



The Premier Event for Software and Systems Innovation

Roma, 11 ottobre 2012



Generazione automatica di documentazione in ambienti complessi



# Agenda

1 IBM Rational Collaboration Lifecycle Management for System and Software Engineering

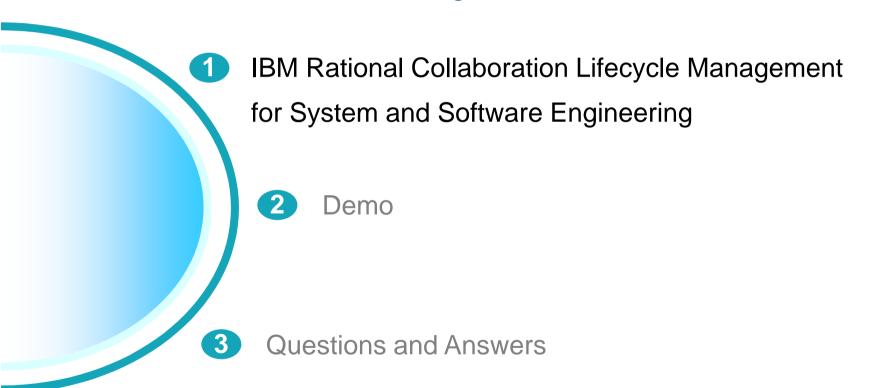
2 Demo

3 Questions and Answers



Next Now!

# Agenda



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### Rational Solution Portfolio for SSE CLM

### **Rational solution for Systems and Software Engineering**



Open Services for Lifecycle Collaboration

#### REQUIREMENTS MANAGEMENT

Manage all system requirements with full traceability across the lifecycle

**Rational DOORS** 

#### **QUALITY MANAGEMENT**

Achieve "quality by design" with an integrated, automated testing process

**Rational Quality Manager** 

#### **DESIGN MANAGEMENT**

Use modeling to validate requirements, architecture and design throughout the development process

Rational Rhapsody & Design Manager

#### **COLLABORATION, PLANNING & CHANGE MANAGEMENT**

Collaborate across diverse engineering disciplines and development teams

**Rational Team Concert** 









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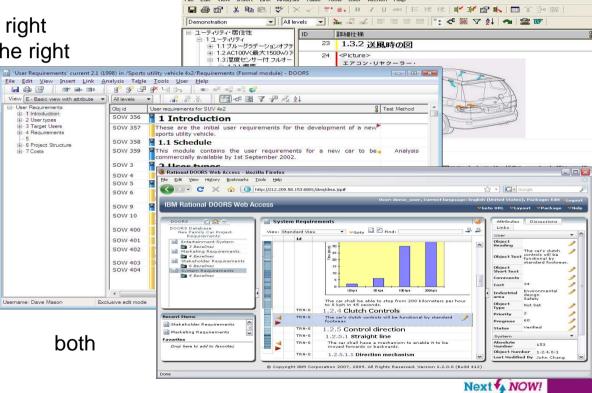


# Rational DOORS for Requirement Management Manage All Requirements Across the Lifecycle and Across Disciplines

Highly flexible display gives the right people the right information at the right

time

- Intuitive interface means you'll be up and running quickly
- Document based for efficient organization and reporting
- Classic or Web Access client on the same database



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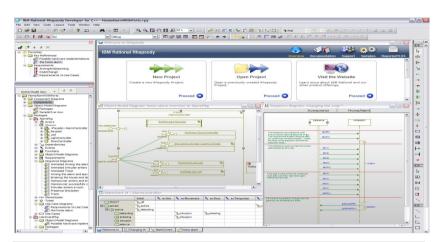






### Systems & Software Engineering with Rational Rhapsody®





"Using Rhapsody software improves the quality of the application software that is integral to the series hydraulic hybrid system development process."

