

# SPIRENT LANDSLIDE

## PACKET DATA GATEWAY TEST APPLICATION

The advent of all IP networks—specifically Voice over IP (VoIP) and IMS—has led to the ability to move freely between cellular and WiFi networks while still maintaining application layer services. Now a mobile subscriber can start a cellular call on the way home from work and seamlessly switch to a WiFi network when entering the home, while still carrying on the same call.

To implement this functionality in a 3GPP network, a new network component known as the Packet Data Gateway (PDG) has been introduced. The PDG allows access to the 3GPP packet core and IMS networks via wireless access points. Spirent Communications' Landslide™ Packet Data Gateway test option, with the Dynamic IPSec option and Advanced Data application, allows testing in the lab for performance and accuracy of secure access to the 3GPP packet data core via the PDG. The Landslide also allows for modeling the customer experience for secure transmissions.

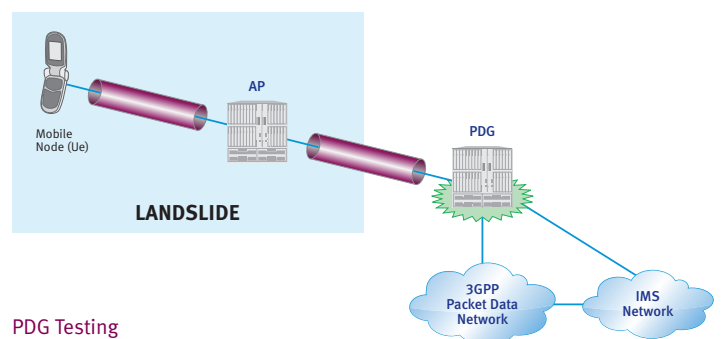
### APPLICATIONS

- Validate system scalability and identify capacity limits
- Measure call/data performance
- Characterize system before trial/delivery
- Identify performance ceilings
- Enable accurate capacity planning

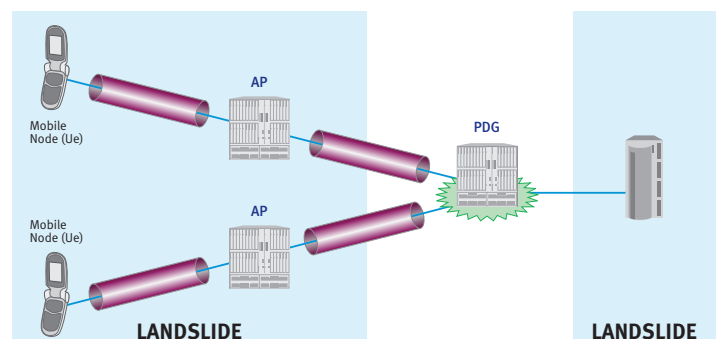
### FEATURES & BENEFITS

- TCL Interface allows the user to control/monitor the Landslide from a higher level management system, thus making it possible to compile specific test reports for both the emulation (Landslide) and the device under test
- Realistic, real-world simulations allow equipment vendors to accurately specify the performance characteristics of their equipment under real-world conditions
- Simultaneous control and user plane makes it easy for service providers to measure the performance of their network and to validate new features and services in the lab
- Unmatched scalability permits the user to simulate subscriber loads ranging from a small rural town to the largest metropolitan city
- Standard Web browser interface means there is no need to load software onto user equipment

- Emulation of multiple network elements allows the user to test in a variety of network topologies, providing more effective utilization of lab equipment and reducing capital expenditure and ongoing support costs associated with a test lab
- Automation control for the user to run many tests cases simultaneously or serially on multiple Landslide test servers, creating real-world scenarios for heavy load and long duration stability tests
- PDG Nodal Testing for the user to define mobile subscribers with secure access to a PDG
- PDG Mobility Testing so the user can test intra-PDG handoff scenarios



PDG Testing



MIP Mobility

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### TECHNICAL SPECIFICATIONS

- Test Activities
  - Capacity Test
  - Session Loading
  - Mobile Node Mobility (intra-PDG)
  - Session Loading with Mobility
- Landslide Manager
  - Up to 125 user accounts
  - Up to 48 simultaneous users
  - Up to 32 Landslide test appliances
- Landslide Test Server (without performance accelerator)
  - 200,000 simultaneous sessions
  - Up to 1.5 Gbps of bearer traffic
  - Activate/deactivate up to 200 sessions per second
  - Up to 3 simultaneous users per test appliance

- Landslide Test Server Ethernet ports
  - 4-port 10/100/1000Base-T NIC (P/N L-NIC-12)
  - 4-port 10/100/1000Base-SX NIC (P/N L-NIC-11)
  - Single-port 10 Gigabit XF SR NIC (P/N L-NIC-10)
- Physical Specifications
  - 3U, 19-inch rack-mount
  - 5.25" H x 16.53" W x 19.75" D
  - 31 lb. (14kg)
  - Operating environment: 5° C to 30° C
  - 100-240 V, 50/60 Hz, 6 A

### SPIRENT SERVICES

Spirent Global Services provides a variety of professional services, support services and education services—all focused on helping customers meet their complex testing and service assurance requirements. For more information, visit the Global Services' Website at [www.spirentcom.com/gs](http://www.spirentcom.com/gs) or contact your Spirent sales representative.

ORDERING INFORMATION	
DESCRIPTION	PART NUMBER
<b>WIFI CONVERGENCE TEST FEATURE</b> Adds the Packet Data Gateway (PDG) and the PDIF test capabilities to the Landslide IP Data Test System. Note: PDIF testing requires the MIP Performance Test application. S/N or MAC ID of existing Landslide Manager required.	L-FT-028
<b>LANDSLIDE IP DATA APPLICATION</b> Adds IP Data Application to an existing Landslide Test system. Serial number or MAC ID of existing Landslide Manager required.	L-APP-007
<b>DYNAMIC IPSEC EMULATION</b> Adds IPSec emulation to an existing Landslide Test System. IPSec accelerator must be ordered separately. Serial number or MAC ID of existing Landslide Manager required.	L-FT-004
<b>LANDSLIDE IPSEC ACCELERATOR CARDS</b> Provide hardware accelerated IPSec processing for Landslide Test Server. Requires L-FT-004 Dynamic IPSec Emulation feature. See sales rep for more information.	L-ACC-003 L-ACC-004
<b>DATA THROUGHPUT ACCELERATOR LICENSE</b> Improves test server data throughput for Landslide Test Applications. Price per test server. S/N or MAC ID required.	L-FT-032-A
<b>PERFORMANCE ACCELERATOR LICENSE</b> Improves test server data throughput and control plane performance for mobility test applications. Price per test server. S/N or MAC ID required.	L-FT-032-B

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