

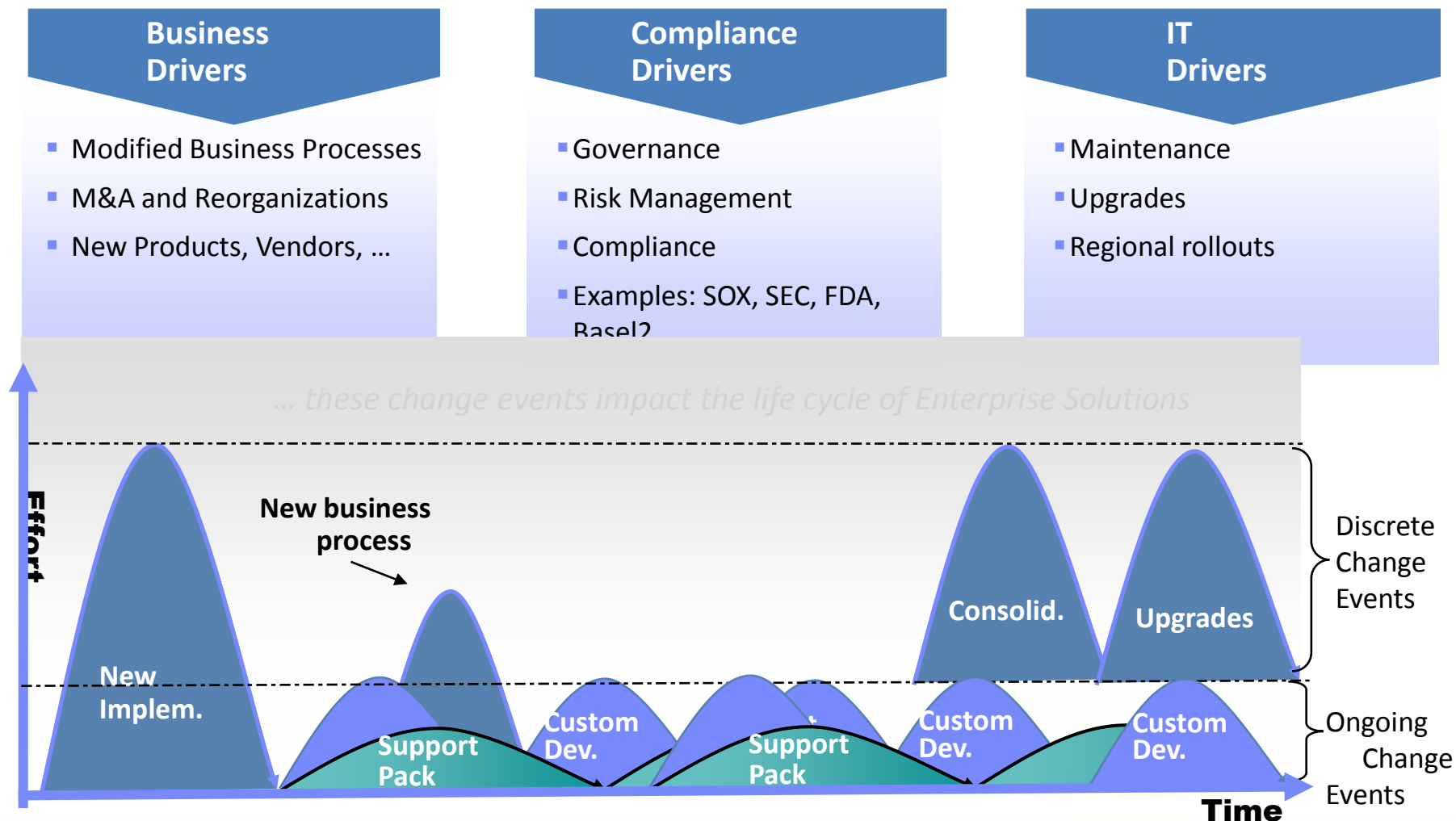
# Application Lifecycle Management for SAP Powered by IBM Rational



Date: 9th August, 2012 Venue: The Leela Palace, Bangalore

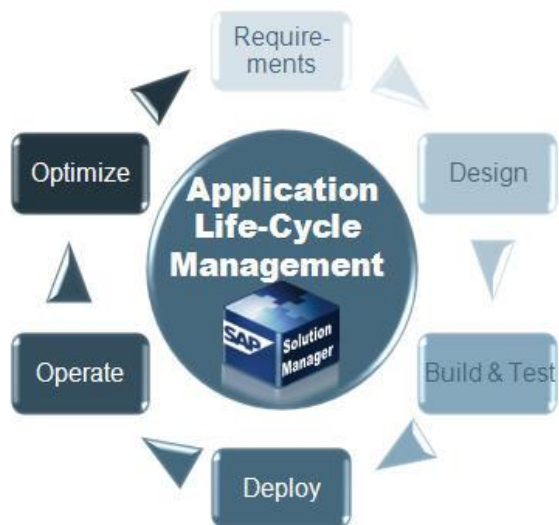
# Change is Critical to Business Innovation

*There are 3 key drivers for change events...*



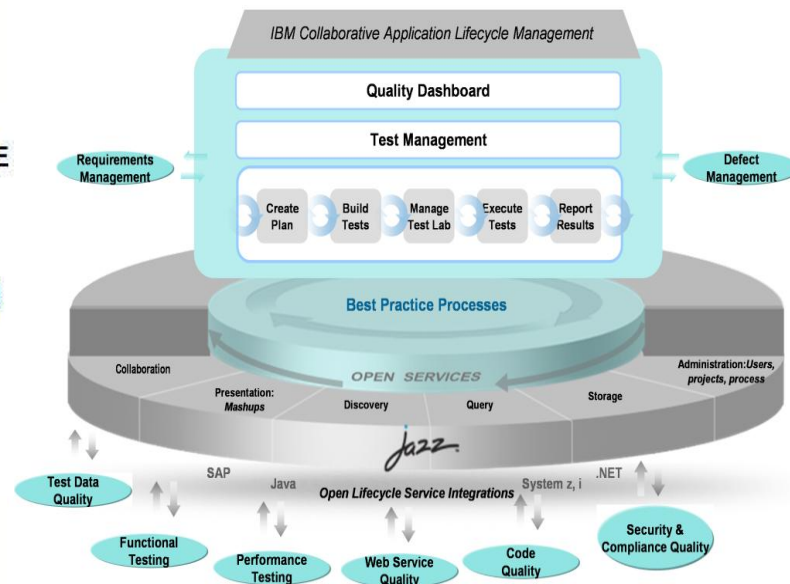
# Application Lifecycle Management with SAP Solution Manager and IBM Rational Software

## 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



**“Our collaboration with IBM Rational brings together the best of our combined application lifecycle management market leadership and can help customers reduce costs, manage change, and improve quality across the enterprise applications lifecycle.”**