Steve Zielinski, Eaton chief engineer for software

#### **Capabilities**

- Requirements-driven analysis and design for technical,
   embedded or real-time solutions, including those based on *multi-core* architectures
- Rapid design validation and verification with frequent simulation and testing
- Development and deployment of complete C, C++, C#, Java and Ada applications

#### **Benefits**

- Build the right product through non-ambiguous communication and frequent collaboration
- Eliminate defects early and increase quality by continually testing the design
- Reduce development time by automatically generating applications and documentation
- Re-use and adapt existing technology through reverse engineering and product line engineering

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### Rational Solution Portfolio for SSE CLM

### Rational solution for Systems and Software Engineering



Open Services for Lifecycle Collaboration

#### **PUBLISHING & REUSE**

Automated Documents Generation and Asset Management for governance and reuse **Rational Publishing Engine Rational Asset Manager** 







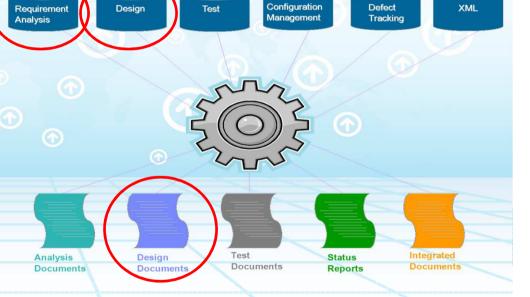




Rational Publishing Engine: document automation across the development lifecycle



- Create documents from data across a wide range of distributed and diverse data sources
- Access data from a wide range of Rational tools
- Access data from third party tools via XML and REST interfaces





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1 IBM Rational Collaboration Lifecycle Management for System and Software Engineering2 Demo

**Questions and Answers** 



### **Demo Scenario**

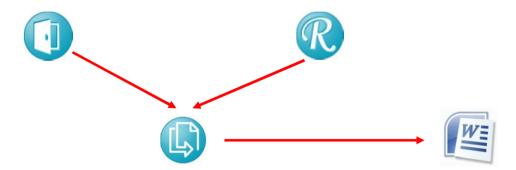
Requirements are managed in Rational DOORS

