

FLYER

Test as a Service

From Spirent PNT Testing Services

Accelerate and de-risk your PNT testing

As vehicles and devices rely more heavily on accurate position, navigation and timing (PNT) information, rigorous and professional testing of GNSS-dependent systems is becoming ever more essential. Test as a Service from Spirent is designed to help you:



Meet delivery deadlines: by injecting expert engineers into your team to bridge resource gaps and integrate unique PNT expertise that speeds time to product delivery



Reduce test costs: by maximising use of lab-based testing, reducing costly and time-consuming field testing, and quickly deploying expertise across your PNT test regimen



De-risk product development: by ensuring you have high-calibre PNT test expertise and resources at your fingertips whenever your programme requires it

Use Case: Automotive

A Tier 1 supplier to the automotive industry needed specialist help with assuring the PNT capabilities and functional safety of a pioneering electronic control unit (ECU) for L3 and L4 automated vehicles.

Spirent test engineers worked side-by-side with the supplier's team for over eight months, managing PNT test strategy, scenario definition, scripting, test execution and analytics.

As a result, the supplier was able to get back on track to meet its OEM customer's Start of Production (SoP) deadlines.

How it works

One or more Spirent test engineers will work onsite with your lab team to set up, manage and conduct the PNT testing element of your overall test programme.

Depending on your requirements, Spirent can provide all or some elements of an end-to-end PNT test regimen:

- **Test strategy:** Defining a tailored testing approach and methodology that ensures your requirements are covered
- **Scenario definition:** Establishing the conditions the product may encounter in the real world and defining a comprehensive suite of test scenarios
- **Scenario creation:** Scripting real-world scenarios to evaluate the performance of the PNT solution in a wide range of operational conditions
- **Test execution:** Setting up and configuring your PNT test equipment and running the required tests
- **Test automation:** Implementing cutting-edge test automation, using tools including Spirent's PNT TestBench software
- **Test environment management:** Ensuring your PNT test environment is appropriately integrated and fully operational when you need it
- **Analytics and reporting:** Reporting test results according to your requirements, and deriving actionable insights from the test data to move your programme forwards

Each engagement is tailored to your requirements. It can be short-term to fulfil a specific need, or longer-term to manage and oversee a complete PNT test programme.

Why Spirent PNT Testing Services?

Spirent has spent over 30 years at the forefront of PNT, working with the defence, space, and commercial industry sectors to evaluate and test PNT solution performance.

Our test engineers and consultants have many years of professional test experience, combined with in-depth knowledge of PNT testing hardware and software. We can help you get started faster and make full use of Spirent's expertise to assure every aspect of your product's PNT capabilities.

Contact us to discuss your PNT test programme today.



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