



Dramatically shorten the time from 'investment' to 'return on investment'

Benefits

- Faster time-to-benefit
- Leverage your business applications
- Reduce risk
- Reduce maintenance costs

Integrator

Enabling integration of business applications with SWIFT

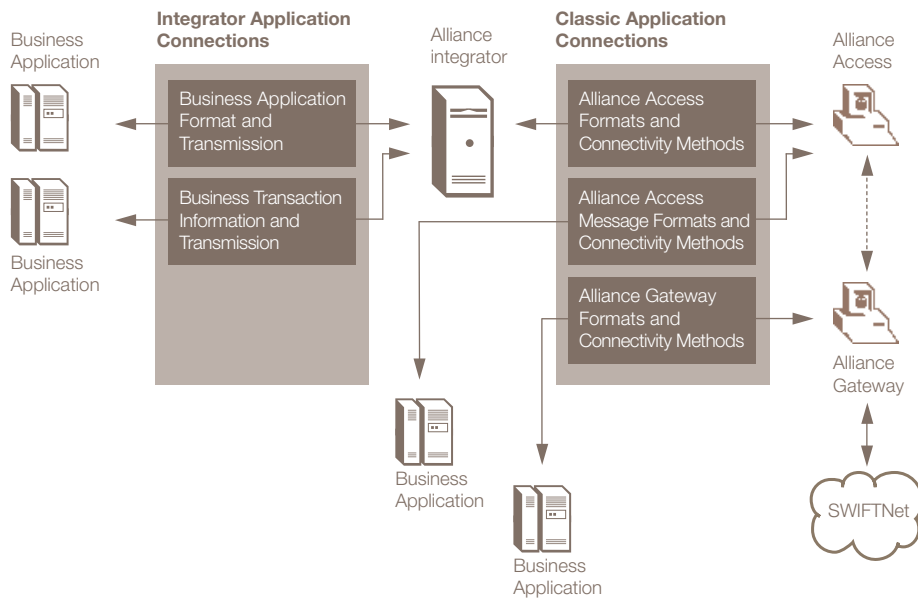
SWIFT is currently developing Integrator, a SWIFT-specific integration layer for connecting your business applications with our messaging and integrating the flow of business transactions with our solutions. Integrator will provide a configurable framework for automated message processing and collaborations supporting SWIFT solutions. All standards and formats available on SWIFTNet are supported (MT, MX, FpML, AnyXML). Integrator will be offered as an add-on to Alliance Access.

Benefits

Integrator improves your business case for adopting SWIFT solutions; it reduces the cost and risk of implementation; and it shortens the time-to-benefit from SWIFT solutions. The overall tasks associated with integration of business applications with SWIFT (for both new messaging and SWIFT solutions) are consistent, and constrained to Integrator, simplifying the integration scenario.

- Faster time-to-benefit
Integrator provides integration tools to reduce development efforts associated with implementing SWIFT solutions for production use. The use of these tools should also shorten the implementation period, thereby providing your line of business with faster time-to-benefit for SWIFT solutions.

- Leverage your business applications
Integrator connects to your existing business applications using the connectivity and formats of those business applications. Transformation to and from SWIFT messaging formats and interchanges is handled inside Integrator, as is the management of multi-message SWIFT solution collaborations associated with a single business transaction. Business applications may not need to be re-designed or re-implemented to begin to take advantage of emerging SWIFT solution functionality.
- Reduce risk
Integrator minimises the impact of SWIFT changes on business applications. The reduction in the number of upgrades required for business applications lessens the risk of problems occurring with those applications. Further, it may be possible to implement a SWIFT solution without affecting the application, thereby reducing the risk of going forward with a SWIFT solution.
- Reduce maintenance cost
Integrator insulates business applications from periodic changes as a result of evolving standards and messaging services. Changes in the business application are only required when that application has a business need to use new functionality. Such changes may not be needed for every standards release. Many standards changes can be localised to Integrator, simplifying implementation, testing and promotion to production at the appropriate time, thereby reducing your overall maintenance costs.



