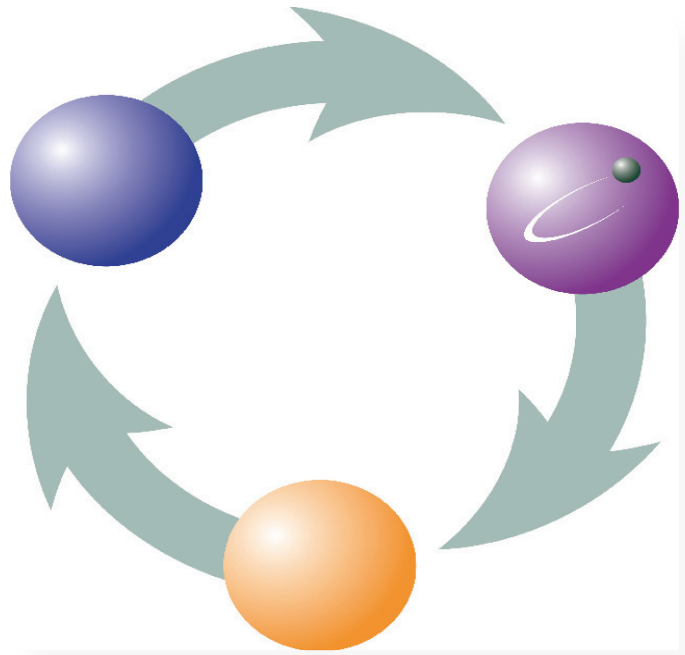


SYNERGY



CLARiTY
switch

Web Based Server Designed To Switch High Value Financial Messaging

- Message routing and distribution
- Transaction management
- XML library services
- SWIFT XML library and transformation services
- Intra-day liquidity monitoring
- Long-term message archiving and retrieval
- Message investigation on any field of a message or text string
- Multiple communication adapters - SWIFTNet integration
- BIC directory support
- Thin-client (browser based) technology



Ready Services

United Kingdom 2010

CLARiTY
suite



Web-based Server Designed to Switch High Value Financial Messaging

ClaritySwitch is a financial messaging server designed for handling high value messages exchanged between financial institutions. It has been designed to offer you a powerful tool for managing and processing your financial messages in a web environment.

Its secure and flexible web architecture makes it easy for your financial institution to distribute messages and financial information to and from its correspondents, customers and internal business units.

ClaritySwitch is implemented as a communication layer between core business applications and external networks and services. This means that your financial institution can achieve independence from external services (in its application environment), thereby providing one single connectivity point.

ClaritySwitch has an impressive installed base and is used in a wide range of business scenarios; from message switching and monitoring to data aggregation and powerful investigations.

The SWIFT messaging engine

ClaritySwitch is totally compliant with SWIFT message standards, services and products, including the latest SWIFTNet services.

The system offers you a consolidated view of all SWIFT activity and provides you with real-time liquidity reporting, traffic reconciliation as well as keeping track of your institution's message flows.

ClaritySwitch also provides easy and flexible on-line search and retrieval capability on the historical message archive. This feature is very useful as you can look up any archived message, in its original format, without the chore of restoring from proprietary archive systems.

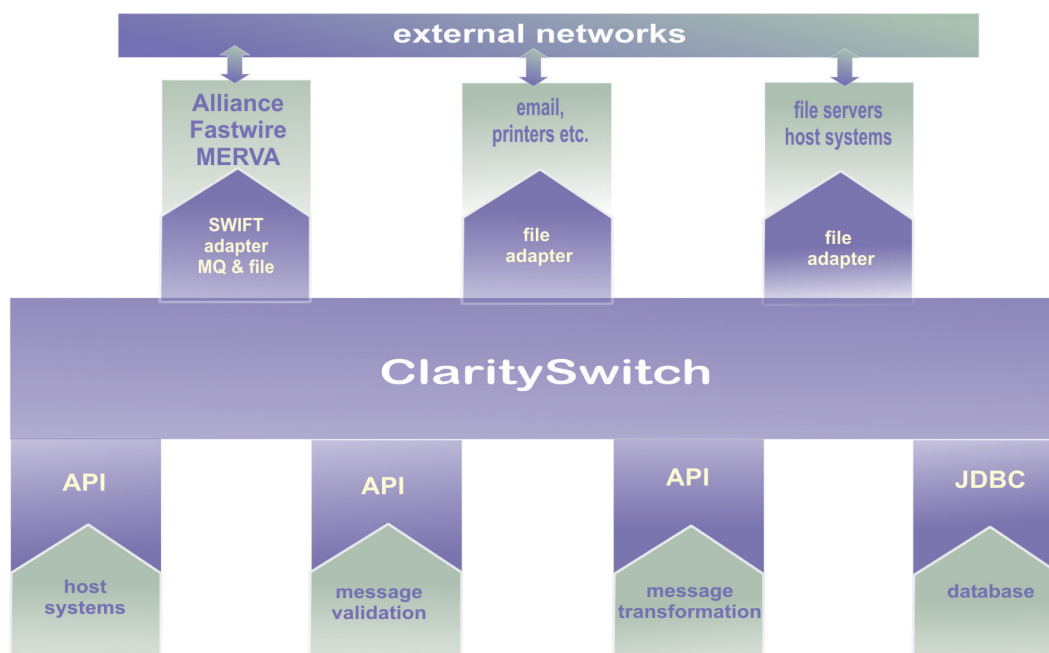
Its message switching and reconciliation capabilities allow you to use the system's extensive surveillance and control functions for monitoring the total message flow in, through and out of your financial institution.

