GOST Scenario Set

Service Description

The test set consists of over 25 test scenarios covering a wide range of variations in constellation, environment (atmospheric effects), location, motion, obscuration, antenna pattern and interference as required by the GOST standard.

In order to run the scenarios Spirent's GNSS simulator GSS7000 or GSS9000, with GPS and GLONASS enabled, and software (SimGEN™, SimREPLAYplus™) is required. GSS7765 Interference System (compatible with SimGEN™) is needed to run interference test scenarios.

For a complete list and detail on test scenarios, please contact Spirent representative.

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Spirent's test scenario set for verifying compliance to the National Standard of the Russian Federation GOST R 55534-2013.

Problem

Like Europe's eCall emergency vehicle assistance initiative, the Russian Federation's forthcoming ERA-GLONASS initiative will rely on a combination of in-vehicle sensors, mobile communications networks and satellite positioning to provide rapid assistance to drivers in the event of an accident.

From 2016 onwards, all In-Vehicle Systems (IVS) in commercial freight and transport vehicles weighing over 2.5 tons must be ERA-GLONASS compliant if they are to operate within the Russian Federation. From 2017 onwards, IVS in all transportation vehicles of any weight must be compliant if they are to be sold or operated within Russian member states.

For manufacturers of in-vehicle emergency call systems, and auto makers integrating them, there are some stringent standards to meet in order to be certified ERA-GLONASS compliant. New guidelines from the Russian Federation specify the capabilities required of the positioning element of an ERA-GLONASS IVS, as well as the tests manufacturers must conduct in order to demonstrate conformity with the GOST R standard, which specifies different tests of the navigation and positioning element of the IVS.

The challenge for IVS manufacturers and integrators lies in creating a test bed to run all tests specified by GOST—from setting up the appropriate simulators and other test equipment, to writing the test scripts, running the tests on the IVS unit, and recording the results.

To do all this from scratch could take several weeks and potentially require the help of external specialists—which could tie up valuable engineering time and slow time to market.

Benefits and Value

With a complete ERA-GLONASS satellite positioning test package:

- Conduct all relevant GOST R 55534-2013 tests quickly and easily
- Performance testing : Apply the tests in a range of scenarios and challenging environments
- Thoroughly assess the impact of RF interference on ERA-GLONASS functionality
- Free up engineers' time for other essential work
- Accelerate ERA-GLONASS compliance for faster time to market

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