Change Impact Analysis with Business Process Change Analyzer (BPCA) of SAP Solution Manager

ALM Solution Management, AGS, SAP AG
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Testing of SAP-centric Business Processes
Test Management
End-to-End Testing of SAP-centric Solutions

Customer Pain Points
1. Tests in heterogeneous system landscapes
2. Software updates affecting mission-critical business processes
3. Test system setup and test data management
4. Effort for creation and maintenance of automated tests

SAP Strategy for Test Management
- SAP Solution Manager acts as central hub to manage SAP change events and E2E Integration Testing
- Superior functionality from risk-based test planning, manual /automated functional and performance testing to status reporting and sign-offs
- Integration of Partner Test Suites

Type of Change
- New SAP Solution
- SAP Solution Update

Test Scope Identification
- Business Blueprint
- Change Impact Analysis

Test Scope Identification
- Test Planning
- Test System Setup

Test Execution
- Change Deployment
Test Management
Test Management Process embedded in the SAP Application Lifecycle

<table>
<thead>
<tr>
<th>Type of Change</th>
<th>Test Scope Identification</th>
<th>Test Planning</th>
<th>Test Execution</th>
<th>Change Deployment</th>
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</thead>
<tbody>
<tr>
<td>New SAP Solution</td>
<td>Business Blueprint</td>
<td>Test System Setup</td>
<td>Test Execution</td>
<td></td>
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<tr>
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<td></td>
<td>Manual tests</td>
<td>Deployment of changes through transports from Test to Production system</td>
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<tr>
<td>SAP Solution Update</td>
<td>Business Blueprint Design</td>
<td>Test Plan setup</td>
<td>Automated tests</td>
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<td></td>
<td>Solution Configuration</td>
<td>Compilation of Test Packages</td>
<td>Integration Validation</td>
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<td>Assignment of Testers</td>
<td>Incident Management</td>
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<td>Setup of Test System</td>
<td>Performance tests</td>
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<td>Creation of Test Data</td>
<td>Test status and progress reporting</td>
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<td>Test sign-off</td>
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<td>Change Impact Analysis</td>
<td>Development of Test Cases</td>
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<td>SAP Support Packages</td>
<td>SAP Solution Update</td>
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<td>SAP Legal Change Packages</td>
<td>SAP Solution Update</td>
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<td>SAP Enhancement Packages</td>
<td>SAP Solution Update</td>
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<td>Customizing changes</td>
<td>SAP Solution Update</td>
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<td>Custom Code</td>
<td>SAP Solution Update</td>
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<td></td>
<td>Interface changes</td>
<td>SAP Solution Update</td>
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</table>

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Test Management
Products and Capabilities integrated with SAP Solution Manager 7.1

New SAP Solution
SAP Solution Update
Business Blueprint
Change Impact Analysis
Test Planning
Test System Setup
Test Execution
Change Deployment

Business Blueprint
- Order to Cash (O2C)
  - Quotation
  - Sales Order
  - Outbound Delivery
  - Goods Issue
  - Billing

Test Option 1
- SAP Solution Manager Work Center
  - Test Workbench

Test Option 2
- SAP Quality Center by HP

Test Option 3
- Rational software
  - Quality Manager, ReqPro, ...

SAP Solution Manager
- Test Automation Framework
  - HP QTP and other integrated ISV test automation tools

SAP TAO

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Change Impact Analysis

SAP Solution Manager – Business Process Change Analyzer (BPCA)
Business Process Change Analyzer (BPCA)
Motivation and Approach

Motivation

SAP Solution updates occur frequently
- SAP triggered: Support Packages, Enhancement Packages
- Customer triggered: Customizing changes, Custom code development

Pain Point

Which critical business processes are affected by planned changes?

Approach

SAP Solution Update

Change Impact Analysis
- Identification of business processes affected by change
- Risk-based Test Recommendation

Test Planning
- Test Case review and creation of missing test cases
- Test Plan generation

Test Execution
- Regression Tests
  - Manual Tests
  - Automated Tests
Business Process Change Analyzer (BPCA)

**Preparation**

- **Business Blueprint**
  - Order to Cash (O2C)
  - Quotation
  - Sales Order
  - Outbound Delivery
  - Goods Issue
  - Billing

- **Trace to identify objects by process**
  - Manual execution of process step
  - Automated
  - SAP TAO, HP QTP, ...

