TRAVIC-Payment Hub

Real-time payments platform for European banks

TRAVIC-Payment Hub is the solution for instant payments, individual and cross-border payments and conventional mass payments on one platform.

Hybrid platform

TRAVIC-Payment Hub is a platform for various European payment processes. The platform makes it possible to create synergies due to the lower costs of integration into your banking processes.

Central business services are only implemented or connected once. In addition, central data structures (based on ISO 20022) allow data to be handled, archived and graphically represented in the same way. Therefore, customer or correspondent conditions are centrally maintained only once and a central routing system is used.

Flexible workflow engine

The workflow engine is the centrepiece of TRAVIC-Payment Hub. It processes the messages and payment orders using configurable business services along your payments process chain.

Payment procedures

Individual payments
- TARGET2
- EBA STEP1, EBA EURO1
- Cross-border payments (AZV= in all currencies)

Instant payments
- EBA RT1
- Real-time bulk according to DK

Mass payments

TRAVIC-Payment Hub

Expert system for complex individual payments

The instant payments solution for individual transaction bulks at high speed

You also benefit from the flexibility of TRAVIC-Payment Hub:

- You have full control over the business services, such as scheduling, embargo checks, route control or booking.
- You define the status conditions and status changes yourself.
- You configure technical interfaces irrespective of the technical processing.
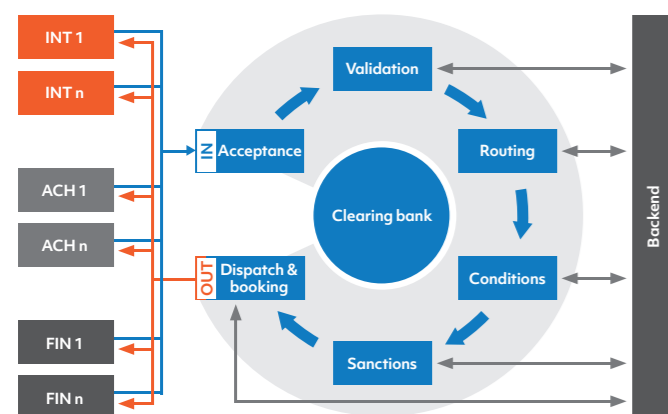
Payment process as a cycle

The TRAVIC-Payment Hub standard workflow (also provided) implements the cycle outlined above and ensures homogeneous processes for inputs and outputs as well as for forwarding and internal payments.

ISO migration under control

The switchover from the SWIFT MT formats to the new XML-based ISO formats for individual payments is imminent. TARGET2 and EBA Euro1 will be migrated in a "big bang" fashion in November 2021. The transition phase from MT to ISO for correspondent banking via SWIFT FIN will also begin on this date. TRAVIC-Payment Hub is based on the ISO 20022 data model and enables you to securely migrate your legacy systems step by step.

Extensive cross-border payments functionality

TRAVIC-Payment Hub meets the highest demands when automating complex and individual cross-border payments. For instance, customer products can be freely defined on the basis of payment attributes and properties or input channels, and conditions for customers can be configured on that same basis. Correspondent conditions, including foreign fees, can also be administered and processed. For payments involving conversion, workflows are supported with execution before and after exchange rates have been taken into account. The payments system can even determine exchange rate gains. The value date control takes into account public holidays and cut-off times in the domestic currency and payment currency.

Navigator

Finding a suitable route for a payment is a major challenge for large banks, particularly in the area of cross-border payments. Depending on the customer order, it is sometimes a case of identifying the fastest route for the payment, and sometimes the most cost-effective one. In this context, it should be possible to generate the routes on the basis of automatic stock imports at runtime, as far as possible, in order to avoid extensive maintenance of many thousands of combinations. The TRAVIC-Payment Hub business service "Payment Navigator" meets precisely these requirements and guides your payments, in a both secure and simple way, through the network of international correspondent bank relationships, just like a navigation system guides a driver.

The new SWIFT GPI directories have been taken into account from the get-go.

gpi – SWIFT global payment innovation

TRAVIC-Payment Hub supports the global payment innovation by SWIFT. Both the requirements of the gpi Basic Service, which is mandatory for all banks, and the requirements of the gpi Standard Service are taken into account.

Instant payments – "the new normal"

Instant payments are revolutionising European payments: they are imposing entirely new requirements on the processing systems of banks. The critical factor is the simultaneous processing of a large number of individual payments. High-performance and robust online processing is a fundamental prerequisite for instant payments.

With TRAVIC-Payment Hub, PPI offers a modern and flexible platform for payment transactions that is optimised for the processing of instant payments.

6,000 SCT instant payments per second

Regarding peak loads, a data volume of 6,000 transactions per second was achieved with the instant messaging server in our standard test environment.

