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Infineon and Siemens collaborate to bring AURIX TC4x to next generation software-defined vehicles

- **Siemens to bring Capital Embedded AR Classic, based on an enhanced AUTOSAR R20-11, to the Infineon AURIX TC4x microcontroller to enable advanced capabilities for software-defined vehicles**
- **Siemens and Infineon collaborate to achieve production-ready embedded ECU (Electronic Control Unit) software for BMW's next generation vehicles**

Siemens Digital Industries Software announced today its ongoing collaboration with Infineon to combine Siemens' embedded automotive software platform, based on the AUTOSAR Classic platform R20-11, with Infineon`s AURIX™ TC4x microcontroller. This helps automotive OEMs achieve production readiness to deliver the next generation of capabilities required by Software-Defined Vehicles (SDV).

In the automotive industry, the growing demand for autonomous driving, ADAS, electrification, passenger comfort and entertainment, requires more computational power, functional safety and cybersecurity. To achieve this, more advanced microcontrollers (such as the AURIX TC4x) along with intelligent software platforms that fit into the system development flow, are becoming mission critical.

Siemens' embedded software team and Infineon worked with the lead customer, BMW, to achieve production ready embedded ECU (Electronic Control Unit) software. In addition, Siemens and the OEM have collaborated to implement a cloud-based software development process for SDVs using Siemens' advanced embedded software development tools.

"Our collaboration with Infineon is long established and highly successful, providing leading automotive customers with advanced microcontrollers running AUTOSAR-

based embedded software to help drive the future of the software defined vehicle industry," said Frances Evans, senior vice president, Lifecycle Collaboration Software, Siemens Digital Industries Software. "The first production ready implementation of the AURIX TC4x demonstrates how a more consolidated, holistic approach helps the SDV industry to deliver the advanced features customers demand."

"Infineon has contributed to the AUTOSAR standard since 2004 and provides AUTOSAR solutions for its microcontroller portfolio like the AURIX TC4x," said Thomas Schneid, Senior Director Software, Partnership and Ecosystem Management at Infineon. "Our collaboration with Siemens Digital Industries Software focuses on delivering advanced microcontrollers equipped with AUTOSAR-based embedded software to empower OEMs in driving the future of the software-defined vehicle."

Siemens' advanced Capital™ Embedded AR Classic software supports the most advanced microcontrollers on the market with an AUTOSAR software platform, enabling the multicore, functional safety and cybersecurity features of the AURIX TC4x and provides feature-rich software with pre-validated evidence for functional safety and cybersecurity that simplifies the OEMs homologation process. Microcontrollers like the AURIX TC4x are key components in the automotive industry, controlling and monitoring a wide variety of systems in the automobile such as electric powertrain, battery management, ADAS, radar and chassis. The AURIX TC4x microcontrollers from Infineon combine power and performance enhancements with the latest trends in the fields of virtualization, AI-based modeling, functional safety, cybersecurity and network functions and pave the way for new E/E architectures as well as the next generation of software-defined vehicles.

To learn more about Siemens' AUTOSAR embedded software development capabilities and how it is helping the automotive industry to build the next generation of software defined vehicles, visit www.siemens.com/autosar

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companies to optimize their design, engineering and manufacturing processes to turn today's ideas into the sustainable products of the future. From chips to entire systems, from product to process, across all industries. Siemens Digital Industries Software – Accelerating transformation.

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