IBM SE Symposium Roma – 29 Nov 2012

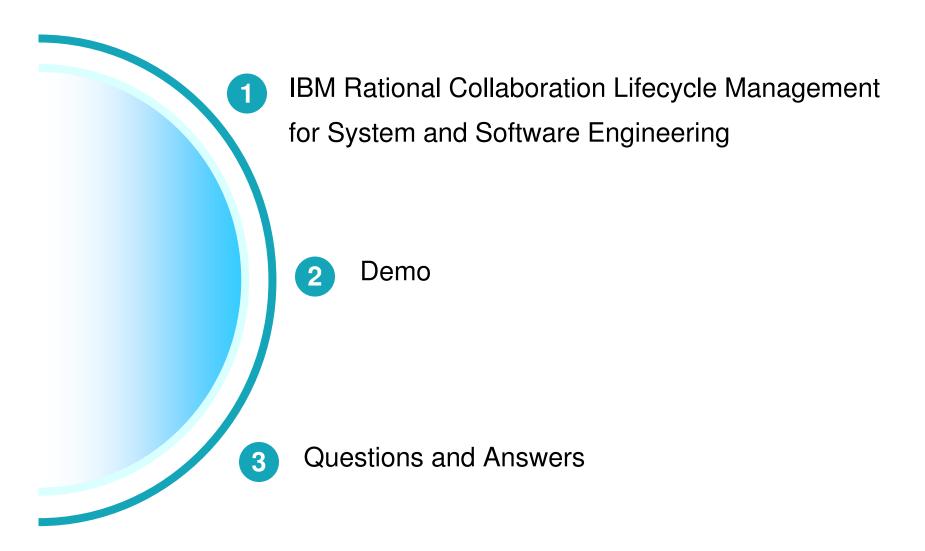


# Generazione automatica di documentazione in ambienti complessi

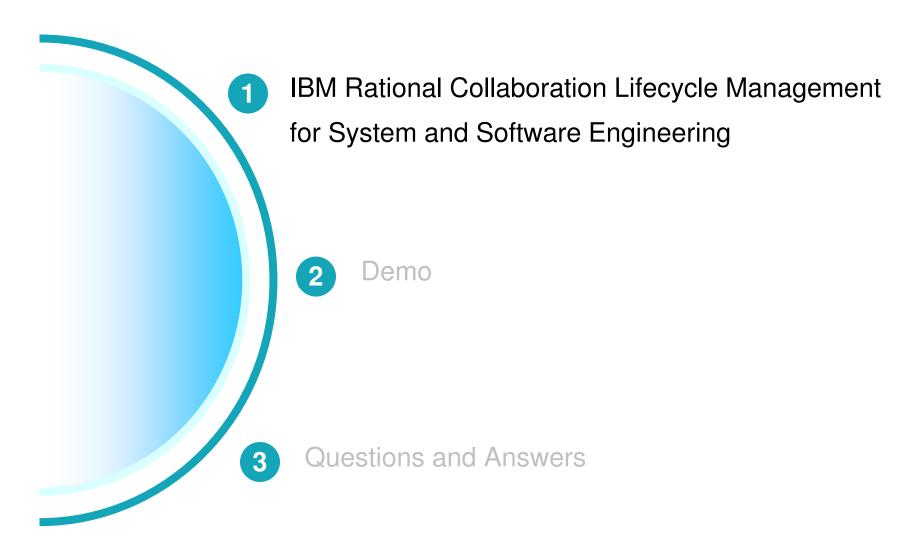
Luca Sentimenti – Requirements Tech Specialist Gianluca Monticone – Senior Systems Specialist