- **BPCA Trace Result (TBOM)**
  - Transactions
  - ABAP Code: Function modules, ...
  - UI: Dynpro 1000, ...
  - Tables: Customizing, Master Data

**Change Impact Analysis**

- **BPCA use cases**
  1) Customizing changes
  2) Custom code development
  3) Business Function activation
  4) SP and EhP deployment

- **BPCA Change Impact Analysis**
  - Order to Cash
    - Sales Order → code change
    - Delivery
    - Goods Issue → UI change
    - Billing
    - Procure to Pay
    - Create PO → customizing change

**Risk-based Test Scope Identification**

- **BPCA Test Scope Optimization and Test Plan Generation**
  - Identification risk-based test scope based on affected process steps
  - Test Scope Optimization
  - Semi-automatic test plan generation (automated for Test Option 1)
Business Process Change Analyzer (BPCA)

Use Cases
BPCA Use Case 1: Customizing Changes
SAP Solution Manager 7.0 SP18

BPCA Use Case 1: Customizing Changes*

Example: „Create Sales Order“
- input field „Purchase Order: from optional → mandatory

Identification of impacted business processes

Generation of Test Plan

(*) Note: BPCA of SAP SolMan 7.1 SP01: additional precision through tracing of key fields of SAP customizing tables
BPCA Use Case 2: Custom Code Developments
SAP Solution Manager 7.0 SP18

Example: Extension of existing SAP screen with custom required field

Custom Code Developments

Transport

DEV -> TST -> PRD

Change Impact Analysis

Identification of impacted business processes

Test Recommendation

Generation of Test Plan

Example
Example: inactive Enterprise Business Function „Advanced Order Processing and Billing“

Change Impact Analysis

Identification of impacted business processes before BF activation

Test Recommendation

Generation of Test Plan

End-user training plan
BPCA Use Case 3: Planned EhP Business Function Activation
SAP Solution Manager 7.0 SP23

1) BPCA Selection Screen

2) BPCA Business Function Selection: select available, but inactive Business Functions

3) BPCA analysis results: Process Steps impacted by planned Business Function activation

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BPCA Use Case 4: Test Scope Optimization for SP/ EhP Deployment
SAP Solution Manager 7.1 SP01

Example: Deployment of EhP 4 for SAP ERP

SAP Support Package / Enhancement Package Deployment

DEV \rightarrow SP / EhP \rightarrow TST \rightarrow PRD

Change Impact Analysis

Identification of impacted business processes

Test Recommendation

Generation of Test Plan with risk-based test scope
BPCA Use Case 4: Test Scope Optimization for SP/ EhP Deployment
SAP Solution Manager 7.1 SP01

Key Message

- Test Scope Optimization: identification of test cases based on # changed SAP objects and test effort
- Approach: changed SAP objects should be tested at least once
- Not all affected process steps have to be included in the regression test plan
Business Process Change Analyzer (BPCA)

Customer Feedback and Customer POC Projects
SOKA-BAU & SOKA – IT Gains Significant Time and Test Effort Reduction with SAP® Solution Manager

Challenges and Opportunities
- Implement extension of proven test management capabilities of SAP Solution Managers by using functional enhancements of Enhancement Package 1

Objectives
- Optimize test planning through Business Process Change Analyzer (BPCA)
- Improve test execution via deployment of test sequence functionality
- Increase user and process efficiency through html-based work center for test and incident management
- Raise quality of SAP solution documentation through deployment of Solution Documentation Assistant (SoDocA)

Implementation Highlights
- Email notifications for all status changes of test cases & central access and administration for all test relevant information
- Set-up of new wizard for SAP Solution Manager configuration within three hours

Why SAP Services
- End-to-end functionality and excellent integration into existing SAP solution landscape
- Possibility to leverage and re-use of already achieved results

Key Benefits
- Risk-based test scope identification leading to considerable reduction of test efforts
- Significant time savings within test preparation
- Streamlined communication during test execution
- Role-based approach for all test activities supported by new customer work-center

QUICK FACTS

SOKA – BAU & SOKA – IT
- Headquarters: Wiesbaden, Germany
- Industry: Insurance
- Revenue: € 4.8 billion
- Employees: 1,200
- Web site: www.soka-bau.de
  www.soka-it.de
- SAP® solution and services: SAP ERP, SAP BW, SAP Solution Manager, SAP Consulting

“We can significantly reduce our test efforts which affect our SAP solution operations by using a risk-based test scope identification provided by the Business Process Change Analyzer of SAP Solution Manager.”

