

Solution Overview



For more information

IBM Expert Labs
Commercial Payments
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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.

Evolve with your needs

Progress to the next level of skill and expertise with the assistance and direction of IBM experts. Our professionals work alongside you to help improve your ability to respond to opportunities.

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

IBM App Connect Enterprise SupportPac IAMB

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 (DFDL Edition)

The IBM App Connect Enterprise Solution for SWIFT FIN Messaging (DFDL 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 a message model implemented using Data Format Description Language (DFDL)* annotations for SWIFT's published MT-XML schemas.
- Provides SWIFT FIN MT syntactic and semantic validation functionality equivalent to SWIFT network validation within IBM App Connect Enterprise.
- Delivers logical data structures consistent with SWIFT MyStandards and MyStandards Base Libraries (MBL) content.
- Available for SWIFT FIN MT standards releases 2022, 2023, 2024 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.

* DFDL is an open standard from the Open Grid Forum.

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 (DFDL Edition), contact IBM Expert Labs – Commercial Payments, at 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 (DFDL Edition) enables this capability for IBM App Connect Enterprise by providing DFDL 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:

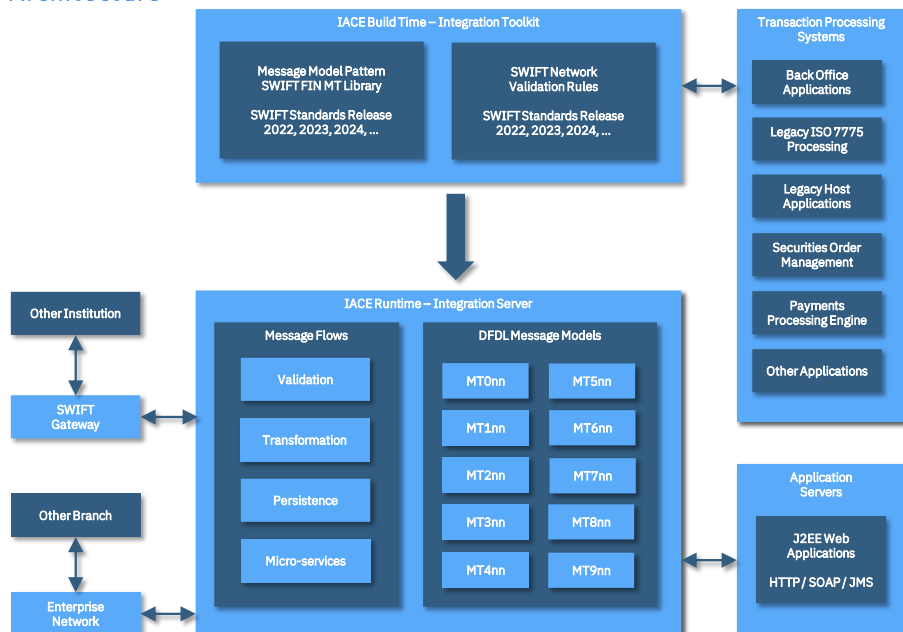
- A message model, which contains the meta-data necessary for the integration broker to parse, manipulate and serialize messages.
- Message flows, which provide routing, transformation, database access and manipulation logic on the parsed message contents.

An IBM App Connect Enterprise pattern implementation delivered with the solution allows the creation of custom DFDL message model libraries each containing a selected subset of SWIFT FIN MT definitions. This keeps libraries small and efficient to work with.

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

Architecture



representation requires virtually no 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.
- Logical structures recognisable and consistent with SWIFT MyStandards and MyStandards Base Libraries (MBL) content.
- 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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