**Uwe Hommel : Executive Vice President, SAP**

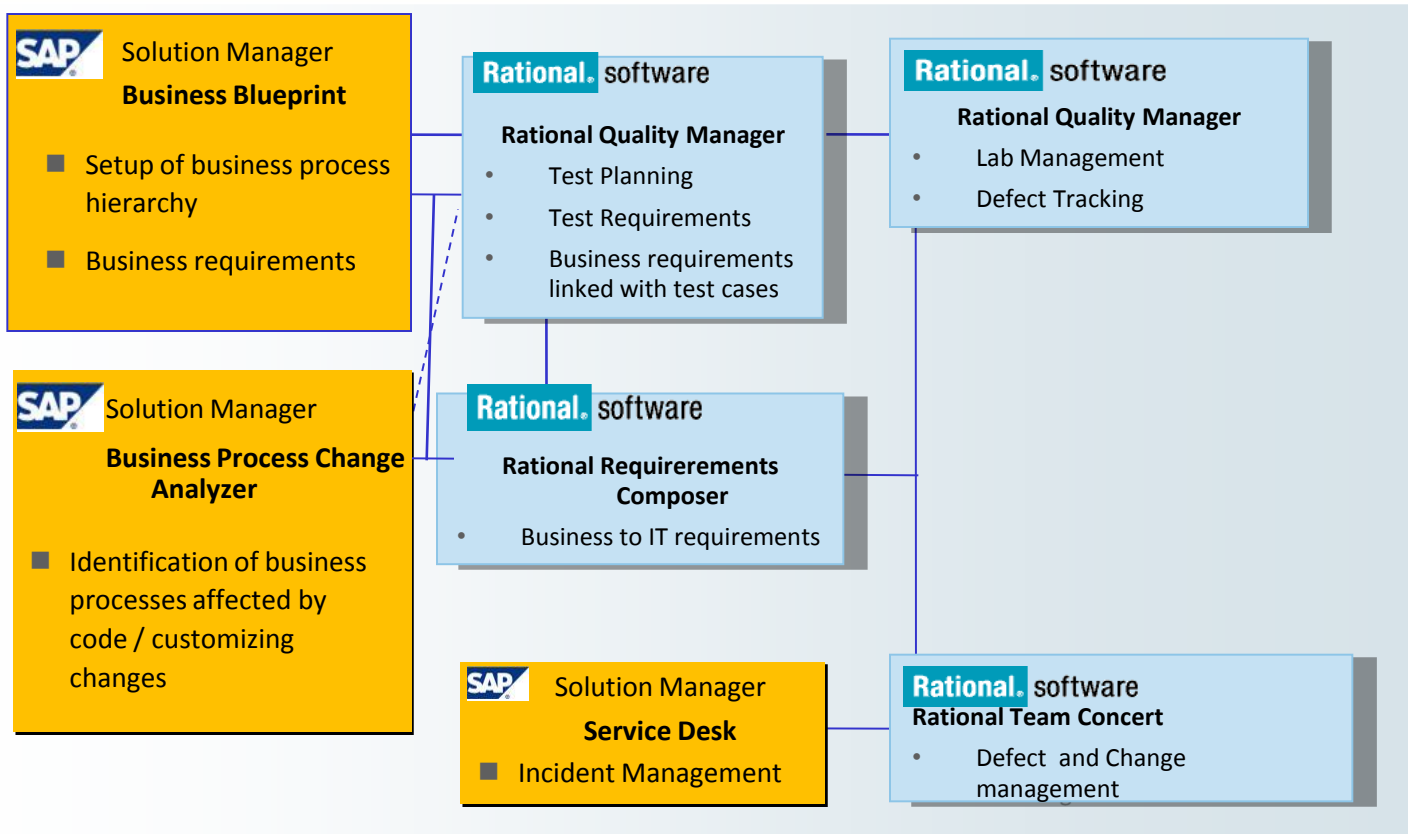
## IBM Rational Connector for SAP Solution Manager



