For decades, the complexity of electronics and electrical (E/E) systems in the automotive industry has increased dramatically. A key challenge automotive OEMs (original equipment manufacturers) face today is hazards caused by defects in automotive E/E systems. These system issues are the #1 cause of automotive recalls, resulting not only in huge warranty costs, but also legal liability and reputation damage.

One of the key solutions to address E/E system functional safety is ISO 26262, a published international automotive E/E system functional safety standard. Compliance to the ISO 26262 standard not only helps automotive OEMs and their suppliers improve the safety of E/E systems, but also legal liability and reputation damage.

The Functional Safety Catalyst for ISO 26262 Compliance helps automakers manage the E/E system development processes as specified by the ISO 26262 standard and generate all the key work products required for compliance. The end deliverable of the template is the safety case for ISO 26262 compliance.

The Functional Safety Catalyst for ISO 26262 Compliance is an add-on to Teamcenter® software from Siemens PLM Software that supports ISO 26262 implementation. The template enables you to manage all the key engineering data related to functional safety, follow the development process requirements specified by the standard and generate safety case documents required for ISO 26262 compliance.

The Functional Safety Catalyst for ISO 26262 Compliance provides a set of rules and constraints that enable a proactive managed authoring environment for quality data creation.

www.siemens.com/teamcenter
In its deployment, the template facilitates:

- Flexibility to configure the safety lifecycle for specific ISO 26262 projects
- Flexibility to integrate your existing standard process practice
- Document-enabled requirements management methodology
- Collaborative development process

**Document-enabled requirements management methodology**
This is an important aspect of the safety case creation, as this process methodology allows you to:

- Manage requirements both at the document and individual requirements level
- Manage relationships between requirements and document individual requirements

This allows you to create quality data at every step, so that you are authoring the data rather than periodically validating the quality of data during authoring.

**Collaborative development process**
To successfully execute an ISO 26262 development, widely different types of skills are required throughout the process. This mandates a managed collaborative approach across different organizations along the development process.

The flexibility to integrate with your E/E system development processes and solutions enables you to build your complete automotive E/E system development to satisfy automotive safety lifecycle requirements.