

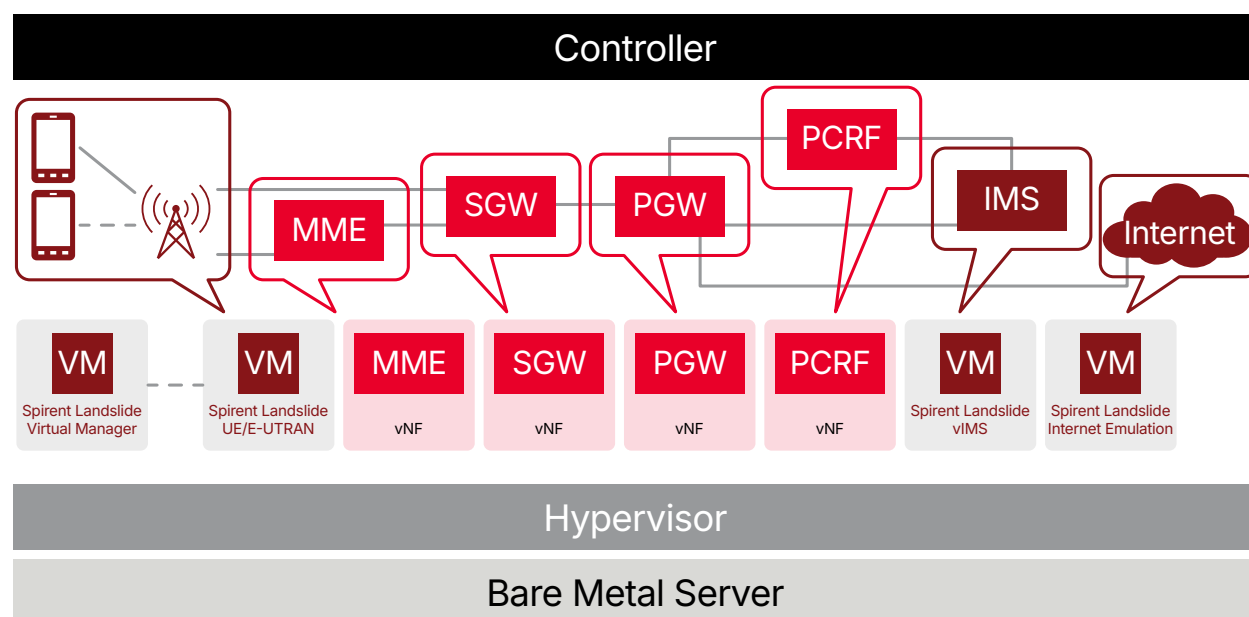
Landslide Virtual

Functional and Performance Testing for Mobile, Wi-Fi, IMS, and Diameter Networks

Overview

Keysight's Landslide Virtual emulates the control and data traffic of mobile subscribers moving through the network while using carrier and OTT services.

The solution incorporates a complete suite of Mobile Core, Diameter, IMS, and Wi-Fi network nodes and interfaces. This enables complete end-to-end network validation or isolation of virtualized EPC, Wi-Fi controller, and Authentication, Authorization, and Accounting, Policy, and charging functions. Keysight's Landslide Virtual offers maximum testing capabilities and performance with a minimal virtual footprint.



Primary Test Cases

Keysight Landslide Virtual's unique testing methodologies combine sets of node emulators and end-to-end test cases to offer service providers and equipment vendors a fully controlled test environment to:

- Validate system scalability and identify capacity limits
- Measure control plane capacity
- Stress data plane performance
- Perform Intra-LTE and I-RAT mobility testing
- Characterize system before trial/delivery
- Identify performance ceilings
- Analyze impact of Busy Hour Call Modeling that includes Mobility to/from LTE, GSM, UMTS, eHRPD, and Wi-Fi networks

Features

- Total coverage for control and data plane testing from Layer 2 to 7
- Comprehensive testing of Mobile, Wi-Fi, IMS, and Diameter interfaces and nodes
- High performance VM for throughput validation of Gateway VNFs
- Full integration with the Landslide GUI, automation, and hardware platforms
- Supports RESTful API and HEAT templates for orchestrated deployment and control