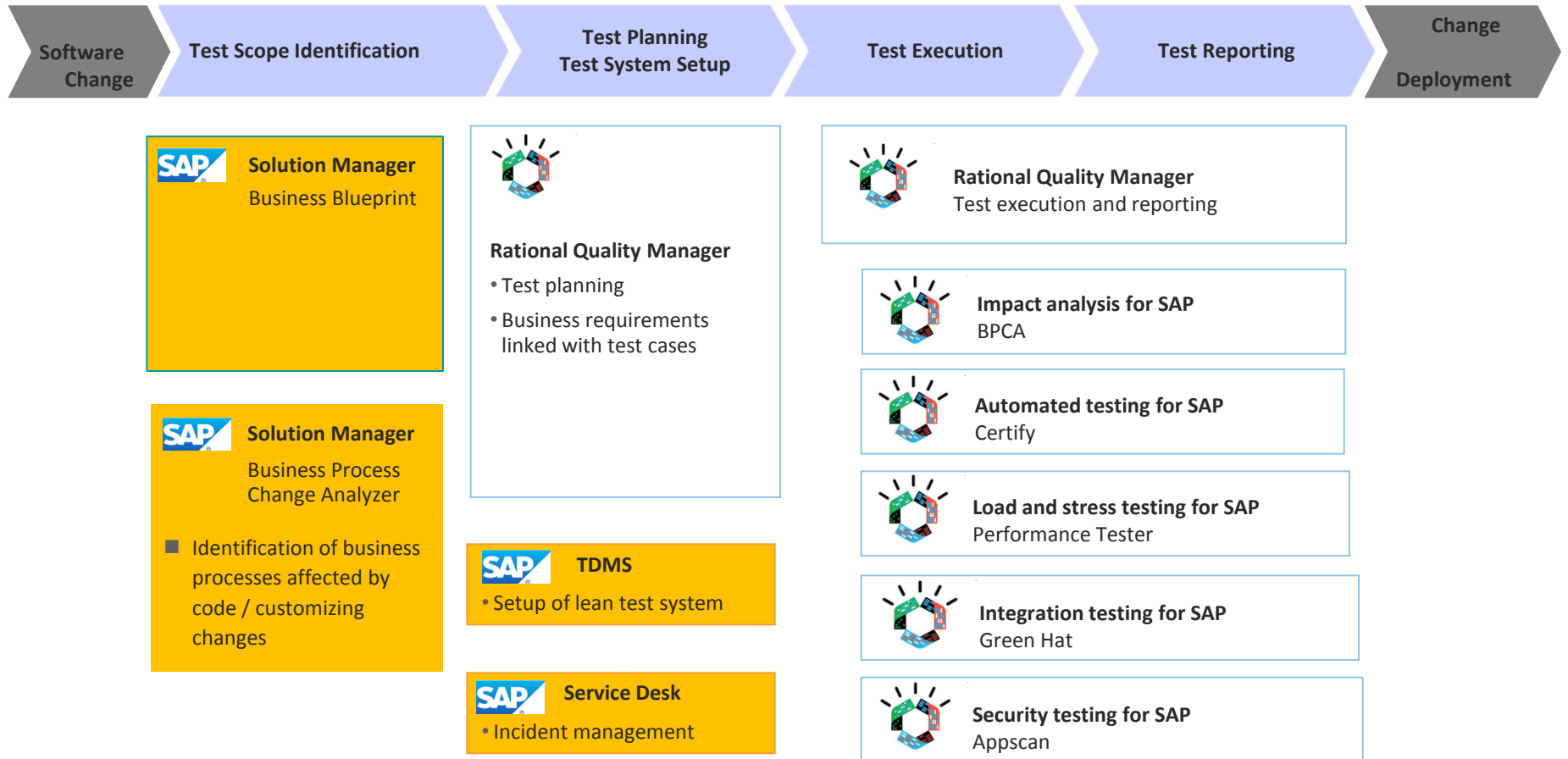
### Customer Benefits

- 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

# End-to-End ALM of SAP-centric Solutions



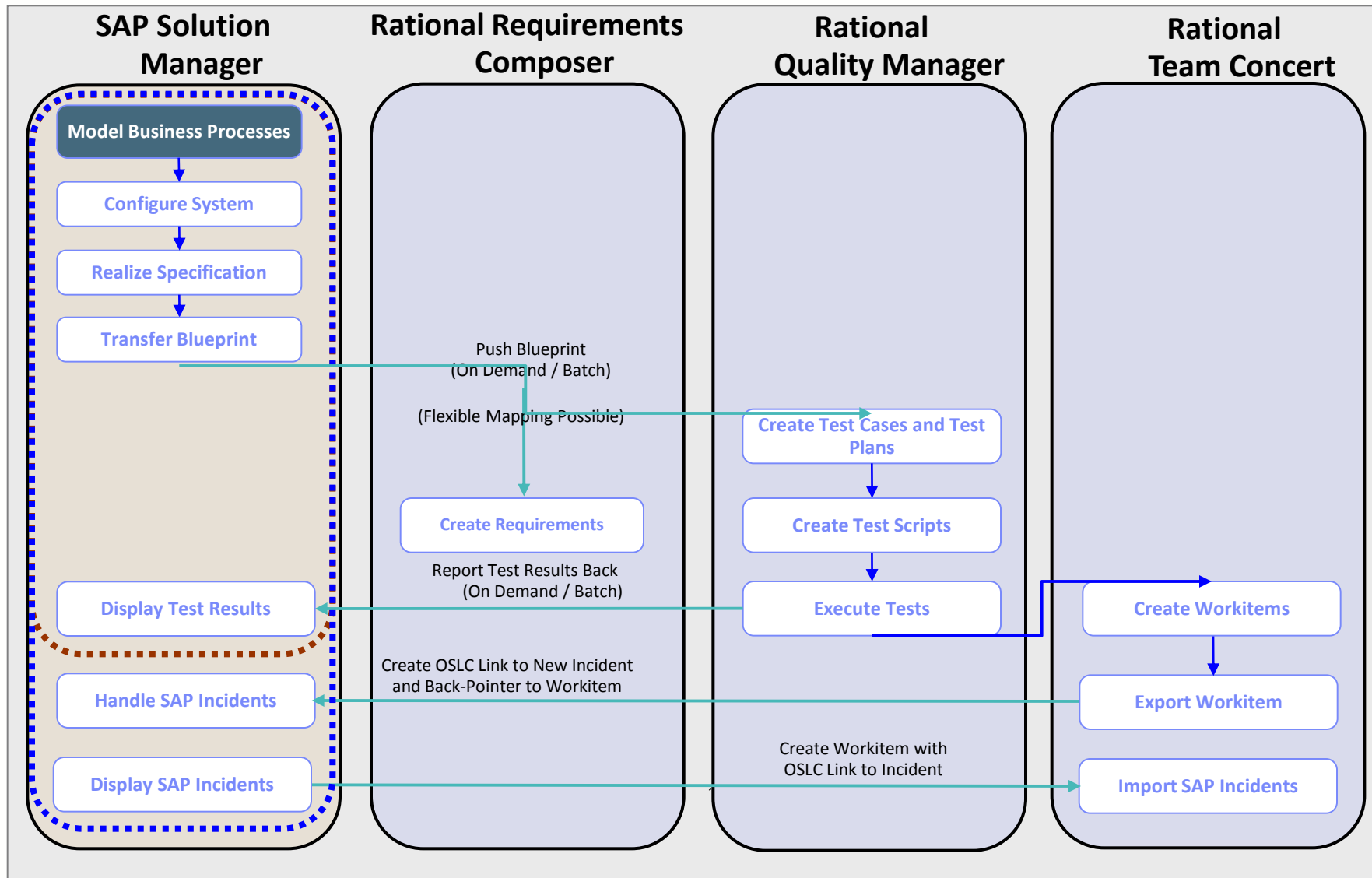
# End-to-End Quality Management of SAP-centric Solutions



Magic Quadrant for Integrated Software Quality Suites

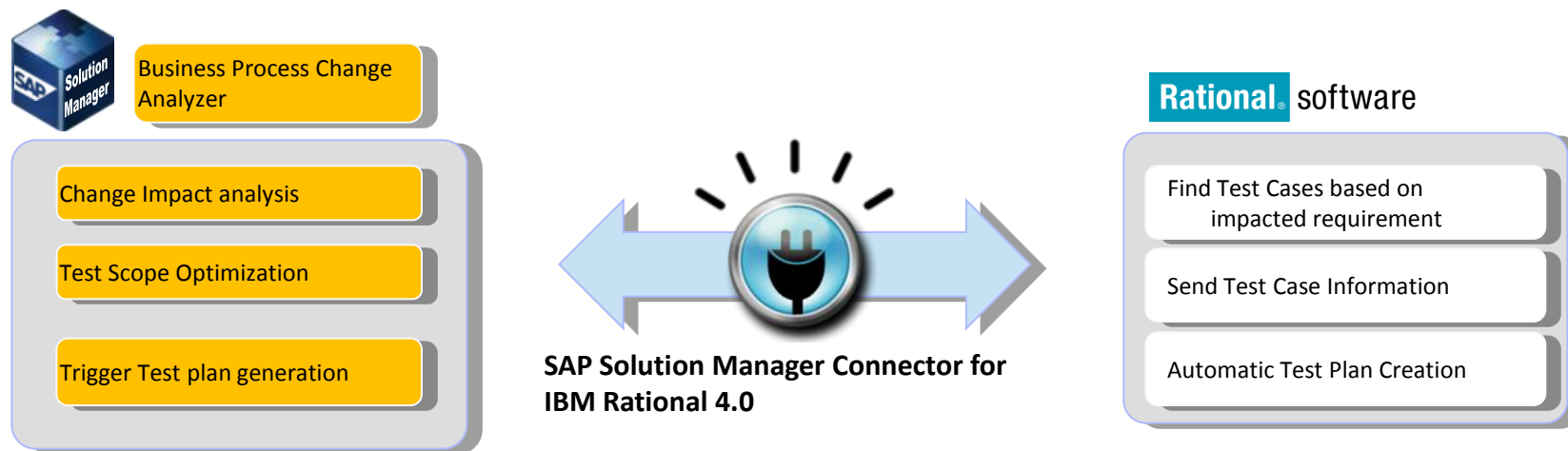


# ALM Process Flow



## BPCA Integration with IBM Rational Quality Manager

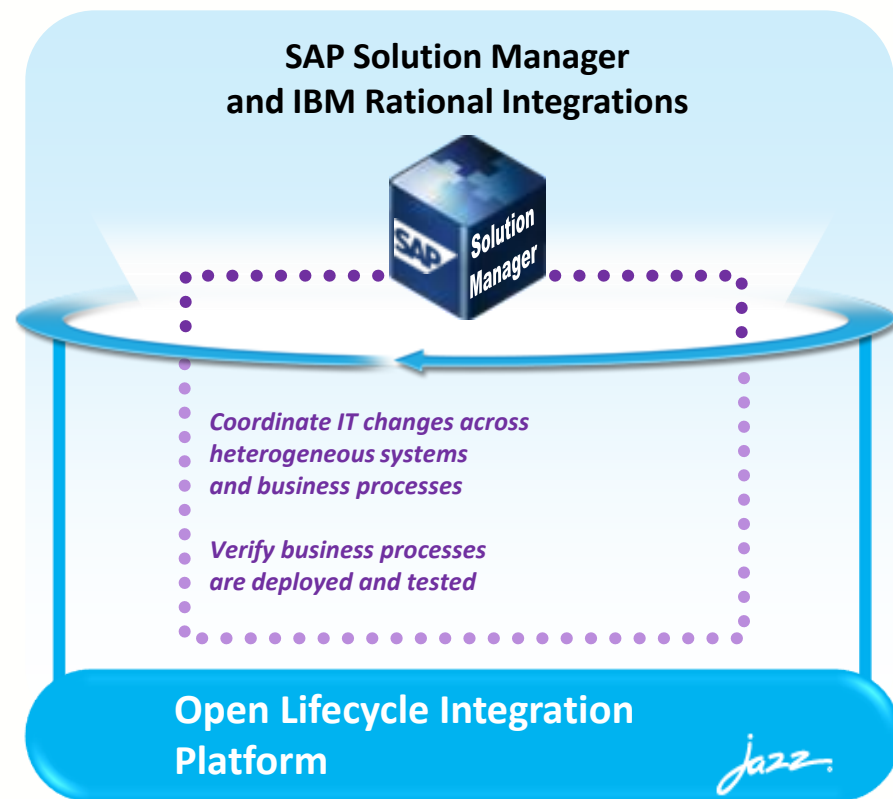
- ❑ Customer uses Rational Quality Manager for creation and Maintenance of Tests
- ❑ Customer uses BPCA for change impact analysis
- ❑ Customer needs to create a test plan/test suite in Rational Quality Manager based on the BPCA Analysis results
- ❑ The integration makes use of test scope optimization in SAP Solution Manager 7.1





## Accelerate the delivery of SAP

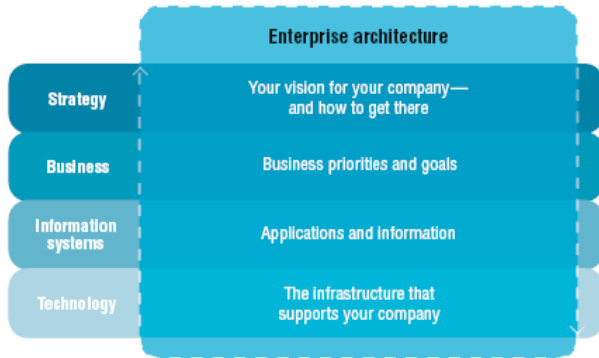
- Collaborate better with integrated requirements, quality and change management
  - Full Rational CLM integration support (Rational Requirements Composer, Rational Quality Manager and Rational Team Concert) built on OSLC standard
- Achieve faster impact analysis of change requests
  - Out of the box integration with Business Process Change Analyzer
- Apply unified SAP and IBM best practices and standards



- IBM Rational Connector for SAP Solution Manager:
  - IBM Rational Requirements Composer
  - IBM Rational Team Concert
  - IBM Solution for Collaborative Lifecycle Management

*“Encouraging collaboration between business stakeholders and the IT team, SAP Solution Manager and IBM Rational software help to minimize errors and other risks while maximizing business results.”*

## IBM Enterprise Planning for SAP



### Benefits:

Architect the right implementation for you, leveraging SAP and your existing IT infrastructure

Get a big picture view of existing SAP implementation (understand dependencies)

Visualize, analyze, plan and communicate your SAP deployment on an ongoing basis to assure your investment in SAP attain maximum business impact.

