Industry Issue

Throughout the automotive industry there are multiple engineering change management (ECM) systems to communicate changes. These systems include multiple formats, multiple definitions and manual tasks, which are prone to errors. It is estimated that in North America alone 300,000 engineering changes take place within the automotive and related industries. Further, each engineering change can cost up to $50,000 to process (excluding materials and tools).

Unique Insight

To offset the challenge of integrating numerous partners into the engineering change management process, AIAG and its industry volunteers developed recommendations for structuring cross-company ECM processes and data. This harmonized industry process effectively and efficiently implements the countless engineering changes executed annually by OEMs and suppliers.

Participating Companies

- Chrysler Group LLC
- Daimler AG
- Dassault Systèmes ENOVIA
- Delphi Corp.
- Ford Motor Co.
- GALIA
- General Motors Co.
- Honda R & D Co., Ltd.
- IBM Corp.
- JAMA
- Johnson Controls, Inc.
- Mazda
- National Institute of Standards and Technology
- Nissan Motor Manufacturing Corp. USA
- Odette International
- Odette-Sweden
- PDTec GmbH
- ProSTEP
- PSA Peugeot
- Renault
- Robert Bosch LLC
- Saab
- Scania
- Siemens PLM
- VDA
- Visteon Corp.
- Volvo Truck North America, Inc.

Results

With minimal investment, efficiencies of up to 25 percent (an industry-wide spending of more than $10 billion) can be achieved through standardized retrieval, coordination and processing during cross-partner ECM processes.