Spirent **Landslide**™ **C50**

Mobile Packet Core Performance Test System

The Landslide C50 is an ideal platform for testing Mobile Core, Wi-Fi, IMS and Diameter networks at the scale of tens of thousands of emulated users and Gigabytes of traffic.

Solution Overview

The Landslide C50 Test System provides all the functionality of more powerful Landslide platforms with data performance and UE/client scale designed to meet the requirements of small scale test beds and development environments. Further simplifying the test system configuration, the C50 combines the Landslide Test Manager and Test Server functions into a single appliance. It provides all the functionality required for testing individual network elements or end-to-end testing of Mobile Core, Wi-Fi, Diameter, and IMS networks. The complete set of Landslide test applications, node emulators and supporting features are available for the Landslide C50.

Network Equipment Developers

Network equipment developers can use Landslide's test applications for functional testing of network elements under development. In addition, node emulators can be used to provide a realistic test environment for more advanced testing during the development phase. Test scripts and automation created during development testing can be directly leveraged on larger and more powerful Landslide C100 Test Systems by regression teams.
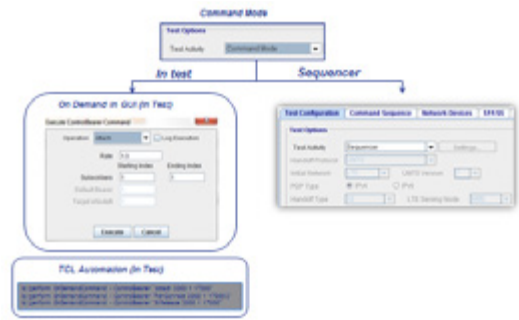
Network Operators

Service providers can use the C50 for equipment acceptance testing, service verification and call modeling, as well as many other applications. Spirent's Landslide is used by all major network equipment developers and testers. It provides the all-important third-party assurance of proper functionality prior to deployment. Whether it is confirming network element functionality or prototyping a new service, Spirent's Landslide enables operators to make the right decision with confidence.

Call Modeling with Command Mode

The Landslide C50 fully supports Spirent's powerful command mode sequencer as well as the TCL and RESTful API automation interfaces. Utilizing these capabilities the C50 can be used to implement the complex call models required for validating busy hour behavior.

Summary

For NEMs and operators Spirent Landslide provides the test tools to validate network and element functionality, scale and capacity and data performance. Busy hour call modeling and automation capabilities give testers and developers the assurance that test conditions and execution is dependable and reproducible, thus giving them the assurance and confidence that test results are correct time after time.

Technical Specifications

Spirent C50 S4 Landslide	
Dimensions	5.25" H x 16.75" W x 21" D Fits standard 19" rack 3U high
Weight	31 lbs / 14.05 kg
Operating Environment	0˚ C to 30˚ C
Non-operating Environment	-20˚ C to 70˚ C
Relative Humidity	10% to 70% RH, non-condensing
Power Requirements	100-240VAC, 50/60Hz, 600W
Regulatory Approvals	FCC Part 15 Class A EN 55032 Class A EN 55024 / CISPR 35: 2016 EN 60950

Client PC Requirements

The following are hardware requirements for the Landslide Client:

- The client hardware requirements are dependent on the system license and the testing activity. The recommended values are:

- 64-bit Operating System with 4 GB RAM and 1 GB memory assigned to client

- Minimum 10 GB available disk space

- 100 MB/1G Ethernet connection to the LAN

The following are software requirements for the Landslide Client:

- Test system web pages are best viewed with Internet Explorer 10+ and Firefox 30+

- JavaScript and Java Web Start must be enabled in the browser

- Popup blockers should be disabled before starting

- Cookies should be allowed if you want your memory settings to save

- Java™ Runtime Environment 1.8.0 (or later) is required for the Landslide Application

Ordering Information

The Spirent C50 Test system is composed of a C50-S4 appliance that hosts the test manager and a test server process. For end-to-end testing and applications requiring moderate capacity an add-on test server appliance can be added. Test port NICs must be purchased separately for C50-S4 appliances.

Landslide C50		
Part Number	**Product Name**	**Description**
L-C50-S4-SYS	Landslide C50-S4 Test System	C50-S4 appliance with combined test manager and test server software, requires NICs
L-C50-S4-TS	Landslide C50-S4 Add-on Test Server	C50-S4 appliance, an optional add-on test server for L-C50-S4-SYS, requires NICs
L-APP-020-C50	Landslide C50 LTE Gateway Test Application	For testing of SGW, PGW and combined GW
L-APP-021-C50	Landslide C50 LTE MME Test Application	For LTE MME and E2E ePC testing
L-APP-038-C50	Landslide C50 Wi-Fi OL GW Test Applicaiton	For testing for WoGW, includes WAN AP
L-APP-040-C50	Landslide C50 eMBMS Test Application	For testing of combined eMBMS-GW and BMSC
L-FT-035-C50	Landslide C50 LTE Core Emulation	Emulates MME, SGW and PGW as a single unit, provides S1-MME, S1-U and SGi interfaces
L-FT-49-C50	Landslide MME Command Mode Option	Tcl and GUI accessible on-demand procedure/call flow test activities for MMEs
Interface Modules		
L-NIC-31B	LANDSLIDE QUAD-PORT 1GBPS FIBER NIC	Quad-port Gigabit Ethernet fiber module. Maximum of 4 per Test Server
L-NIC-32B	LANDSLIDE QUAD-PORT 1GBPS COPPER NIC	Quad-port Gigabit Ethernet copper module. Maximum of 4 per Test Server
L-NIC-66	LANDSLIDE QUAD-PORT 10GBPS SFP+ NIC	Quad-port 10 GBPS SFP+. Includes four 10GBASE-SR 850nm MMF transceivers. Maximum of 2 per Test Server
Accelerator Module		
L-ACC-007	LANDSLIDE IPSEC SECURITY ADAPTOR	Landslide Basic IPsec Accelerator—adds hardware accelerated IPsec processing.

A full complement of test applications and features are available. Please contact your Spirent Sales Representative to select the right options for your testing needs.

Contact Us

For more information, call your Spirent sales representative or visit us on the Web at www.spirent.com/ContactSpirent.

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