At A Glance

- RDBMS Transaction Manager (dual commit, replication etc)
 - Paging on demand with scalable query management
 - Message archiving and retrieval (warehousing)
 - Store-and-forward processing
 - Real-time payments summarisation
 - Real-time duplicate message detection
- Complete XML Library for all SWIFT messages
- Full Semantic and Syntactic validation of SWIFT messages
 - API to validation engine
- Message Transformation Services
 - API based transformation services
- Comprehensive message filtering and routing functionality
 - GUI based administration of routing criteria
 - Content-based routing (any part of message or fields)
 - Message routing to exit points
 - Departmental printing based on routing results
- Message Delivery Services
 - Automated message delivery to departmental mailboxes
 - GUI based view and control of messages
 - Message forwarding to another department
 - Broadcasting facility to send msg to all departments (e.g. mt999)
 - Complete & print a message
 - Full audit history of actions performed on the message
- Long-term message archive in RDBMS database
 - Supports multiple interfaces using MQ, File (AFT), Java API or direct SQL connectivity to database
- Output messages to PDF
- Facilitates production system recovery by maintaining a real-time image of message data

MT	BIC	Ack Date	Reference	Currency	Amount
300	UBSWUS33A200	20030110	TFXMA38933700001	CAD	2000000.0
300	DEUTGB21A200	20030114	FX00901257105001	EUR	6250000.0
300	BOYCGRELEB200	20030116	FX14611861	USD	1583100.0
300	ABNAUS4CAFXX	20030117	300D10344456500	USD	200000.0
300	ABNAUS4CAFXX	20030117	300D10344456300	USD	200000.0
300	UBSWUS33A200	20030117	TFXMA40617300001	USD	1528013.58
300	DEUTGB21A200	20030130	CDXFF000615444/1	USD	918810.0
300	ABNAUS4CAFXX	20030210	300D1FTB7735800	JPY	2.422715E7
300	ABNAUS4CAFXX	20030210	300D1FTB7732500	JPY	3.0273975E7
300	ABNAUS4CAFXX	20030210	300D1FTB7735900	JPY	9.68008E7
300	ABNAUS4CAFXX	20030210	300D1FTB7735700	JPY	1.0285055E8
300	ABNAUS4CAFXX	20030210	300D1FTB7732000	JPY	5.913338E7
300	ABNAUS4CAFXX	20030210	300D1FTB7735600	JPY	3.146026E8
300	ABNAUS4CAFXX	20030210	300D1FTB7735800	JPY	3.146026E8
300	ABNAUS4CAFXX	20030210	300D1FTB7741100	USD	118076.0
300	ABNAUS4CAFXX	20030210	300D1FTB7734000	JPY	2.422715E7

Linking your business to the world



Key Features

Message Routing & Distribution

Powerful message filtering and routing capabilities enable you to switch messages between networks and back-office applications, making it easier for you to communicate with all your correspondents and customers.

Predefined routing rules are available, or you can modify these rules to match operational needs. You can also define your own routing conditions to direct messages. Criteria include character strings within message fields.

You can specify any number of actions through the routing conditions, i.e. sending messages to external applications such as back-office applications, networks or printers.

You can reduce your administrative burden by automating processes to improve customer service. Copies of messages can be sent via email or faxed to customers. Notifications can be routed back to the sender to inform of any status changes etc.

Real-time Duplicate Message Detection

Set your own criteria for duplicate messages checking. Appropriate user-defined actions and notifications via the system's routing module can be generated to handle these exceptions.

Real-time Payments Summarisation

ClaritySwitch provides liquidity reporting with real-time summarisation of funds sent and received. ClaritySwitch can be user-configured to summarise payments and advices (e.g. MT103, MT202). Real-time liquidity information is maintained in database summary tables available to applications.

SWIFT XML Library & Transformation Services

A full XML Library and Transformation Services for SWIFT Messages (including ISO 15022 messages) are provided through API calls. Validate FIN messages according to SWIFT & ISO message standards (semantic & syntactic validation) and transform messages between SWIFT and XML formats.