Roland Krüger
Manager SAP Customer CoE
SOKA-IT
## EMEA Customer - Proof of Concept Project (POC)

### Project Steps and Effort

<table>
<thead>
<tr>
<th>Project Step</th>
<th>Activity</th>
<th>Effort</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SAP Solution Manager Upgrade</strong></td>
<td>▪ Update SAP Solution Manager 7.0 SP19 to SP20</td>
<td>▪ 5.5 hours</td>
</tr>
<tr>
<td></td>
<td>▪ SAP Solman agent update in managed system</td>
<td>▪ No additional effort</td>
</tr>
<tr>
<td></td>
<td>▪ Business process definition in MS Excel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ Fitment for existing process structure to 3 level hierarchy in SAP Solution Manager</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ Business process modeling of MM-Procurement processes in ARIS and upload into SAP Solution Manager( for 5 business processes incl.steps)</td>
<td></td>
</tr>
<tr>
<td><strong>„Lean“ Solution Documentation</strong></td>
<td>▪ Already available</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 30 minutes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ 2 hours for 5 business processes</td>
<td></td>
</tr>
<tr>
<td><strong>BPCA setup</strong></td>
<td>▪ BPCA preparation: trace (TBOM) for each business process via manual process execution</td>
<td>▪ 5h for 14 processes (14 variants of procurement process)</td>
</tr>
<tr>
<td></td>
<td>▪ BPCA analysis for 5 software changes including customizing and program changes</td>
<td>▪ 15 min for each analysis</td>
</tr>
</tbody>
</table>
## EMEA Customer - Proof of Concept Project (POC)

### POC Results

<table>
<thead>
<tr>
<th>Change type</th>
<th>Change description</th>
<th>BPCA change impact analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customizing change</td>
<td>Change invoice tolerances</td>
<td>Invoice Verification step in all the processes was impacted</td>
</tr>
<tr>
<td>Customizing change</td>
<td>Changes to account group</td>
<td>Purchase Order, Goods Receipt Invoice Receipt, RFQ, Adjudication, Contract were impacted due to the common customizing table</td>
</tr>
<tr>
<td>Customizing change</td>
<td>ALV output for purchasing list displays</td>
<td>Expedite process was impacted as expected</td>
</tr>
<tr>
<td>New org structure</td>
<td>Changes resulting out of a new Org Structure for a new company acquired</td>
<td>Definition of plants was impacted as expected</td>
</tr>
<tr>
<td>SAP Support Package</td>
<td>Support package on ECC Enhancement Package - SAPKA70103</td>
<td>Results as expected. Impact on custom code was also identified.</td>
</tr>
<tr>
<td>Custom Code Change</td>
<td>Changes to program SAPMZC35 after an SP Upgrade for PO Creation</td>
<td>Results as expected. Impact on ZC35 transaction.</td>
</tr>
</tbody>
</table>

**Summary:** Correct change impact analysis for all changes evaluated
Business Process Change Analyzer (BPCA)

Preparation steps and options for TBOM generation
BPCA – Preparation
Business Process Documentation

Lean Process Documentation
BPCA requires a process hierarchy, system information and executables to be documented in a project or a solution.

Process hierarchy
- Business scenario
- Business processes
- Business steps

System information
- Transactions, custom development
BPCA Technical Bill of Material (TBOM)
TBOM Example for Business Transaction: Create Sales Order (VA01)
BPCA Preparation
Manual TBOM generation

Business Scenario “Order to Cash”

Quotation  Sales Order  Delivery  Billing

Business Blueprint

- Order to Cash (O2C)
  - Quotation
  - Sales Order
  - Outbound Delivery
  - Goods Issue
  - Billing

User selects process step in SAP Solution Manager

User executes the process step while BPCA traces all SAP objects used by the process step

Customer SAP Landscape (SAP ERP, ...)

Generated TBOM contains Code Objects, User Interfaces and Tables used
BPCA Preparation
TBOM generation using test automation tools

Business Scenario “Order to Cash”

Business Blueprint
- Order to Cash (O2C)
  - Quotation
  - Sales Order
  - Outbound Delivery
  - Goods Issue
  - Billing

execute

automated Test Case

Process Step „Sales Order“

Customer SAP Landscape (SAP ERP, …)

create TBOM during test case execution

<table>
<thead>
<tr>
<th>Test Option</th>
<th>Test Management</th>
<th>Test Automation Tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SAP Solution Manager – Test Automation Framework</td>
<td>HP QTP, SAP eCATT, WS Certify, …</td>
</tr>
<tr>
<td>2</td>
<td>SAP Quality Center</td>
<td>SAP TAO</td>
</tr>
</tbody>
</table>
Automated TBOM Creation
Reusing automated test scripts in SAP Solution Manager 7.0

