



SURFACE VEHICLE RECOMMENDED PRACTICE

J1939™-75

MAR2026

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Superseded by SAE J1939DA

Application Layer - Generator Sets and Industrial

RATIONALE

This document is being cancelled because all technical content has been moved into SAE J1939DA and the SAE J1939DA Supplement Document contained within SAE J1939DA. Consequently, this document now consists of several sections that essentially say "See SAE J1939DA."

CANCELLATION NOTICE

This technical report has been declared "CANCELLED" as of March 2026 and has been superseded by SAE J1939DA. By this action, this document will remain listed in the respective index, if applicable. Cancelled technical reports are available from SAE.

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FOREWORD

The SAE J1939 communications network is defined using a collection of individual SAE J1939 documents based upon the layers of the open system interconnect (OSI) model for computer communications architecture. The SAE J1939-75 document defines the OSI application layer data parameters (SPs) and messages (PGs) for information predominantly associated with monitoring and control generators and driven equipment in electric power generation and industrial applications.

The SAE J1939 communications network is a high-speed ISO 11898-1 CAN-based communications network that supports real-time closed loop control functions, simple information exchanges, and diagnostic data exchanges between electronic control units (ECUs) physically distributed throughout the vehicle.

The SAE J1939 communications network is developed for use in heavy-duty environments and suitable for horizontally integrated vehicle industries. The SAE J1939 communications network is applicable for light-duty, medium-duty, and heavy-duty vehicles used on-road or off-road, and for appropriate stationary applications which use vehicle derived components (e.g., generator sets). Vehicles of interest include, but are not limited to, on-highway and off-highway trucks and their trailers, construction equipment, and agricultural equipment and implements. The physical layer aspects of SAE J1939 reflect its design goal for use in heavy-duty environments. Horizontally integrated vehicles involve the integration of different combinations of loose package components, such as engines and transmissions, that are sourced from many different component suppliers. The SAE J1939 common communication architecture strives to offer an open interconnect system that allows the ECUs associated with different component manufacturers to communicate with each other.