

# DiSTI's GL Studio User Interface Development Software Supports eSOL's eT-Kernel Real-time Operating System

Ideal Combination for Safety-critical Systems Required to Meet Functional Safety Standards In Automotive, Aerospace, and Medical Equipment



Tokyo, Japan, December 16, 2014 – eSOL, a leading developer of real-time embedded software solutions, announced today that eSOL's eT-Kernel real-time operating system is now integrated with DiSTI Corporation's GL Studio user interface development software. This enables equipping safety-critical systems such as automotive, aerospace, and medical devices with advanced and sophisticated 2D and 3D graphical interfaces, while assuring high reliability.

GL Studio has been adopted in life-critical environments including aircraft avionics,

spacecraft avionics, and medical device displays. GL Studio's safety-critical runtime libraries are 100% MC/DC coverage-tested to prove their safety and reliability. GL Studio's compact OpenGL-based runtime libraries deliver good performance in start times and rendering speeds on embedded systems. GL Studio supports Autodesk 3ds Max and Adobe PhotoShop file formats for 100% correlation and advanced rendering techniques. Application developers can easily reuse software assets, since GL Studio supports multiple platforms. DiSTI announced on June 3, 2014, that they have begun the ISO 26262 certification process for GL Studio.

Thanks to its fast real-time capability and high reliability, the eT-Kernel RTOS is used worldwide in a variety of embedded systems, including automotive cluster-meter and ADAS systems, industrial and medical devices, and aerospace. The eT-Kernel consists of three scalable profiles to choose from, depending on system size and purpose, including eT-Kernel/POSIX with high Linux compatibility. This eT-Kernel scalability accelerates the sharing of software assets on each eT-Kernel profile. It also ensures efficient software development of related series or next-generation products.

eT-Kernel is a core part of the eT-Kernel Platform that integrates development tools and middleware components backed by professional services. eSOL expects the eT-Kernel Platform to be certified according to the ISO 26262 automotive functional safety standard and the IEC 61508 industrial equipment functional safety standard. The certified eT-Kernel Platform will substantially reduce costs for system developers to obtain functional safety standards certification for their products.

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“GL Studio’s support for the eT-Kernel RTOS allows many more safety-critical systems to implement advanced GUIs,” said Chris Giordano, Director Global Sales at DiSTI. “We are pleased to work with eSOL with their proven track record. We believe GL Studio and eT-Kernel are a good match for safety-critical systems with advanced GUIs.”

“We are pleased to announce that we can offer GL Studio, which has been used in many safety-critical applications, to our eT-Kernel users,” said Hiroaki Kamikura, General Manager of the Embedded Products Division, eSOL. “The need for compliance to functional safety standards soars in automotive, industrial, and medical systems. The combination of eT-Kernel and GL Studio meets these needs without compromise for sophisticated GUIs.”

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### **About eSOL**

eSOL is a leading embedded software developer that enables customers to accelerate the development of applications based on high-end embedded processors, including multi-core. eSOL’s advanced, scalable, and multi-profiled real-time operating systems are tightly integrated with development tools and middleware components to create flexible development platforms used by OEMs and ODMs worldwide in competitive vertical markets such as automotive, consumer electronics, industrial and medical equipment, and aerospace. Founded in 1975, eSOL is based in Tokyo, Japan.

For more information, please visit <http://www.esol.com/>