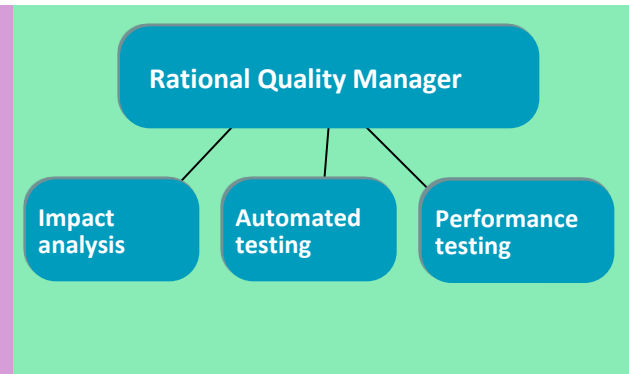
## IBM Application Lifecycle Management for SAP



### Benefits:

An integrated solution for lifecycle management designed to help the SAP implementation team improve their productivity with integrated requirements and change management capabilities.

## IBM Quality Management for SAP



### Benefits:

Verify that your business processes have been deployed & tested in your SAP implementation

Comprehensive test management of SAP solutions

Enable end-to-end business process testing between SAP and customer applications

Reduce downtime and improve scalability and performance

Automated Functional Testing

What do you want to do next, now!



### 3 ways to optimize your SAP implementation with IBM Application Lifecycle Management for SAP

- IBM Enterprise Planning for SAP
- IBM Application Lifecycle Management for SAP
- IBM Quality Management for SAP

- 1) [Read SAP's solution brief on using IBM Rational and SAP](#)
- 2) [Experience Rational tools on our cloud](#)
- 3) [Download the no-charge Jazz connector for SAP](#)
- 4) Upgrade to SAP Solution Manager 7.1
- 5) [Learn more](#) about IBM Rational [quality management capabilities](#) ([video](#))
- 6) [Take a look at how we could affect your potential ROI](#)
- 7) [Contact us. We can help run an effective proof of concept.](#)

<http://www-01.ibm.com/software/rational/solutions/sap>

## Customer Benefits

### *SAP Solution Manager and IBM Rational Software*

#### **End To End Traceability**

- Integrated requirements and quality management processes, methods, and tools
- Link business, technical, and IT artifacts across SAP and non-SAP solutions

#### **Governance**

- Comprehensive and integrated change management approach across SAP Solutions and custom-built applications
- Manage compliance against governance mandates with features including audit trails and digital signatures

#### **Quality Management**

- Collaborative quality management platform for test planning, test execution, and reporting
- Test architecture tied to SAP business requirements and business blueprint

#### **Integrated Solution**

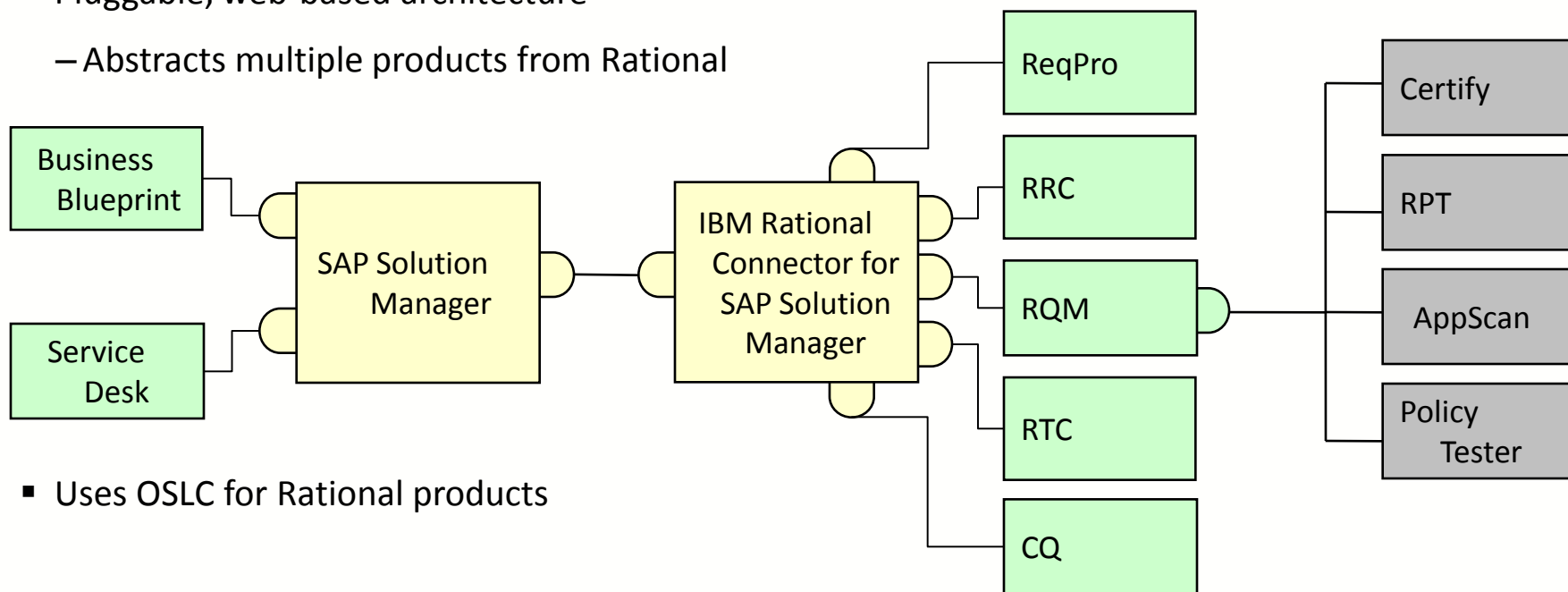
- Combines the best practices of SAP Solution Manager and IBM Rational tools to create an integrated quality management use case for our shared customers



[www.ibm.com/software/rational](http://www.ibm.com/software/rational)

## 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

## SAP and IBM



## Global Technology Partner of the year 2012

SAP uses IBM for both production and development, and IBM is one of the world's largest users of SAP – a true reflection of the high level of mutual trust.



