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FACT SHEET

SAE Ground Vehicle Technical Committees: Electrical Systems
Embedded Software Standards Committee

The Embedded Software Standards Committee reports to the Electrical Systems Group of the Motor Vehicle Council. The Committee is responsible for developing and maintaining SAE Standards, Recommended Practices, and Information Reports related to in-vehicle software technical and business issues, based on input from automotive software experts of automotive OEMs, the automotive electronic module supplier base, embedded software providers, software tool providers, and consultants to the industry. SAE Embedded Software's industry-level goal is "*to reduce automotive electronic system cost and development time through efficiency in software*". The SAE Embedded Software Committee reduces automotive electronic complexity, raises industry awareness of embedded software development issues, and increases the knowledge level across the entire automotive software engineering community.

The following task forces have developed recommended practices under the committee's scope:

J2516 Embedded Software Development Lifecycle
wide range of available off-the-shelf software improvement processes including CMMI

J2632 Embedded Software C Coding Practices
a common set of C coding methods suitable for automotive embedded software development

J2720 Software Development for Calibration and Manufacturing
the use of CCP, assignment of CCP identifiers for module suppliers, discussion of OEM sanction of CCP usage, CCP security issues, and some comparison to alternate methods like ISO14229

J2734 Embedded Software Verification and Validation

J2866 SafeCAN: Using CAN in Real-time Deterministic and Safety-critical Applications

Participants in the Embedded Software Standards Committee include OEMs, suppliers, consulting firms, government, and other interested parties.

SAE Embedded Software Standards Committee Standards Development & Revision Activities

J2356 A graphic Model for Interactive Distributed Control

J2640 General Automotive Embedded Software Design Requirements

J2746 Software Assessment Repository

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Join an SAE Standards committee.

For more information
or to participate on a Embedded Software Standards Committee, contact:

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