eSOL Listed Among "Representative Vendors" in Gartner Market Guide for Embedded Operating Systems

Tokyo, Japan. November 28, 2017 – eSOL, a leading developer of real-time embedded software solutions, today announced that it was named as Representative Vendors in the Market Guide for Embedded Operating Systems[1] published by Gartner, Inc., a major international IT market research company. In the products and services from embedded operating system (OS) providers covered by the market guide, eSOL was named as a supplier of products and services that included middleware (such as file systems and communications), development tools, and professional services as well as real-time operating systems (RTOSs).

Gartner described embedded OSs as key enablers for enterprise architecture and technology innovation leaders designing an IoT-enabled product, allowing new features while staying within constrained design parameters.

eSOL's flagship eMCOS is a scalable RTOS, being the first such product to provide support that extends from single-core to many-core CPUs. The use of a distributed microkernel architecture unlike that of previous RTOSs enables eMCOS to provide scalability both in the number of cores supported, from single-core all the way up to many-core processors with hundreds of cores, and in terms of functionality, from microcontroller systems based on OSEK and AUTOSAR to high-end POSIX and process-model-based systems. The RTOS is also ideal for the heterogenous computing required for IoT applications that involve a combination of different processor types, such as heterogenous and homogenous multi-core and many-core processors, microcontrollers, GPUs, and FPGAs. eMCOS also has a proprietary semi-priority-based scheduling algorithm (Japanese patent numbers 5734941 and 5945617). Along with high performance and scalability, these technologies also ensure the real-time performance that is essential in mission-critical embedded systems.

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[1] Gartner, "Market Guide for Embedded Operating Systems", Aapo Markkanen, published September 13, 2017
https://www.gartner.com/doc/3798779/market-guide-embedded-operating-systems

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eSOL offers a choice of RTOSs, supplying both eMCOS and the widely used eT-Kernel RTOS that features support for functional safety. It also supplies software platforms that combine these core RTOS products with development tools, middleware (including communications, file systems, and USB), and professional services. These products are used in a wide range of intelligent devices for the IoT era, appearing in industrial and medical systems as well as in automotive equipment, including automated driving and advanced driver assistance systems.

"Along with our growing international customer base in the automotive and other industries, and our involvement in international standardization work in areas such as AUTOSAR and multi-core and many-core technologies, I believe that the world-class features of our embedded operating system technologies are gradually coming to be recognized. Drawing on our base of dependable RTOS technology for embedded systems built up over more than 40 years, eSOL intends to continue contributing to the progress of a society that utilizes the IoT through ongoing investment in leading-edge research and development based on an understanding to the needs of this IoT era," said Masaki Gondo, CTO and General Manager of Technology Headquarters at eSOL.