Benefits

- Equip R&D engineers with a complete virtual environment for continuous integration/DevOps
- Isolate Network Functions to validate functionality and performance
- Verify end to-end service chain functionality and performance
- Validate services with real world call models and measure Quality of Experience KPIs

Special Use Cases

The fully virtualized version of Keysight Landslide allows Carriers and NEMs to expand testing in areas such as:

Use Case 1: Orchestrated Test

- Landslide becomes a 'tenant' in the virtual network
- REST-API controls test sessions and handles reporting back to the MANO
- VM auto-scaling and migration

Use Case 2: Portability

- Landslide Virtual on-boarded with customer's system under test (SUT)
- Quick turn up of demos, sanity checks and active testing Manager Virtual

Use Case 3: vEPC Resiliency

- Landslide Virtual simulates link and node failures
- Emulates Redundant and load balancing Nodes and vNFs

Use Case 4: vNF Sandbox

- Sandbox ('virtual lab network'): Landslide emulates all nodes in the RAN and Mobile Core Network as modules
- SUT vNFs replace Landslide modules for quick functional validation of protocols, network elements, and service chains

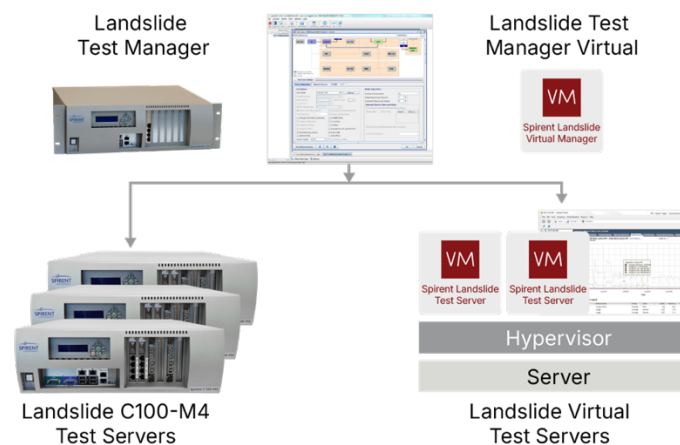


Figure 1. Chart displaying Landslide Virtual use cases

Technical Specification

Supported Hypervisors		VMware ESXi, QEMU/KVM, XEN	
Packaging		vmdk, qcow2	
Orchestration		VMware, Openstack	
Max Test Servers Per Manager	Hardware C50 L-C50-S4-MGR	2 Physical C50 TS + 10 Virtual Small TS + 4 Virtual Large TS	
	Hardware C100 L-C100-S4-MGR	32 Physical Test Servers or 64 Virtual Test Servers	
	Virtual C50 L-C50-MGR-VTAS	2 Physical C50 TS + 10 Virtual Small TS + 4 Virtual Large TS	
	Virtual C100 L-C100-MGR-VTAS	32 Physical Test Servers or 64 Virtual Test Servers	
Virtual Test Server Max Scale	L-S1-VTS (Small)	1,000 UEs	
	L-L1-VTS (Large)	100,000 UEs	
	L-XL1-VTS (Extra Large)	400,000 UEs	
	L-XXL1-VTS (XX Large)	1,250,000 UEs	
High Performance VTS License L-FT-632-VTS		6 Core or 8 Core High Performance VM available for Large, Extra Large, and XX Large VMs	
VM Specification - CPU/Memory/Storage VM size determines #cores and memory; consult Installation Guide for exact configuration requirements		Virtual Test Manager	4 Cores @ 2 GHz / 24GB / 20GB
		Virtual Large TS	1 Cores @ 2 GHz / 16GB / 20GB
		Virtual Large TS DPDK	2 Cores @ 2 GHz / 16GB / 20GB
		Virtual Large TS HP	8 Cores @ 2 GHz / 16GB / 20GB
Automation		Tcl, RESTful API	

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.



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