

Your trusted PNT partner

Spirent are delighted to be participating in ION GNSS+ 2020 VIRTUAL, the world's largest technical meeting and showcase of GNSS technology, products and services. Below you can find a variety of materials on hot topics brought to you by the expert team within Spirent, plus key dates and times for your diary. Don't miss out!



Protect against the rising threat of PNT vulnerabilities

- 🔗 **Video:** How many GNSS vulnerabilities can you name?
- 🔗 **White paper:** Learn the fundamentals of GPS threats
- 🔗 **White paper:** GNSS Jamming: How to test the risks to safety-critical and liability-critical systems
- 🔗 **White paper:** Understand and learn how to mitigate the threats of spoofing
- 🔗 **Blog:** 'Circle spoofing' is on the rise
- 🔗 **Webinar:** GNSS Vulnerability Testing and the Controlled Reception Pattern Antenna (CRPA)

Achieve realism in CRPA testing with a zoned chamber approach

- 🔗 **Video:** Zoned chambers: Learn more about Spirent's patented over-the-air test solution
- 🔗 **Webinar:** GNSS Vulnerability Testing and the Controlled Reception Pattern Antenna (CRPA)
- 🔗 **White Paper:** How to test CRPAs and other advanced GNSS antenna designs

Enabling powerful sensor fusion

- 🔗 **Blog:** Self-driving vehicles require GNSS receiver developers to master sensor fusion testing

New products

SimIQ Software-in-the-Loop Solution

Shifting left: SimIQ enables developers to test software and models earlier in the design lifecycle, helping to deliver better products to market faster through the capture and replay of I/Q data files. [LEARN MORE](#)

SimHIL Integrated Hardware-in-the-Loop Testing

SimHIL delivers advanced sensor fusion testing within HIL test environments by bringing accurate, controlled and coherent GNSS and inertial simulation into the loop. [LEARN MORE](#)

New capabilities

GSS9000 Series GNSS Simulator

NEW advanced GSS9000 Series capabilities are landing in Q4 2020, delivering greater performance and features for high dynamic applications such as hypersonic and high-rate spinning vehicles. Find out more about the world's leading simulation platform here. [LEARN MORE](#)

GSS7000 GNSS Simulator

The most flexible simulation platform just got better. Delivering greater vulnerability testing, onboard interference adds powerful jamming capabilities to your existing hardware. Coupled with new licences for complex trajectory spoofing and satellite navigation data attacks, the GSS7000 is perfectly positioned to help you deliver robust and accurate products. [LEARN MORE](#)

Dates for your diary

During ION GNSS+ 2020

 **Technical paper:**

An Assessment of GNSS Receiver Behavior in Laboratory Conditions When Subject to GPS Meaconing or Spoofing Scenarios.

Authors: *Francesca Filippi, Mark Hunter, Guy Buesnel, Spirent Communications*

 **[Session B6, Friday, September 25, 2020](#)**

[Time: 1:45 PM - 4:50 PM CDT](#)

 **Technical paper:**

Simulating Realistic High Latitude Ionospheric Scintillation of GPS Signals for Robust PNT Testing.

Authors: *T. Pinto Jayawardena, C. N. Mitchell, R. Boyles, J. Bruno, K. Bolmgren, A.M. Ali, G. Buesnel, B. Forte and R. Watson, Spirent Communications*

 **[Session F3, Thursday, September 24, 2020](#)**

[Time: 8:30 AM - 12:15 PM CDT](#)

After ION GNSS+ 2020

 **Webinar:**

Title: GPS Program Updates and its Role in the SMC Space Enterprise Architecture

Host: *GPS World and Spirent Federal*

Date: Thursday, October 8th

Time: 1:00 PM - 2:00 PM EDT

REGISTER NOW

 **Webinar: [Save the date - registration opens soon!](#)**

Title: Improving Jamming and Spoofing Robustness with Multi-antenna GNSS Simulation

Host: *German Aerospace Center (DLR) and Spirent Communications*

Date: Wednesday, November 18th



Bookmark spirent.com/pnt to stay up-to-date with what's new in GNSS and additional PNT technologies

JUST BECAUSE IT'S VIRTUAL, DOESN'T MEAN IT CAN'T BE PERSONAL

Catch up with us during ION GNSS+ week!

Get in touch with Charlie for a conversation on all things GNSS and PNT.

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