

Green Hills Platform for Industrial Safety Provides Comprehensive Safety-Critical Software Development Solution for Safe Rail Transportation Applications

The Associated Press

Green Hills Software, Inc., the largest independent vendor of embedded software solutions, will be showcasing its safety-certified railway system solutions at the Innotrans Fair in Berlin, 21-24 September 2010, in Hall 5.1, booth 114. Innotrans is an international industry showplace focusing on Railway Technology.

The Green Hills Platform for Industrial Safety (http://www.ghs.com/products/industrial_safety.html) has achieved a SWSIL 4 safety certification for its INTEGRITY@ RTOS (<http://www.ghs.com/products/rtos/integrity.html>) (real-time operating system) for the stringent CENELEC EN 50128 standard, which targets software for railway control and protection systems. Certified by both TUV and Exida, the INTEGRITY RTOS has received the highest assurance level possible against this safety standard for an individual software component, such as an operating system.

Earlier this year, it was announced that Bombardier (http://www.ghs.com/news/20100302_bombardier_tcms.html), the global leader in rail technology, is partnering with Green Hills Software to develop the safety platform for its next-generation Train Control Management System (TCMS) that will simplify maintenance and aid the certification process. The TCMS will use the Green Hills Platform for Industrial Safety.

The certified INTEGRITY operating system forms the core of the Green Hills Platform for Industrial Safety, a comprehensive solution that comprises tools, operating system, secure guest OS virtualization, services, and middleware aimed at reliability-critical industrial control, transportation, railway, nuclear control and automation systems. By incorporating the Green Hills certified operating system into safety-critical systems, along with available middleware and support services from Green Hills, customers significantly reduce their risks, development costs, and time to certify their end products.

By adopting Green Hills Software's safety-certified INTEGRITY RTOS, developers are able to safely partition independent applications of multiple levels of safety criticality concurrently on a single processor and platform. The INTEGRITY safety-proven architecture enables applications to be partitioned in a way to ensure that an error or failure in one application cannot impact or compromise another application.

The Green Hills Platform for Industrial Safety addresses applications such as:

About EN 50128 The railway industry requirements are defined by CENELEC, the European Committee for Electrotechnical Standardization. The standard EN 50128 "software for railway control and protection systems" represents the railway application-specific interpretation of the international standard series -- IEC 61508 (functional safety of electrical/electronic/programmable electronic safety-related systems). The EN 50128 standard describes software safety integrity levels and identifies requirements for personnel and their responsibilities, lifecycle issues and documentation. Meeting the well-defined, stringent EN 50128 requirements involves supporting a systematic development process, emphasizing requirements traceability, criticality analysis and validation.

About Green Hills Software Founded in 1982, Green Hills Software, Inc. is the largest independent vendor of embedded development solutions. In 2008, the Green Hills INTEGRITY-178B RTOS was the first and only operating system to be certified by the NSA (http://www.ghs.com/security/security_home.html) to EAL6+ High Robustness, the highest level of security ever achieved for any software product. Our open architecture integrated development solutions address deeply embedded, absolute security and high-reliability applications for the military/avionics, medical, industrial, automotive, networking, consumer and other markets that demand industry-certified solutions. Green Hills Software is headquartered in Santa Barbara, CA, with European headquarters in the United Kingdom. Visit Green Hills Software at www.ghs.com (<http://www.ghs.com/>) .

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