

Transformation Engine

At the core of Enterprise Enabler® (EE) is an engine that performs, in a single pass, data access from multiple disparate data sources, federation and alignment of the data across those sources, and virtualization or physical movement of the data. Business Rules, filtering, and validation are performed inline also, for a smooth end-to-end data flow or query, for all integration modes such as ETL (Extract-Transform-Load), EAI (Enterprise Application Integration), DV(Data Virtualization), or SOA (Service Oriented Architecture), for example. Recent hype around virtual data models, referred to as Data Virtualization, applies only to querying data, and often only handles one or two particular data source types. In Contrast, Enterprise Enabler leverages the “virtual data model” implicitly, across all modes.

The EE transformation engine is 100% metadata driven. It simply executes configuration metadata instructions, applying intelligence in areas such as performance and error detection/handling, with visibility to the state of the systems and security requirements.

CORE CAPABILITIES

- Combines and aligns data live from any number of different sources
- 100% metadata driven
- Orchestrates and resolves data access across multiple source systems, issuing orders to the AppComms™ and coordinating reads, writes, etc. as needed
- Handles format and unit of measure conversions automatically behind the scenes
- Pushes queries and filters to the endpoints when and where it is most effective
- Applies formulas and functions as needed for aligning filters and transforming data
- Applies Business rules to data
- Applies Data Validation rules
- Applies error processing rules
- Applies indicated security method
- Executes built in functions, formulas, equations
- Executes embedded .Net code snippets and external services at any stage of the integration
- Handles bulk moves of data
- Handles on-demand requests/queries for data
- Handles transactions with two phase commit