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For Immediate Release

Nanotron's transceiver enables ISO compliant Real Time Locating Systems

Berlin, April 14th, 2010 – The International Organization for Standardization and the International Electrotechnical Commission (ISO/IEC) have recently published the new standard for Real Time Locating Systems (RTLS), ISO/IEC 24730-5:2010. The standard is based on Nanotron Technologies' Chirp Spread Spectrum (CSS) technology, which offers decisive benefits such as accurate location, reliable two-way data communication and low power consumption.

Nanotron Technologies' transceiver nanoLOC fulfills the CSS air interface specification of ISO/IEC 24730-5 and enables standard compliant systems.

ISO/IEC 24730 defines air interface protocols and an application programming interface (API) for real-time locating systems (RTLS). The ISO/IEC work group responsible for Real Time Locating Systems has recently published the 24730-5 standard.

ISO/IEC 24730-5:2010, as it is called correctly, defines an air interface protocol which utilizes chirp spread spectrum (CSS) at frequencies from 2.4 GHz to 2.483 GHz. It supports two-way ranging and bidirectional communication between readers and tags of an RTLS. The mandatory default mode ensures interoperability between tags and infrastructure from various manufacturers. At the same time several options available to the system developer allow adapting the overall solution to specific application needs.

The air interface protocol which is defined by ISO contains three layers: PHY, MAC and Tag Application Layer.

Nanotron Technologies has been actively engaged in the ISO/IEC work group (JTC1/SC31 WG5) since 2006 and will continue to work on the standardization of leading edge RTLS technologies. This way nanotron was able to ensure that its transceiver nanoLOC fulfills the CSS air interface specification of ISO 24730-5. All mandatory PHY and MAC features are implemented in hardware. The Tag Application Layer as the third layer is typically implemented in software.

Nanotron is committed to open industry standards, and offers total solutions encompassing chips, RF modules, locating software and development tools.

Nanotron's CEO Dr. Jens Albers says: "Key customers and partners worldwide are already working on Chirp-based RTLS products for various vertical markets. The new application standard is a further milestone towards a common RTLS platform with interoperable system components. Making their solutions ISO/IEC 24730-5 compliant helps nanotron's customers to expand into new markets and gain market share in their respective vertical."

About Nanotron Technologies

Nanotron provides reliable loss protection technology and solutions that are used to protect people and animals. Energy efficient, battery-powered wireless nodes are the key building blocks. These small devices create a Virtual Safety Zone which protects tagged people and animals. Robust wireless Chirp technology underpins nanotron's offering of chips, modules and loss protection software for indoor and outdoor environments world wide. The company is headquartered in Berlin, Germany.

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