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AUTOSAR (AUTomotive Open System ARchitecture) and Khronos Announce Collaboration on Acceleration Standards for Software Defined Vehicles

AUTOSAR™ and The Khronos® Group have signed a Memorandum of Understanding (MoU) and entered into a collaboration liaison to foster synergy between the two organizations to encourage standardization in the field of Automotive and Future Intelligent Mobility. This joint technical collaboration between AUTOSAR and Khronos is intended to coordinate common requirements and developments with a focus on accelerated graphics and computing in safety critical use cases.

“Khronos has joined the AUTOSAR Development Cooperation as an Attendee to participate in AUTOSAR Working Groups to ensure a productive flow of information between the two organizations. We look forward to a deeper understanding of AUTOSAR’s requirements to help ensure that Khronos standards such as SYCL™, OpenCL™, and Vulkan® SC are effective in satisfying demanding automotive use cases,” said Neil Trevett, Khronos president.

“AUTOSAR warmly welcomes working with Khronos as AUTOSAR Attendee. This will allow us to leverage Khronos’ industry-leading expertise in hardware acceleration and parallel computation for embedded applications to visualization on high-performance computers (HPC). In consequence it will strengthen automotive software and methodology development using safe parallel computation in open E/E System Architectures,” said Rinat Asmus, chairperson of AUTOSAR.

Both parties have agreed to work to align standardization activities at the two organizations and to harmonize development results. In the spirit of the MoU, both parties aim to strengthen the Automotive Development Ecosystem through this collaborative liaison and to encourage their members to participate in this ongoing cooperation.

AUTOSAR and Khronos will participate in each other’s events to make joint or individual development and standardization results available to a broader audience. As a first step, Khronos will participate in the 13th AUTOSAR Open Conference on May 11th, 2022.
Press

About AUTOSAR (AUTomotive Open System ARchitecture)

AUTOSAR (AUTomotive Open System ARchitecture) is a global development partnership of car manufacturers, suppliers and other companies from the electronics, semiconductor, and software industries. Since 2003, they have been working on the development and introduction of several open standardized software platforms for the automotive industry. By simplifying the replacement and update of software and hardware, the AUTOSAR approach forms the foundation for reliably controlling the growing complexity of electronic and software systems in the vehicles of today and future. In addition, AUTOSAR improves cost efficiency by enabling its partners to cooperate in a competitive way. The “Core Partners” of AUTOSAR are the BMW Group, Bosch, Continental, Daimler, Ford, General Motors, the PSA Group, Toyota and the Volkswagen Group. In addition to these companies, more than 320 partners play an important role in the success of the partnership and can use the standards free of charge. If your company wishes to be a part of this activity, join as an AUTOSAR-Partner or stay tuned on AUTOSAR.org.

About Khronos

The Khronos Group is an open, non-profit, member-driven consortium of over 180 industry-leading companies creating advanced, royalty-free, interoperability standards for 3D graphics, augmented and virtual reality, the metaverse, parallel programming, vision acceleration and machine learning. Khronos activities include 3D Commerce™, ANARI™, glTF™, NNEF™, OpenCL™, OpenGL®, OpenGL® ES, OpenVG™, OpenVX™, OpenXR™, SPIR-V™, SYCL™, Vulkan®, and WebGL™. Khronos members drive the development and evolution of Khronos specifications and can accelerate the delivery of cutting-edge platforms and applications through early access to specification drafts and conformance tests. For more information about The Khronos Group visit Khronos.org.

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