Approach

- Create a new automated script which can launch the business transaction from SAP Solution Manager - SOLAR01
- Modify existing automated scripts to avoid launching business transactions directly on ERP systems
- Call existing automated scripts from the new wrapper script

Benefits

- Reduction in initial efforts to create TBOMs and thereby reduced time to value with BPCA
- Reduction in TBOM maintenance efforts
Manual TBOM creation in SAP Solution Manager 7.1
ToDo Lists for Business User

**Goal**: Collaboration work flow between quality teams and business process teams to create TBOM

![Diagram showing the collaboration workflow between Quality Expert and Business Process Expert](image)

- **Quality Expert**
  - Identify missing TBOMs
  - Create work list & assign BPX
  - Review completed work items
  - TBOMs created

- **Business Process Expert**
  - Process work items
    - Review work list
    - Process Work item
    - Run Business Transaction
    - TBOM is created in background
    - Close work item
## SAP Solution Manager 7.0 / 7.1
### BPCA – TBOM generation Approaches

<table>
<thead>
<tr>
<th>TBOM creation</th>
<th>SAP SolMan 7.0</th>
<th>SAP SolMan 7.1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1) Manual TBOM recording by User</strong></td>
<td>Standard functionality</td>
<td>Standard functionality</td>
</tr>
<tr>
<td><strong>2) ToDo Lists for Business User</strong></td>
<td></td>
<td>QM creates list of missing TBOMs and send workflow item to business user who creates TBOM during normal business operations</td>
</tr>
<tr>
<td><strong>3) Manual TBOM recording by Tester</strong></td>
<td></td>
<td>Tester execution of manual test case gets option to create TBOM on the fly</td>
</tr>
<tr>
<td><strong>4) Automated Tests – Test Option 1</strong></td>
<td>Workaround via eCATT or 3rd party test tools like HP QTP</td>
<td>Test Automation Framework eCATT and 3rd party test tools (eCATT, HP QTP, Worksoft, IBM RFT – more to come)</td>
</tr>
<tr>
<td><strong>5) Automated Tests – Test Option 2</strong></td>
<td>SAP TAO 2.0 SP04 (Nov 2010)</td>
<td>SAP TAO 2.0 SP04 (Nov 2010)</td>
</tr>
</tbody>
</table>
Customer Benefits
Business Process Change Analyzer

**Customer Benefits**

**Precise insight**
- Identification of critical business processes affected by planned change events

**Improved handling of change events**
- Support for customer’s change committee to decide on SPs, EhPs or Custom triggered changes for SAP production systems

**Risk-based Test Planning**
- Recommendation for subsequent regression tests
Further Information
Leverage the experience of other SAP customers and find out what works best for them.

**Content**

- Regression tests as integral part of the software change process
- 9 Recommendations for regression testing
- Customer use cases from Colgate-Palmolive, Ferrero, Sara Lee, ConAgra Foods, Soka-Bau

Best Practice available at


Best Practices: Regression testing of SAP-centric Business Processes
9 Recommendations

- **Business Blueprint**
  1. Lean documentation of important business processes

- **Test System**
  2. Setup of lean test systems

- **Creation of Regression Tests**
  3. Test automation for critical business processes
  4. Comprehensive test data for automated regression tests
  5. Provisioning of easy to use manual tests

- **Change Impact Analysis**

- **Test Execution**
  7. Unattended (‘lights out’) execution of automated regression tests
  8. Manual test execution with guidance for business users

- **Governance**
  9. Management of the change process
Test Management – Information Sources

Infos, Presentations, Demos
http://service.sap.com/testing

ALM Infos, Presentations, Demos
http://service.sap.com/alm

Classroom Training E2E220

Remote Service
Expert Guided Implementation
http://service.sap.com/alm-services

SAP AGS Whitepaper Test Management
http://service.sap.com/supportstandards

SAP Enterprise Support

Testing SAP Solutions

Professional Services
www.sap.com/services/testing
Test Management
Overview and Detail Presentations and Offline Demos

SAP Service Marketplace: http://service.sap.com/testing

Information
- Presentations
- Offline Demos

More Information: http://service.sap.com/testing -> Additional Information
Test Management
Information and SAP Contacts

**Information**

E2E Integration Testing: [http://service.sap.com/testing](http://service.sap.com/testing)
SAP TAO: [http://service.sap.com/saptao](http://service.sap.com/saptao)
Application Lifecycle Management: [http://service.sap.com/alm](http://service.sap.com/alm)
SAP Solution Manager e-learning material: [http://service.sap.com/rkt-solman](http://service.sap.com/rkt-solman)

