

Content Software Repository



As a basis of our product lines, Content Software has developed the server product "Content Software Repository" (CSR) for the management of financial data as well as for the automatic generation and distribution of dynamic documents and publications. On the basis of CSR, Content Software offers its clients two powerful product lines as ready to use solutions. A solution to support the entire business process within the different research areas (e.g. equity, credit, economic research) and a second complementary solution to manage and automatically distribute documents, publications and financial data that are being generated in different business processes.

Furthermore, the CSR and its extensive data basis can be used to develop further high quality software solutions. It is the basis for the supply, management and use of financial data as well as for solutions for the management and provision of financial data, for the calculation of derived ratios, the electronic generation of publications and publication components and the supply of financial data and documents via the Intranet or Internet.

Your benefit

Software applications on the basis of the Content Software Repository are of use for

- the automation of internal business processes
- the improvement of data quality and data security
- real-time and automated supply of research results
- a better presentation of your company/company unit and services in the Intranet or Internet.

Data

The basis for a powerful software to support research business processes is a structured and extensible framework to flexibly store the relevant data in a database.

The Content Software Repository contains the necessary data and object structures for the administration and usage of the following financial data:

Company data

- master company data
- historic closing data (balance sheet, income statement etc.) for different periods (quarterly, semi-annually, annually), different accounting directives (e.g. IAS, US-GAAP, HGB (the German Commercial Code)) and different sources (internal data and external providers as for example Thomson Financial)
- estimate of closing data for different periods, accounting directives and sources (internal data and external sources such as IBES consensus estimates)
- data on company schedules
- data on the company's shareholder structure

Data on financial instruments

- master data on financial instruments
- mapping of historic and estimated company data to the financial instruments used (e.g. earnings per share, book value per share)

Data on sectors and peer groups

- data on any, multi-level sector and peer group structures
- mapping of historic and estimated company data to the sectors and peer groups

Market data/time series

- equity price data (e.g. open, high, low, close, volume)
- foreign exchange rate data
- yield curves
- derivative instrument data
- index data

Client data/Personal data

- master data on internal and external clients
- personal data on internal and external clients
- data on personal profiles

Documents

- storage of all research documents in any version and file format
- links to any data object (e.g. author, company, sector, region, etc.)
- links to personal key word lists

System control data

- thoroughly structured concept on rights and roles for the entire data stock
- data for the generation of any personal object group (e.g. peer groups, personnel groups, etc.)
- data for the definition of any personal attributes on personnel, companies and financial instruments
- balance sheet structure data for different accounting directives including the respective formulas to calculate dependent positions

Supported features

The Content Software Repository is the basis for balance sheet and financial analysis systems as well as for high quality software solutions based on financial data. The implementation of the following features is supported:

- administration of historic and estimated company data, derived ratios and market data
- pooling of information stored in the system via evaluation functions for the automatic generation of publications
- features for the automated and dynamic generation of publications on the basis of XML technology based on information contained in the system
- administration of publications and documents
- Internet representation of the information stored in the system
- functions for the automatic and event-driven mailing or distribution of financial data via e-mail, FTP or SMS to subscribers
- integration of external data sources such as Datastream, Reuters

Architecture

Data filed in the Content Software Repository (**CS entities**) are stored in a relational database. The **CS Mapping** layer maps the entities to the **CS Objects** layer (**object-relational mapping**). Thus, Content Software provides methods and data such as is needed for the creation of up-to-date object-oriented software applications. Founded there upon the business processes (business logic) can be implemented in reusable software modules. With this architecture it is possible to create business applications with any front-end technology (e.g. Java, HTML, JSP, C++, MS-Office).

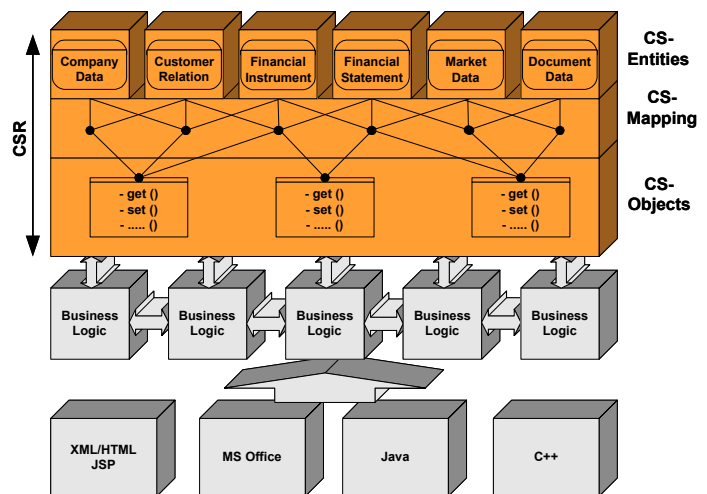


Abbildung 1: CSR-Architektur

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