



Extension and Consolidation

Developing future E/E architectures jointly with customers

In 2014, ETAS will further expand its global network of Real Time Applications (RTA) Consulting Services, adding locations in Japan and South Korea. One current key issue is the support for migration towards AUTOSAR software, another being advice and consulting in the area of functional safety. At this time, successful projects are underway in Germany, North America, the United Kingdom, Sweden, India, and the P.R. China.

ETAS proactively participates in shaping the future by working with customers on the further development of new technologies that will support future E/E architectures – for example, multi-core operating systems and hypervisors for safety- and timing-critical automotive systems. For several years, ETAS RTA Consulting has supported ETAS customers with professional support services for the optimization of development processes as well as mastering complex technical challenges in the context of future E/E architectures. Globally distributed teams of consultants provide advice and support at customers' locations.

Focus on AUTOSAR software

One key issue addressed by RTA consulting projects centers on the support of the migration to AUTOSAR. By entrusting us with projects of this kind, especially those customers who have not yet gathered experience with this standardized software architecture are rewarded by significant cost advantages.

On the one hand, ETAS provides independent technical advice, evaluates the tools deployed by the customer and, if required, offers tool solutions and complete basic software from the company's portfolio. On the other hand, and in order to enable its customers to successfully implement AUTOSAR technology within their existing environment, ETAS offers support with a view to organizational aspects and suggests efficient process design. The consultants' clearly defined objective is to enable customers to implement production-ready AUTOSAR software in their ECUs in an efficient and high-quality manner.

Focus on functional safety

In today's tightly networked automobile, an increasing number of systems are considered safety-critical. The growing complexity of embedded systems and the influence of safety-relevant aspects of vehicle and system control serve to underline the increasing importance of the subject of functional safety, as it relates to the design and development of embedded software.

Possessing years of experience in the realm of functional safety, ETAS provides consultation that addresses a variety of key issues as required:

- **Safety assessments:**

Assessment of a customer's software and processes directly at his location anywhere around the globe. 2014 will mark the start of initial assessments at customers' premises in Japan.

- **Software refactoring:**

Analysis of technical improvement potential of software architectures and re-implementation to ensure the software meets the required safety standards.

- **Tool qualification:**

Analysis and optimization of customers' tool chains to meet the demands of safety-relevant development processes. Here, we apply our many years of project experience gained with major OEMs and Tier 1 suppliers.

RTA Consulting is part of RTA Solutions, the comprehensive portfolio for safe and secure embedded software for real-time applications.