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**Title: Address SAP Application Lifecycle Complexity  
by Integrating with IBM Rational CLM**



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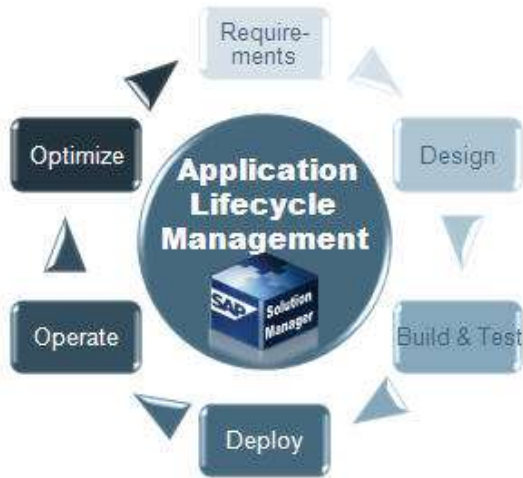
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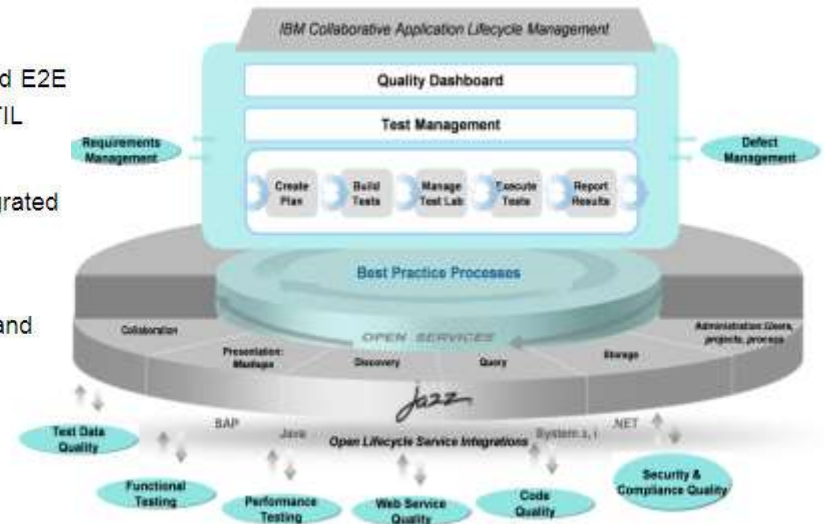
# Application Lifecycle Management with SAP Solution Manager and IBM Rational software

## 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 Lifecycle Management to help lower costs and improve deployment success*