Software and Systems Engineering | Rational



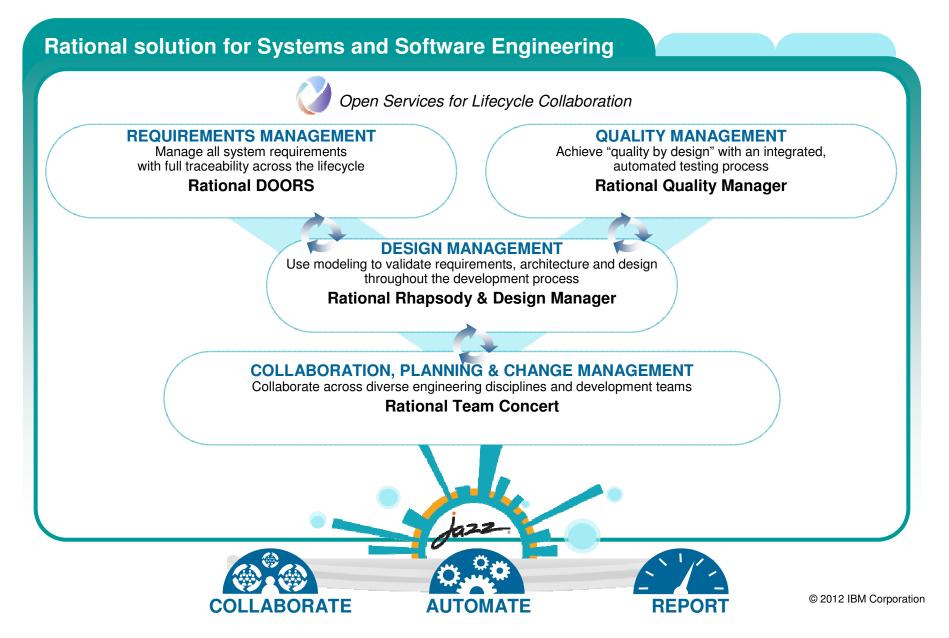






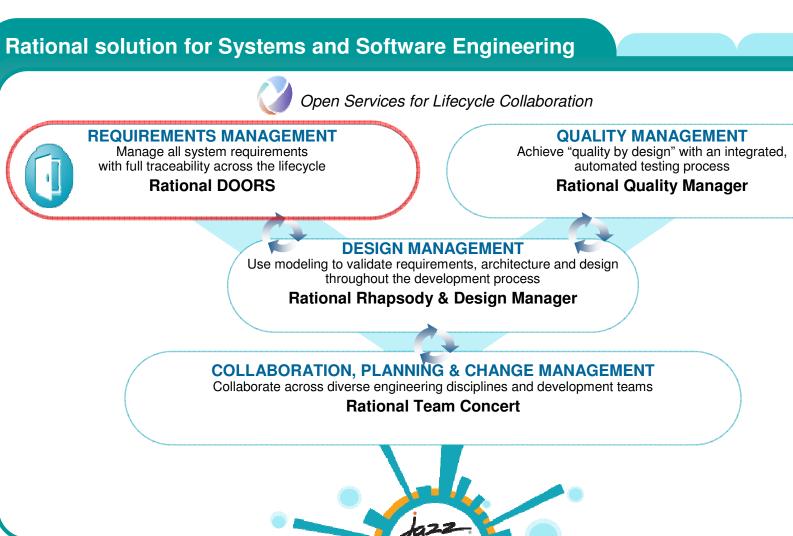


## Rational Solution Portfolio for SSE CLM





## Rational Solution Portfolio for SSE CLM - RM



AUTOMATE

.ABORATE

COLL

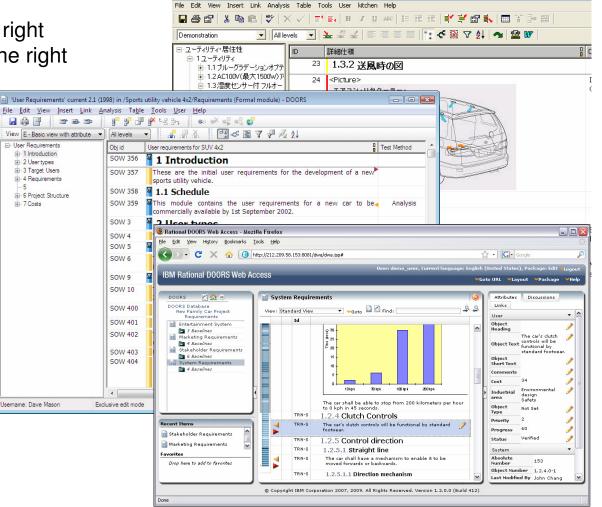
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REPOR