Integration architecture, functionality and operational requirements

Integration architecture

SWIFT has always offered connectivity between its Alliance interface products and business applications. This connectivity has been provided in a classic mode, whereby the business applications have to conform to SWIFT interface formats and connectivity methods, including payload layout appropriate to the service, headers and addressing, SWIFTNet and FIN protocols, and transmission mechanisms depending on the interface. Existing direct connections to Alliance interfaces may remain in use beside Integrator.

Integrator can communicate to business applications using a wide variety of transmission protocols and can accept or send almost any type of format. After being defined either by you or by a partner, the transformation of business data to and from SWIFT payload layouts takes place within Integrator. Service details and technical protocols are handled by Integrator.

Functionality

Connecting to business applications

- Adapters
Integrator provides full support for transmissions to and from business applications using file/ftp, Java Message System (JMS), or IBM WebSphere MQ. You may also choose to use any communication or application adapter supported by the underlying commercial integration package. These adapters are supplied either by the vendor of the toolset or by a third party.
- Transformations
Business applications can provide information to Integrator or receive information from Integrator in almost any record or file format, including, among others comma separated values records in a file, COBOL copybook, XML, or SWIFT message. Most proprietary formats can be defined using the integration tools provided. You are responsible for completing the mapping between your own formats and the formats provided by SWIFT (payloads).

- Message standards
Integrator incorporates standard schemas available from SWIFT supporting MT and MX message exchanges, as well as FpML. Other XML messaging definitions to be used with AnyXML exchanges, are available from the respective defining organisations. Optional schema validation is supported. Other validations may be performed as you choose to implement them. Note that Alliance Access must also support the respective standards and exchanges.

Connecting to SWIFTNet

- Connectivity
Integrator connects to SWIFTNet through Alliance Access, which, in turn, connects through an Alliance Gateway. This connectivity is transparent to the business applications.
- Reconciliation
Integrator reconciles any messages sent via FIN with their acknowledgements and updates the status of the message to SWIFT, for business purposes.

Collaboration

- *Funds order submission*
Integrator contains the business collaboration for Direct Funds Order Submission (from the point of view of the ordering party). This collaboration is provided as a sample project, and is meant to be tailored to accept input from your funds ordering application and to provide input back to that or another application upon confirmation. The collaboration manages the intermediate status messages and can optionally return information to the business application about these. Overall status for the collaboration is monitored.
- *Other collaborations*
You may implement collaborations to support other business processes relating to your SWIFT processing, or to support other SWIFT solutions.

Monitoring

Integrator incorporates a browser-based monitoring facility to address both business and technical status. Views and available information are based on roles and privileges.

- *Business monitoring*
Integrator business monitoring provides updated status of business information and transactions as they pass through Integrator and SWIFT. Both business application reference and SWIFT reference, as well as your defined keyword parameters, can be used for searching. Business application and SWIFT payloads are available for reference.
- *Events*
Integrator generates both business-related and technical events, which are included in the monitoring. Each type of event may also be individually routed via SNMP or e-mail.

Tools for customer-specific processing

- *Integration configuration*
Integrator provides technical configuration features and configuration for your data. The technical configuration permits the set up of adapters, event distribution, and so on. The configuration for your data includes business definition, user set-up, transaction and processing step definition, and correspondent-related processing.
- *Integration toolset*
Integrator includes a full commercial integration toolset, which is available for your use for SWIFT-related integration.

Services

Integrator is a SWIFT-supported product. But, unlike other products, it needs to be configured and certain components need to be developed to meet your needs. SWIFT certifies service partners to assist you in these tasks.

Operational requirements

Integrator runs on IBM/AIX, Sun Solaris or Windows operating systems. The development environment runs on Windows.

Integrator may be installed either at your location or at a service bureau.

Integrator will be generally available in 2009.

For more information please contact your SWIFT account manager or visit www.swift.com