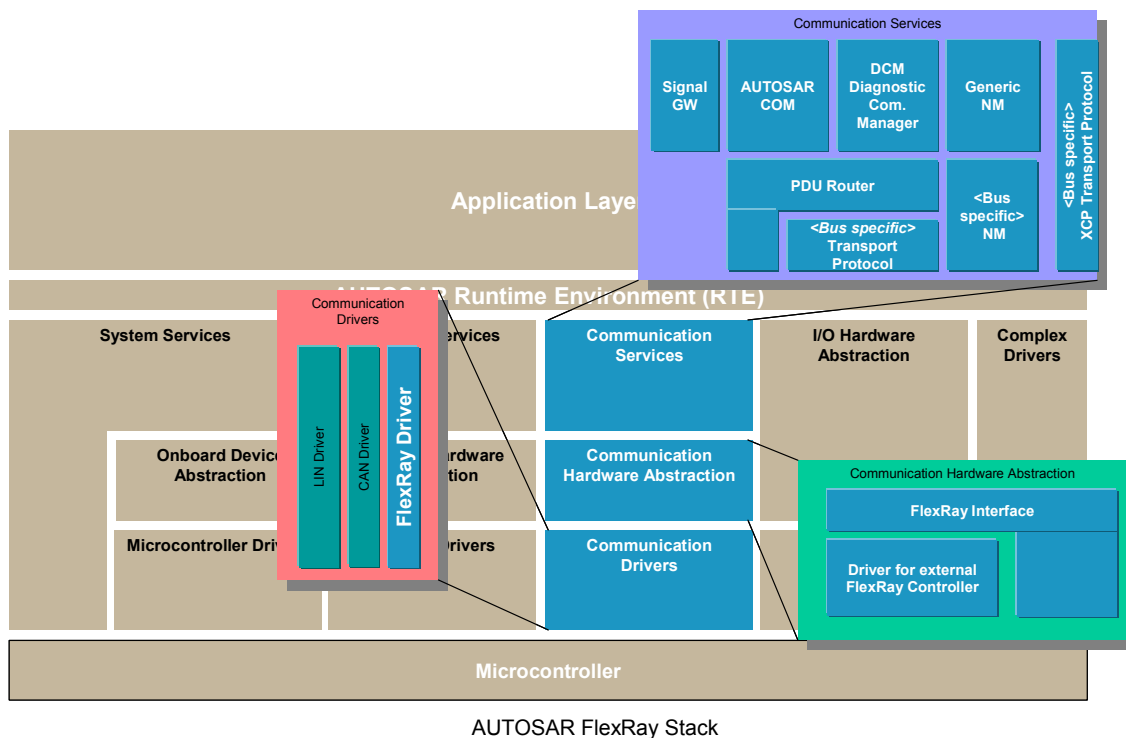


TTTech Automotive offerings for FlexRay and AUTOSAR

AUTOSAR FlexRay Standard Software for Series Production

TTTech Automotive acts as development partner for time-triggered systems in the automotive industry. The company's mission is to advance the use of the time-triggered technology on the basis of the FlexRay™ standard and to bring time-triggered systems into commercial production. TTTech Automotive is TTTech's dedicated subsidiary for FlexRay solutions and also supports the automotive development process with AUTOSAR middleware components and configuration tools. TTTech Automotive offerings also include engineering support and system integration for FlexRay projects.



AUTOSAR Middleware Components: Time-Triggered and Efficient

The embedded standard software components that TTTech Automotive offers for AUTOSAR are designed for time-triggered systems. These components are optimized for synchronous operation and offer small footprint, low latency and deterministic response time. They are designed for FlexRay-based systems and enable customers to benefit fully from the advantages of the protocol, such as highly accurate global time and deterministic data transport.

TTTech Automotive's FlexRay driver is one of the core components of the microcontroller Abstraction Layer. Together with the FlexRay interface within the Communication ECU Abstraction Layer, the FlexRay driver provides a hardware independent API to access the FlexRay controller. In addition, TTTech Automotive also offers components for the Services Layer such as a COM layer, a PDU Router and a Transport Protocol component. The network management component adds wakeup and sleep functionality to the complete cluster.

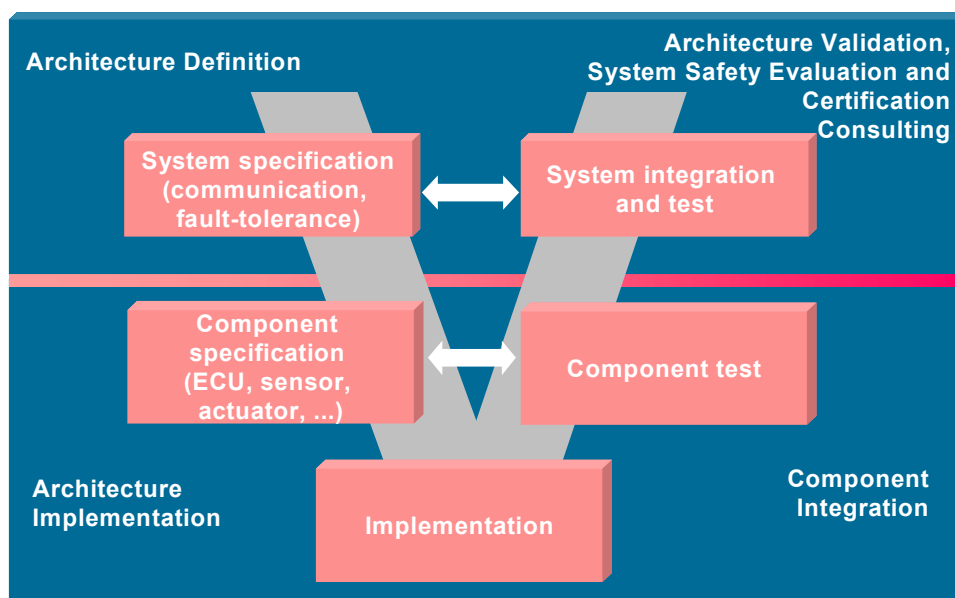
Engineering Support...

TTTech Automotive also provides know-how on system integration such as architecture consulting, reliability analysis, embedded programming, and customized development. Engineering support with focus on vehicle dynamics is offered as well.

In engineering projects with focus on reliable communication based on time-triggered protocols such as FlexRay, reliability considerations have to run in parallel to development processes. Conceptual design must reflect system these considerations from the beginning. Therefore reliability has an important impact on requirements analysis at architecture level.

...for All Steps of the Two-Level Design Framework

The Two-Level Design Approach is used for all TTTech Automotive engineering services, as it offers a clear separation between the architecture and the component level and therefore allows an exact definition of interfaces.



This approach brings substantial advantages in the design and implementation of dependable real-time systems. In particular, it enables the seamless integration of electronic subsystems, developed by different suppliers or groups, into an overall computer system. The Two-Level Design Approach allows system integrators to build a composable network architecture that provides a clear separation between system issues at cluster level and subsystem issues at node level. This eases the integration of reliability and fault tolerance requirements considerably.

For further information, including price and availability, contact products@tttech-automotive.com

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