## **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 both on the same database



||Formal module 'ミニバン開発プロジェクト/ユーティリティ・居住性' current 0.0 - DOORS

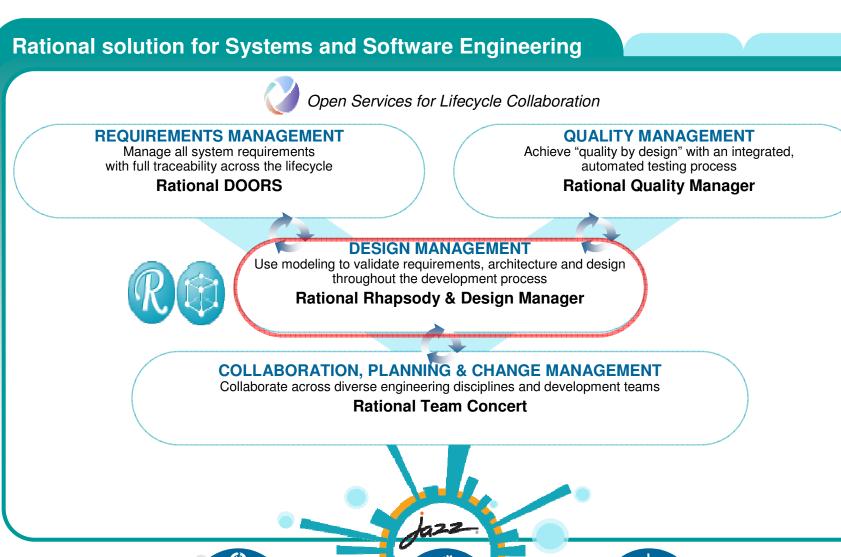




COLL



## Rational Solution Portfolio for SSE CLM - DM

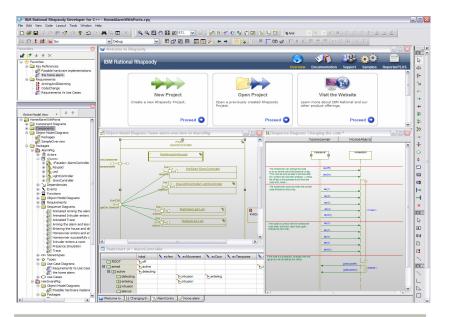


AUTOMATE

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REPOF

## 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 *multicore* 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



## Rational Solution Portfolio for SSE CLM

**Rational solution for Systems and Software Engineering** 



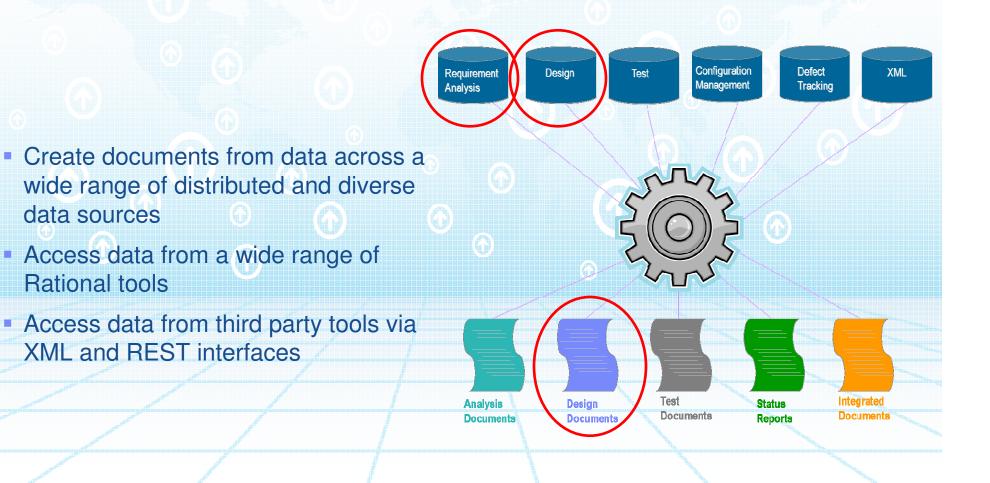
Open Services for Lifecycle Collaboration

