

INTERCOPE

BOX for SWIFTNet Component - IC-ADD **Comprehensive add-on application** **functionality for WBI-FN**

BOX for SWIFTNet – IC-ADD

Graphical User Interface for:

- Message Warehouse
- Routing in Message Broker
- Command Line Interface

Printing
Archiving
End-of-day processing
Merva API emulation

WebSphere Message Broker

- Routing Infrastructure
- Event Handling
- Transaction Management

WBI-FN

InterAct	Audit Log
FileAct	Event Log
FIN	Message Warehouse
	FMT
	Bulking/De-Bulking

IBM's WBI-FN is IBM's open standards strategic middleware platform for financial messaging. It provides banks, stock exchanges and other financial institutions with a single platform for all of their communications channels. WBI-FN provides an automated SWIFTNet connection offering multiple advantages including:

- A completely new implementation based entirely on modern IBM middleware (Message Broker, DB2, MQ, etc.)
- Runs on mainframe, and also on AIX platforms
- Proven capability to handle any volume of traffic
- Offers a unique single-window approach for all SWIFTNet communications: FIN, FileAct, InterAct

However, WBI-FN is a highly automated core system, requiring additional add-on functionality, to implement a complete SWIFT system. In line with the IBM Software Groups strategy to supply middleware and related basic functionality such add-on's have to be supplied by partners of IBM.

This component of BOX for SWIFTNet offers a set of additional features and functions to complement WBI-FN.

Message Retrieval

Searching for messages is an important and significant task when questions arise. In addition to standard search tools (incl. full text search) this component provides multiple additional features to allow more refined and configurable searching:

- **Search Across Multiple Data Sources**

Journals can be configured to include a number of different data sources thus allowing a unified search while the data retrieval takes place on the completely separate data sources. Examples of different data sources include the WBI-FN message warehouse, archiving data, customer specific tables, BOX message warehouse, etc.

- **Easy Search**

Configurable journals allow a pre-filtering of the traffic (e.g. only incoming or outgoing messages, only RTGS messages, messages to/from specific partners, etc.) thus allowing a more focused search

- **Advanced Search**

Searches for any number of parameters with any logical combination of operators (AND, OR, NOT, etc.) can be pre-configured and stored to allow easy re-use of more complicated searches

Message Visualization

SWIFT messages are not easy to read if they are simply displayed in the same format as they are transmitted via the SWIFT network. Both FIN and all new SWIFT message types (XML) can be viewed through the visualization function of BOX for SWIFTNet allowing for secure and rapid handling of any SWIFT message. The example below shows a raw SWIFT message and the same message when viewed through the BOX for SWIFTNet visualization facility.

The image shows two representations of a SWIFT message. On the left is a raw text representation, and on the right is a visualization form.

Raw SWIFT Message:

```
:20:My Reference  
:23B:CRED  
:32A:211006EUR33,33  
:33B:EUR33,33  
:50A:PTSADESSAXX
```

Visualization Form:

20 - Sender's Reference:	<input type="text" value="My Reference"/>
Seq1:	<input type="text"/>
23B - Bank Operation Code:	<input type="text" value="CRED"/>
Seq2:	<input type="text"/>
26T - Transaction Type Code:	<input type="text"/>
32A - Value Date/Currency/Interbank Settled Amount:	Date: <input type="text" value="211006"/>
	Currency: <input type="text" value="EUR"/>
	Amount: <input type="text" value="33,33"/>
33B - Currency/Instructed Amount:	Currency: <input type="text" value="EUR"/>
	Amount: <input type="text" value="33,33"/>
36 - Exchange Rate:	<input type="text"/>
50:	<input type="text" value="A - Ordering Customer"/>
	Account: <input type="text"/>
	Bank Code: <input type="text" value="PTSADESSAXX"/>

Printing

Sometimes a message or other data must be available in printed form to allow secure and rapid handling. Add-on for WBI-FN provides additional functionality to facilitate this requirement:

- **Automatic Printing**

Can be fully configured in the message processing flow.

- **Manual Message Printing**

Manual message printing is initiated directly from the Browser and thus can easily be initiated from any workstation. Security features such as a print header, start / end indicator, page count, etc. are all easily included. The manual printing of multiple messages in one step is also supported.

- **Layout of Print Output**

Generally speaking all FIN messages are printed in an easy-to-read format (based on the internal XML structure of the FIN message). Special messages (e.g. MT 950, account balance) are printed with a highly optimized individual message layout.

Merva-like Routing Using WebSphere Message Broker

Routing of SWIFT messages is usually performed using the WebSphere Message Broker. In order to allow the definition of routing for FIN messages to be as similar as possible to that used in today's Merva, a GUI interface together with appropriate Broker Flows has been developed. Routing criteria are stored in DB2 and can easily be changed without requiring Broker administration personnel.

BOX for SWIFTNet Websphere Broker Routing Configurator

Routing Rules | Fields | Destinations

Conditions	Route To	Next
Sender Destination is equal to PTSADESSA and TRN contains IBM	Test queue	continue...
TRN contains INTERCOPE	INTERCOPE	stop.

Routing Rule Definition

IF

Sender Destination is equal to PTSADESSA and

TRN contains IBM and

THEN route to Test queue and continue...

OK Cancel

Default Destination: DEFAULT Save Up Down

Edit... Add... Delete...

GUI for WBI-FN Command Line Interface (CLI)

IBM provides a Browser-based GUI for the command line interface of WBI-FN via a support pack but not as integral part of WBI-FN. BOX incorporates this IBM support pack in its GUI to allow using this configuration facility as part of this component.

End-of-Day Processing

Currently standard end-of-day processing covers FIN messages, but this will be enhanced to include the entire SWIFT traffic, subject to customer demand. To produce archive data, FIN messages are taken from the Audit log of WBI-FN and enriched with index information. If the message warehouse of WBI-FN is used then archive data can be retrieved from this data source. As well as producing archive data, the end-of-day processing produces an ISN/OSN gap list and common traffic and currency/amount statistics. Additional standard or customer-specific data reporting can be supplied on request.

Archiving

For legal reasons messages have to be stored for many years. For this purpose the SWIFT messages are unloaded (see above) and transferred to a dedicated archive system. The standard archive system of BOX for SWIFTNet is IBM Content Manager for which an integration module is provided. Optionally other archiving systems can also be used.

Prerequisites

- CBT WBI-FN BSN 2.1 or higher
- BOX server platform according to choice
- Database software DB/2
- Web Application Server IBM Websphere, BEA, etc.
- Middleware MQ, JAVA, Browser

See "BOX for SWIFTNet Hardware and Software requirements" for further details.

Ordering

IC-ADD can be ordered from IBM under IBM PID#.

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