# SAP Solution Manager – IBM Rational Integration



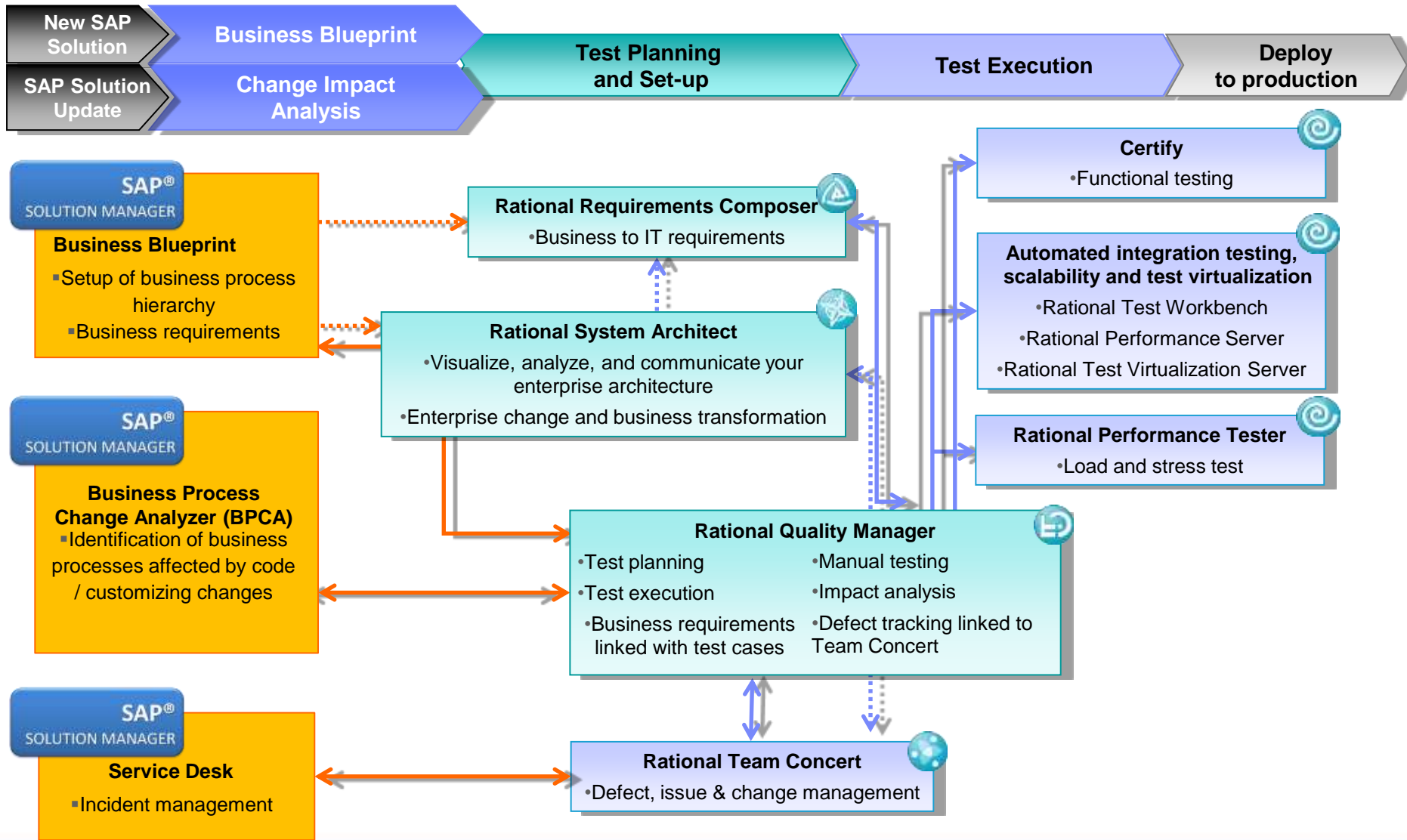
## Functional View

- Import SAP Solution Manager Business Blueprint into IBM Rational Quality Manager & IBM Rational Requirements Composer (RequisitePro)
- Update test results into SAP Solution Manager
- Integrate with SAP Service Desk

## 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 between SAP and customer applications
- Aligns enterprise architecture and requirements with SAP-centric Solutions