#### **PUBLISHING & REUSE**

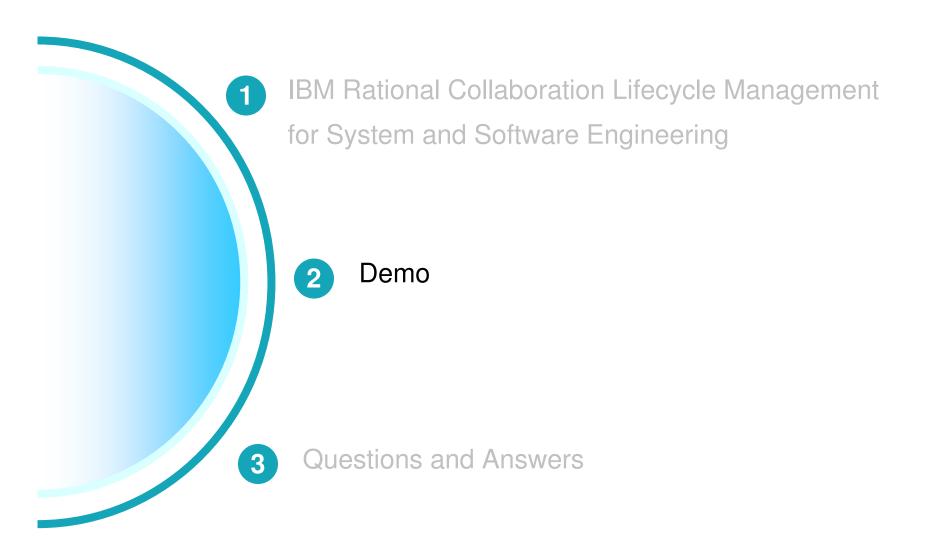
Automated Documents Generation and Asset Management for governance and reuse Rational Publishing Engine Rational Asset Manager



Rational Publishing Engine: document automation across the development lifecycle



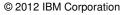


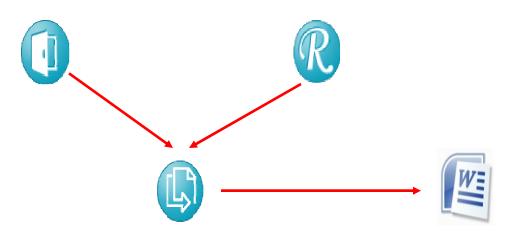


Requirements are managed in Rational DOORS

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- Documentation automatically produced by Rational Publishing Engine











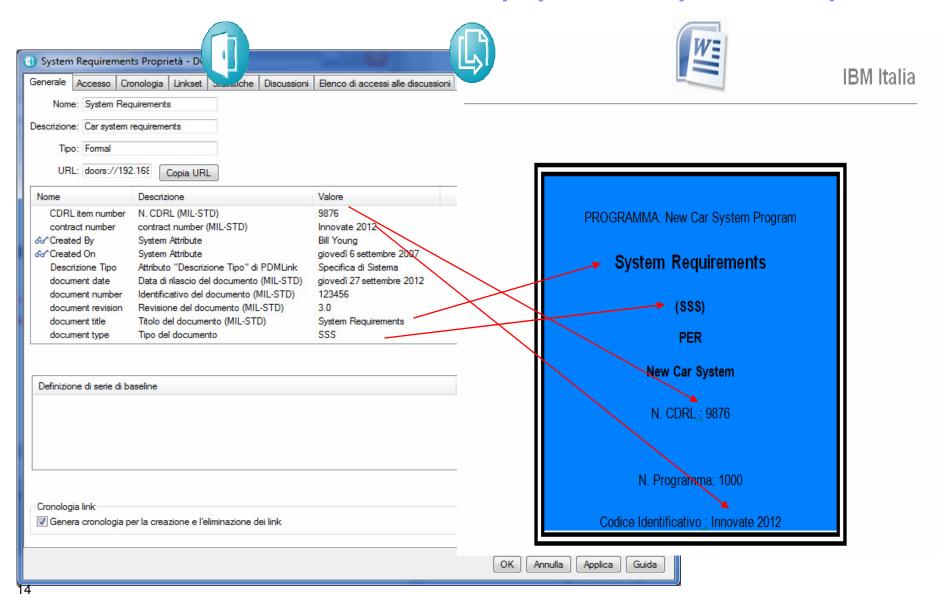




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## **RPE can use DOORS attributes to populate corporate templates**

