BLUEBERRY INDUSTRIAL ETHERNET

OnTime Networks Adds Proprietary Anti-Spoofing to CM-1600 Network Time Server (IEEE 1588 PTP, NTP, IRIG, 1PPS, 10MHz) product lines

Dallas, TX Jan 24, 2017 – OnTime Networks, a global leader for rugged, time synchronized Ethernet solutions for the aerospace and defense industries, announced today the addition of advanced anti-spoofing technology to its Blueberry and Cloudberry CM-1600 NTS product lines. OnTime Networks' proprietary anti-spoofing algorithms and technology, which provides not only an alert that a GPS is been spoofed, but also the protection that the GPS timing signal is moved over to a highly stable free running clock, as long the detected GPS spoofing attack is in progress.

It is a known fact that GPS is vulnerable to attacks because of its low power and public known data structure. The normal citizen doesn't realize how much infrastructure is based on GPS and how vulnerable this infrastructure can be. Therefore it is important to protect GPS from all kinds of jamming and spoofing attacks, which can guarantee system stability during these attacks.

Øyvind Holmeide, President and CEO of OnTime Networks said, "Particularly vulnerable are power-grid systems, which are increasingly implementing GPS technology to more accurately meter allocations of electricity across the grid. Being a couple microseconds off of the real time might not sound like a big deal to the average consumer with a GPS car navigation system, but being even 10 microseconds off could cause power generators to shut down or get damaged."

OnTime Networks' new, proprietary anti-spoofing algorithms and technology provide spoofing attack detection and risk mitigation, enabling the Cloudberry or Blueberry CM-1600 NTS units to detect the difference between real satellite signals and spoofed signals. With the new technology, OnTime Networks is addressing the rapid growth in GPS sensor adoption and the rise in spoofing risk.

Please join us at DistribuTECH in Elma Electronic's booth 3710 to learn more about the new capabilities. To arrange a personal meeting, please contact your OnTime Networks or ELMA sales representative. http://www.ontimenet.com/contact

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Information on Spoofing

With spoofing the system does not know that it is being target and that the signal received from a GPS unit is wrong. In a spoofing attack someone creates a false GPS signal that passes as a real GPS signal, and an incorrect time or location appears on the intended receiver. This fake GPS signal looks exactly like a real GPS signal and normal systems do not have the ability to detect these sophisticated spoofs, as everything looks completely normal to them. Being a couple microseconds off of the real time might not sound like a big deal to the average consumer with a GPS car navigation system, but being even 10 microseconds off could cause power generators to shut down or get damaged.

Today's smart grids rely on precise timing information received from GPS in order to provide advanced information technology, power scheduling and control for utilities (Electricity, Gas and Water).

About OnTime Networks

OnTime Networks is a technology leader for rugged, time synchronized, fully managed, modular Gigabit Ethernet switches, specifically designed to operate reliably in the harsh and climatically demanding environments of the Aerospace and Defense Industry. Recognized for innovation and excellence, OnTime focuses on precise time over Ethernet according to IEEE 1588 (PTP) as core technology. For more information, please visit www.ontimenet.com.

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