# Bringing it together... Rational solutions for SAP



# SAP Solution Manager – IBM Rational Integration

*Delivering End-to-end test management for SAP-centric solutions*



## SAP Solution Manager

Create SAP Solution Manager Project

Create Business Blueprint

Configure SAP Solution

Analyze Test Results

Manage Incidents

Close SAP Solution Manager Project



## IBM Rational Software

Rational software

Create Rational CLM Project

Create process hierarchy

Create Test Plan and Requirements Set

Create Test Scripts

Execute Tests

Manage Defects

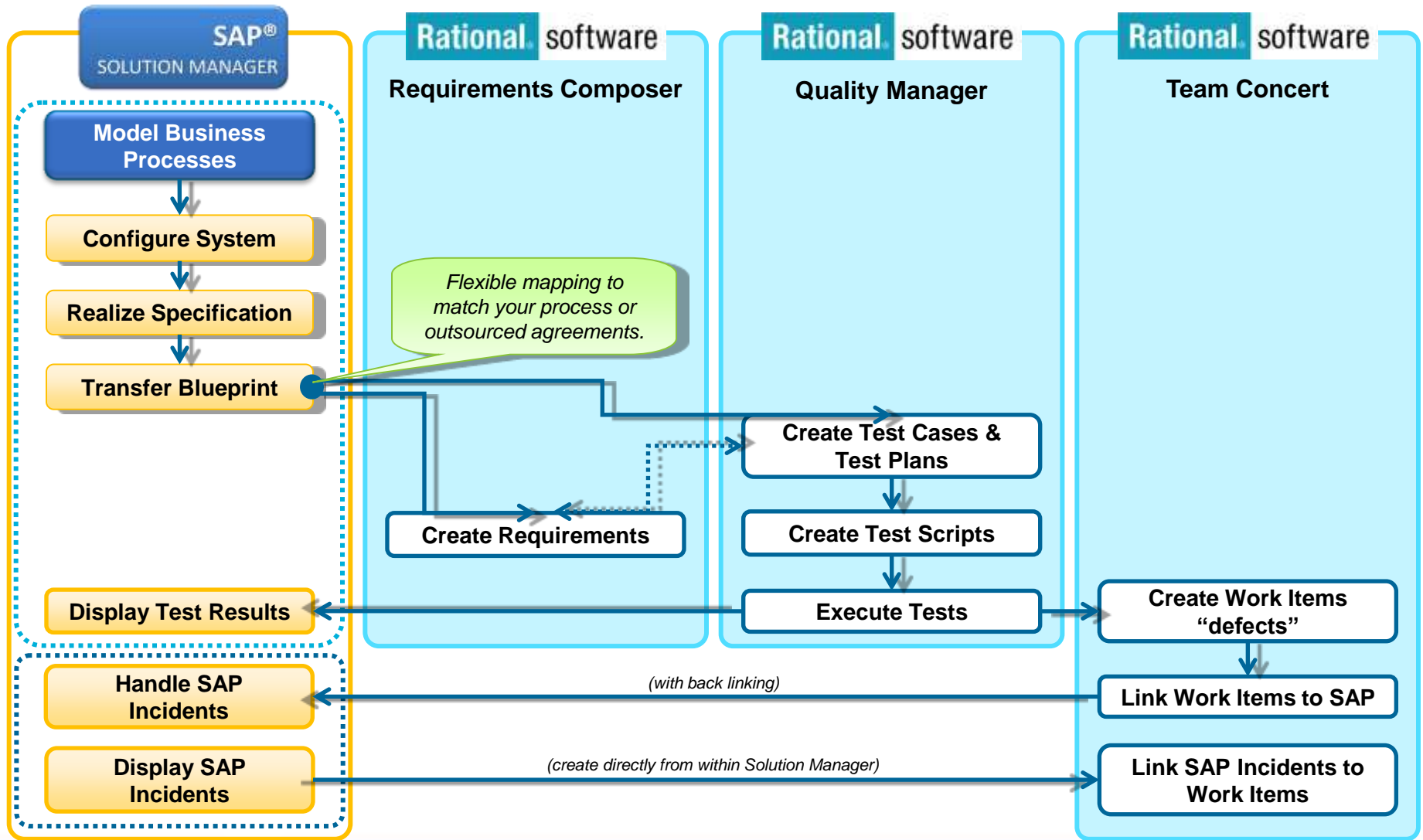
Close Rational CLM Project

Transfer Blueprint

Transfer Test Results

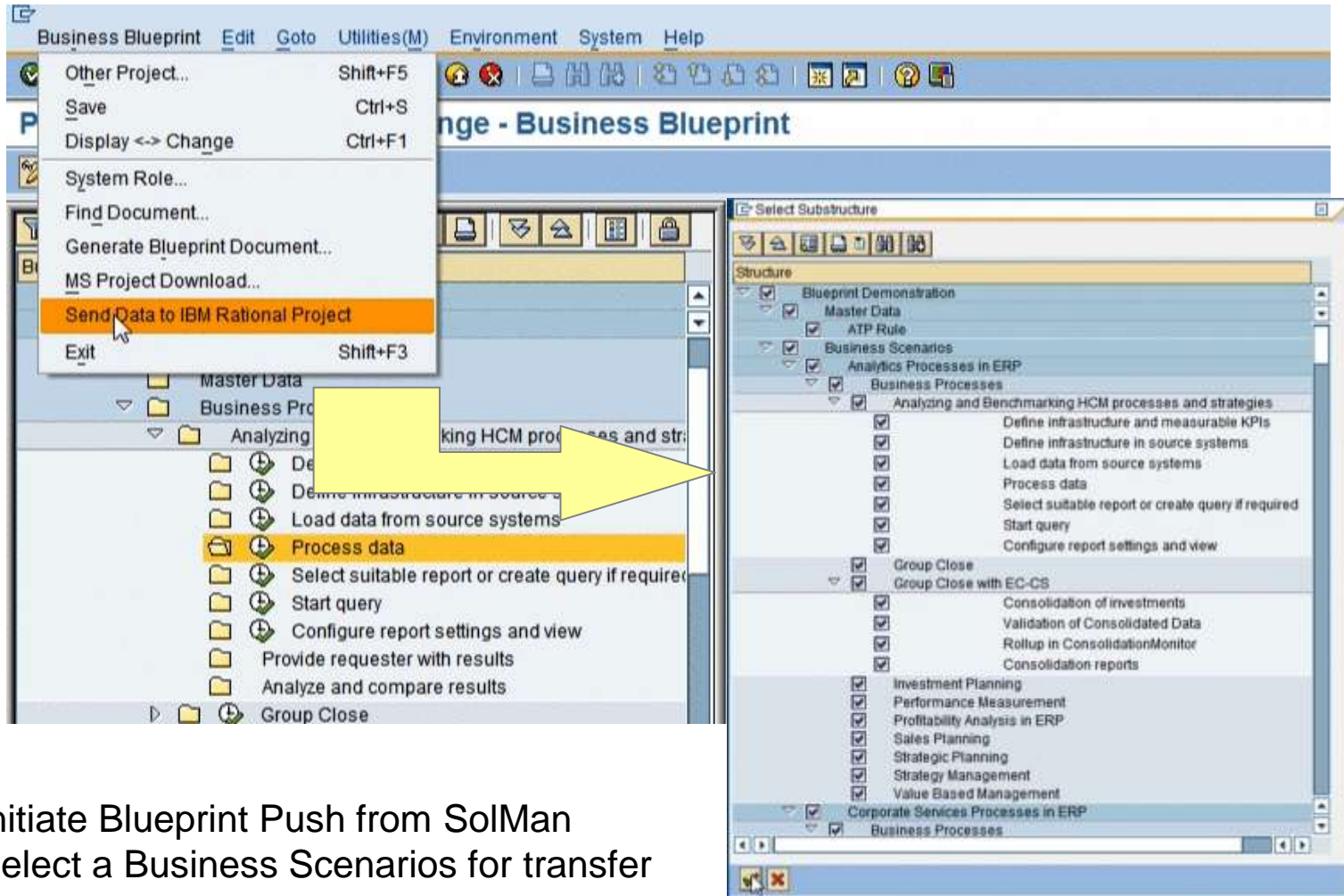
Transfer Incidents

# A typical End-to-End SAP scenario





# Integration Scenario Sample – Blueprint Push



1. Initiate Blueprint Push from SolMan
2. Select a Business Scenarios for transfer

# 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 window is titled "View All Artifacts" and shows a table of artifacts. The table has columns for ID, Name, Artifact Type, Last Modified By, and Last Modified Date. A single artifact is listed with ID 158 and Name "Process Data Requirement".

The artifact details are shown in a pop-up window titled "158: Process Data Requirement". The details include:

- 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 pane on the left with a tree view of the project structure, including folders like "Business Scenarios", "Analytics Processes in ERP", "Business Processes", and "Process data". The bottom of the browser window shows the URL "https://192.168.133.143:9443/rm/resources/\_dYNcNaREeGWAR5bD2XQMq" and a message "Unsupported browser.".

