



# CASE STUDY

## TESTING BUSINESS PROCESSES

One of the biggest challenges in test automation is the ability to cover entire business processes in the test scenario. It makes it even more difficult if the process involves interfaces to and from external systems. This Case Study presents how we approached this topic in our recent **S/4HANA** migration projects.

## THE CHALLENGE

### The context

Application Interfaces are always part of a larger business process and tend to play a significant role in these scenarios. How to test such processes end-to-end **automatically**?

### Problems to solve

- 1** **Testing an application interface** as a standalone solution can be challenging. In some cases you need a fresh set of preceding documents to execute a test. And you need that for each test run!
- 2** Usually processes are a mixture of automatic interface steps and manual operations performed by users in the system. If you want to **test the entire business process automatically**, you need a tool that supports both - interface and manual steps.
- 3** Setting up an end-to-end process test that involves both interfaces and manual steps is **time consuming**.

# THE SOLUTION

The mentioned challenges can be addressed using Int4 IFTT. With the **Int4 IFTT** tool you can test not only the integration platform layer like SAP PO or SAP CPI (transport API testing), but also the backend applications like SAP ECC or S/4HANA functional API testing).

**FAST  
SECURE  
AUTOMATION**

“ **The whole *set up for SAP API testing of an S/4HANA conversion project* took only **6 days**.**

**Michał Krawczyk**  
SAP Mentor, SAP PRESS author

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## New process instances

Using Int4 IFTT tool you've got the ability to **create the new instances of messages**, by replacing key data (e.g. customer purchase order number) with a completely **new values** every time a test case is rerun. This means no more waiting for fresh set of documents to test, as you can create them with one click from Int4 IFTT.

## Process chains

Int4 IFTT allows you to link the test cases together, forming a **new business process chain**, and passing the key data between the test cases. Thanks to this you are **not limited** to the testing interfaces standalone but rather as a part of bigger scenarios.

## eCATT integration

Int4 IFTT is **integrated with eCATT** to cover the manual operations in the **testing scenario**. If you need to post Goods Issue or perform clearing of the accounting documents to proceed with the test scenario, this is the feature that can help you.

“ **One of the most complex business process made of 4 business documents was *fully virtualized in 16 hours* and the virtual run takes only **60 seconds** to process the whole end to end business scenario.**

**Michał Krawczyk**  
SAP Mentor, SAP PRESS author

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# PAINS

- A **re-creation of entire business processes** for the purpose of testing takes time and involves many people, from different teams which cost money
- **Manual validation** of tests results requires time and, again, involves different teams that specialize in a particular part of the process
- Manual validation is prone for error, as small deviations from the desired outcome might be **overlooked**
- Testing end-to-end requires availability of **external systems** and also involves teams responsible for those systems in the testing process

# GAINS

- + **Execution automation** – all steps are performed automatically by Int4 IFTT, without the need for manual operations, which, in real life, usually involve different people from different teams
- + **Validation automation** – all results are validated automatically by Int4 IFTT, and the validation is always very detailed, on a field level, by comparing fields in the message or fields in the database
- + **Virtualization** – no need of involving other systems in the testing process, as they can be virtualized by Int4 IFTT.

“ **100% of all table fields in S/4HANA system of interfaced business documents are being tested automatically with every run.** ”

**Michał Krawczyk**  
SAP Mentor, SAP PRESS author

## Int4 IFTT means...

### ...Codeless Test Automation for SAP systems integration

Enterprise Integration of SAP systems is often based on reusing the existing components and that requires a careful regression testing. It's even more of a challenge now, as concepts such as continuous integration and continuous delivery are becoming a common practice. Faster development pace sets a high bar for testing tools, as it demands continuous testing.

# CONCLUSION IN NUMBERS

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**1**

1 click to **execute test** of entire business scenario

**25**

25 seconds to **test a regular Order to Cash scenario**

**0**

**Zero** integration production issues after the upgrade project go-live which proves that **Int4 IFTT** interface regression testing was complete

**UNLIMITED**

Unlimited number of **process steps** that can be covered in the Int4 IFTT test scenario



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**For more information,**  
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