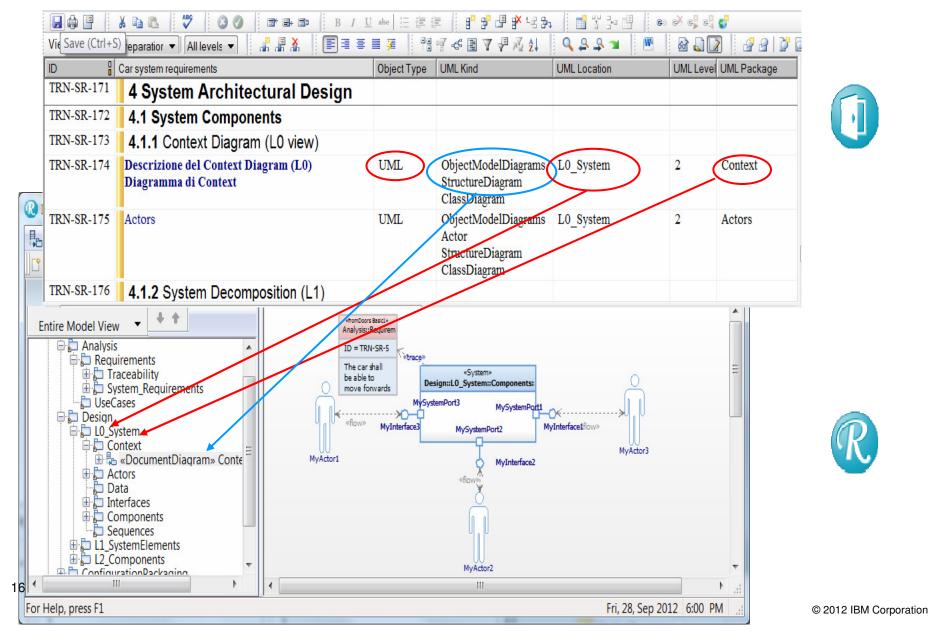


## RPE template can interpretate DOORS attribute in DOORS obj

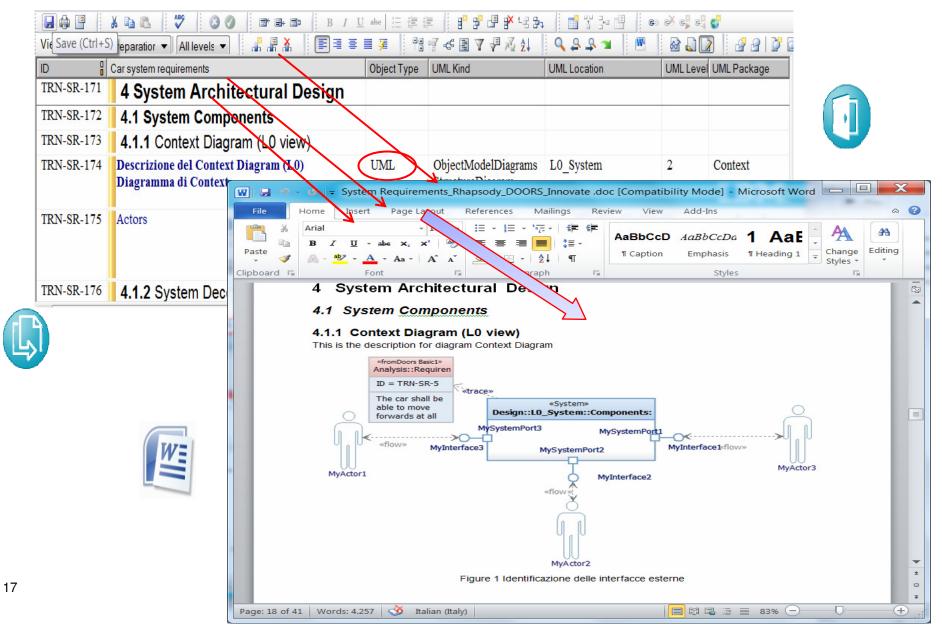
planet

📄 'System Requirements' corrente 3.0 (Prova) in /New Family Car Project/Requirements (modulo Formale) - DOORS
<u>F</u> ile Modifica <u>V</u> ista Inserisci <u>L</u> ink <u>A</u> nalisi Ta <u>b</u> ella <u>T</u> ool <u>D</u> iscussioni <u>U</u> tente <u>P</u> SToolbox <u>P</u> ublish RG 7.6.1 <u>A</u> nsaldo Breda <u>C</u> eSiFer <u>I</u> talferr <u>S</u> irio Panel <u>V</u> ari <u>E</u> NAV <u>G</u> ETS Gestione modifiche MM Admin Guida
<b>□ ⊕ □ ☆ ☆ ☆ ◇ ● ● ● ● </b> ■ ● ■ ● <b>B / U ● 日 車 ■ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</b>
Vist Salva (Ctrl+S) ent View 🔻 Tutti i livelli 🔹 📑 👬 📲 🥻 📑 🗐 🐺 🚭 📱 🖓 🖧 🖓 🖓 🧞 🕵 🔄 🍸 🖓 🖓 🤹 🛸 👋
ID Car system requirements III Is Requirement Parent Requirement Title
TRN-SR-5 <sup>I</sup> The car shall be able to move forwards at all speeds from 0 to 220 kilometers per hour on standard flat roads with winds of 0 kilometers per hour, with 280 BHP.       True       TRN-CSR-26       Car Speed      TRN-SR-5 <sup>I</sup> The car shall be able to move forwards at all speeds from 0 to 220 kilometers per hour on standard flat roads with winds of 0 kilometers per hour, with 280 BHP.       TRN-CSR-27       Car Speed      TRN-CSR-97      TRN-CSR-97       TRN-CSR-97       TRN-CSR-97
