



Highlights

- Improve development and delivery of electric and electronic systems and their embedded software
 - Manage complexity and mitigate risk associated with electric and electronic systems
 - Reduce costs and improve component quality
 - Manage process governance of systems and software delivery, enabling end-to-end traceability and standards-based development
 - Support communication among original equipment manufacturers (OEMs) and their Tier-1 and Tier-2 suppliers
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IBM Rational software platform for automotive systems

The automotive industry is facing its largest crisis in decades. The faltering global economy has reduced the demand for and production of new vehicles, requiring automotive manufacturers and suppliers to cut costs by improving efficiency. To meet consumer demands for more cost-effective, greener, safer vehicles and ensure future growth, new vehicle technologies must be developed and employed.

Shrinking development schedules and consumer demand for innovative vehicles require that automotive manufacturers and suppliers accelerate systems and software delivery while improving design quality. The IBM® Rational® software platform for automotive systems is a set of solutions that provides comprehensive, integrated support throughout the embedded systems and software development life cycle. We can help you manage the ever-increasing complexity of automotive projects to speed development, boost productivity and maintain quality.

Better processes yield better cars

When system quality is not built in from the start of development, the deployment of in-vehicle systems and software is at risk for missed deadlines, design errors and cost overruns. The IBM Rational software platform for automotive systems provides:

- The ability to define, model, specify, simulate, develop, test and integrate embedded systems and software with the potential to automate resource-intensive manual tasks such as coding or testing.
- Solutions to integrate the mechanical, electronic and software development teams successfully.
- The capability to effectively perform systems and software life-cycle management across supply chains.
- Best practices for systems and software engineering.





Our Rational software platform consists of integrated tools that can enable rapid and effective coordination of distributed teams to reduce design errors, control labor costs and speed deployment. Tools built into the solution map to the development and implementation life cycle of in-vehicle systems. These include:

- Product portfolio management
- Requirements engineering
- Model-driven systems development (MDSD)
- Embedded software development and test
- Configuration and change management
- Asset management and reuse
- Quality management
- Measurement and reporting

A subset of benefits our Rational software platform enables you to leverage includes:

- Automated product planning, balancing cost, risk and reward.
- Requirements sharing across globally distributed teams and projects.
- Component reuse through modern asset management.
- Enhanced communication within and between development teams.
- Improved collaboration in the product development process.
- Systems and software modeling to optimize product performance.
- Automatic generation of in-vehicle software code.

The IBM Rational software platform for automotive systems supports both the development of in-vehicle embedded software for hard, real-time applications—such as those for the power train and transmission—and the development of soft, real-time systems, such as infotainment and telematic services. Automotive Open System Architecture (AUTOSAR) is fully supported.

This standards-based solution is built on IBM Rational Jazz™. Our Rational software platform is open, extensible, scalable, risk-free to migrate to and easy to integrate with your existing engineering environments and tools. In addition, our Rational software platform helps reduce your total cost of ownership. It boosts your systems and software life-cycle management effectiveness and enables the automation of resource-intensive development tasks.

For more information

To learn more about the IBM Rational software platform for automotive systems, please contact your IBM representative or IBM Business Partner, or visit: ibm.com/automotive

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