## Additional Links/Information

Read on Developer Works and Jazz.net:

[Integrate Rational ALM applications with SAP Solution Manager](#)  
[Announcing the Rational Connector for SAP Solution Manager 4.0.0](#)

Watch on Youtube:

[IBM Rational Solutions for SAP](#)

Download and Use:

[Rational Connector for SAP Solution Manager 4.0.0](#)



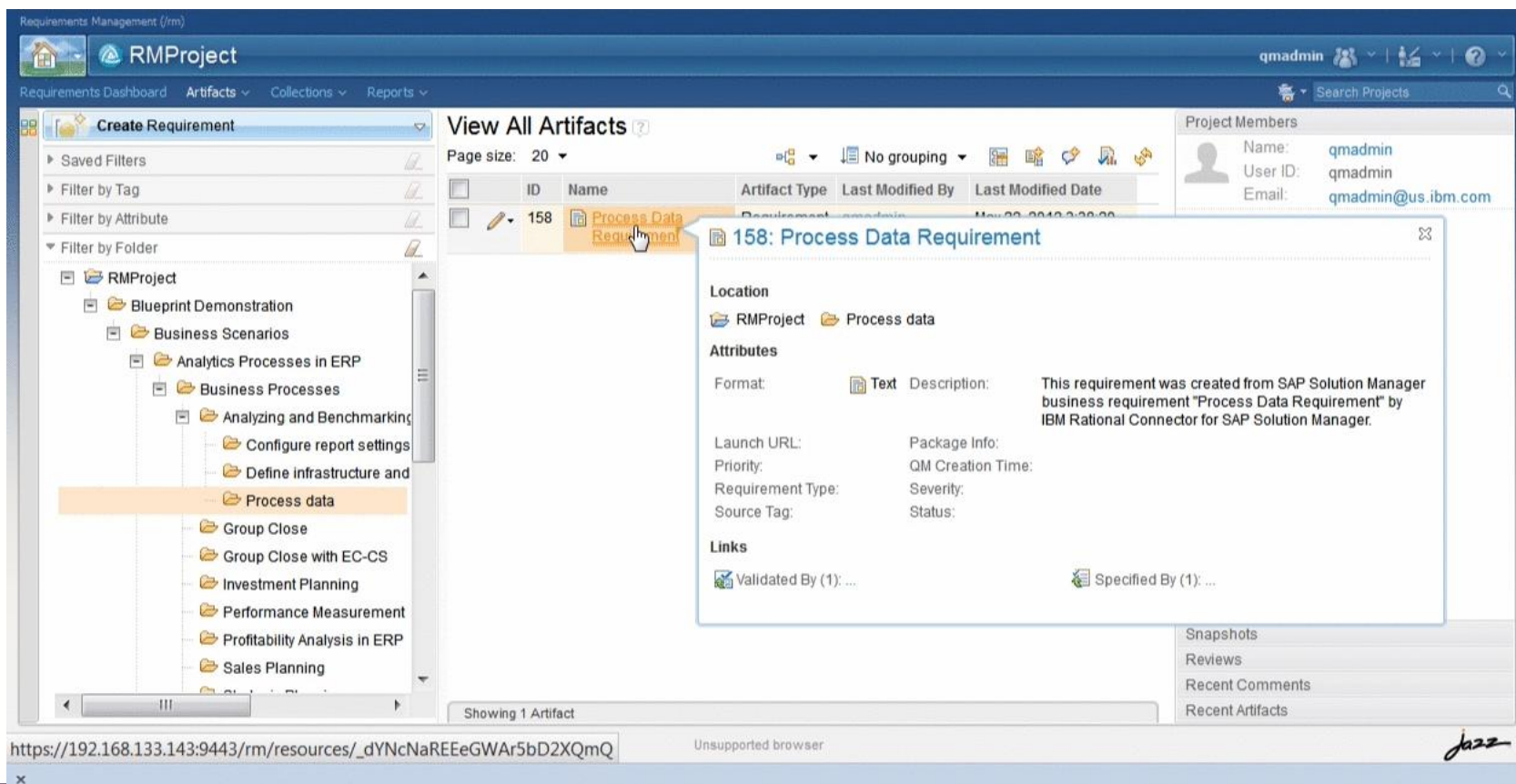
# THANK YOU

[www.ibm.com/software/rational](http://www.ibm.com/software/rational)

Rajesh Bhawe, Senior Consultant, Quality Management Products  
rajbhawe@in.ibm.com

## Integration Scenario Sample – Blueprint Push

1. Connector creates requirements, test plans and test cases in CLM project
2. All data is linked for traceability using the OSLC standard
3. Requirement collections are used to structure the requirements (Business Scenarios, Processes, Steps)



The screenshot displays the IBM Requirements Management (RM) web application interface. The main view is titled "View All Artifacts" and shows a table of requirement artifacts. A specific artifact, "158: Process Data Requirement", is selected and its details are shown in a pop-up window.

**Table: View All Artifacts**

ID	Name	Artifact Type	Last Modified By	Last Modified Date
158	Process Data Requirement	Requirement	qadmin	May 22, 2012 3:28:00

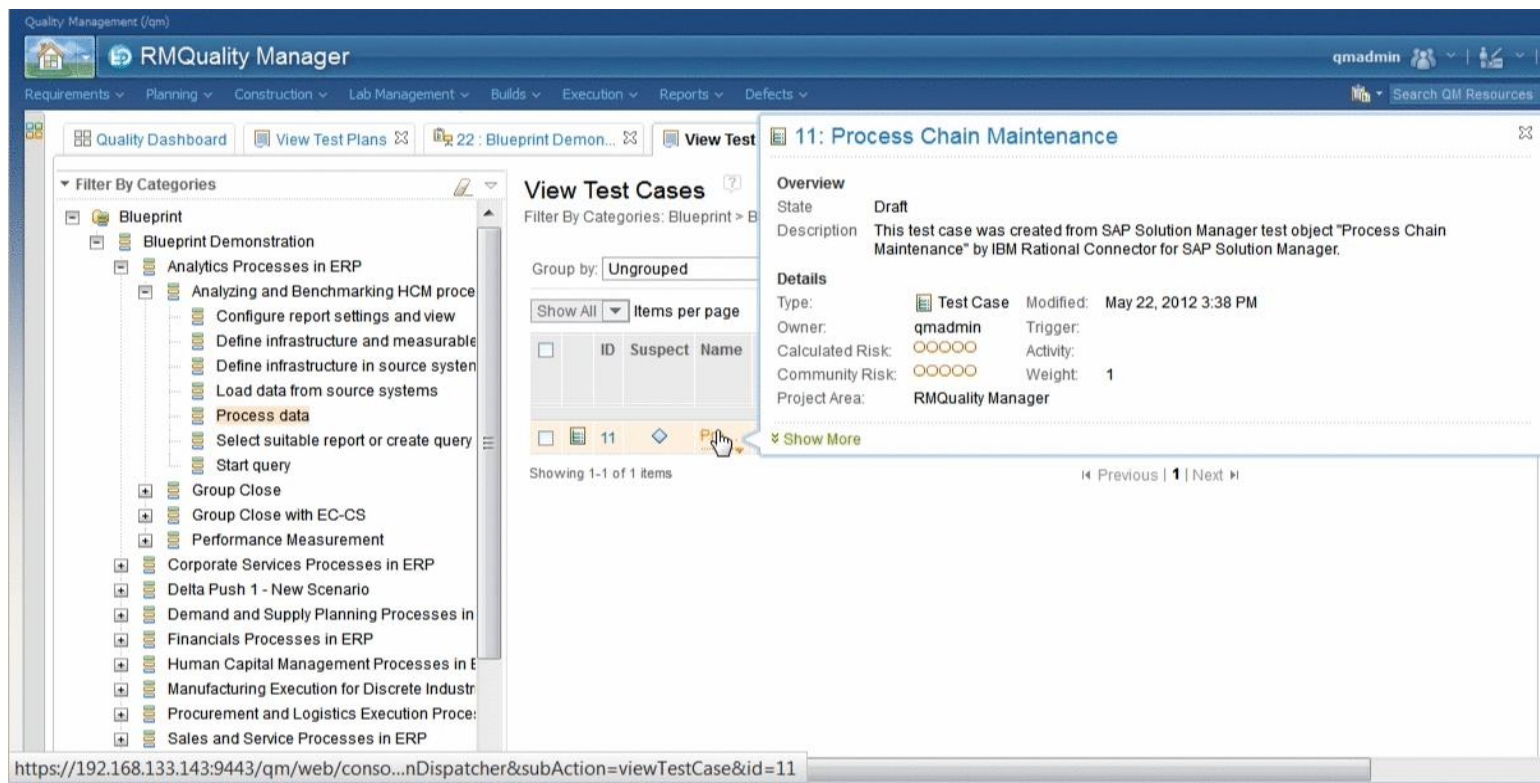
**Artifact Details: 158: Process Data Requirement**

- Location:** RMPProject / Process data
- Attributes:**
  - Format: Text
  - Description: This requirement was created from SAP Solution Manager business requirement "Process Data Requirement" by IBM Rational Connector for SAP Solution Manager.
  - Launch URL:
  - Priority:
  - Requirement Type:
  - Source Tag:
  - Package Info:
  - QM Creation Time:
  - Severity:
  - Status:
- Links:**
  - Validated By (1): ...
  - Specified By (1): ...

