VOSTURA

GLOBAL SOFTWARE MANUFACTURER

S/4 HANA Test Automation with SAP Solution Manager and Worksoft Certify

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THE PROJECT

Re-design Software Manufacturer's financial business processes built on a greenfield S/4 HANA system to support new and future business models, to drive standardization, automation, scalability, flexibility and speed.

– New digital core to support volume business and subscription business natively
– Process re-engineering driven transformation, prerequisite for new Digital Core to leave legacy behind
– Reduction of Complexity, no more modifications
– Service enabled cloud architecture (standard and custom services)
– HANA Cloud Platform powering differentiating capabilities

THE CHALLENGE

The goal was to minimize the risks associated with changes to the SAP applications (S/4 HANA - Revenue Accounting, Hybris Billing, Finance). Therefore, testing of the complex End-To-End business processes to ensure the stability of the SAP applications in an efficient and timely manner was to be achieved. Manual testing takes a lot of time and effort to test these complex business processes end-to-end. For this reason, test automation using state of the art tools was decided to be leveraged. Therefore, SAP Solution Manager (SAP CBTA and Worksoft Certify) was selected as a standardized tool for test automation.

THE SOLUTION

In the first step mission-critical end to end business processes were identified. Test case descriptions with details on the test data setup, authorizations, detailed test steps and verification points were created – based on a template provided – as inputs to the test automation team. The test automation team reviewed the test case descriptions for the business processes along with the respective stakeholders to identify gaps with respect to test coverage and then obtained a ›Sign-Off‹ for these business processes to begin test automation. In the second step these business processes were automated in SAP Solution Manager using SAP CBTA and Worksoft Certify. Each E2E test automation script has 2 portions namely, the 1st portion is used to setup the master data in the respective systems and the 2nd portion is used to execute the E2E business process including evaluation of verification points. The test scripts were built with focus on reusability at the level of screens and process steps. All the best practices in test automation on various topics such as scripting, parameterization, verifications, screen shots, recovery scenarios and test data setup were implemented. Each business process creates master data on its own to avoid any issues with test data as the test system was used by multiple teams. Many custom functions were built using SAP CBTA to address various technical challenges (Example: Manipulation of XML and text files to prepare data for upload in the PI system to setup master data in the respective systems). The test automation team worked very closely with the functional team for clarifications, address functional issues

and get resolutions, on a daily basis. In the third step, all the test scripts were executed by the test automation team to obtain a final ›Sign-Off‹ from all the corresponding stakeholders. After this final ›Sign-Off‹ business processes were executed with multiple data sets to ensure test coverage for the various subsidiaries. In the fourth step these test scripts were handed over to the Operations team which is responsible for execution of these test scripts on a daily basis in ›Lights-Out‹ mode to ensure that the mission-critical business processes are not broken due to planned changes in the various systems.

THE SUMMARY

The Test Automation team built more than 250 test automation scripts which includes more than 200 test automation scripts for the various process steps and more than 20 test automation scripts for the various E2E business processes. A number of SAP applications such as SAP ERP, S/4 HANA, SAP CRM and SAP NWBC were automated along with legacy web applications.

THE ADVANTAGES

– The ROI was achieved after 3 Test Cycles
– The test automation scripts were built in less than 6 months with minimal effort using SAP Solution Manager (SAP CBTA & WS Certify)
– Test automation was done in the implementation phase thereby the regression test suite was readily available for planned changes immediately after Go-Live
– Maintenance of test scripts was quite easy using the ›Repair‹ feature in the Test Automation Framework

MORE INFORMATION
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