

# CASE STUDY

## The context

Greenfield **SAP S/4HANA** implementation

**Our customer** is a holding company that controls and operates 367 stores in 32 countries.

## THE CHALLENGE

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### Problems to solve

- 1** **2000 non-SAP** applications operated in a very complex and hard to maintain landscape, transforming at a scale and pace never seen before.
- 2** Development and test resources of source systems need to be available for all test phases of the **SAP S/4HANA** project - testing without source systems is impossible/difficult.
- 3** Project support in each source system have their own pace, own sprints, and own priorities – not necessarily the same as the **SAP S/4HANA** project.
- 4** Limited testing can cause project delays and lower test quality/coverage.

# THE SOLUTION

After the market valuation, the Service Virtualization Testing (SVT) strategy was introduced. Ingka selected the **Int4 Suite** solution to support the service virtualization of the 3rd party, non-SAP systems for the Greenfield **SAP S/4HANA** implementation. This choice made solving the above-mentioned problems possible.

“ The ability to **increase** manual testing **speed** of a complete SAP business process without being dependent on the 3rd party, non-SAP systems secured the testing phases and increased the level of developed and configured **SAP S/4HANA** processes. ”

**Philipp Scherf**  
Enterprise Architect

## SIMULATE NON-SAP SYSTEMS TO REMOVE DELAYS AND DELIVER SAP S/4HANA PROJECTS ON TIME AND WITHIN BUDGET

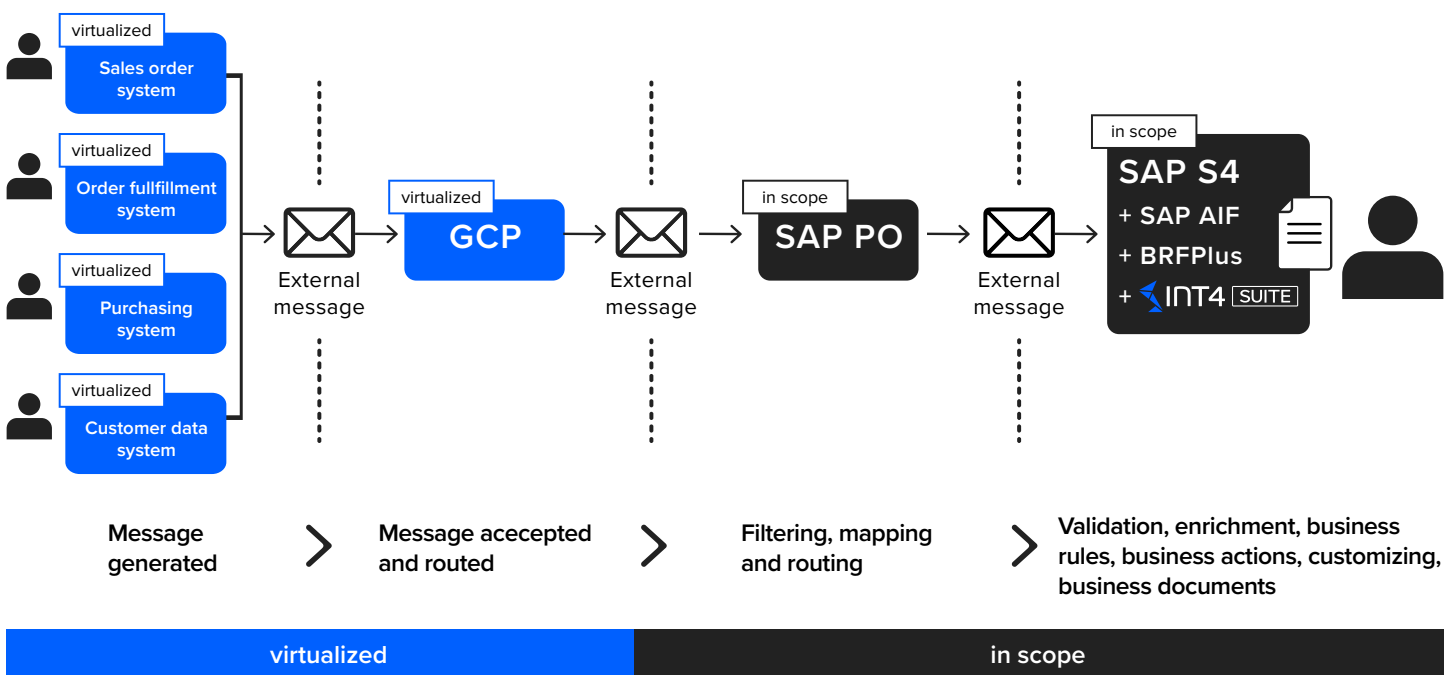


Figure 1 – all of the 3rd party non-SAP systems are simulated for testing of SAP S/4HANA greenfield implementation.

## Simulate to remove delays

For **SAP S/4HANA** greenfield implementations 3rd party, non-SAP test systems can be hardly available as the support teams for each source system may have their own pace, own sprints, and own priorities. **Int4 Messenger** solution removes those dependencies completely as all 3rd party, non-SAP systems can be easily simulated and are not required for the main part of the **SAP S/4HANA** project testing phases.

