

# SAP TEST ACCELERATION AND OPTIMIZATION

AUTOMATION USING

HP TOOLS – QC, BPT AND QTP



# SAP Test Acceleration and Optimization

SAP TAO supports customers in automating their business process tests by automatically generating draft test cases and test components.

SAP TAO helps to breakdown an application into components which are:

1. Assembled into test cases in a simple interface, using drag and drop.
2. Parameterized for flexible reuse, such as reusing a test that has updated data.
3. Easy to maintain when the test cases are damaged due to functional changes.

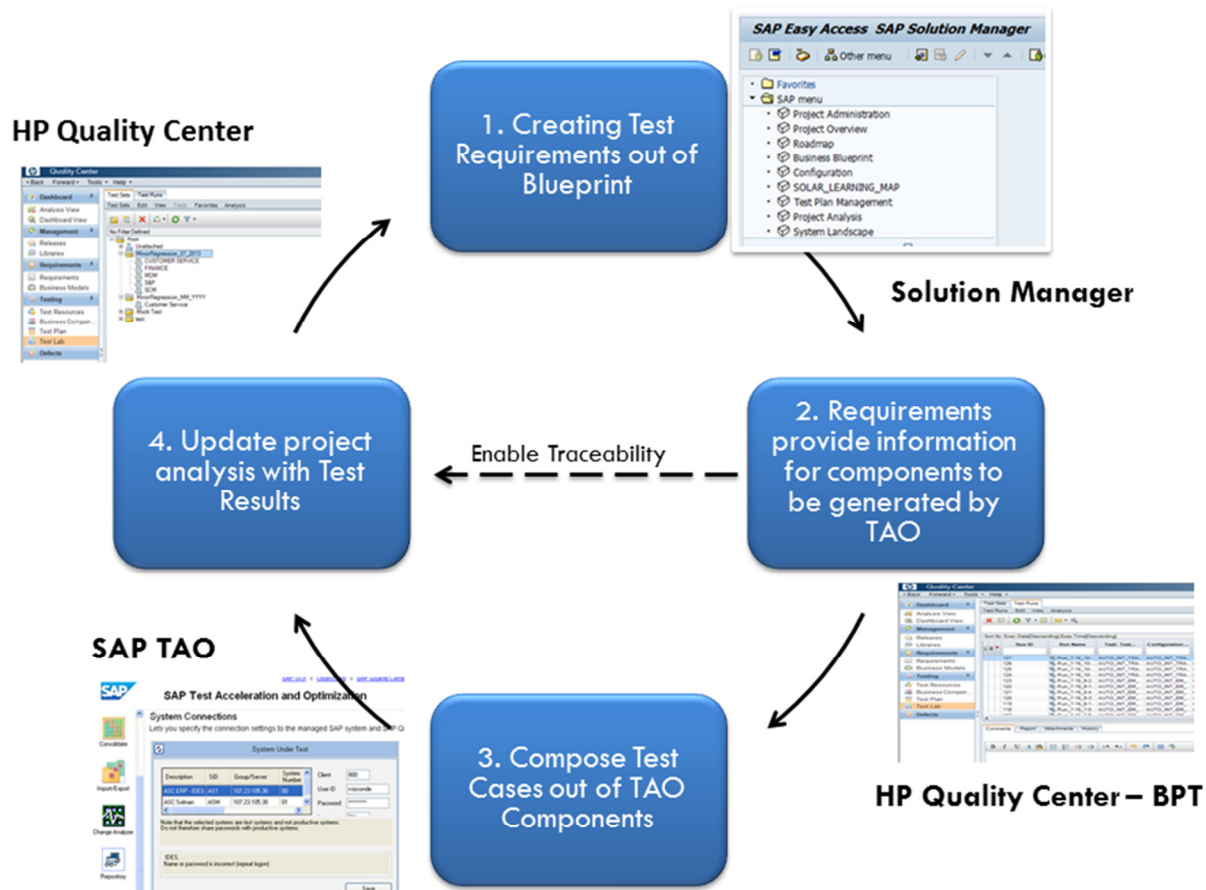
# Tools integrated with SAP TAO

**SAP Solution Manager (Solman) Adapter** – helps to transfer the requirement to HP Quality Center and transfer the HPQC results back to SOLMAN.

**HP Quality Center - Application Life Cycle Management (ALM)** – is a test management tool used for Manual and Automation testing. The Business Process Testing (BPT) module of HPQC is used to consolidate the components created from SAP TAO, this is where the engineer adds and enhances the automated scripts prior to test execution.

**HP Quick Test Professional (QTP)** - is an automated test solution for functional and business process applications. It records, verifies, and replays user interactions automatically. QTP is required to execute testing scripts.