The interface also shows a navigation tree on the left with folders like "Business Scenarios", "Analytics Processes in ERP", and "Business Processes". The "Process data" folder is currently selected. The top right shows user information for "qadmin".

## Integration Scenario Sample – Blueprint Push

1. Test case categories are used to reflect Blueprint structure
2. Supports easier navigation and enhances reporting



The screenshot displays the IBM Rational Quality Manager (RMQuality Manager) web interface. The main navigation bar includes tabs for Requirements, Planning, Construction, Lab Management, Builds, Execution, Reports, and Defects. The left sidebar shows a tree view under 'Filter By Categories' with a 'Blueprint' folder expanded to show a 'Blueprint Demonstration' folder, which contains a 'Process data' folder. The main content area is titled 'View Test Cases' and shows a table with one item: '11'. The details panel on the right provides an overview of the test case, including its state (Draft), description, and details such as type (Test Case), owner (qmadmin), and modified date (May 22, 2012 3:38 PM).

**Quality Management (/qm)**  
**RMQuality Manager**  
 qmadmin

Requirements Planning Construction Lab Management Builds Execution Reports Defects Search QM Resources

Quality Dashboard View Test Plans 22 : Blueprint Demon... View Test 11: Process Chain Maintenance

**Filter By Categories**

- Blueprint
  - Blueprint Demonstration
    - Analytics Processes in ERP
      - Analyzing and Benchmarking HCM proce
      - Configure report settings and view
      - Define infrastructure and measurable
      - Define infrastructure in source system
      - Load data from source systems
      - Process data
      - Select suitable report or create query
      - Start query
      - Group Close
      - Group Close with EC-CS
      - Performance Measurement
      - Corporate Services Processes in ERP
      - Delta Push 1 - New Scenario
      - Demand and Supply Planning Processes in
      - Financials Processes in ERP
      - Human Capital Management Processes in E
      - Manufacturing Execution for Discrete Industr
      - Procurement and Logistics Execution Proce:
      - Sales and Service Processes in ERP

**View Test Cases**  
 Filter By Categories: Blueprint > B

Group by: Ungrouped

Show All Items per page

<input type="checkbox"/>	ID	Suspect	Name
<input type="checkbox"/>	11		

Showing 1-1 of 1 items

**Overview**

State: Draft

Description: This test case was created from SAP Solution Manager test object "Process Chain Maintenance" by IBM Rational Connector for SAP Solution Manager.

**Details**

Type: Test Case Modified: May 22, 2012 3:38 PM

Owner: qmadmin Trigger:

Calculated Risk: ○○○○○ Activity:

Community Risk: ○○○○○ Weight: 1

Project Area: RMQuality Manager

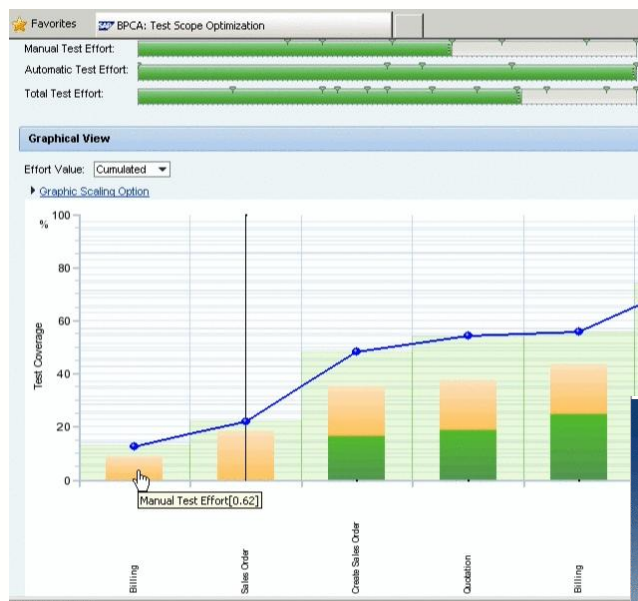
Show More

Previous | 1 | Next

https://192.168.133.143:9443/qm/web/conso...nDispatcher&subAction=viewTestCase&id=11

# Integration Scenario Sample – Business Process Change Analysis

1. Use Solution Manager's BPCA feature to identify and optimize the test scope for planned SAP changes
2. Automatically create test scope optimized test plans in RQM, based on parameters like manual test effort or test coverage



The screenshot shows the 'Create Test Plan' form. Key fields include:

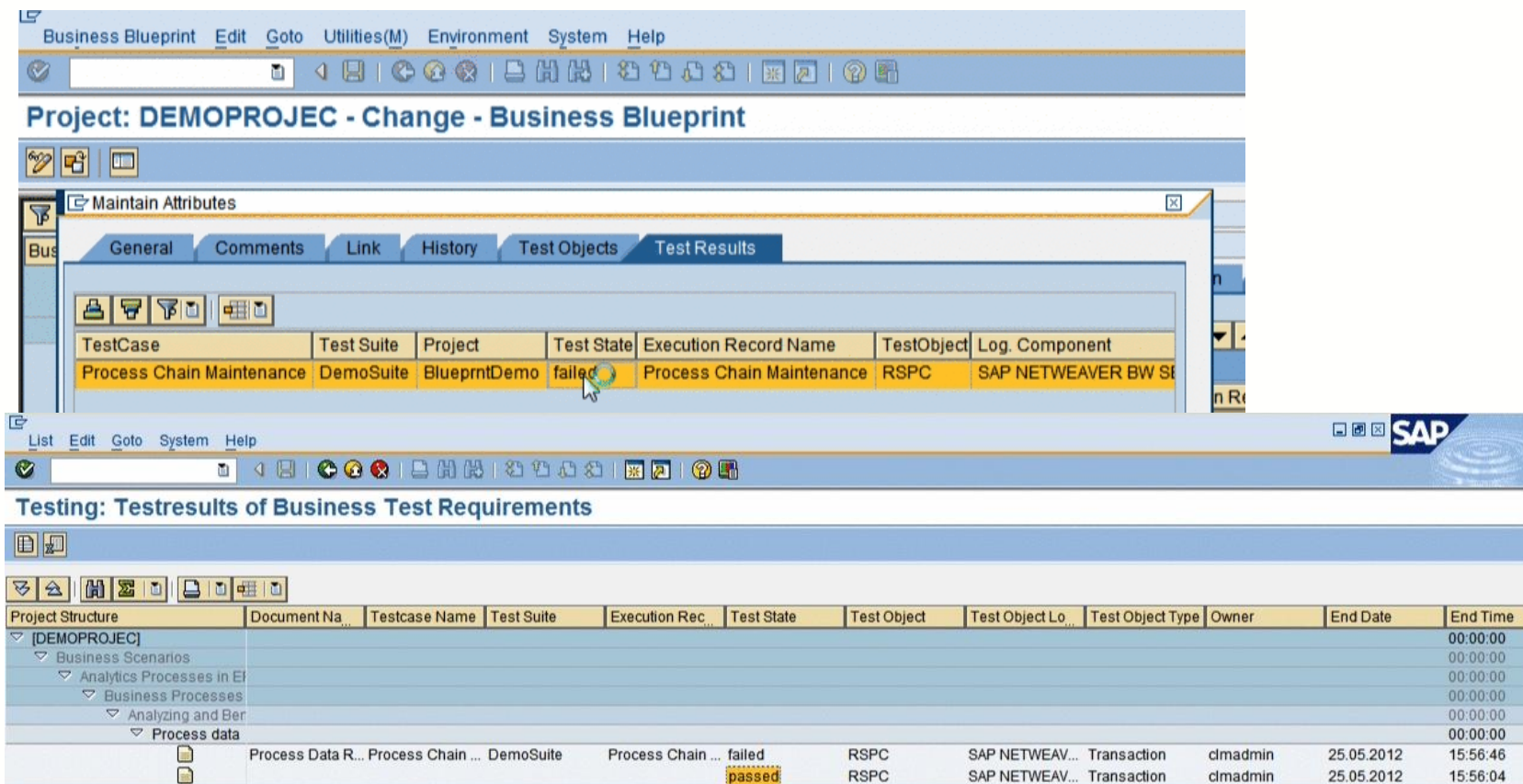
- Test Management Integration:** Partner Test Management Tool: IBM Rational SAP Connector
- Template:** Project: BPCA\_DEMO; Description: BPCA integration with IBM Rational
- General Data:** Title: BPCADemoTestPlan

The screenshot shows the 'Test Plan Overview' page for '152 : BPCADemoTestPlan'. It includes a 'Test Cases' table with the following columns: ID, Suspect, Name, State, Owner, Blueprint, Business Process, Business Process Step, Business Scenario, Connector GUID, Function, Test Component, Test Object, and Test Phase.