# 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 RMQuality Manager interface. The top navigation bar includes tabs for Requirements, Planning, Construction, Lab Management, Build, Execution, Reports, and Defects. The main content area is divided into three sections:

- Filter By Categories:** A tree view showing a hierarchy of test case categories. The selected path is **Blueprint** > **Blueprint Demonstration** > **Analytics Processes in ERP** > **Analyzing and Benchmarking HCM proce** > **Process data**.
- View Test Cases:** A table with columns for ID, Suspect, and Name. A single row is visible with ID '11'. The table is filtered by 'Blueprint' and grouped by 'Ungrouped'. Below the table, it indicates 'Showing 1-1 of 1 Items'.
- Overview:** A detailed view of the selected test case '11: Process Chain Maintenance'. It shows the state as 'Draft' and a description: 'This test case was created from SAP Solution Manager test object "Process Chain Maintenance" by IBM Rational Connector for SAP Solution Manager.' Other details include: Type: Test Case, Modified: May 22, 2012 3:38 PM, Owner: qmadmin, Trigger: Activity, Calculated Risk: 5 empty circles, Community Risk: 5 empty circles, Weight: 1, and Project Area: RMQuality Manager.

The URL at the bottom of the browser window is: <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' dialog box. It has several sections: 'Test Management Integration' with a dropdown for 'Partner Test Management Tool' set to 'EM Rational SAP Connector'; 'Template' with 'Project' set to 'BPCA\_DEMO' and 'Description' set to 'BPCA integration with EM Rational'; and 'General Data' with 'Title' set to 'BPCADemoTestPlan'.

The screenshot shows the 'Test Plan Overview' for '152: BPCADemoTestPlan'. The interface includes a left-hand navigation pane with sections like 'Manage Sections', 'Overview', 'Business Objectives', 'Test Objectives', 'External Review', 'Payment Collection Links', 'Development Plan Links', 'Risk Assessment', 'Test Schedules', 'Test Estimation', 'Test Environments', 'Test Team', 'Quality Objectives', 'Entry Criteria', 'Exit Criteria', 'Test Cases', 'Resources', and 'Abstracts'. The main area displays a table of test cases. The table has columns for 'Group By', 'ID', 'Status', 'Name', 'State', 'Owner', 'Blueprint', 'Business Process', 'Business Scenario', 'Connectors', 'Functions', 'Test Component', 'Test Object', and 'Test Phase'. The table contains 10 rows of test cases, each with a checkbox, an ID, and various attributes. The status of all test cases is 'Unassigned'.

Group By	ID	Status	Name	State	Owner	Blueprint	Business Process	Business Scenario	Connectors	Functions	Test Component	Test Object	Test Phase
Unassigned	118	OK	Dr. itm...	BPCA	Order	Quotst	Logist	005058	Unas	ZBPCA	Vk	Un	
Unassigned	118	OK	Dr. itm...	BPCA	Order	Sales	Logist	005058	Unas	ZBPCA	Vk	Un	
Unassigned	118	OK	Dr. itm...	BPCA	Order	Good	Logist	005058	Unas	ZBPCA	Vk	Un	
Unassigned	118	OK	Dr. itm...	BPCA	Order	Billing	Logist	005058	Unas	ZBPCA	Vk	Un	
Unassigned	120	OK	Dr. itm...	BPCA	Order	Billing	Logist	005058	Unas	ZBPCA	Vf	Un	
Unassigned	122	OK	Dr. itm...	BPCA	Credit	Sales	Logist	005058	Unas	ZBPCA	FD	Un	
Unassigned	122	OK	Dr. itm...	BPCA	Credit	Creat	Logist	005058	Unas	ZBPCA	Vk	Un	
Unassigned	122	OK	Dr. itm...	BPCA	Credit	Revis	Logist	005058	Unas	ZBPCA	Vk	Un	
Unassigned	124	OK	Dr. itm...	BPCA	Credit	Creat	Logist	005058	Unas	ZBPCA	Vk	Un	
Unassigned	128	OK	Dr. itm...	BPCA	Credit	Billing	Logist	005058	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 Solution Manager interface. The top window, titled 'Project: DEMOPROJEC - Change - Business Blueprint', shows a 'Maintain Attributes' dialog with the 'Test Results' tab selected. This dialog contains a table with the following data:

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 St

The bottom window, titled 'Testing: Testresults of Business Test Requirements', shows a detailed test results table:

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 include:

- Project: DEMOPROJEC
- Short Description: Demolcident
- 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:

- [SU99] Description
- [SU04] Internal Note
- [SU01] Reply
- [SU15] Information for SAP (selected)
- [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
- [SUSO] Solution

The 'Submit' button is visible at the bottom right of the dialog box. The background shows the RTC interface with a 'Links' tab selected, displaying a list of related items including 'Related Change Request'.

