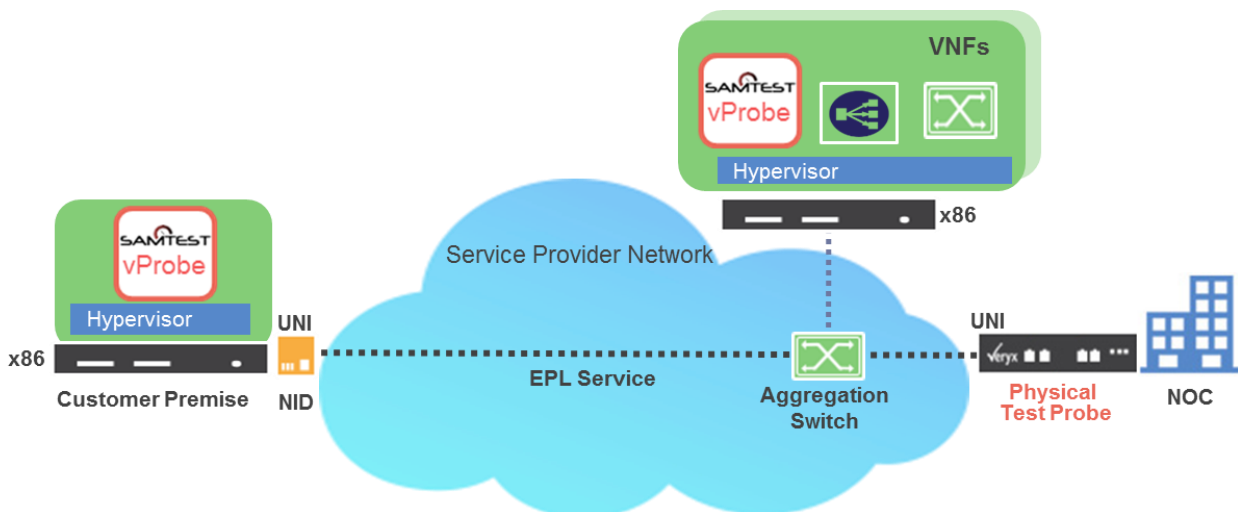


Figure 3: Diagnostics - NFV latency

**Passive Network Monitoring:** This feature provides traffic visibility in virtual network infrastructures. It allows users to identify and isolate potential threats and issues that affect performance. Figure 4 shows a passive network monitoring scenario.

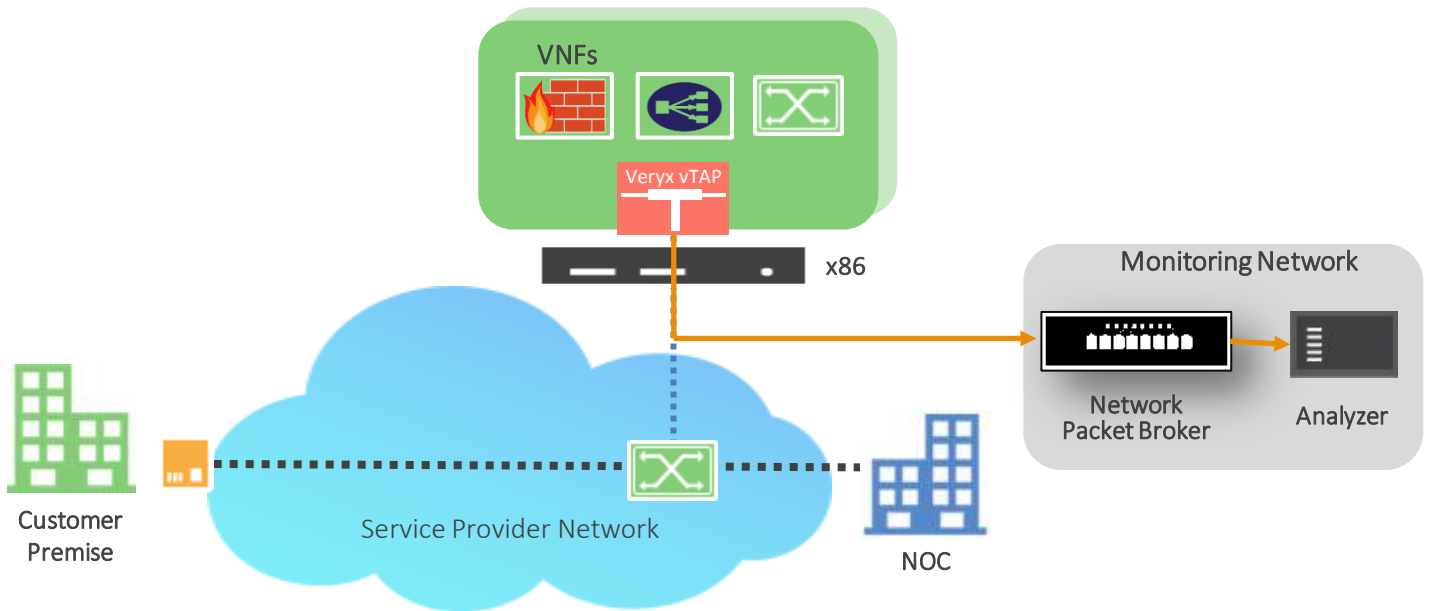


Figure 4: Passive Network Monitoring using Verity vTAP

## PARTNERSHIPS



### About Verity Technologies

Verity Technologies is a provider of innovative testing, monitoring and visibility solutions for network service providers, cloud service providers, data centers, Enterprise IT and network equipment vendors. Verity offers solutions for network testing, performance monitoring and equipment testing applications for technologies such as Carrier Ethernet, IP, Cloud, SDN, NFV and Smart Networks.

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