ID	Suspect	Name	State	Owner	Blueprint	Business Process	Business Process Step	Business Scenario	Connector GUID	Function	Test Component	Test Object	Test Phase
315	Cre...	Dr...	clm...	BPCA...	Order...	Quotat...	Logist...	005056...	Unas...	ZBPCA...	VA...	Un...	
316	Cre...	Dr...	clm...	BPCA...	Order...	Sales...	Logist...	005056...	Unas...	ZBPCA...	VA...	Un...	
318	Cha...	Dr...	clm...	BPCA...	Order...	Good...	Logist...	005056...	Unas...	ZBPCA...	VL...	Un...	
319	Cre...	Dr...	clm...	BPCA...	Order...	Billing	Logist...	005056...	Unas...	ZBPCA...	VA...	Un...	
320	Cre...	Dr...	clm...	BPCA...	Order...	Billing	Logist...	005056...	Unas...	ZBPCA...	VF...	Un...	
321	Cha...	Dr...	clm...	BPCA...	Credit...	Settin...	Logist...	005056...	Unas...	ZBPCA...	FD...	Un...	
322	Cre...	Dr...	clm...	BPCA...	Credit...	Creat...	Logist...	005056...	Unas...	ZBPCA...	VA...	Un...	
323	Blo...	Dr...	clm...	BPCA...	Credit...	Revie...	Logist...	005056...	Unas...	ZBPCA...	VK...	Un...	
324	Cre...	Dr...	clm...	BPCA...	Credit...	Creat...	Logist...	005056...	Unas...	ZBPCA...	VL...	Un...	
326	Cre...	Dr...	clm...	BPCA...	Credit...	Billing	Logist...	005056...	Unas...	ZBPCA...	VF...	Un...	

## Integration Scenario Sample – Transfer Test Results

1. Test results are automatically transferred back in to Solution Manager
2. Supports SAP quality reporting and documentation best practices



The screenshot displays the SAP Business Blueprint interface. The main window is titled 'Project: DEMOPROJEC - Change - Business Blueprint'. A sub-window titled 'Maintain Attributes' is open, showing a table of test results. The table has columns for Test Case, Test Suite, Project, Test State, Execution Record Name, Test Object, and Log. Component. The 'Test State' column shows 'failed' for the 'Process Chain Maintenance' test case.

TestCase	Test Suite	Project	Test State	Execution Record Name	TestObject	Log. Component
Process Chain Maintenance	DemoSuite	BlueprntDemo	failed	Process Chain Maintenance	RSPC	SAP NETWEAVER BW S

Below the 'Maintain Attributes' window, another window titled 'Testing: Testresults of Business Test Requirements' is visible. It shows a detailed table of test results with columns for Project Structure, Document Na..., Testcase Name, Test Suite, Execution Rec..., Test State, Test Object, Test Object Lo..., Test Object Type, Owner, End Date, and End Time.

Project Structure	Document Na...	Testcase Name	Test Suite	Execution Rec...	Test State	Test Object	Test Object Lo...	Test Object Type	Owner	End Date	End Time
[DEMOPROJEC]											00:00:00
Business Scenarios											00:00:00
Analytics Processes in E...											00:00:00
Business Processes											00:00:00
Analyzing and Ber...											00:00:00
Process data											00:00:00
Process Data R...	Process Chain ...	DemoSuite	Process Chain ...	failed	RSPC	SAP NETWEAV...	Transaction		clmadmin	25.05.2012	15:56:46
				passed	RSPC	SAP NETWEAV...	Transaction		clmadmin	25.05.2012	15:56:04

# Integration Scenario Sample – Integrate Defect Management

1. Forward a defect in RTC to SAP Service Desk
2. Defect Submission form is populated with live data from SAP Service Desk

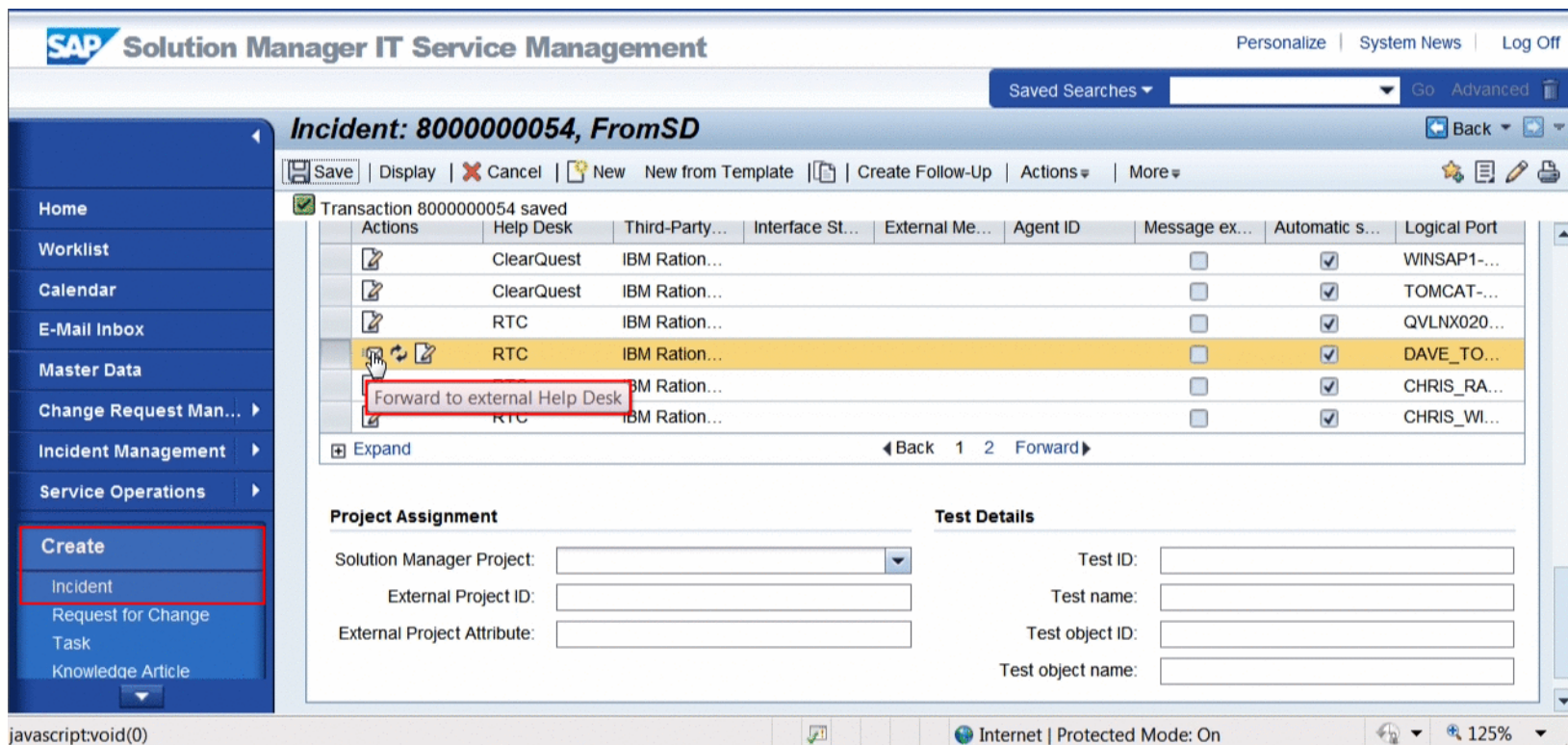
The screenshot displays the IBM Rational Team Concert (RTC) interface. The main window shows a 'Summary' for a defect titled 'DemoDefect'. A 'New Service Desk Incident' dialog box is open, showing a form populated with data from SAP Service Desk. The form fields are:

- Project: DEMOPROJEC
- Short Description: Demoincident
- System ID / Client ID: RB1:000
- Language: [KO] Korean
- Component: [AIE-All-AP] Application
- Text Type: [SU15] Information for SAP (selected)
- Priority: (empty)

The 'Text Type' dropdown menu is open, showing a list of options including [SU99] Description, [SU04] Internal Note, [SU01] Reply, [SU15] Information for SAP, [SU16] Information from SA, [SU11] Reply from SAP, [SUCT] Phone Call to SAP, [SUST] Phone Call from SAP, [SUSD] System Data, [SUZZ] Log, [SUBI] Business Consequences, [SUQA] Appl-Spec. Questions, [SURS] Reconstruction, [SUDL] Processing delay, and [SUSO] Solution. The 'Related Change Request' option is highlighted in the left sidebar.