## Reduce costs and infrastructure

Since most of the test landscapes for 3rd party/non-SAP systems can be simulated, **SAP S/4HANA** projects can reduce the overall project costs and make it more sustainable compared to the traditional approach. So instead of having all test source systems installed and then supported by additional resources, use service virtualization to cut costs.

## Detect defects early

In order to detect defects, development and functional teams need to be able to test their solutions as much as possible. In case any of those depends on the 3rd party, non-SAP systems, they might be left with a choice to either test by mocking up the non-existing systems manually or relying on the external teams. With **Int4 Messenger** solution SAP developers and Functional consultants can run a much larger number of tests. This directly leads to early defect detection and large annual savings related to less issues in production environment.

“ *Decrease of testing SAP business process from 29 hours to just 4 minutes is an **580x** increase in testing speed!* ”

**Philipp Scherf**  
Enterprise Architect

# TEST CASE CREATION AND EXECUTION

**Int4 Messenger** was designed to support complex **SAP S/4HANA** transformation programs in mind. Being able to do service virtualization (simulate other systems) was one thing but another one was to build test cases/scenarios repository very quickly. All previously processed electronic messages can be automatically or manually captured as test cases in **Int4 Suite** repository. All of this thanks to out of the box integration of **Int4 Suite** with SAP Process Orchestration and SAP Integration Suite. Later on those messages can be reused by development and SAP functional teams to simulate the behavior of any 3rd party non-SAP application as shown in Figure 2. We can take electronic messages from one landscape (production) and rerun them on any other landscape (DEV, TST).

