aquaglobal

Messaging

Messaging, Integration & Processing

Financial institutions globally need to remain innovative while complying with ever changing regulations and standards. As a result, more importance has been placed on upgrading IT infrastructure and banks are spending significant amounts of money keeping their back office systems up-to-date.

The transferring of financial messages from a range of services can be a huge burden on banks and automation is vital. Aquila can improve efficiency and compliance, whilst reducing risk, system complexity and operational costs.

Some of the benefits include:
- **Integration to a variety of electronic messaging systems**
- **Seamless integration into existing infrastructure**
- **Significantly reduced network complexity and operational costs**
- **Dedicated support providing updates to industry changes months before the go-live**
- **Easily create and validate new message formats**

Message Management

Our Message Management solution (MM) is an integrated framework for controlling all electronic messaging from a variety of services such as SWIFT, SEPA, local clearing, electronic banking or even custom formats. MM is a multi-entity, multi-currency solution offering 24x7 transaction processing capabilities. Messages are routed to and controlled by specific departments and reside within a work management layer.

The advantages of using the product suite include:

- **Reduced risk**
- **Reduced cost**
- **Reduced manual processes**
- **Improved compliance**
- **Improved time cycles**
- **Improved audit and control**
- **Improved accuracy**
- **Competitive Pricing**

MM integrates internal systems with third party applications and external messaging services in order to simplify your institutions IT architecture. MM's central hub enables your enterprise to prepare, augment and control the receipt and release of all message types for all services. Your institution can reduce its reliance on external service hardware to a single gateway device thereby reducing network complexity and operational costs.

The MM user desktop features a queuing and viewing environment that segregates messages by entity, department and message status. MM allows for automatic message routing of specific messages to the appropriate business area as well as business processing and printing. MM can process or generate MX messages directly or if required can translate messages between MT and MX formats. All messages whether manually or automatically created can be securely controlled as required including duplicate message and restricted country and currency detection.

This core module provides an exception based processing environment alerting users to any issues that need investigation. An automated message query and answer management function forms part of the framework related to SWIFT (MTn95, MTn96). MM archives messages for a desired length of time thereafter they are transferred to a purge database. With comprehensive search facilities, users have the ability to immediately locate and display any related messages within the system.

Message Standards

All message standards are maintained within MM. They have an effective date or a version number that allows changes in message structure (introduced by service standards updates) to be catered for without a need to upgrade software. Changes to industry standard messages are supported by Aqua Global with updates typically released at least four months prior to the go-live date. These can be applied in advance of the standards coming into effect and are adopted automatically.

SWIFTRef Support

The SWIFTRef directories from SWIFT offers a bank a single source of reference data enabling a flawless payments process and SWIFT message production. Loading this data into MM allows the validation of BICs, IBANs, national bank codes and SEPA routing information

SWIFT FIN
· All FIN message types
· RTGS - e.g. TARGET2, EBA2, CHAPS (UK)

Domestic Clearing System
Any domestic clearing formats and process can be configured. Supported formats include: ISO 20022 clearing systems (e.g. NPP in Australia) · JCC (Cyprus), TNS (Netherlands), SLIPS (Sri Lanka) · Elixir, Euro Elixir, SORBNET 2 (Poland), BEFTN (Bangladesh) · BACS (UK), Faster Payments (UK)

SWIFT ISO 20022 XML
· SEPA (Credits & Direct Debits)
· MX

Other Formats and Processes Include:
· Dr & Cr card processing
· Configurable Proprietary formats
· E-banking integration

Flexible Message Formats

Aquila has the ability to define any bespoke and industry standard message definitions such as SWIFT FIN and MX. Message definitions are version dated and stored in database files. To to make new standards available simply requires the new definitions to be added via a simple procedure. MM automatically switches to use the appropriate standards for both historic and current messages.

No-code Business Intelligence

This technology allows a fine degree of control over the processing and manipulation of transactions. They can be initiated from various system activities and are typically used to scan the content of messages, control processing, define message matching and field context rules. This along with the "Data Definitions" allow the translation and mapping of information between messages and interfaces. This configurable interface provides the ability to easily add new message formats and accommodate new business logic without the need for extensive re-engineering.

Workflow Engine

A powerful workflow engine is provided to control and monitor all processing. Workflows can be initiated automatically using message status changes, specific business events or database activity. Manual workflows are initiated and controlled via granting authority to run 'User Processes' that use the same workflow engine.

Workflow definitions control business logic that drives specific processing from its initiation to completion.

The definitions also contain the ability to:
- **Steer the processing depending upon the outcome of events**
- **Suspend the processing whilst waiting for an action from another process or a user initiated repair**
- **Halt the processing due to a new exception condition**

Provide internal processing for:

Reconciliations
- **Cash**
- **Securities Positions**
- **Securities Trades**

Matching
- **Treasury Confirmations**
- **Securities Settlement messages**

Incident Management

Aquila has in built incident reporting that will not only tracks events but also works towards improving issue resolution. The flexible incident management process immediately capture incident details and assigns it to the appropriate people. It's reporting dashboard allows for investigation and analysis, corrective action, and incident closure with full audit.

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Achieve Your Ultimate Banking Solution

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