# SAP TAO Integration with HP Tools – QC, BPT, QTP



# SAP TAO

## Mission, Approach, Integration

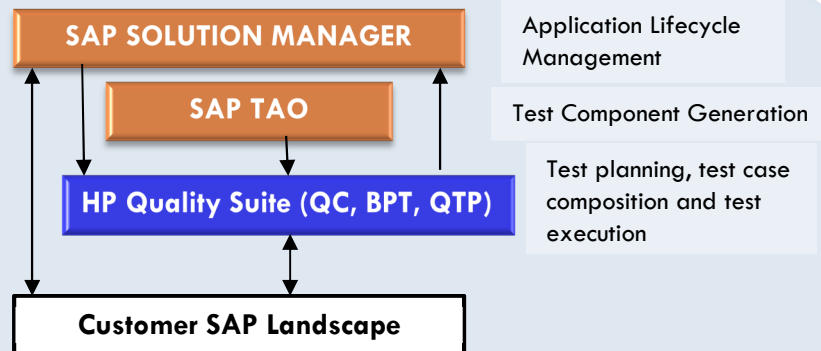
### Mission

- Changing the testing paradigm from manual testing to Testing by Composition
- Reducing costs and risks for testing after SAP solution updates

### Approach

- Automatic generation of test components for SAP business processes via SAP TAO
- Composition of automated test cases via standard functionality of HP Quality Center

### Integration



# SAP TAO Customer Benefits

- ✓ Reduced effort for maintaining automated business process tests
- ✓ Reduced risk due to better testing coverage
- ✓ Increased capacity to absorb /manage change
- ✓ Subject Matter Experts (SMEs) are not required to develop the automated test cases
- ✓ Helps functional testers to easily automate the business process test cases
- ✓ Tight integration with SAP Solution Manager
- ✓ SAP TAO & HP-BPT enables high re-usability of test cases

## SAP TAO User Interface

**SAP Test Acceleration and Optimization**

SAP GUI | Object Spy | SAP Quality Center | Report Folder | Configuration | About | Help | Exit

**System Connections**

Lets you specify the connection settings to the managed SAP system and SAP Quality Center by HP servers.

**System Under Test**

Description	SID	Group/Server	System Number
ASC ERP - IDES	AS1	107.23.105.30	00
ASC Solman	ASM	107.23.105.30	01

Note that the selected systems are test systems and not productive systems.  
Do not therefore share passwords with productive systems.

IDES.  
Name or password is incorrect (repeat login)

**SAP Quality Center by HP**

Server URL: http://107.23.178.206/qcbin

User: qc\_rvizconde

Password: [masked]

Login

Domain: SAP\_TESTING

Project: SAP TAO TRAINING

Define connection information to SAP Quality Center if not already defined and initiate log on.

SAP QL version: 11.00

QTP Version: [masked]

Save

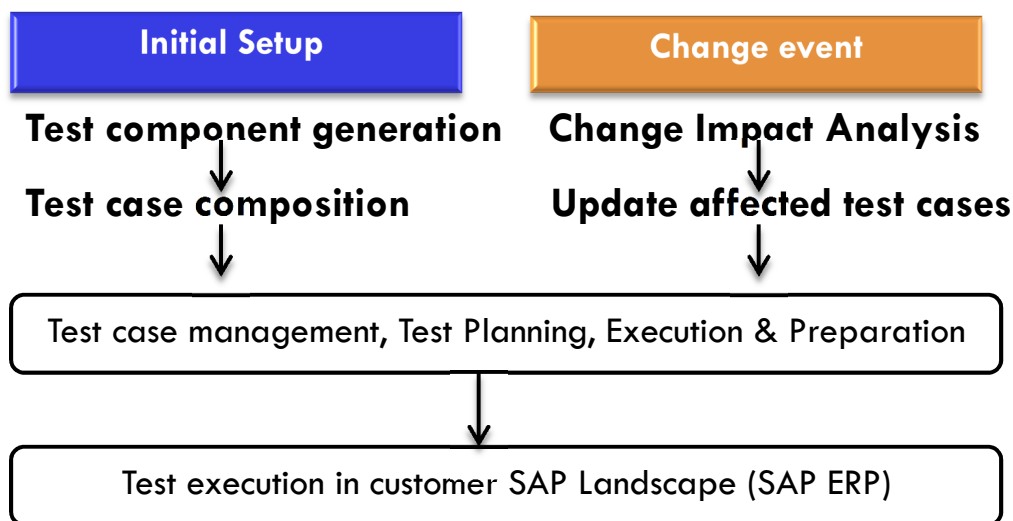
# Test Automation Approach with SAP TAO And handling software changes

## APPROACH

- **Test Components** are generated by SAP TAO via inspection / scanning of subscreens of SAP Business Processes (SAPGUI frontend only) – all fields are parameterized
- Automated **Test Cases** are composed out of test components, not single command lines
- **Test Data** can be applied to input parameters through auto-created MS Excel files which includes parameterized columns and test data for first iteration
- Generated Test Components and draft Test Cases are **uploaded** to SAP Quality Center

## CHANGES

- **Software changes** applied to SAP Solutions may cause test case damage
- **Change Impact Analysis** on Business Processes (SAP Solution Manager BPCA) is integrated with SAP TAO to detect and repair damaged test cases



## ASCENTIA CONSULTING

Ascentia Consulting offers a mix between consulting and agency services with a staffing structure of 30-70 for permanent vs contractual arrangements. This mix model will be able to address demand fluctuation better while keeping a strong network of contractors to support maturing IT Organizations.

### Staffing Model

Ascentia Consulting offers the following staffing mix:

- Specific Project Roles: independent contractors
- Resource Backfills: internal resources and independent contractors
- Data, Testers, and Developers: internal resources

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## ASCENTIA Consulting

Optimizing your IT consulting budget

We are a network of experienced IT practitioners coming from IT Consulting firms and Oil & Gas Super Majors. Our strengths and past credentials are built firmly in large scale ERP deployments for Oil & Gas Industry specializing in Project Management, Testing, Data Quality Management, Deployment and Production Support

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