**Regional SAP Contacts**

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<th>Region</th>
<th>Product Sales</th>
<th>Professional Services</th>
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<td><a href="mailto:jim.bisordi@sap.com">jim.bisordi@sap.com</a></td>
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<td>APJ</td>
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<td><a href="mailto:sebastien.aubrey@sap.com">sebastien.aubrey@sap.com</a></td>
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</tbody>
</table>
Thank You!
Appendix

1. BPCA Use Case 1: Customizing Changes
2. BPCA Use Case 2: Custom Code Development
3. BPCA Use Case 3: Planned activation of inactive Business Functions
4. BPCA Use Case 4: SP / EhP Deployment and Test Scope Optimization
BPCA Use Case 1: Customizing Changes

**Trigger:** Request from Business Department
- Business Transaction „Create Sales Order“
- Change field „Purchase Order“ from optional to mandatory input
- How: Customizing change

**Business Transaction:** Create Sales Order (VA01)
BPCA Use Case 1: Customizing Changes

Step 1
Customizing Change Implementation

- SPRO > Sales and Distribution > Basic Functions > Log of Incomplete Items > Define Incompleteness Procedures

Change in Customizing View

Transport

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BPCA Use Case 1: Customizing Changes

Step 2
Change Impact Analysis via BPCA

- Select the change (Transport Request)
- Select the SAP Solution Manager project including Business Blueprint and TBOM
- Run the BPCA analysis
BPCA Use Case 1: Customizing Changes

Step 3
Analyze Results
- Identify the process steps impacted by the change

Create Testplan
- Create a Test Plan for regression testing
BPCA Use Case 2: Custom Code Development

**Trigger:** Request from Business Department

- UI Enhancements in Transaction VA01 to have a new icons for organizational data

**Business Transaction:** Create Sales Order (VA01)
BPCA Use Case 2: Custom Code Development

Step 1:
Developer implements the changes in ABAP Workbench and creates a transport request
BPCA Use Case 2: Custom Code Development

Step 2
Change Impact Analysis

- Select the change (Transport Request)
- Select the SAP Solution Manager project (with Business Blueprint and TBOMs)
- Run the BPCA analysis
BPCA Use Case 2: Custom Code Development

Step 3
Analyze Results
- Identify the process steps impacted by the change

Create Test Plan
- Create a Test Plan for regression testing
BPCA Use Case 3: Planned activation of inactive Business Functions

**Trigger:** Request from Business Department

- Request to Activate a business function for “Configurable Sales Interface”
- Business Function: LOG_SD_CI_02
BPCA Use Case 3: Planned activation of inactive Business Functions

Step 1:

• Test coordinator runs a BPCA analysis before activating the business function
BPCA Use Case 3:
Planned activation of inactive Business Functions

Step 2:
- Test coordinator searches for the business function
BPCA Use Case 3: Planned activation of inactive Business Functions

Step 3
Change Impact Analysis
• Review the impact of the business function
• Use results for decision making, test effort planning
BPCA Use Case 4: Test Scope Optimization for SP or EhP Deployment

Trigger:

IT request to implementing Support Package 04 for ECC 6.0

Content of ECC 6.0 SP04

List of Content

- Released
- SAP
- Delivery Transport
- Delivery Transport (ODI)
- SAPBOM0404
- SAPRPLUSER SP 04 for SAP_APPL 604

- Comment: Object List Included
- Translation for Class (ABAP Objects)
- Translation for Data Element Definition
- Translation for Domain
- Translation for Data Element Definition
- Translation for Data Element
- Translation for Screen
- Translation for SAPscript Form
- Translation for Field Selection
- Translation for Function Group
- Translation for Function Group Tests
- Translation for Function Module
- Translation for Basic Type
- Translation for Interface (ABAP Objects)
- Translation for Message Class
- Translation for Message Class Parameters
- Translation for Program
- Translation for Report Tests
- Translation for General structure storage: Definition of a at
- Translation for Search Help
- Translation for Business Add-Ins - Implementations
Step 1:
- Test coordinator runs a change impact analysis for ECC6.0 SP04
BPCA Use Case 4: Test Scope Optimization for SP or EhP Deployment

Step 2:
- Test coordinator starts BPCA Test Scope Optimization
BPCA Use Case 4:
Test Scope Optimization for SP or EhP Deployment

Step 3:
Test coordinator optimizes the test scope based on
1. Test Coverage
2. Test Efforts
3. Business process priority
BPCA Use Case 4: Test Scope Optimization for SP or EhP Deployment

Step 4:
- Create a test plan for the optimized test scope