



SPIRENT GLOBAL SERVICES

POSITIONING TECHNOLOGY

LIVE SKY DATA SETS WITH SUPPORT SERVICES

Evolving Environments and Positioning Testing Challenges. Lab testing of navigation solutions and services employs system simulation solutions such as Spirent's SimGEN™ and network simulators. These assessments concentrate on defined test scenario definitions translated into controllable, simulated signals which facilitate validation against exacting specifications. This testing phase is typically followed by live environment testing.

The live environment tests, however, are unique and not repeatable. Despite their additional cost to execute, their integral value cannot be underestimated since the real-world test conditions deliver data and reveal problems that may not be encountered in the lab. Repeatedly testing in the real-world environment is both expensive and time consuming, especially if multiple locations are involved. Time-to-market pressures and evolving customer demand dictate having the ability to test in the lab with data that closely matches real-world data, which increases lab test realism, therefore reducing cost and testing time.

THE SPIRENT SOLUTION

The Live Sky Data Sets option with Spirent Support Services is designed to provide all the live environment test data required to streamline your testing strategies and achieve optimal performance at lower cost.

Spirent's GSS6400 Record and Playback System captures real-world signals and allows them to be played back in the lab as required. Spirent's solution contains a comprehensive set of environmental capture data set samples—recorded at major locations worldwide—in challenging urban and suburban conditions. The data sets are updated annually to ensure that differences in satellite constellations and urban topography are captured.

GSS6400 data sets can be replayed as needed. This allows the customer's optimization or validation to be repeated on demand. Also the data sets are accompanied by "truth" position data, recorded using a high grade inertial aided receiver. Customers who need real-world samples, but do not have the resources or time to capture their own samples, can use these data sets to achieve maximum test coverage.

BENEFITS OF THE LIVE SKY DATA SETS IN COMBINATION WITH GSS6400

- No need to purchase expensive equipment to capture the data
- Reduced need to perform testing in the live environment
- Eliminates the need to invest time in recording scenarios
- Annually updated data sets ensure that differences in satellite constellations and urban settings are captured
- Shorter debug period
- Accurately characterize the performance of device under test using "truth" position data
- Data sets can be used and re-used by multiple users

The Bottom Line: Reduced overall cost and accelerated time-to-market



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COMPONENTS OF SUPPORT SERVICES WITH LIVE SKY DATA SETS

Spirent Premium Support delivers the right service components and representative data sets needed to help you maintain optimal utility of your testing device:

- **Live Data Sets Subscription:** (details right column)
- **Unlimited Technical Support:** Contact us by e-mail, phone or via our support web interface and our engineering team will respond from the Spirent support office nearest to you
- **Software upgrades:** Have 24/7 access to the most up-to-date software applicable to your device
- **Diagnostic support:** We work with you to diagnose faults with your testing device
- **Repair Service:** Repair or replace faulty devices at our factory or Spirent support center, 12-month warranty on all repairs
- **Customer Service Center (CSC):** Available 24/7, our online resources—including the state-of-the-art Knowledge Base (KB)—with information, advice, tools and access to downloads. Visit us at: <http://support.spirent.com/>
- **Priority Service:** Supported devices receive the highest and accelerated priority in our technical support and repair centers
- **Regular e-mail newsletter:** Receive updates on SW releases, application notes, tips, and related support information
- **Expert Advice:** With 25 years of experience in GPS/GNSS testing, our dedicated support engineering teams in Europe, Asia-Pacific and USA support you in your time zone

OUR CUSTOMERS

Spirent has been a pioneer since the advent of GNSS simulation and network testing, delivering services to customers across a broad range of global industries. These include global navigation satellite systems, aircraft and automotive manufacturers, as well as telecommunications and wireless service providers, network equipment manufacturers, petroleum, education, the media, financial institutions and stock exchanges, technology enterprises and publishing giants. Spirent also services governments worldwide, which includes military and space agency projects.

SPIRENT EXPERTISE

Spirent provides solutions for all major communications vendors. Our test methodology and automation experts include IETF engineers and RFC authors who developed many of the industry's benchmarks. They help define standards and performance tests for dozens of industry forums and standards bodies.

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LIVE SKY DATA SETS SUBSCRIPTION

- **Updated Data Sets:** Provided annually, updated data sets include routes with comprehensive validation by Spirent
- **Multiple Location Scenarios:** Five worldwide locations with challenging urban and suburban conditions included
- **Data Set Distribution:** Updated data set provided on HDD and are easily transferred into the test environment
- **Repeatable Reference Test Sets:** Reference Truth Data provided in time-stamped NMEA format, enabling real-time or post-processed results analysis
- **Trajectories:** Driving route through primary city center area (urban) and driving route in area near city (suburban)
- **Conditions:** Daylight hours on a dry day (for road safety and webcam clarity)
- **Traffic conditions:** Business traffic conditions (business hours weekday)
- **Effects:** The urban route will go through challenging urban canyon environments, with periods of high obscuration and multipath. The light urban route will drive through less challenging environments.
- **Locations:** London, Paris, Tokyo, New York and Singapore



(Locations may change in future offerings)

GSS6400 SUPPORT PLAN—OVERVIEW CHART

	Tech Support	Online Support	FW & HW Updates	HW Repair	Priority Response	Live Sky
Standard	✓	✓	✓	✓	✓	
Premium	✓	✓	✓	✓	✓	✓

SALES AND INFORMATION

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