

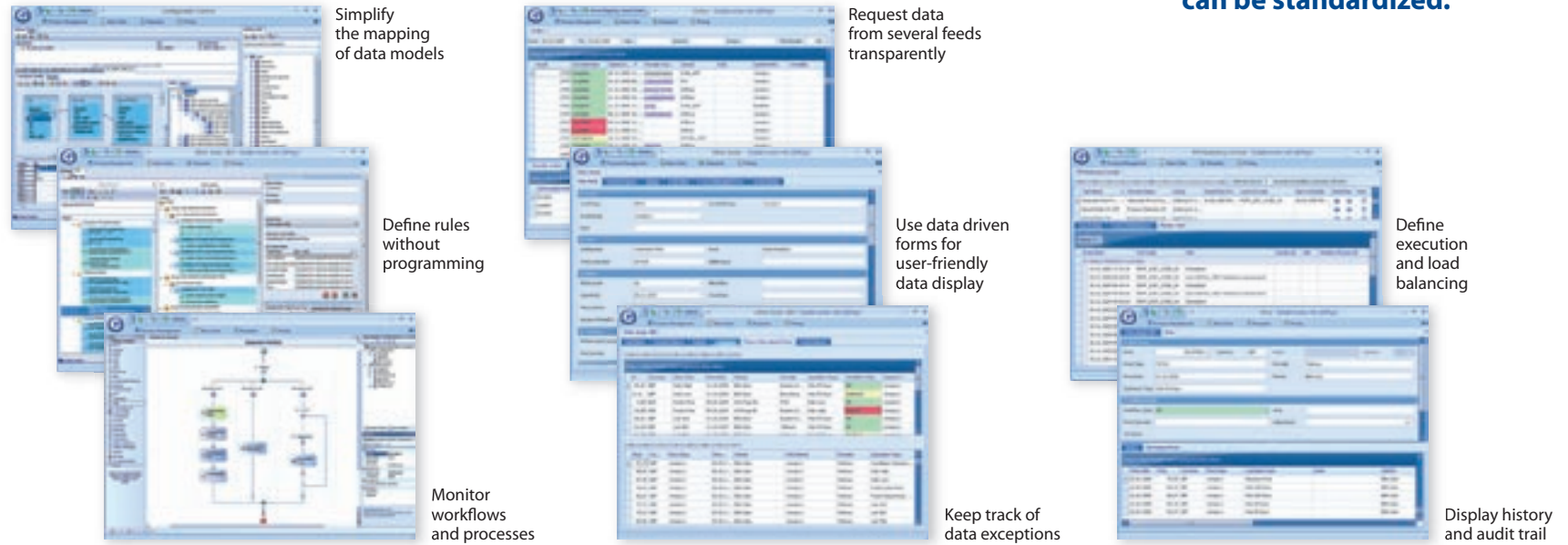
All-in-One Solution for Reference Data Management

With facilities for golden copy management, corporate actions processing and exception handling, GAIN Data Management provides many functionalities for the daily data management out-of-the-box. Its balanced blend of standardization and customization has helped banks and financial institutions worldwide to reduce their overall costs of data procurement and data administration.

The modular approach of GAIN Data Management enables the step-by-step creation of a fully fledged reference data management platform that supports the constantly growing needs in this area.

GAIN is a centralized platform for:

- Handling and managing data feeds
- Managing a central golden copy
- Controlling data quality

