

Overview

A leading global biopharmaceutical company renowned for its vaccine research, development, and manufacturing, with operations spanning multiple countries and a robust life sciences portfolio. The customer needed a faster, more reliable way to validate complex SAP processes during their migration from ECC to Rise with SAP (S/4HANA).



Objective

The customer’s primary objective was to streamline SAP regression testing during the migration by reducing the testing cycle time, increasing test coverage beyond 90%, and minimizing reliance on manual validations.

Business Challenges

During the migration, the customer faced multiple testing-related roadblocks that impacted timelines, resource efficiency, and upgrade readiness:

- **Lengthy Regression Cycles:** Each cycle took 4+ weeks which involved 15+ business users
- **Low Test Coverage:** Only ~60% of critical business scenarios were being tested
- **Manual Dependency:** Heavy reliance on manual validation led to errors and inconsistencies
- **Upgrade Bottlenecks:** Frequent S/4HANA upgrades increased test scope and pressure on QA teams
- **Tool Limitations:** Traditional tools couldn’t effectively automate SAP GUI processes
- **High Testing Costs:** Repetitive manual efforts escalated time and cost per release

The Solution

Customer engaged Digitide to implement Tricentis Tosca to automate their SAP testing processes across modules like MM, HUM, and FI. The engagement began with a detailed feasibility analysis to identify critical business scenarios and validate SAP GUI compatibility. Reusable test modules were built using SAP XScan, and data-driven testing was enabled through Tosca’s TestCase Design. Tests were executed across ECC and S/4HANA environments, leveraging Tosca’s execution lists and logs for structured test runs and reporting. Dashboards were also set up to monitor test coverage and defect trends.

Value Delivered

By automating their SAP testing with **Tricentis Tosca**, the customer significantly reduced manual dependency and testing complexity, which had previously required over 15 business users and extended testing timelines. The shift to automated, reusable test components also improved consistency across upgrades, minimized operational risk, and enabled their teams to focus on higher-value activities with greater confidence in release readiness.

92% Reduction in regression cycle time from 4 weeks to just 3 days


87% Reduction in manual effort from 15+ users to 2 test engineers

35% Basis points improvement in test coverage from 60% to 95%


Business Benefits




Faster Test Cycles



Reduced Manual Effort



Higher Test Coverage



Improved Release Confidence