

Custom GNSS Threat or Vulnerability Test Scenario Service

Problem

Threats to GPS and multi-GNSS systems are increasing and becoming more sophisticated. At the same time, GPS and other GNSS systems are being relied upon more for safety-related and commercially sensitive applications, such as autonomy and time synchronization.

To ensure the appropriate level of robustness and resilience in your receiver, system or application, it is necessary to test under controlled laboratory conditions against actual and/or predicted threats and vulnerability vectors.

It is often a non-trivial matter to generate a test scenario that represents a particular type of effect.

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In addition to the test scenario pack of GNSS threats and vulnerabilities, Spirent can also generate custom scenarios. These will typically be specific events of interest to you. Examples include:

- A specific type of event of interest across the range of threat and vulnerability types
- Specific interference signatures from interference probes, such as GSS200D, deployed on your site(s)
- Predicted types of interference that you would like to test against before they are widely in evidence in the field
- Spoofing attack vectors of interest or concern to you

Service Description

This service offers Spirent's expertise to build customer test scenarios that are of most interest for your specific test need.

This service is quoted on a case-by-case basis, based on specific requirements.

Spirent can either take your defined brief or requirement, or is available for a free-of-charge "discovery" stage to listen to your needs and offer expertise and advice on the best test approaches to meet your objectives.

Once the scope is clear, Spirent will be able to deliver a SOW (statement of work) including a costed technical proposal detailing the required scenarios and delivery time frame.

The test scenarios proposed will be designed to suit the simulation hardware and software that you have available. Some test approaches require specific simulation hardware and software. Where this is the case, this will be made clear in the technical proposal. Rental of equipment (as defined in the SOW) and/or temporary upgrades can bridge any gaps.

It is also possible for Spirent to run tests on your behalf. This service is generally offered at Spirent's services labs, and can optionally be offered at your premises.

Benefits and Value

- Creating meaningful test scenarios is often a complex task. This service provides access to Spirent's expertise based on 30+ years of GPS/GNSS testing
- Provides test scenarios of specific interest to your application
- Advice and help with testing is optionally available