Session PA-1234: Integrated Application Lifecycle Management Using SAP and IBM Rational Tools

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Application Lifecycle Management with SAP Solution Manager and IBM Rational Software

SAP Solution Manager

- Reduces risk and lowers TCO through standardized and integrated E2E Solution Operations according to ITIL
- Optimizes business benefits through a comprehensive and integrated quality management process
- Leverages built-in innovation by making innovation a non-event and protecting existing investments

IBM Rational

End-to-end Quality Management is a key element of effective Application Life-cycle Management to help lower costs and improve deployment success
IBM Rational Connector for SAP Solution Manager

Customer Benefits

- Allows customers to combine SAP & IBM best practices & standards
- Combine SAP Solution Manager life-cycle management capabilities with IBM Rational's integrated governance and quality management capabilities
- Enables end-to-end business process testing
- Aligns enterprise architecture and requirements with SAP-centric Solutions

Rational software

Requirements Management
Quality Management
Change/Defect Management
End-to-End ALM of SAP-centric Solutions

1. **Solution Manager**
   - **Business Blueprint**
     - Setup of business process hierarchy
     - Business requirements
   - **Business Process Change Analyzer**
     - Identification of business processes affected by code / customizing changes

2. **Solution Manager**
   - **Service Desk**
     - Incident Management

3. **Rational** software
   - **Quality Manager**
     - Test Planning
     - Test Requirements
     - Business requirements linked with test cases
   - **Requirements Composer**
     - Business to IT requirements

4. **Rational** software
   - **Team Concert**
     - Defect and Change management
   - **Lab Management**
     - Test Planning
   - **Defect Tracking**

5. **Deploy Changes to Production**
End-to-End Quality Management of SAP-centric Solutions

Magic Quadrant for Integrated Software Quality Suites
ALM Process Flow

**SAP Solution Manager**
- Model Business Processes
- Configure System
- Realize Specification
- Transfer Blueprint
- Display Test Results
- Handle SAP Incidents
- Display SAP Incidents

**Rational Requirements Composer**
- Create Requirements
- Push Blueprint (On Demand / Batch)
  (Flexible Mapping Possible)
- Report Test Results Back (On Demand / Batch)
- Create OSLC Link to New Incident and Back-Pointer to Workitem

**Rational Quality Manager**
- Create Test Cases and Test Plans
- Create Test Scripts
- Execute Tests
- Create Workitem with OSLC Link to Incident

**Rational Team Concert**
- Create Workitems
- Export Workitem
- Import SAP Incidents

**SAP Solution Manager** benefits from:
- Import SAP Incidents

**Rational Requirements Composer** benefits from:
- Create Requirements

**Rational Quality Manager** benefits from:
- Create Test Cases and Test Plans

**Rational Team Concert** benefits from:
- Create Workitems
Blue Harmony

- Blue Harmony is the IBM internal deployment of SAP packaged applications
- 5 year project – begun in 2009
- Spans 170 countries
- Largest single deployment of SAP packaged applications
- Part of a strategic partnership between IBM and SAP
Blue Harmony Use of IBM Rational Connector for SAP Solution Manager

- Test and requirements management for Blue Harmony development using SAP Solution Manager and Rational Tools, powered by IBM Rational Connector for SAP Solution Manager
- Actually connector was developed as part of Blue Harmony
- Connector allowed Blue Harmony to pre-populate Rational Quality Manager with the project and testing requirements allowing test cases to be written to directly cover the Blue Harmony business process hierarchy in Solution Manager
- Connector also returned Rational Quality Manager testing results to SAP Solution Manager documenting full testing of the project business process hierarchy
Blue Harmony Use of IBM Rational Connector for SAP Solution Manager (continued)

- 3 environments (production, QA in US, sandbox for development in Germany)
- Test objects -->> Test Cases: 19156, Requirements: 19156
- Business Scenarios -->> Test Plans: 501
- Test Suites: 20139, Test Execution Records: 20363, Test Execution Results: 61968
www.ibm.com/software/rational

(Come to Integration Center too)
Architecture for the IBM Rational Connector for SAP Solution Manager

- Web Application that sits as communication layer in front of the Rational Tools and interfaces with SAP Solution Manager
- Uses SAP provided web services to communicate with Solution Manager
  - Web service request secured by SAML trust relationships between servers
- Pluggable, web-based architecture
  - Abstracts multiple products from Rational

- Uses OSLC for Rational products
QUESTIONS

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