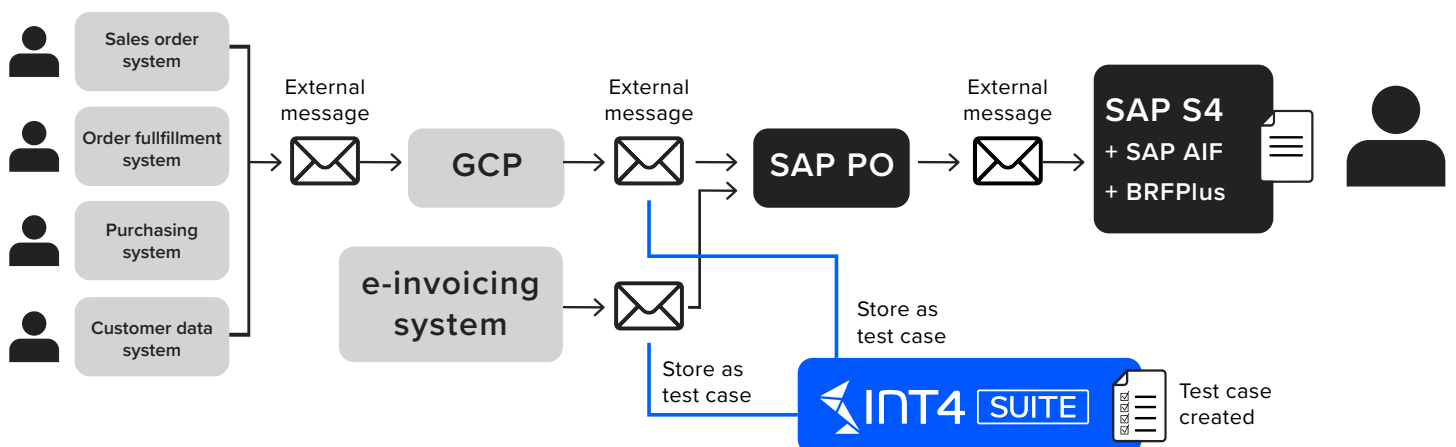


Figure 2 – creating and executing test cases for simulation of 3rd party, non-SAP systems

# SIMPLIFY -RUN TEST CASES FROM SLACK (CHATBOT)

Int4 is using Slack to communicate between different teams. **Int4 Messenger** was integrated with Slack to provide a simple and easy to use way for simulating of 3rd party, non-SAP systems as shown in Figure 3. With that solution, test cases and test scenarios stored in **Int4 Suite** repository are available in a special Slack App, and can be executed from there in a very easy and system guided way.

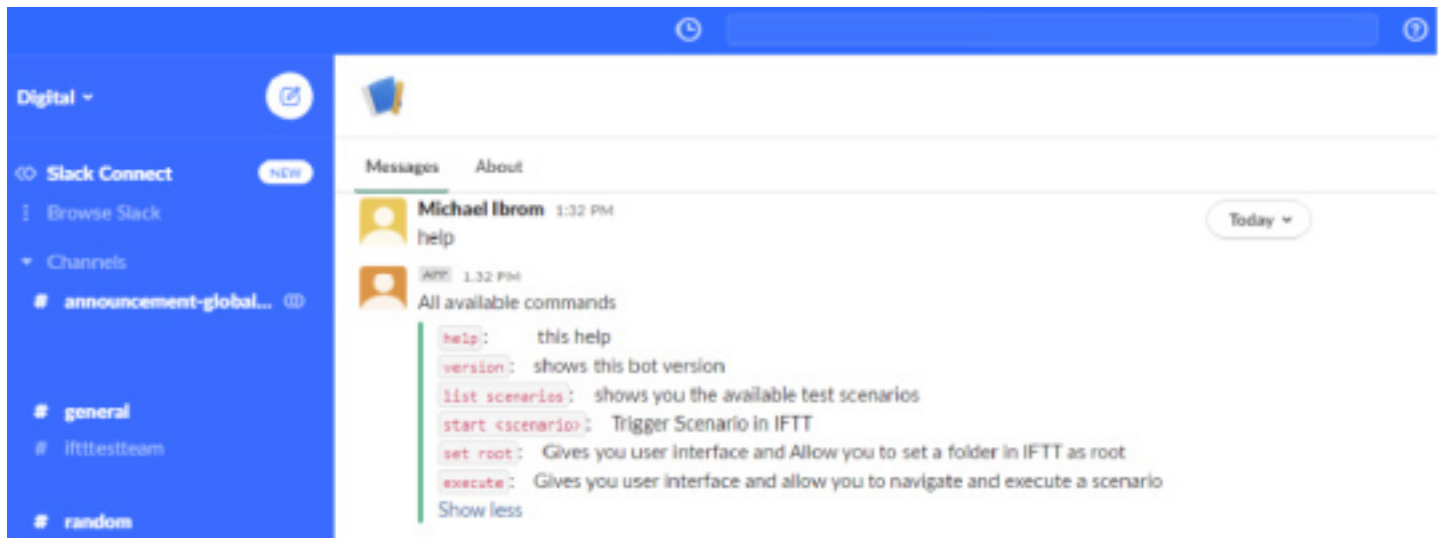


Figure 3 – Accessing Int4 Suite service virtualization with a Slack.



For more information,  
contact Int4 at [sales@int4.com](mailto:sales@int4.com)  
or visit [www.int4.com/int4-messenger](http://www.int4.com/int4-messenger)