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 SOLUTION MANAGER
- SAP TAO
- HP Quality Suite (QC, BPT, QTP)
- Customer SAP Landscape

Application Lifecycle Management
Test Component Generation
Test planning, test case composition and test execution
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
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

For more information, contact asc@ascentia-consulting.com

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