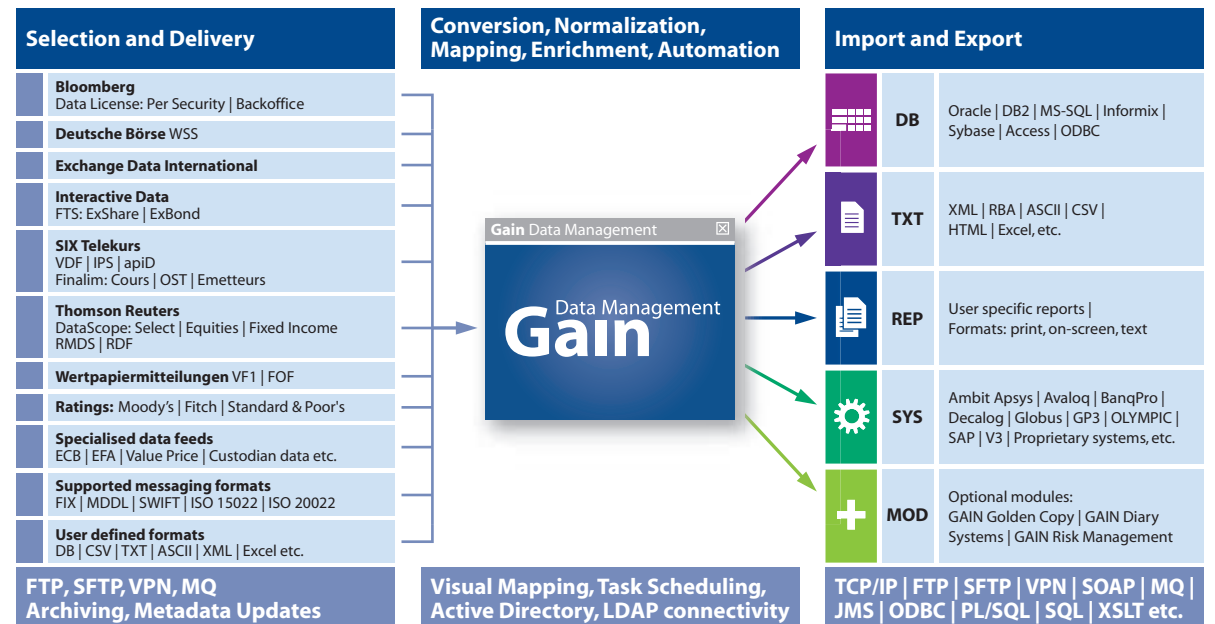


“On average about 90% of all reference data management processes can be standardized.”

Areas of Application

- **Selection Management:** Split requests to data vendors according to user defined criteria | Utilize several ID schemes to cross-reference data sources
- **Cost Accounting and Permissioning:** Keep track of data feed requests | Effectively manage data procurement costs
- **Batch and Intraday Requests:** Request data for opening new positions | Capture snapshots of real-time data
- **Data Reporting:** Use out-of-the-box and customized reports | Enrich reports with your internal data | Define your own layouts for data display | Full data history, archiving and audit trail
- **Data Modelling:** Use best practice data models and extend them according to your needs | Define relations and dependencies | Easily extend through customer fields | Model extensions based on business objects
- **Workflow Management:** Use rules to send data to the right users | Escalate anomalies | Use 4 eyes workflows | Define validation rules for user input | Associate workflows with data and system events
- **Corporate Actions Processing:** Manage a CA diary | Report corporate actions | Assign tasks to users | Define CA lifecycle and track deadlines
- **Cleansing and Reconciliation:** Validate, clean and reconcile data feeds | Manage exceptions automatically and manually | Display suspect lists and highlight changed data | Normalize and derive data by using rules
- **Data Scrubbing:** Define ranking criteria for multiple data sources | Improve the quality of your reference data | Implement automatic quality checks | Clients for on-screen display and editing
- **Straight Through Processing:** Extract, transform and load data into your target applications | Create interfaces without programming
- **Multi-entity Capability:** Define entity specific forms | Create new entities | Combine central data storage with decentral data maintenance
- **Golden Copy | Security Master File:** Manage a central database | Route reference data throughout your company | Archive all parameters in the golden copy | Build on best practice business logic

Functions of GAIN Data Management



Data Management Gain



Advanced Information Management

Compatibility



- Supports 15+ end-of-day and real-time data feeds
- State of the art SOA platform
- Open and scalable architecture
- Increases the transparency by normalizing delivery formats
- Can be integrated in existing IT environments
- Connects to industry standards

Usability



- Intuitive end user interface
- Context-sensitive display of metadata
- Users can define their own macros, forms, rules and reports
- Comprehensive filter and search functions
- Flexible undo / redo functionality
- Hyperlinking of connected data

Customization



- Easy customization and deployment
- Easy configuration of input validation, data highlighting and exception handling
- Standard development tools: Visual Studio | .NET framework (C#, J#, VB etc.)
- Clear cut user roles (Developer | Admin | End user, etc.)
- Easy versioning and migration of customer code

Management



- Configurable vendor source hierarchies
- Rule Engine for deriving missing data
- Definition of rules down to the field level
- Connectivity with version control systems
- Central maintenance of user settings
- Simplified rollout and update of business logic

Formats



- Supports all common databases and formats for import and export
- Dynamic import of legacy data
- Mapping of codes and formats
- Intuitive definition of user specific reports
- Graphical tools accelerate customization and reduce efforts for the integration of data feeds

Security



- Single sign on
- Links with LDAP / Active Directory
- Extensive error-logging and audit trail
- Flexible alarms on exceptions (e.g. by e-mail)
- Comprehensive user rights management
- Segregation of duty workflows (4 eyes / 6 eyes)

Time and Cost Savings



- Templates for reference data, corporate actions and pricing data processing
- High investment protection
- Fast ROI through stepwise and modular integration
- Speed-tuned data-feed loaders
- Modular pricing meets all demands
- Reduced maintenance efforts through maintained metadata of data feeds

Extras



- Workflow environment for creating client specific interfaces and functions
- Multilingual user interface and reports
- Citrix support
- Can use integrated or external task scheduler
- Maintained connectors to major core banking applications
- Optional: Calculation of risk measures based on GAIN Risk Management

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