

Whitepaper

Data Mapping — the Foundation of System Integration

Overview

Data mapping is the initial step in the data integration process in which two distinct data sets are mapped in order to convert data from a source into a format of the destination location. Data mapping software can reduce or eliminate the need for hand coding, resulting in fewer errors and higher quality, more reliable data.

Certain procedures are important when mapping data in order for the user to obtain the best results. Some sort of graphical mapping tool is usually employed that is able to automatically generate results and execute a transformation of the data. The user is able to literally draw a line or drag and drop from one field to another in order to identify the correct connection. This is known as manual data mapping.

A common use case scenario is when one company merges with another company. The data for both sets of operations, customers, etc. must be merged into the central database. Data mapping is used to track one set of information and cross-reference it with another set of data. This allows both companies to merge the data into one final database.

Centerprise Data Integrator for Complex Data Mapping with Ease

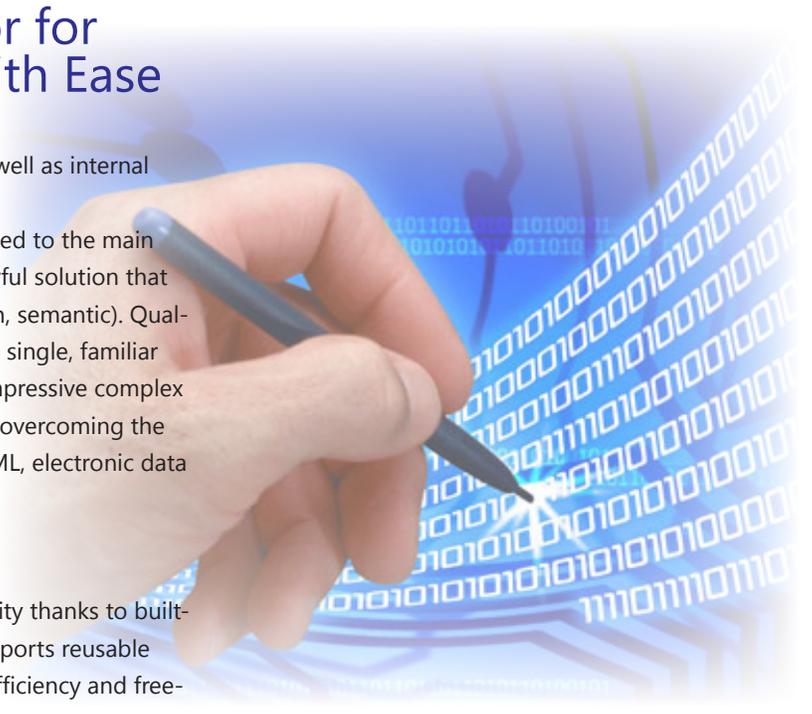
Data from business partners and other third parties, as well as internal departments, can arrive in a myriad of formats that needs to be mapped to the main database system. Centerprise Data Integrator is a powerful solution that supports all types of data mapping (manual, data-driven, semantic). Quality, profiling, and automation capabilities are built into a single, familiar drag-and-drop, code-free environment. Centerprise's impressive complex data mapping capabilities make it the best platform for overcoming the challenges of complex hierarchical structures such as XML, electronic data interchange (EDI), web services, and more.

Built-in Quality Capabilities

Centerprise ensures the highest, most reliable data quality thanks to built-in profiling, validation, and correction capabilities. It supports reusable maps and modular dataflow development, enhancing efficiency and freeing human resources for more important projects.

Data Mapping Essentials

- Real-world picture of intended use of data
- Thorough understanding of data source and destination
- Accurate and reliable data for business intelligence purposes
- A good graphical mapping interface
- Ability to address today's complex hierarchical data challenges



Powerful, Flexible, Cost-Effective

Centerprise is a powerful solution that supports a broad range of file formats and databases, expediting the process of partner integration and time to market for data mapping projects.



Visual Data Mapping

The code-free, visual environment ensures that anyone can create, debug, and manage complex dataflows and data mappings. Astera designed Centerprise with an intuitive and user-friendly interface, enabling users to transform advanced tasks into basic drag-and-drop or single-click commands, with no need to write code or maintain generated code for any type of transformation.

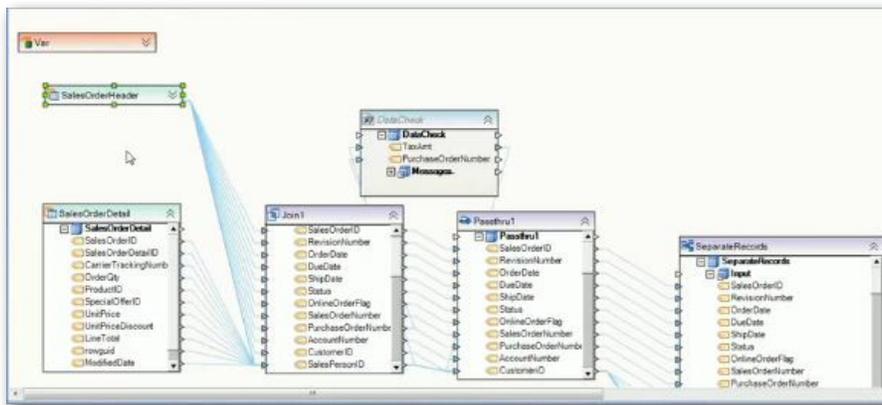
This improves productivity and efficiency when mapping, validating, and cleansing data. Customers and partners can be quickly integrated, boosting performance and profitability.

Key Features

- Built-in data quality capabilities
- Powerful, flexible, cost-effective
- Visual drag-and-drop data mapping interface
- Single-click transformation and output

Single Click Mapping and Output

Executing data transformations with the Centerprise single-click environment greatly simplifies the process of testing and perfecting complex mappings, saving time and increasing productivity.



Centerprise Solutions



Data Warehousing

High-performance data warehousing ETL features in a unified, intuitive environment.



CDC

Choose either a batch or real-time change data capture strategy for your particular requirements.



Data Mapping

Transforms advanced mapping, validating, and cleansing tasks into basic drag-and-drop or single-click commands.



ETL

Extract data from any source, transform it to suit your needs, and load it into your database or warehouse.



Data Conversion

Complex doesn't need to be complicated. Visual, code-free parsing, transforming, and loading of data from any source.



Data Integration

A single platform for complex, hierarchical integration the requires no coding.



Data Migration

Unique hierarchical data processing technologies automate and streamline data migration projects.



EDI

Full electronic data interchange functionality combined with Centerprise complex data mapping capabilities.



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