# 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 is a "Saved Searches" dropdown and a "Go Advanced" button. 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".

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...
	Forward to external Help Desk	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	CHRIS_RA...
	RTC	IBM Ration...				<input type="checkbox"/>	<input checked="" type="checkbox"/>	CHRIS_WI...

Below the table, there is an "Expand" button and navigation arrows "Back 1 2 Forward". The bottom section contains "Project Assignment" and "Test Details" forms.

**Project Assignment**

Solution Manager Project:

External Project ID:

External Project Attribute:

**Test Details**

Test ID:

Test name:

Test object ID:

Test object name:

The left sidebar contains navigation options: Home, Worklist, Calendar, E-Mail Inbox, Master Data, Change Request Man..., Incident Management, Service Operations, and Create. The "Create" menu is expanded, showing "Incident", "Request for Change", "Task", and "Knowledge Article".

# 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 Service Desk interface for incident 8000000054, titled "Incident: 8000000054, FromSD". The interface includes a navigation sidebar on the left with options like Home, Worklist, Calendar, E-Mail Inbox, Master Data, Change Request Man..., Incident Management, Service Operations, and Create. The main content area shows a table of actions for the incident, with the "RTC" action highlighted. A tooltip for the "External Message ID" column indicates it can be used for sorting or filtering.

Below the table, the "Project Assignment" section shows the "Solution Manager Project" set to "DEMOPROJECT".

Overlaid on the Service Desk interface is the "RtcProject" window, which displays "Defect 11" with a summary of "defaultSummary". The "Links" tab is active, showing a "Related Change Request" link to "Service Desk Incident 8000000054, FromSD".

A separate window titled "Service Desk Incident 8000000054: FromSD" provides details for the incident:

- 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



# IBM Rational Connector for SAP Solution Manager Availability

- Available as a free download from Jazz.net

- Latest release version is 4.0.0.1

<https://jazz.net/downloads/sap-connector/releases/4.0.0.1>

The screenshot shows the IBM developerWorks website interface. At the top, there is a navigation bar with the Jazz logo and links for Products, Downloads, Community, and Our Story. A search bar is located on the right side of the navigation bar. Below the navigation bar, there is a secondary navigation bar with links for MY STUFF, GET HELP, INTEGRATIONS, DEPLOYMENT, LIBRARY, FORUM, and BLOGS. The main content area displays the title "Rational Connector for SAP Solution Manager 4.0.0.1" and a "Product Release Trial" badge dated May 14, 2013. Below the title, there are several tabs: "Getting Started", "New & Noteworthy" (which is selected), "Release Notes", "Upgrading", and "All Downloads". The "New & Noteworthy" tab is active, showing the heading "Rational Connector for SAP Solution Manager 4.0.0.1 'New and Noteworthy'". The main text under this heading states: "Rational Connector for SAP Solution Manager provides an integration between the ALM features of SAP Solution Manager and the Rational CLM Tools. Once an administrator has set up the linked Solution Manager and Rational tool projects, end-users can seamlessly use the best of both the SAP ALM and Rational CLM tools." Below this, it mentions: "Rational Connector for SAP Solution Manager 4.0.0.1 is a maintenance release and contains no new features." and "Support to run Apache Tomcat as a Windows Service was added to this maintenance release." On the left side of the page, there is a sidebar with a "Releases" tab selected, and links for "Related Resources", "Product documentation", and "Download tips".

# 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

# QUESTIONS

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

# Thank You