







About AnaSys

AnaSys AG was founded 1989 in Switzerland and develops and operates software and services in the financial messaging sector. The company is 100% privately owned and independent from investors. The main software, the AnaSys MessageManager has been installed at many customer sites since the mid-90s including JPMorgan, Bankhaus Woelbern and Postfinance to name just a few. Now over 80 customers in Switzerland, Germany and worldwide use the products and services of AnaSys successfully in the financial market.

According to the business requirements of customers worldwide AnaSys develops and markets web based solutions to gain easy access to the different clearing systems - SWIFT, SIC, euroSIC, SECOM. Long-standing experience in the financial market underlies the comprehensive product line, which ranges from extensive message handling to certified SWIFT connectivity software and SWIFT outsourcing services.



SWIFT Service Bureau

Starting and operating your own connection to SWIFT and the Swiss clearing systems is complex and expensive. To enable banks, financial service providers and industry customers to get easy access to the different clearing systems the AnaSys Service Bureau provides comprehensive outsourcing services. AnaSys Service Bureau offers all connections to the networks and offers modern and compatible APIs to most banking core systems.

The services are easy to integrate into your existing environment, with the highest possible data security and integrity. The only thing you need on your side is a web browser and optionally, a simple connectivity application, named AnaSys hostlink, automating the communication between your bank application and AnaSys. Complete redundancy of hardware and networks guarantees high availability of the services.

Every transaction is processed in the data center of the Service Bureau in Switzerland in the name of the customer and his connected address.

The necessary infrastructure and the certified AnaSys MessageManager are delivered, operated and supported by AnaSys. They are operated from our server farms, and are made available to our customers over the Internet. All communication is encrypted without the necessity of separate hardware or dedicated lines.

All our financial messaging services are based on our own product, the AnaSys MessageManager. With the background knowledge and experience from developing and maintaining our own SWIFT interface, we are today able to offer our customers the best possible service and first- and second-level-support. Requirements from customers are taken into consideration and implemented as required. Using our own applications, AnaSys Service Bureau is extremely flexible and highly available.

Simple availability of complex services makes the AnaSys Service Bureau the best outsourcing solution on the market today.

Core Features

- Complete redundancy of hardware and networks
- No necessity of separate hardware or dedicated lines
- Based on our own developed and proven messaging gateway
- Best possible data security and integrity
- High availability of complex services 24h a day, 7 days a week.

SWIFT

**Connection
to SWIFT**

AnaSys Site



Server with
MessageManager

- Communication
- Presentation
- Database

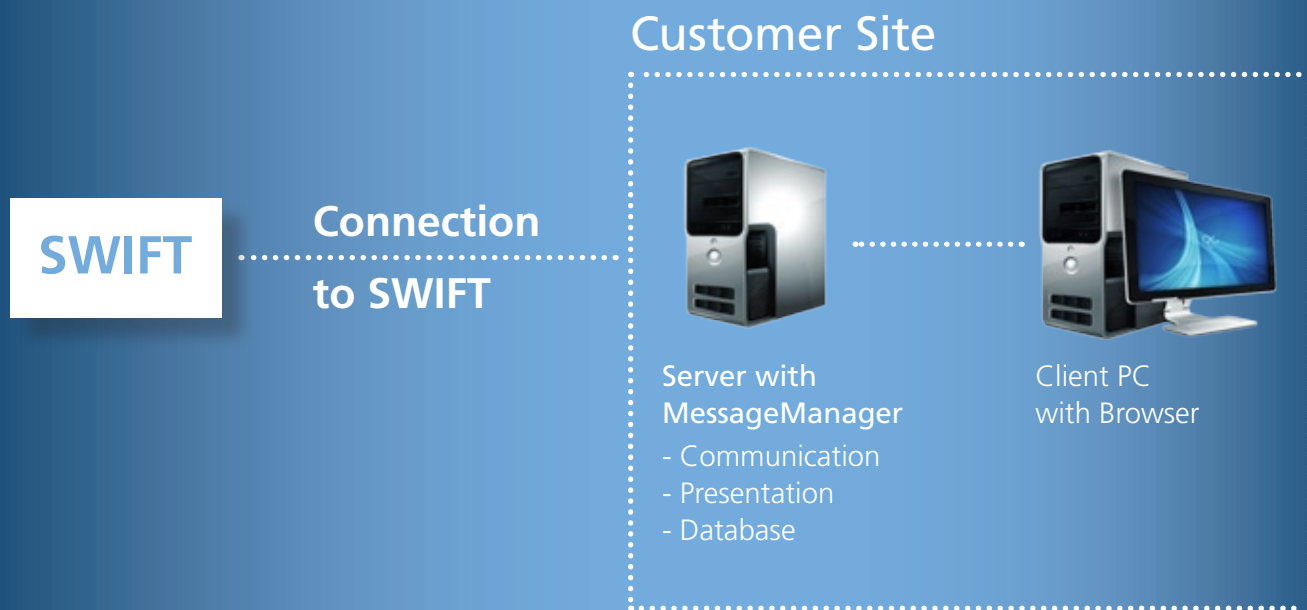
Internet

https encryption,
server-side SSL certificate
client-side SSL certificate
user-id with password

Customer Site



Client PC
with Browser



AnaSys MessageManager

The AnaSys MessageManager is our core SWIFT product.

