



factsheet

Data Management in the World of Finance

Platform for Data Management, Migration, Integration, and Reconciliation

Increasing IT investments and efforts, expanding legal Requirements, and rising customer demands, describe the current situation and its challenges for the financial world. Consolidation and restructuring of both business and IT are daily occurrences, creating a peculiar challenge to data management. Increasing data complexity in the funds and securities business requires secure and efficient technological solutions. COMIT offers DMS as a standards-based, cost-effective and scalable platform for professional data management for all areas of the finance industry.

Challenges of Data Management

Investment management must be able to integrate diverse information coming from many different sources: Static and dynamic data from customers, financial instruments, transactions, corporate actions and accounting as well as information from different portfolio management systems, data providers and the global information network. Business departments have specific rules and defined policies and guidelines relating to the validity and security of data that have to be maintained. This predicates the need for a comprehensive reporting system to make internal and external data available in a clear manner. The diversity of the demands, and the necessity to provide new customer services, have pushed support-intensive and isolated legacy applications past their limits.

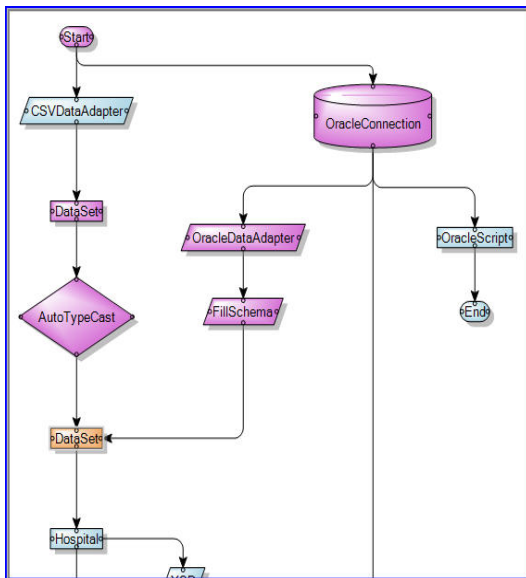
Innovative and Efficient Technology

Based on a graphical user interface and high flexibility, DMS provides an effective solution to data management issues. Every step is visually displayed; from the creation of data flows, to their execution, and the use of the visual debugger. Furthermore, the integrated Microsoft Office Excel, Adobe PDF, and XSL-FO components can be used to create reports from diverse data sources. Layouts can be configured directly in Excel-based templates. The generation of the reports is native, regardless of the Excel/MS-Office installation on the executing machine. With the many built-in adapters it is possible to integrate data from various sources such as Oracle, SQLServer, XML, Text files, SWIFT, Web Services, and many more.

Data Management Platform DMS

To achieve the goal of consolidated information and data, it is necessary to network isolated applications or successively replace them. Here DMS is ideal as a central platform for all data handling tasks, including interface management, migration, and reporting. DMS utilizes market standards such as XML and XSLT and can process all common file types and formats. The DMS product was developed by our in-house experts with banking and IT know-how, in close cooperation with our major customers, and using the best of our combined real-world experience.

View of a DMS Flow



Traditional applications for DMS

Data can be migrated from any legacy system into any new system. It is possible to manage data both in real-time or at timed intervals, and at the same time reduce the need for proprietary interfaces. Similarly, DMS facilitates reconciliation tasks, covering all prevalent scenarios. Even the depiction of inconsistencies and data errors occurs visually, thereby accelerating the entire process. Used in reporting applications the platform offers the opportunity for a business-wide reporting system. Data can be collected from all business areas, transformed, and displayed in an Excel-formatted report, for example (or Word, PDF, etc). A range of adapters, covering all common financial industry standards, allow DMS to interface with most financial systems. This interface flexibility enables the efficient creation of highly complex transformations. DMS also supports data feeds for external providers such as Bloomberg. It may also be used as a platform for other applications and as a rapid prototyping tool.

Standard Functions of DMS

- Data mapping and data reconciliation
- Data transfer from legacy systems
- Data extraction, compliance and quality control
- Integration of data feeds from external providers (e.g. Bloomberg, Reuters, Telekurs)
- Development of interfaces for front and back office systems
- XML generator for communication with business partners and reporting.
- Integration of external applications
- Generation of test data and test scenarios
- Extensible on demand

COMIT Data Management Products

- DMS Platform for Data Management
- Products with DMS Technology:
 - DMS Static Data Pool Provider
 - MAP Assurance of market conformity
 - NAVCON Net asset value control
 - CAM Corporate Action Manager
 - DMS Excel Reporting Suite

Developing with DMS

The graphical development interface allows your data transformations to be quickly and reliably developed and tested. For this reason DMS provides the capability to review the results of each individual transformation step, and to directly manipulate the data as required. DMS also offers iterative looping against data sets, common programming control structures, and user defined error messages. This makes complex data operations possible without deep programming expertise. The application executes the elements of a transformation according to how their sequencing in the design interface, using connectors to provide more granular control of execution order. The wide range of adaptors and other elements provides a layer of abstraction which shifts the focus of development from technical coding knowledge to the logic of the data flow. The combination of elements and connectors – called a DMS Flow – can be executed locally on the designers workstation, or sent to a central DMS Server for more scalable operation.

DMS Technical Data

- Developed with the .NET Framework
- Based on XML and XSLT
- Native Oracle Adapter with Direct Access to the TCP-Stack, Oracle Change Notification, Bulk-Processing via ArrayBinding
- SQLServer & DB2 support
- ODBC

- Native Excel Adaptor with template-based, efficient report generator
- Integrated XSL_FO report generator
- Native Files:
 - CSV, XML, DBase, Fixed, Excel, Word, PDF, Text-Parser
- S.W.I.F.T, FTP, FTPS, SCP, SFTP, HTTP, HTTPS, TFTP, TELNET, DICT, LDAP, LDAPS, eMail POP3, SMTP, Lotus Notes
- Transformations: XSLT 1.0 & 2.0, EXSLT, SQL, Regular Expressions, XML Diff, ZIP, GZIP, BZIP2, TAR, C#
- Queues: Oracle AQ, Websphere, MSMQ
- Integrated Enterprise Scheduler
- Logging via Log4net
- SOA, Web-Methods (WSDL)

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COMIT has served the finance industry for 30 years with professional IT services within the value-added chain: from strategic consulting through system implementation to the development and operation of the implemented IT solutions. Our areas of expertise are consulting & solutions, the implementation of core banking solutions – especially the Avaloq and Finnova systems – as well as core insurance solutions, application management, and IT infrastructure services. COMIT is an independent subsidiary of Swisscom IT Services. We employ 700 IT and business specialists at various locations in Switzerland, Luxembourg, Germany, Austria and Singapore.

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