

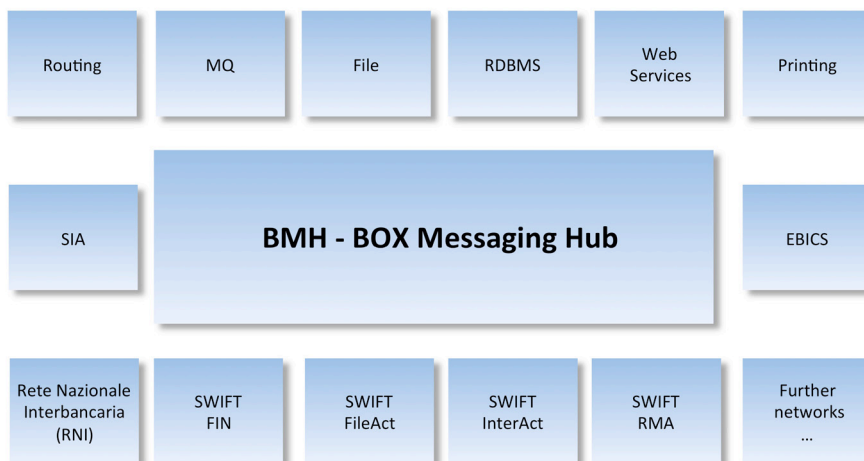
INTERCOPE



Outstanding price performance
on IBM System z



A complete financial messaging solution on Linux for System z



Significantly lower hardware and software costs

Mainframe power within a new pricing dimension

IBM's latest mainframe entry models such as the z114 and the zEnterprise BC12 heralded a revolution in price performance. They provide all the proven advantages of IBM zSeries technology such as high reliability and availability with outstanding performance but at a price far below the traditional cost of a mainframe. This is true not only for the hardware, but also for software license costs - in particular under Linux for System z. Traditionally software costs are calculated according to CPU resource consumption under z/OS, however IBM only charges a flat rate called IFL (Integrated Facility for Linux) per processor under Linux for System z.

Enhanced availability, reduced administrative costs

An attractive alternative for distributed environments

IT managers and system administrators considering moving applications from a mainframe to a distributed environment due to cost considerations now have an attractive alternative allowing them to keep all the proven mainframe benefits in the Linux for System z environment. It is now financially attractive to deploy applications, which had previously been installed on a scattered landscape of distributed Windows and Unix servers, in the Linux for System z environment while enhancing availability and reducing operating costs.

2.8 million SWIFT FIN messages in 5 hours

High transactions rates with BOX Messaging Hub

One example for this strategy is the deployment of INTERCOPE's financial messaging solution "BOX Messaging Hub" (BOX) on the zEnterprise BC12 platform (zBC12). Performance measurements made at the IBM Client Center in Böblingen, Germany revealed that BOX can handle 160 SWIFT FIN messages per second (TPS) utilizing only 2 processors on a zBC12 including the resources required for DB2, WebSphere MQ and WebSphere Application Server. This corresponds to a SWIFT message volume of 576,000 messages during one hour, or more than 2.8 million SWIFT messages in a 5 hour window indicating that a single instance of BOX running on a zBC12 can easily handle the volumes experienced by very large SWIFT users.

20 Million SEPA transactions in 4 hours

Prepared for large SEPA message volumes

Another test revealed, that one BOX instance can process 20 million SEPA transactions from 20 files (in total 20 GB) in 4 minutes (without transmission to SWIFT) indicating that the processing time required by BOX for large SEPA message volumes is insignificant in relation to the transmission time. First tests including data transmission to SWIFT indicate the BOX can process the above message volume in about 4 hours with two SAGs and 10 Mbps communication lines.

SWIFT, SIA, EBICS, and regional networks and protocols

Multiple Financial Networks

BOX Messaging Hub (BOX) is a financial messaging hub supporting several financial networks and various options to integrate back office applications. BOX includes interfaces for SWIFT FIN, FileAct, and InterAct certified for SWIFTNet7 (BOX for SWIFTNet) and supports SIA and EBICS for file transfer and national and regional networks such as the Italian RNI (Rete Nazionale Interbancaria), as well as Connect Direct for intra enterprise file exchange. Further networks and protocols are implemented based on the evolution of technology and customer requirements as part of the standard product.

One unique solution

Single-Window-Solution

BOX provides a Single-Window-System for all messaging requirements of financial institutions in one unique application allowing customers to select the network of choice for specific purposes, messages or applications. BOX perfectly integrates into the strategic environment of enterprises for mission critical applications supporting all relevant hardware platforms, operating systems, and cluster and virtualization technologies.

Message analysis and customizable routing

No Additional Components Required

The only prerequisites of BOX are a relational database system such as DB2 or Oracle and a Web Application server while functions such as sophisticated message analysis and a completely customizable routing are part of the application and do not need further middleware components.

Message investigation and manual message processing functions

All-Embracing GUI

Message investigation is eased by online journaling functions, and an intuitive graphical user interface which is provided for manual message processing functions such as message creation, authorization, and correction for all type of messages. A complete audit log traces all actions which have been executed on a message and is provided in the GUI avoiding the need to investigate in several systems and to access log files or other sources of information.

Favored by service providers

Powerful User Profile Management

BOX includes a sophisticated User Profile Management (UPM) facility with up to 8 hierarchical levels capable of modeling even the most complex organizational structures. This provides a powerful capability which eliminates a great deal of complexity found in current SWIFT messaging systems. This architecture makes BOX a favored platform for service providers managing the SWIFT traffic of numerous financial institutions.

Reduced hardware and software cost and streamlined operation

Significant Cost Savings

At the bottom line BOX allows to replace various systems and middleware components which have been typically required previously to fulfill the needs of financial messaging by one unique application significantly reducing hardware and software cost and administration efforts, while enhancing system availability and performance. In particular BOX is perfectly suited to handle the enormous amount of SEPA messages which will be have to processed by financial institutions in Europe from February 2014 on.

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