TRN-SR-6 Z 2.1.1.2 Move backwards
TRN-SR-7 The car shall be able to move backwards to a maximum speed of 25 Kilometers per hour. True TRN-CSR-30 Backward Speed
TRN-SR-% Z.1.2 Accelerate car
Nome utente: Luca Sentimenti Modalità di modifica esclusiva
5 Traceability
Requisito di System     Requisito Satisfies out
Id     Posizione     Id     Denominazione     Rif.       TRN-SR-5     2.1.1.1.0-1     TRN-CSR-26     Users shall be able to travel at speeds     3.1.3.1.1.0-1
TRN-CSR-27 TRN-CSR-41 TRN-CSR-97Users shall be able to accelerate from 0 Users shall be able to travel in safety 
TRN-SR-7 2.1.1.2.0-1 TRN-CSR-30 Users shall be able to move backwards to 3.1.3.1.2.0-1
TRN-SR-9 2.1.2.0-1 TRN-CSR-27 TRN-CSR-98 Users shall be able to accelerate from 0 3.1.3.1.1.0-2   3.1.14.0-2 3.1.14.0-2
TRN-SR-10 2.1.2.0-2 TRN-CSR-98 TRN-CSR- 124 The user shall be able to travel up and Users shall be able to accelerate from 1 3.1.14.0-2 3.1.3.1.10-3
TRN-SR-11     21 2 0 -3     TRN-CSR-     Lisers shall be able to accelerate from 1     31 3 1 1 0 4     *       Page: 17 of 22     Words: 3.647

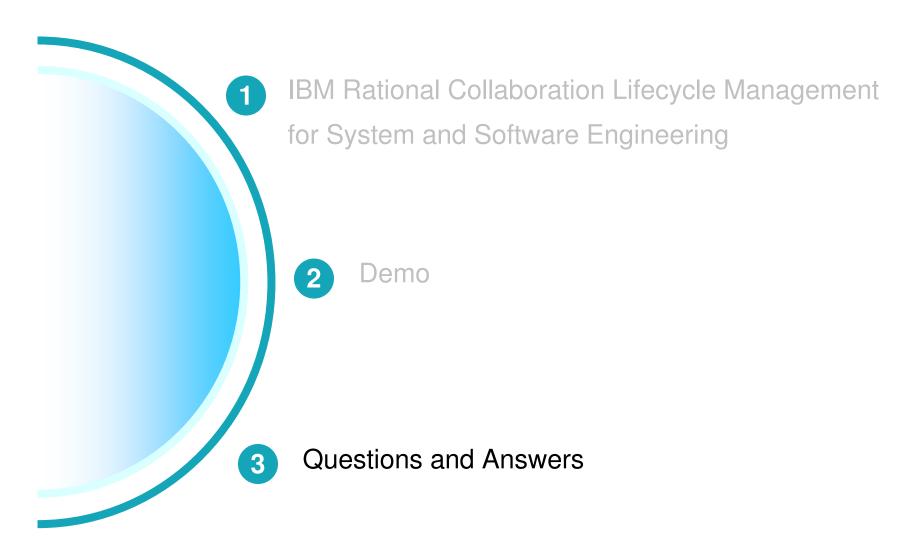














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