Core Avionics & Industrial Inc. Announces the Availability of a Safety Certifiable Software Renderer Graphics Engine, ENSCO's IGL®, for Avionics, Industrial and Automotive Applications

Tampa, Florida July 18, 2017. Core Avionics & Industrial Inc. ("CoreAVI") announces the immediate availability of ENSCO's IGL®, a highly efficient and safety certifiable OpenGL® SC 1.0 graphics rendering engine. The new availability of IGL to COREAVI's customers is the result of a longstanding collaboration between CoreAVI and ENSCO Avionics. IGL provides safety-critical system manufacturers with the most flexible and proven OpenGL SC rasterizer in the industry. IGL has been certified to FAA DO-178C and EASA ED-12C design assurance level A, and is available with complete certification artifacts in support of new customer designs. The OpenGL SC graphics renderer supports a variety of central processing units (CPUs), including the NXP Power PC family, various ARM CPU cores, and Intel X86 processors.

IGL provides users with flexibility in implementation and may be utilized in multicore, hypervisor and multipartition applications as either a primary graphics engine or as an adjunct to a GPU-based processor system. Multiple instances of the software may be deployed in complex systems while minimizing size, weight and power. IGL may be used to render overlays in conjunction with existing frame buffers such as in the case where symbology overlays a live video stream. The software can additionally be utilized to offload or isolate texture rendering commands in a GPU based system. IGL is a pre-compiled library compatible with common industry standard real time operating systems (RTOSs) as well as with certifiable HMI design tools such as ENSCO Avionics' IData® Tool Suite, and others.

 "ENSCO Avionics has worked closely with CoreAVI on numerous safety-critical customer programs in the past and it is a natural extension of our cooperation to partner with them on this software rendering product," said Neil Fifield, Vice President of ENSCO Avionics. "CoreAVI has a record of successful deployment of their OpenGL libraries in the GPU hardware accelerated graphics market and now can also address software rendering requirements in safety-critical markets."

"CoreAVI is pleased with our technology partnership with ENSCO Avionics and the addition of IGL to our portfolio at a time when system diversity, complexity, and reliability concerns are becoming even more acute," said Lee Melatti, Vice President of Business Development at CoreAVI. "The number of safety-critical applications in avionics and in emerging industrial and automotive applications continues to increase. The availability of a certified software renderer solution will allow us to address our markets with a broader product offering."

Further information is available at www.coreavi.com

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About Core Avionics & Industrial Inc.

Core Avionics & Industrial Inc. ("CoreAVI"), a Channel One company, is a world-leading supplier of real-time and safety-critical graphics and video drivers, and "program ready" embedded graphics processors. CoreAVI's suite of products enables commercial GPUs and SoC components to meet the requirements of long-term high-reliability and safety-critical embedded systems. This includes providing open standard graphics driver APIs specifically designed for embedded and safety-critical applications with support for all leading real-time operating systems, extended temperature screened components and long-term managed supply of components. These products with certification evidence and artifact kits for the most stringent levels of RTCA DO-254/DO-178C, EUROCAE ED-80/ED-12C and ISO 26262. www.coreavi.com

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For more than 30 years, ENSCO Avionics has developed sophisticated airborne systems for the aerospace industry to meet DO-178C, DO-254, DO-278A, and military standards for manned and unmanned systems. ENSCO Avionics focus is on safety- and mission-critical software and programmable hardware engineering solutions, custom display development, tailored synthetic vision applications, integration test solutions, and the IData® Tool Suite. ENSCO Avionics, based in Endicott, N.Y., is a wholly owned subsidiary of ENSCO, Inc.
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