Archiving & Retrieval

Powerful archiving and message retrieval functionality helps you to find messages quickly and efficiently anywhere in the environment.

Flexible search criteria enable users to query the database and search for specific messages.

Business Benefits

- Reduced SWIFT network costs through improved STP message transformation, enrichment and repair.
- Improved reconciliation, monitoring and control of message flow through one consolidated point
- Reduced risk by monitoring throughput, managing flows and knowing where messages are at any given moment
- Improved security via comprehensive message management and security layer
- Improved access to messages in historical archives and improved service levels for correspondents and customers with PDF, Excel and e-mail outputs
- Modern Web Architecture enables low-cost rollout and upgrades, easy access and investment protection

Hardware and Software Requirements

ClaritySwitch is supported on Microsoft Windows 2003 Server, Sun Microsystems Enterprise Solaris (UNIX) and IBM AIX.

The following is an overview of ClaritySwitch's hardware and software requirements.

Minimum Hardware & Software Requirements - Windows 2003 Server	
Platform	Pentium Xeon - 3.0 GHz or higher (dual processor recommended)
Operating System	Windows 2003 Server Standard or Enterprise Edition
Memory	2Gb or higher
Disk Space (static)	300Mb for software install 20Mb BIC, 50Mb UHB
Disk space (database)	Minimum of 10Gb disk space (5Kb per average SWIFT message) SCSI disks and RAID 5 recommended
LAN Adapter	1Gbit Network Interface
Database Server	SQL Server 2000
J2EE Server	IBM WebSphere 6, BEA WebLogic 9, Jboss v 3.2.3

Minimum Hardware and Software Requirements - Sun Solaris	
Platform	SUN Fire V280 (Dual Processor)
Operating System	SUN Solaris 9 or higher
Memory	4Gb or higher
Disk Space (static)	500Mb for software install (BIC UHB)
Database (RDBMS)	Oracle 10g
Disk	Minimum of 20Gb (5Kb per message average)
J2EE Server	IBM WebSphere 6, BEA WebLogic 9

Minimum Hardware and Software Requirements - IBM AIX	
Platform	IBM p520 (two way 1.5 GHz) or higher
Operating System	AIX 5L V5.3
Memory	4Gb or higher
Disk Space (static)	300Mb for software install, 10Mb BIC, 50Mb UHB
Database (RDBMS)	Oracle 10g
Disk	Minimum of 20Gb (5Kb per message average)
J2EE Server	IBM WebSphere 6, BEA WebLogic 9

Minimum Client Requirements	
Platform	Pentium III 1Ghz or higher
Operating System	Windows 2000 Professional, Windows XP Professional
Browser	Internet Explorer 6.0 or higher
Memory	256Mb or higher

Functional Summary

Transaction Management

- RDBMS based transaction management (remote replication, dual commit etc)
- Paging on demand
- query management and data streaming to clients
- Message archiving and retrieval (warehousing)
- Store-and-forward processing
- Real-time payments summarisation
- Real-time duplicate message detection
- Secure API based integration for external applications

XML Library Services

- Full XML library for SWIFT messages
 - Including ISO 15022 messages
- Full semantic and syntactic validation of SWIFT messages
- API for external applications, e.g. API call FinValidate

Transformation Services

- API based transformation services, e.g. API calls
 - XML to FIN
 - FIN to XML

Routing & Printing Services

- Comprehensive message filtering and routing functionality
- GUI based administration of routing criteria
- Content based routing (any combination of message header or fields etc.)
- Message routing to Exit points (for processing by Message Partners)
- Message printing to departmental printers based on routing results

Message Search and Export

- Comprehensive search capability by any field or sub-field of a message
- Export messages to PDF
- Export message search lists to Microsoft Excel

BIC Directory Support

- BIC directory store in RDBMS database
- BIC load utility (using SWIFT monthly updates)
- Browser based BIC Finder application

Message Delivery Services

- Automated message delivery services to departmental mailboxes, based on user defined routing criteria.
- GUI based view and control of messages in departmental mailboxes
- Broadcasting Facility to send a message to all departments (e.g. MT999)
- Message forwarding to another department
- Complete & Print a message
- Full audit history of actions performed on the message

Host Communication Adapters

- IBM MQ Series
- IP Sockets
- Automated file input & output

Licence options

- MessageMaker
 - Browser based message entry & release
 - Comprehensive security and release controls
 - Message validation & repair
 - API for external application integration
 - Post to FIX
 - Post to DRAFT etc
- ClarityInfo
 - Payments reporting
 - Tariff accounting & billing
 - Traffic reports
 - ACK/NAK control, delivery notifications

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