It has been developed as a browser-based highly secure communication interface between banking core systems and SWIFT to send and receive messages to/from the SWIFT network. Due to the browser based look-and-feel installation, maintenance and training are now much easier and the users once again work in a modern, but familiar environment.

The MessageManager consists of 3 distinct components: the web server, the database and the communications server(s).

The MessageManager has been built on the concept that all financial messaging systems follow similar requirements: there is a need for manual message handling, automation, connectivity to the inside applications and the outside network, plus high security requirements.

A well thought-out structure has enabled us to integrate 4 different financial messaging systems (SWIFT, SIC, EuroSIC, SECOM) into one graphical user-interface (and more can be added, if required), providing not

only message handling, but also monitoring and administration of the 4 systems from one single point.

And yet the system is scalable, because it is highly configurable and back-end processes are distributable.

SEPA, TARGET2, MQSeries as well as Embargo Check are optional features which are supported to meet up-to-date financial market requirements.

Core Features

- Easy to use & easy to administer with our webbrowser user-interface
- Scalable Servers
- Multi-Application support
- Multi-Bank support
- Certified by SWIFT, Telekurs and SIS
- Full message validation (all message types, all levels of validation, i.e. data-types, syntax, dependencies)



AnaSys MessageIntegrator

The future-proof link between SWIFTNet formats and banking applications

Coexistence and handling of SWIFT MT / MX formatted messages is the major challenge of the next years for banks and their business applications. Two completely different SWIFTNet formats must be translated in a way that enables banking applications to continue to function seamlessly. AnaSys MessageIntegrator combines SWIFT communication software and its MT/MX formats with business applications into one single future-proof unit. This enables very fast syntax validation, message treatment, message creation, and message translation in all directions (FIN MT in Swift or XML notation, ISO 20022 MX, and legacy e.g. Cobol copybook).

The Converter

MessageIntegrator supplies a repository of all possible fields for MT messages and structure definitions of all MTs (all MTs, all categories, including MUGs, ISO15022, etc.). A lean API is wrapped around the schemas to assist in parsing, creating and checking the MTs to ensure correct FIN formatting and conditional rules. The translation of SWIFT FIN messages into practical AnaSys XML notation (and vice-versa) is the basic feature which enables all further processing.

The Validator

Extensive message validation is performed against the detailed AnaSys XML-schema and conditional rules are checked using predefined XSLTs. Validation functionality is also available as a callable webservice option.

The Mapper

After translating a native SWIFT message into an AnaSys XML message, simple XML-mapping can be used - and vice versa.

Mapping is achieved by using predefined and extensible XSLTs - this can be done in all directions:

- SWIFT FIN <-> AnaSys XML
- AnaSys XML <-> MX
- AnaSys XML <-> proprietary flat file
- MX <-> proprietary flat file

The Viewer

After translating a native SWIFT message into an AnaSys XML message (or using an MX message), supplied XSLTs or custom-made XSLTs can be used to display the message as HTML or PDF. The displayed messages are enhanced with text comments to explain field tags and code words, etc. This is especially useful for archiving.

The Editor

For manual message creation or repair of faulty messages, an editor can be generated on the fly, using the XML schema to generate entry fields (either AnaSys XML or MX), load fields into XML and apply validation.

- **Conversion** from SWIFT to XML and XML to SWIFT
- **Mapping** from MT to MX and MX to MT
- **Generation** of SWIFT messages
- **Validation** of SWIFT messages by syntax and conditional rules
- **Viewing** of MT and MX messages
- **Editing** of MT and MX messages
- **Automated update** of new standards
- **Simple** developer API
- **Available** in Java or .NET

Products and Services Overview

AnaSys MessageManager SWIFT FIN/ MT and MX	Easy to use and easy to administer browser-based user-interface to access the SWIFT network.
FileAct	Optional feature to send also files over the SWIFT network.
SEPA	Optional feature to partake in the new European network for cross-border payments.
TARGET2	Optional feature to partake in TARGET2, the joint gross clearing system of the ESCB.
Embargo Check	Use different methods to keep your messages checked against the most important embargo lists.
SIC, EuroSIC, SECOM	Capable of accessing the Swiss clearing systems.
AnaSys SWIFT Service Bureau	Provides the complete environment and redundant Finance-IP lines in its service bureau and gives its customers an easy, efficient and reliable access to the finance networks.
Disaster Recovery	Use the AnaSys Service Bureau as your backup site.
Validation Service	Simple and fast validation of SWIFT messages over the Internet with uncomplicated integration into your own projects.
AnaSys MessageIntegrator	Converting, Validating, Mapping, Editing and Viewing of SWIFT FIN/ MT and MX messages.

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