Enterprise Data Transformation using TCS MasterCraft™ TransformPlus

Data is the lifeline of this digital world. To future-proof business applications, transformation and migration of data is inevitable for enterprises. This business-critical exercise is complex and involves large volumes of data with multiple data structures in the source and target environments and organizational constraints that can impact the duration of migration.

Tata Consultancy Services (TCS) can aid in hassle-free data migration with its state-of-the-art technology products such as TCS MasterCraft™ TransformPlus. This enterprise transformation product automates the modernization of applications and data from a legacy to a modern, desired technology.

TCS MasterCraft™ TransformPlus - Data Transformation Edition helps to design and execute data transformation/migration initiatives, such as capturing metadata from both the source and target, mapping attributes for both, ensuring actual translation of the mappings and providing transformation rules for the target.

Overview

Seamless data migration is far more complex than the usual estimations during modernization, due to the lack of documentation of the data model, its functional implications and various constraints of the data/ data models. Adopting the best-fit implementation option to converge data from diverse sources, while maintaining business continuity only aggravates the complexities.

TCS MasterCraft™ TransformPlus - Data Transformation Edition is a one-stop solution, with workbenches for data extraction, migration and transformation of both legacy (mainframe databases) and relational databases.

The product supports data migration for various scenarios such as warehouse migration, legacy modernization, ERP to ERP data migration, and in-house databases to cloud migration. It also provides a framework for executing end-to-end data migration projects, right from the Discovery to the Implementation phase.

Key Features

TCS MasterCraft™ TransformPlus - Data Transformation Edition automates data migration by:

- **Identifying and Capturing Metadata:** Captures metadata either by uploading the metadata file or by connecting to the database to store it in a product repository for its relational structure. Connect Cloud DB feature enables users to capture metadata from DBs that are hosted on Cloud.

- **Mapping Design:** Enables users to define the relationship among the Source, Target and Intermediate tables, besides setting mapping/ transformation rules for target and intermediate fields, so that correct business logics are available for data migration.

- **Entity Based Migration:** Migration of an entity (Group of related Source Tables) from source to target environment to maintain data atomicity and integrity. Entire Data will be migrated from source to target based on user defined group or no data will be migrated in case of errors at any point.

- **Migration Build:** Generates COBOL or Java migration codes, enabling users to execute data migration for specific target system types. This feature allows users to maintain the data dependencies through sequencing of tables/mappings and perform user defined data migration. Product generates java code based on sequence of mappings defined in Java code generation UI and code will be executed based on sequence defined.

- **Reporting:** Provides details of the rules applied on the source, intermediate and target fields of the table for mapping design.

- **User Management:** Manages the privileges and core settings of the product for users and applications.
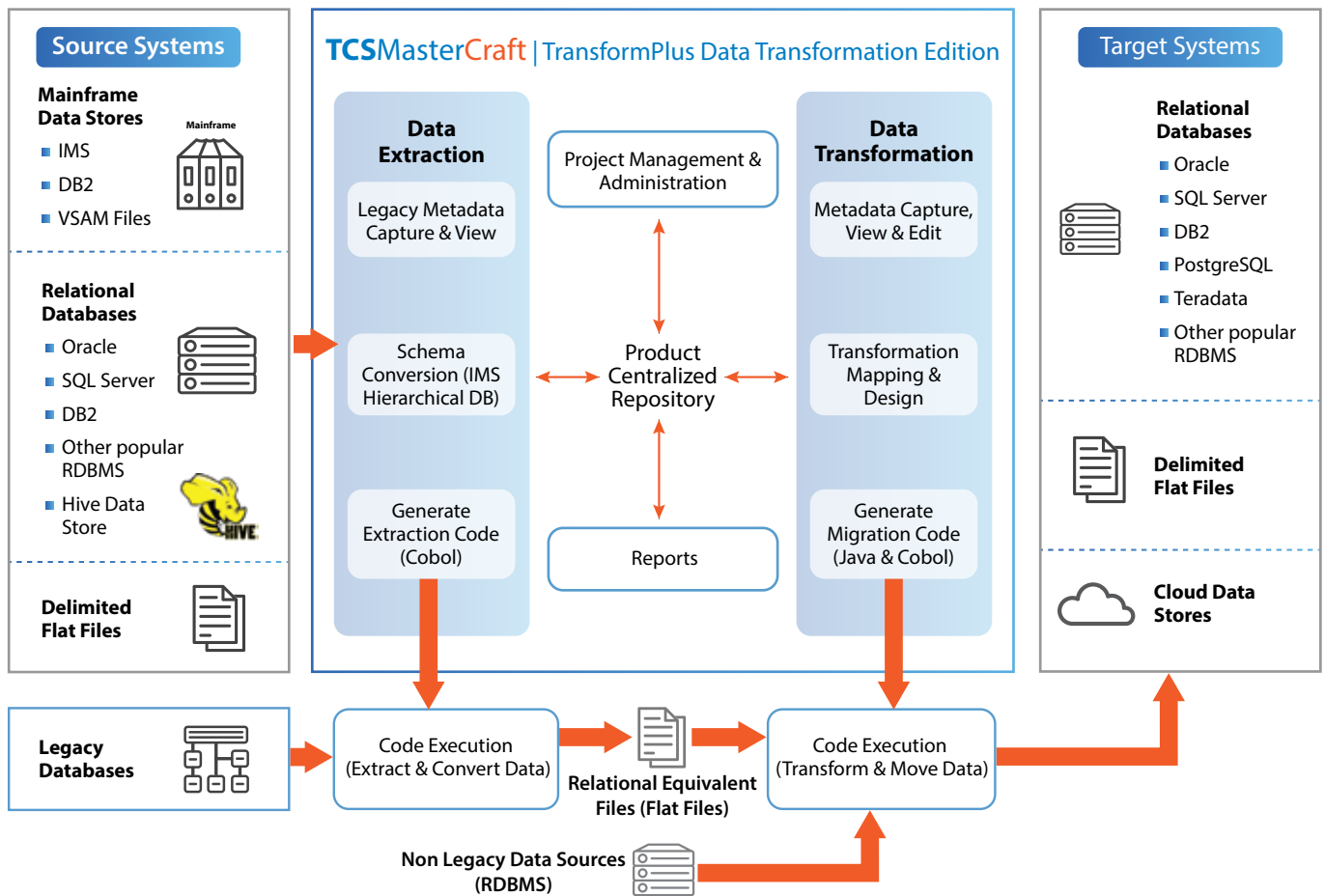
Figure: Data Transformation with TCS MasterCraft™ TransformPlus

Benefits

TCS MasterCraft™ TransformPlus - Data Transformation Edition helps in all the processes of Data Migration, including:

- **Automated Conversion:** Automated metadata is captured and converted from hierarchical to relational DB.

- **Automated Extraction:** Automated data is extracted from legacy sources to equivalent relational structures.

- **Accelerated Migration:** Automated migration of data is carried out from legacy to non-relational DBs.

- **Portability:** Portable code is generated for COBOL and Java technology for enabling the data migration.

The TCS Advantage

Partner with TCS to leverage the following key differentiators:

- **A robust network:** TCS provides a wide range of integrated modules, spanning global cloud leaders such as Amazon, to offer enhanced flexibility for migration.

- **TCS experience:** TCS embodies decades of experience in successful and mature data migration methodology.

- **R&D credentials:** TCS enables access to its Innovation labs, which have years of dedicated experience in application maintenance, upgradation and consolidation scenarios.

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