## Integration Scenario Sample – Integrate Defect Management

1. Forward an incident from SAP Service Desk to RTC
2. Use “Forward to external Help Desk” option in Service Desk

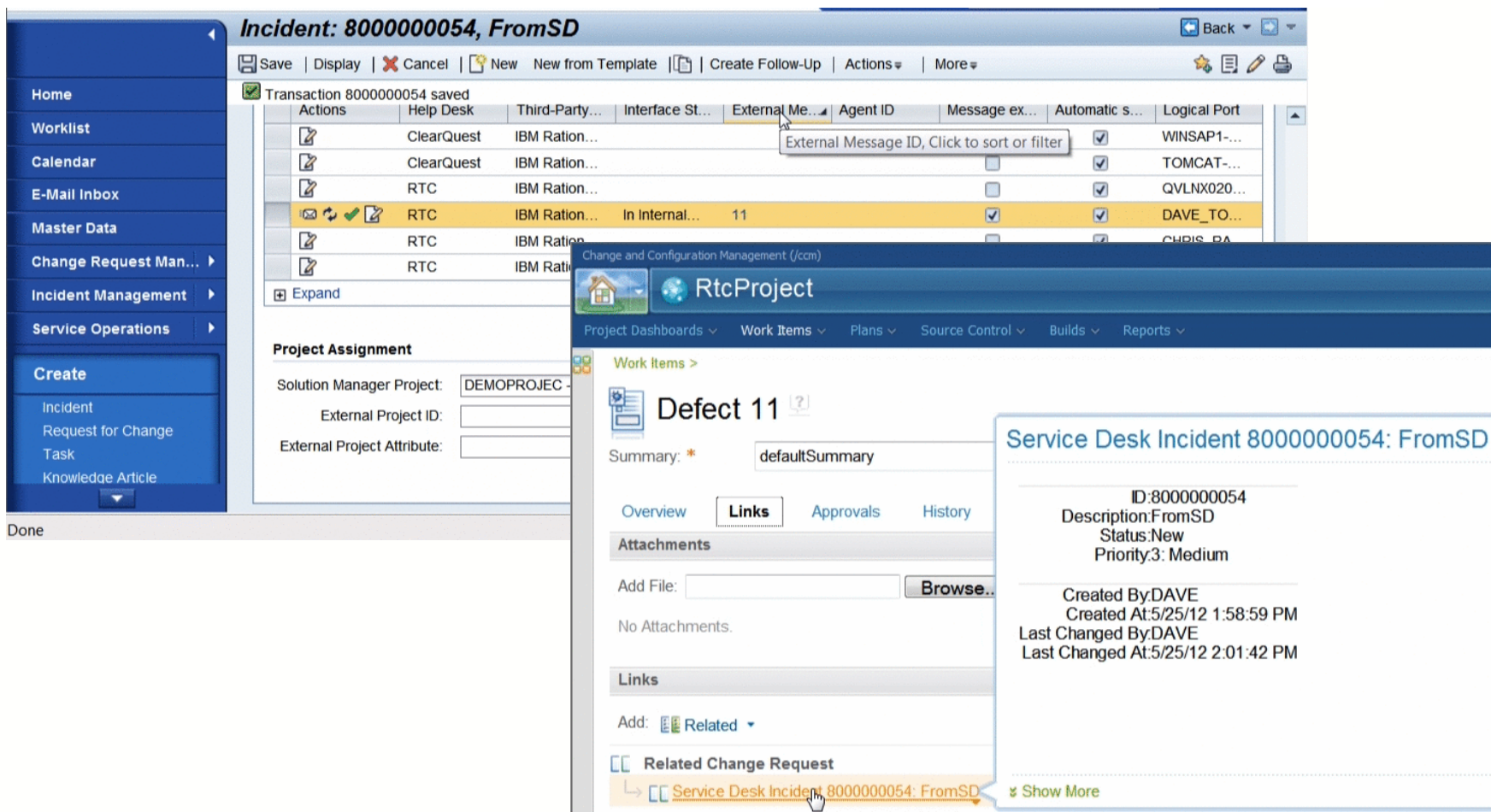


The screenshot displays the SAP Solution Manager IT Service Management interface. The main header shows 'SAP Solution Manager IT Service Management' with options for 'Personalize', 'System News', and 'Log Off'. Below the header, there's a 'Saved Searches' dropdown and 'Go' and 'Advanced' buttons. The central area is titled 'Incident: 8000000054, FromSD'. A toolbar includes 'Save', 'Display', 'Cancel', 'New', 'New from Template', 'Create Follow-Up', 'Actions', and 'More'. A message states 'Transaction 8000000054 saved'. Below this is a table with columns: Actions, Help Desk, Third-Party..., Interface St..., External Me..., Agent ID, Message ex..., Automatic s..., and Logical Port. The table contains several rows, with the 'RTC' row highlighted in yellow. A red box highlights the 'Forward to external Help Desk' button in the Actions column of this row. Below the table are 'Project Assignment' and 'Test Details' sections with various input fields.

Actions	Help Desk	Third-Party...	Interface St...	External Me...	Agent ID	Message ex...	Automatic s...	Logical Port
	ClearQuest	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	WINSAP1-...
	ClearQuest	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	TOMCAT-...
	RTC	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	QVLNX020...
	RTC	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	DAVE_TO...
	IBM Ration...					<input type="checkbox"/>	<input checked="" type="checkbox"/>	CHRIS_RA...
	RTC	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	CHRIS_WI...

# Integration Scenario Sample – Integrate Defect Management

1. New defect in RTC is linked to Service Desk incident
2. OSLC data linking model is used



The screenshot displays the IBM Rational Change and Configuration Management (RCM) interface. The main window shows a list of transactions for incident 8000000054. A tooltip indicates that the 'External Message ID' column is used for sorting or filtering.

Actions	Help Desk	Third-Party...	Interface St...	External Me...	Agent ID	Message ex...	Automatic s...	Logical Port
	ClearQuest	IBM Ration...					<input checked="" type="checkbox"/>	WINSAP1-...
	ClearQuest	IBM Ration...					<input checked="" type="checkbox"/>	TOMCAT-...
	RTC	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	QVLNX020...
	RTC	IBM Ration...	In Internal...	11		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DAVE_TO...
	RTC	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	CHRIS BA...
	RTC	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Below the table, the 'Project Assignment' section shows the following details:

- Solution Manager Project: DEMOPROJEC-
- External Project ID: [Empty]
- External Project Attribute: [Empty]

An overlay window titled 'RtcProject' shows the details for 'Defect 11'. The 'Links' tab is active, displaying a list of related items:

- Summary: \* defaultSummary
- Overview | **Links** | Approvals | History
- Attachments: No Attachments.
- Links: Add: Related
- Related Change Request: [Service Desk Incident 8000000054: FromSD](#)

A separate window titled 'Service Desk Incident 8000000054: FromSD' provides the following details:

- ID: 8000000054
- Description: FromSD
- Status: New
- Priority: 3: Medium
- Created By: DAVE
- Created At: 5/25/12 1:58:59 PM
- Last Changed By: DAVE
- Last Changed At: 5/25/12 2:01:42 PM