The testing of the entire process chain, including the temporally downstream process steps such as archiving or statistics, revealed a data volume of 1,000 transactions per second on the same standard hardware. The hardware requirements of TRAVIC-Payment Hub are modest in this regard.

Avoiding congestion

Behaviour under a heavy load is of decisive importance for smooth operation in high-volume situations. If, for example, a correspondent or connected system does not respond in a timely manner due to technical problems, this must not create a bottleneck that negatively affects the rest of the transactions. To this end, PPI has deployed a new technology characterised by robustness and resilience. We demonstrated its successful implementation using tests such as the one presented below:
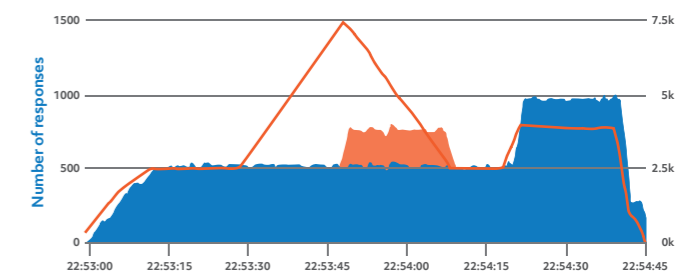
The illustration simulates a delay for 500 transactions per second. At 22:53:30, a partner responds significantly late. The number of transactions active in the system increases (orange line). The delayed transactions (orange) are rejected due to timeout. The transactions of other partners (blue) are processed without issue. One minute later, the partner is back online and the data volume increases.

Real-time bulks

As of November 2019, real-time bulks will be introduced. These bulks differ from the usual SEPA bulks only in that they have a Local Instrument ID and can thus be easily created by corporate customers. TRAVIC-Payment Hub accepts the bulks, offers a pause option in case the execution shall take place at a later time, disposes the sum at the execution time and ultimately executes the single transactions in real time. The pain.002 return message provides detailed information for your corporate customer both in case of success and in case of errors – on single transaction and/or bulk level.

Reconciliation

Reconciling the RT1 clearing account is a technical challenge. Even in the case of delayed responses, inquiry requests, and recalls and returns, TRAVIC-Payment Hub helps you to keep track of everything and enables you to reconcile your clearing account.
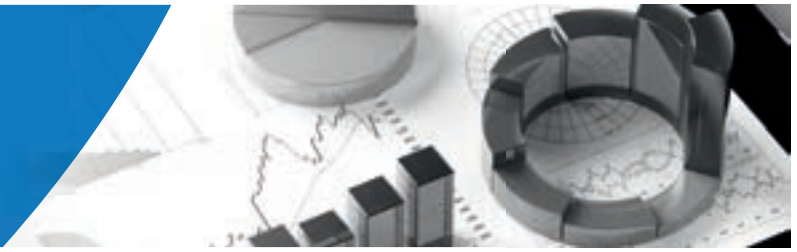
TRAVIC-Payment Hub is the modern core processing solution for interbank payments

The benefits at a glance

- Hybrid payments platform for all types of payments
- Synergies via the one-off and flexible integration into your bank processes
- Flexible workflows for your individual requirements
- Multi-client capability and computer centre operating concept
- Intuitive operating concept that consistently applies the four- or six-eyes principle
- Multilingual GUI in your layout, if required
- High-performance instant payments solution
- Can be used on low-cost hardware
- Stable and robust, even in high-load situations
- Operation of the instant server on a 24/7/365 basis remains uninterrupted through new releases
- Optional: Instant liquidity management
- Optional: Reconciliation of the RT1 clearing account
- High-performance individual payments
- Full control over ISO migration from TARGET2, Euro1 and cross-border payments
- Complete cross-border payments with freely definable customer products, conditions for customers and correspondents, foreign exchange gain determination and value date control
- Payment Navigator with gpi support

Efficiency

Central control of business activities, a flexible operating model and a high degree of automation pave the way for reduced operating costs. High system performance reduces resource requirements and therefore infrastructure costs. This will enable you to offer your correspondent banks and customers competitive conditions.

Seamless integration

TRAVIC-Payment Hub offers seamless integration into your banking applications. The open PPI interface concept is based on proven provider technology and allows banks, data centres and integration partners to implement user-defined interfaces.

Payments monitoring

In addition to integration into the bank's technical monitoring by means of standard instruments such as log4j, TRAVIC-Payment Hub also offers diverse technical monitoring.

This is achieved firstly via the GUI, where each user is specifically informed of his open tasks and all payments can be monitored and controlled. Secondly, TRAVIC-Payment Hub supports a so-called eventing concept via which all the relevant status changes of a payment, message, bulk, transfer file etc. can be reported to a central payments cockpit. You can personally define which status changes you would like to be informed of.

Multi-client capability and operating concept

TRAVIC-Payment Hub has multi-client capability and also supports an operating concept by means of which, for example, the system operator can integrate commonly used systems for all clients.

For questions and further information:

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