

## BOX Messaging Hub – Single Window, Multi-Network Financial Messaging Hub



### Multiple Financial Networks

INTERCOPE's "Box Messaging Hub" (BOX) provides an outstanding 'Single Window' and multi-tenant solution for the financial messaging and gateway requirements of the financial services industry. BOX is used by many large financial institutions including central banks, market infrastructures and service providers throughout Europe, North America, and Australia– handling very large transaction and data volumes through hundreds of BICs.

BOX supports simultaneously multiple financial networks including EBICS, SIANet, and SWIFTNet, with further network interfaces implemented based on customer community demand.

BOX users can connect to Systemically Important Payment Systems (SIPS) such as STEP2 via EBICS, SIANet, and SWIFTNet and to T2S, both via SIANet and SWIFTNet - out of the box. This guarantees complete redundancy of the networking infrastructure, with higher bandwidth to handle peak traffic via load balancing.



### SWIFT Customer Security Programme (CSP)

Community driven prevention against attacks long before the CSP

- together with the BOX community, INTERCOPE has repeatedly participated in various vulnerability tests and improved BOX to be shielded against attacks and threats

#### SWIFT CSP

- full scope, no compromise, BOX conforms to all mandatory and all advisory vendor controls (Embedded / Supported)
- self-attestation completed in 08/2017
- customer certification by Commerzbank in Frankfurt
- full attestation including customer certification in 12/2017 on swift.com

BOX is the first complete SWIFT interface to be fully compliant with the SWIFT CSP.



## SWIFT global payments innovation (gpi)

BOX has implemented the necessary extensions for gpi and has been part of the initial pilot program

Tracker database update

- Manual MT199 and automated MT199/299 creation

Backward compatibility

- UETR generation when missing in SWIFT MT
- Matching of 202cov with MT103
- UETR / Service Type Identifier removal for FIN-Messages

MT199 tracking facility, which customers don't have to pay SWIFT fees for.

Several major banks are in full production with BOX for gpi today.



## Instant Payments

Since 2016 BOX has been extended to the specific requirements of Instant Payments for messaging intelligence such as Active / Active for continuous operation with customer's choice of high-availability and providing multi-network and multi-CSM. BOX supports EBA CLEARING RT1 and ECB TIPS. Supported networks and protocols include EBICS, SIANet and SWIFTNET.

Unlimited software scalability enables highest throughput and extreme peak handling. Complete monitoring can be fully integrated with the customer's choice of infrastructure.



## Flexible Workflow Engine

Fully integrated with the customer's choice of infrastructure, the solution is based on a robust, and format independent messaging engine. BOX provides a flexible workflow engine for file/message management and orchestration - including routing, exception handling and interoperability with one or more networks and market infrastructures.



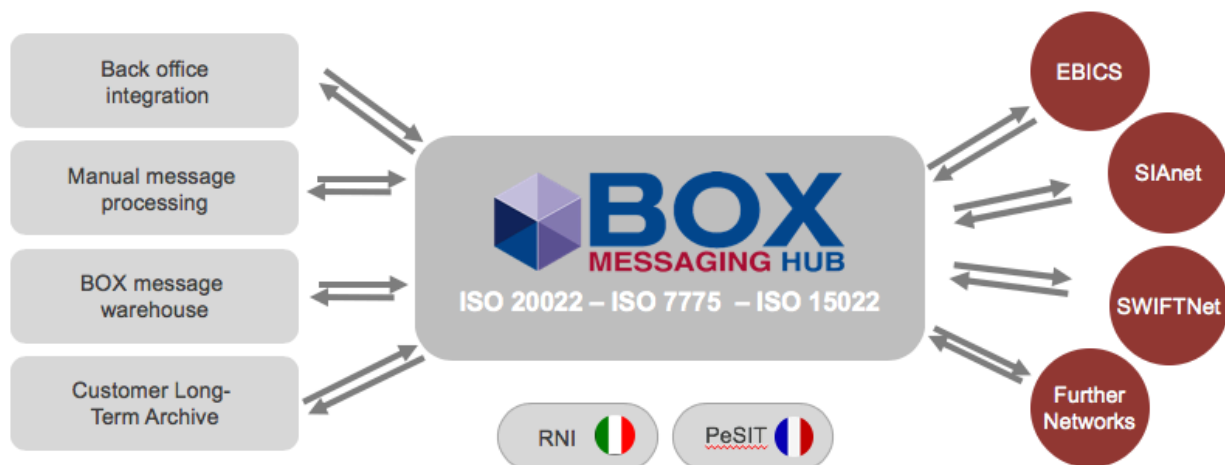
## Comprehensive User Profile Management

BOX comes with a sophisticated User Profile Management (UPM) facility capable to model even the most complex organizational structures. This allows completely independent organizations to define their organizational UPM using their own virtual BOX instance. This architecture makes BOX a favored platform for service providers - who manage the traffic of multiple financial institutions. INTERCOPE has several large service provider customers making use of this functionality.



## Message Validation & Conversion

Complete message and file validation (syntax, semantics, cross-field) is provided as well as bi-directional conversion for SWIFT MT / MX messages per SWIFT defined conversion rules. Conversion of industry files / messages to / from proprietary and legacy formats in BOX allows our customers to shield their back-office applications from periodic SWIFT and market infrastructure changes.



## About Intercope

Intercope is an independent, privately owned software company with over 35 years of experience in financial messaging. Intercope provides mission critical Financial Messaging software to major institutions including central banks, Tier 1 commercial banks, market infrastructures and IT service providers.



## Close Customer Relationships

In 2011 the BOX User Forum was founded, with the first meeting hosted by Bank Austria in Vienna. The event has been organized on a yearly basis since, evolving into the most important event for the BOX user community and INTERCOPE itself. Close customer relationships and the early consideration of customer requirements in the development process, form an essential part of INTERCOPE's culture and have been a key factor in the success of the company. The BOX User Forum provides an excellent platform to maintain and to enhance these important relationships.