

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 like TCS MasterCraft™ TransformPlus. This enterprise transformation product automates the modernization of applications and data from a legacy to a modern, desired technology. TransformPlus 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 Migration Edition is a one-stop solution, with workbenches for data extraction, migration and transformation of both legacy (mainframe databases) and relational databases.

TransformPlus supports data migration for various scenarios like 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 automates the data migration processes by:

- **Capturing and Refreshing Metadata** - Captures metadata, either by uploading the metadata file or by connecting to the database, for storing 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. The product supports unstructured data types such as JSON data and Binary JSON data.
- **Mapping Design** – Enables users to define the relationship among the source, target and intermediate tables, besides setting mapping or transformation rules for target and intermediate fields. Eliminates manual efforts of mapping attributes using Intelligent auto-linking of source and target/intermediary attributes.

- **Intelligent Edit of Mapping** - Supports intelligent editing of mapping designs in case of metadata used in refreshed mappings. Appropriate alerts are displayed to notify users that metadata for mapping has changed, and users can edit and select the refreshed metadata within mapping according to their choice.
- **Building** – Generates COBOL or Java migration codes, enabling users to execute data migration for specific target system types.
- **Reporting** – Provides details of the rules applied on the source, intermediate and target fields of the table for mapping design.
- **Transformation Support** - Supports conversion of relation data into equivalent JSON format and stores into NoSQL DB or files.

Benefits

TCS MasterCraft™ TransformPlus 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.

TCS advantages

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, Azure 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.

Contact

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