- Architectural Design is managed in Rational Rhapsody and linked back to Reqs



Documentation automatically produced by Rational Publishing Engine











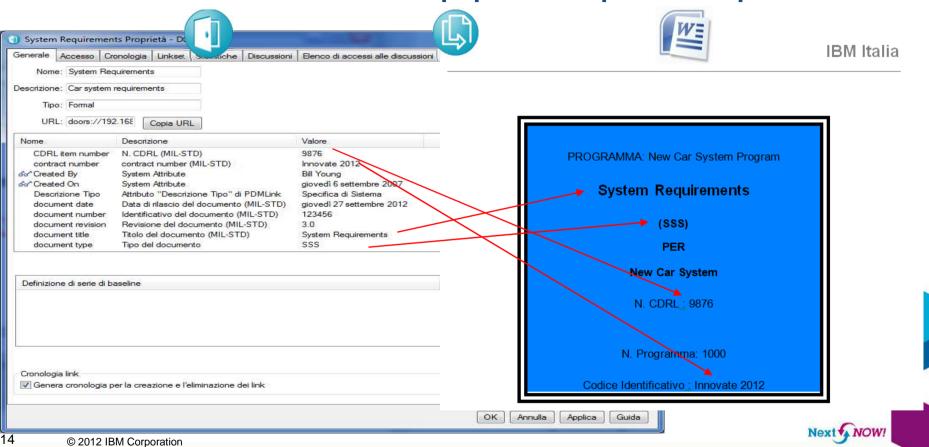




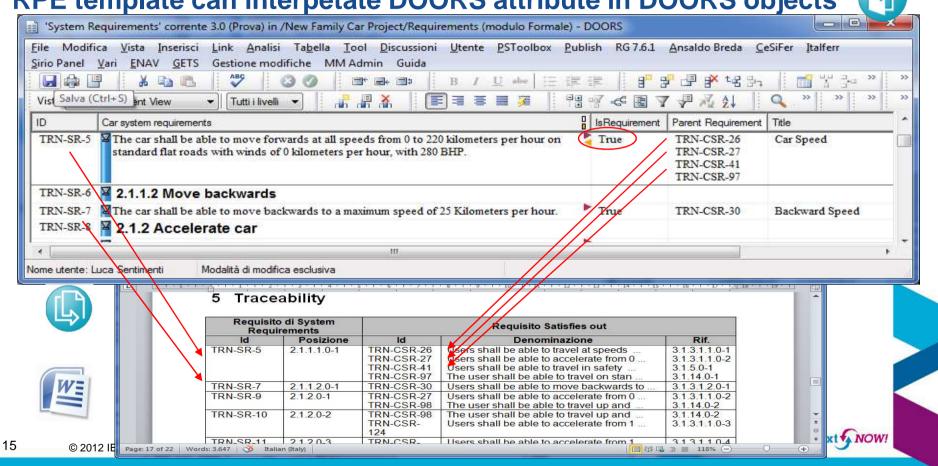




## RPE can use DOORS attributes to populate corporate templates

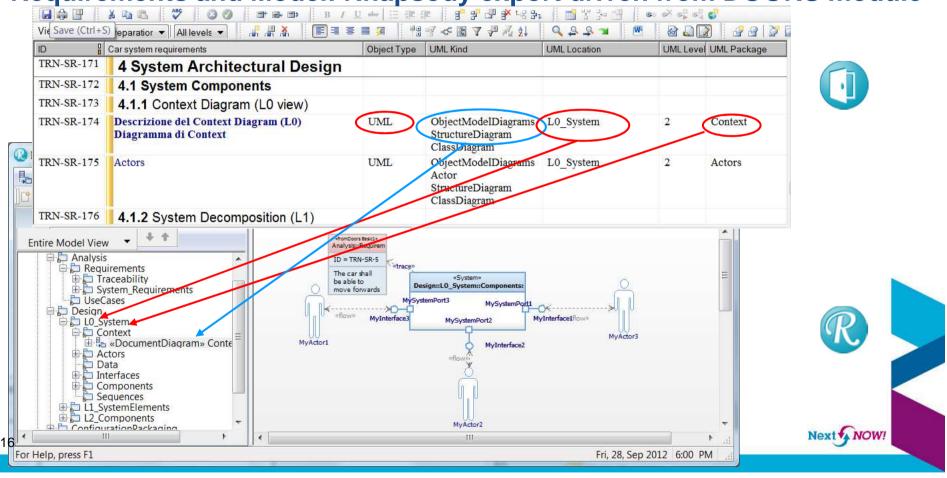


RPE template can interpetate DOORS attribute in DOORS objects



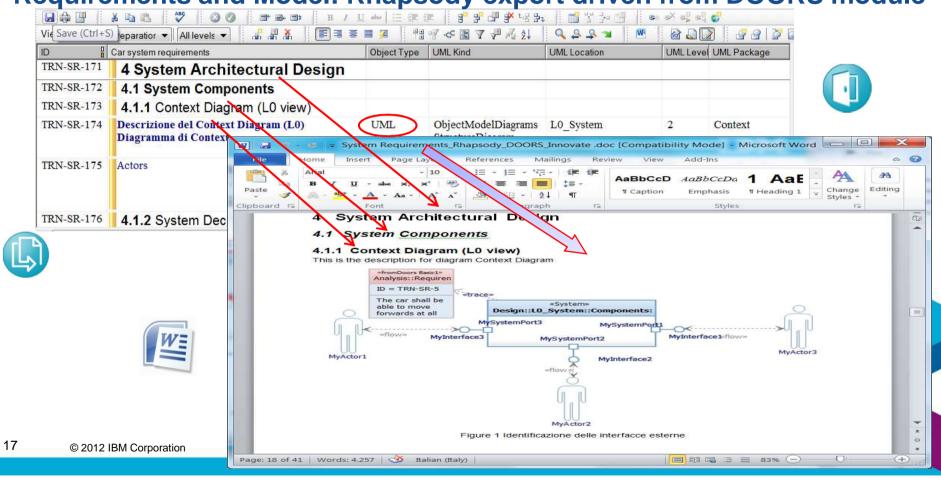


Requirements and Model: Rhapsody export driven from DOORS module





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