Press Release

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New technology from Hexagon | NovAtel protects against interference, jamming and spoofing with advanced situational awareness

Hexagon | NovAtel launches GNSS Resilience and Integrity Technology (GRIT) to help users protect position, navigation and timing from advanced threats

(Calgary, Canada, November 10, 2020) – Hexagon | NovAtel introduces GNSS Resilience and Integrity Technology (GRIT), a suite of firmware features enabling trusted situational awareness and interference mitigation tools across applications and environments. As threats to assured positioning adapt, NovAtel has evolved its solutions to continue providing the most reliable, trustworthy and resilient position, navigation and timing (PNT) measurements possible.

For a resilient position with integrity, users must be able to identify when something is amiss. Available as a firmware option with NovAtel's latest 7.08.00 release, GRIT combines NovAtel's successful Interference Toolkit (ITK) with the power of spoofing detection. Also available in GRIT is an optional functionality enabling time-tagged snapshots of analog to digital samples. The time-tagged digitized RF data allows users to characterize the RF environment and develop their own interference location algorithms.

Through situational awareness techniques like spoofing detection, time-tagged data and interference mitigation such as anti-jam technology and digital filters, GRIT builds GNSS resiliency and integrity to better protect position, navigation and timing measurements. With these robust tools, GRIT joins NovAtel's industry-leading anti-jam technology, GAJT, in providing resilient, robust and trustworthy PNT protection.

"We've combined our world-class Interference Toolkit with new functionalities like time-tagged snapshots and spoofing detection to provide users with a comprehensive suite of mitigation tools," said Sandy Kennedy, VP of Innovation at Hexagon's Autonomy & Positioning division. "Expanding our protection portfolio through this firmware suite to prioritize situational awareness and mitigation for anti-jam and anti-spoofing techniques makes it easier than ever for users across any industry to achieve assured PNT. With GRIT's spoofing detection, opponents could try to spoof us. But, fool us? Not a chance."

GRIT is a non-controlled firmware-only solution resulting in easy-to-install functionality without the need for specific export licensing. It is available as a firmware upgrade for all NovAtel OEM7 receivers and ensures trustworthy position, navigation and time measurements through proven situational awareness and interference mitigation. To learn more, contact an authorized NovAtel sales representative or dealer, or visit novatel.com.

Download the GRIT media kit here.

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Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

NovAtel, part of Hexagon, is a global technology leader, pioneering end-to-end solutions for assured positioning for land, sea, and air. NovAtel designs, manufactures and sells high precision positioning technology developed for efficient and rapid integration. Its solutions are empowering intelligent positioning ecosystems in vital industries that depend on the ability to tackle the most complex challenges in the most demanding environments. Learn more at novatel.com.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.9bn EUR. Learn more at hexagon.com and follow us @HexagonAB.