

## Solution Overview



For clients new to using SWIFT FIN message type formats with IBM App Connect Enterprise, it is recommended to use alternative IBM App Connect Enterprise Solution for SWIFT FIN Messaging (DFDL Edition), SupportPac IAMB.

### For more information

IBM Technology Expert Labs  
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### Support and services

Support, maintenance and subscription provided as an ongoing annualised service.

On site services available for installation, education and configuration of the solution.

IBM can provide a highly available solution comprising entirely of IBM supplied and supported components covering hardware, operating systems, database, middleware, integration broker and SWIFT messaging components.

IBM uses a global, blended delivery approach to minimize risk and manage timeline, responsibilities and costs.

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## Technology Expert Labs

## IBM App Connect Enterprise Solution for SWIFT FIN Messaging (MRM Edition)

*IBM App Connect Enterprise SupportPac IAOT*

### Society for Worldwide Interbank Financial Telecommunication (SWIFT)

The SWIFT network is a key piece of infrastructure in world finance and is the principle means by which financial institutions communicate and transfer money. As business needs change, and the scope of business function covered by SWIFT grows, the SWIFT message standard also changes.

Financial institutions need to continually invest millions of dollars annually to keep pace with standards changes. The result is that back end applications, front end applications and integration hubs need updating to handle changing message formats and rules.

The goal of most financial institutions is to reduce the time and cost associated with manual intervention in SWIFT messaging. Having a centralized message transformation, enrichment and validation process can be of significant benefit to all SWIFT applications in the enterprise.

Employing an integration broker-based architecture provides the capability to isolate applications from changes to message content and the flexibility to introduce enterprise wide industry message models.

### IBM App Connect Enterprise Solution for SWIFT FIN Messaging (MRM Edition)

The IBM App Connect Enterprise Solution for SWIFT FIN Messaging (MRM Edition) enables IBM App Connect Enterprise for parsing, validation, processing (including transformation) and writing of SWIFT FIN MT messages and provides SWIFT network validation equivalent within IBM App Connect Enterprise. The solution provides significant acceleration in the development of SWIFT integration solutions.

#### Key features:

- Enables SWIFT FIN MT message processing on IBM App Connect Enterprise.
- Delivers MRM (Message Repository Manager) message sets containing definitions of all SWIFT FIN message types.
- Provides SWIFT FIN MT syntactic and semantic validation functionality equivalent to SWIFT network validation within IBM App Connect Enterprise.
- Available for SWIFT FIN MT standards releases 2023, 2024, 2025 and subsequent years.
- Reduces the impact of SWIFT FIN MT annual changes through delivery of annual updates in line with SWIFT standards updates.
- Support, maintenance and subscription provided as an ongoing annualised service.
- Components updated annually in line with the annual SWIFT Standards Release.

### Leverage the IBM Advantage

These components, available and fully supported on platforms such as IBM AIX, IBM z/OS, Linux and more, facilitate the rapid integration of enterprise applications into the SWIFT messaging eco-system. The details of message transmission and message syntax are abstracted allowing development teams to focus on the delivery of business value.

### Contact

For further information on the IBM App Connect Enterprise Solution for SWIFT FIN Messaging (MRM Edition), contact IBM Technology Expert Labs at [dubadsup@ie.ibm.com](mailto:dubadsup@ie.ibm.com).



## Technical Overview

SWIFT applications can have many common requirements, for example, gateway access, auditing, warehousing, message filtering, content monitoring and database access are all common functions across many SWIFT applications.

An integration broker architecture helps meet these requirements in a manner which facilitates the reuse of these common functions. It can also facilitate the various applications by routing only the appropriate messages to each application using content-based rules.

For an integration broker to provide these benefits in a SWIFT messaging environment it needs to be capable of parsing, validating, enriching, mapping, routing, persisting and serializing the contents of SWIFT FIN MT messages.

The IBM App Connect Enterprise Solution for SWIFT FIN Messaging (MRM Edition) enables this capability for IBM App Connect Enterprise by providing MRM (Message Repository Manager) message models for rolling releases of the SWIFT FIN MT standard. In addition, the solution provides a validation plug-in and supporting message flows which implement runtime validation equivalent to SWIFT network validation.

Typical integration projects built using IBM App Connect Enterprise involve the development of two types of key components:

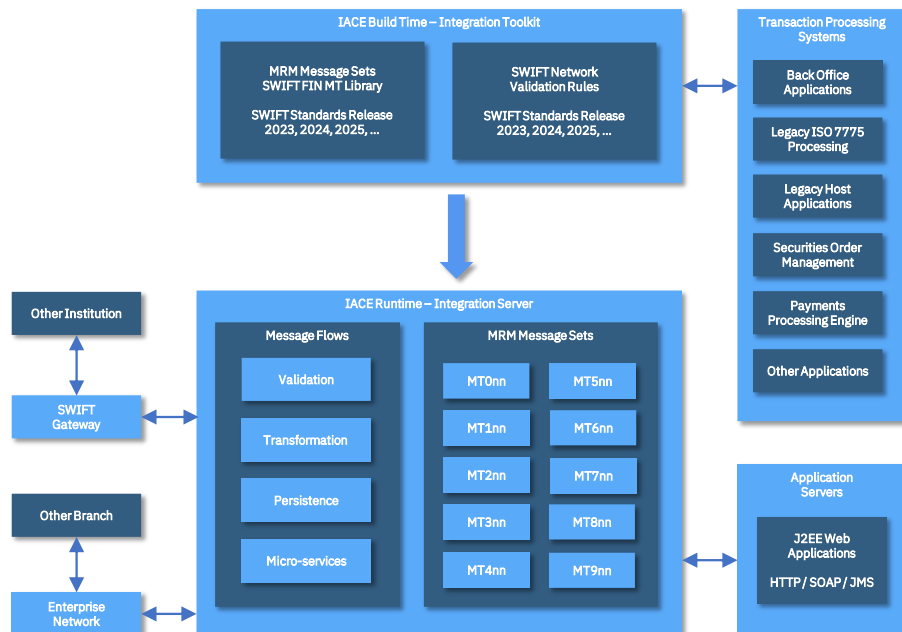
- A message model, which contains the meta-data necessary for the integration broker to parse, manipulate and serialize messages.
- Message flows, which provide routing, transformation, database access and manipulation logic on the parsed message contents.

The solution's MRM message sets deliver pre-built models for all SWIFT FIN message types, encapsulating within a technical embodiment of the SWIFT FIN MT standards.

These features provide significant acceleration in the development of SWIFT integration projects.

Message flows are often developed to transform messages from SWIFT FIN MT to in-house or other standard formats. Transforming to a default XML representation requires virtually no

## Architecture



development effort using the IBM App Connect Enterprise Solution for SWIFT FIN Messaging. Other message formats and specific XML representations require transformation message flows.

## Technical Advantages

- Support for IBM AIX, IBM z/OS, Linux, Windows and other platforms supported by IBM App Connect Enterprise.
- Benefits from the robustness and scalability of IBM App Connect Enterprise.
- Removes the time intensive job of reading the SWIFT Standards MT documentation and defining and maintaining message models.
- Accelerates annual application maintenance.
- Messages are parsed into an easy to manipulate logical element hierarchy, the integration broker common message model.
- Users are shielded from the technical format complexities of the SWIFT FIN MT physical format.
- Implements validation rules equivalent to SWIFT Network Validation.
- Implements IBAN check digit validation in line with specification EBS 204 V3.2 (2003).
- Comprehensive validation helps improve application quality and reduce transaction and intervention costs.

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