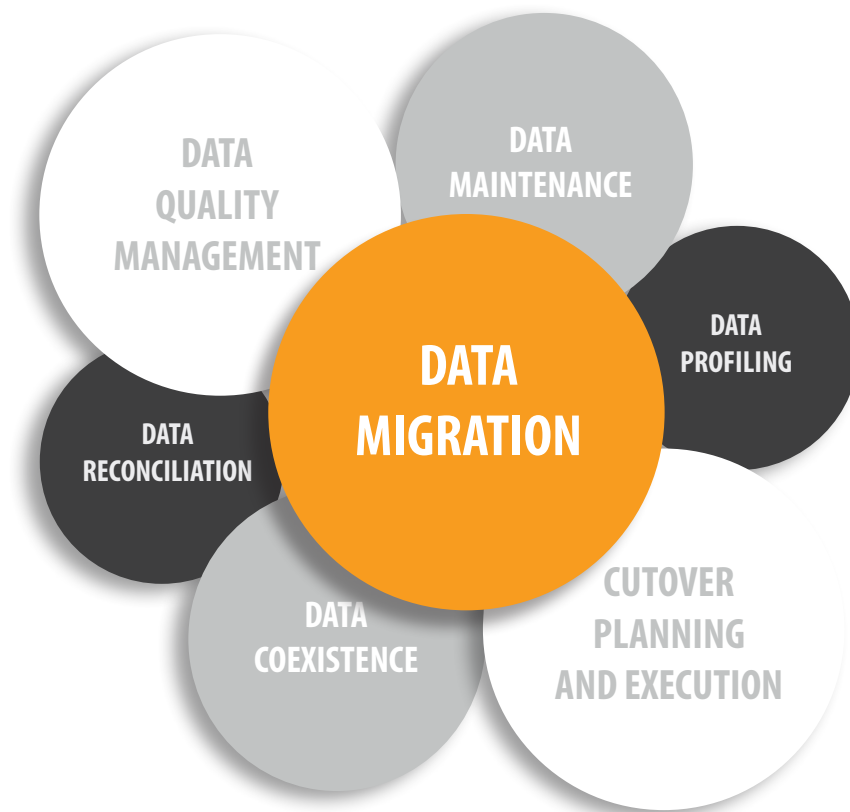


# appMIGRATE<sup>TM</sup>

Data Migration Platform



## ? Problem

Data migration done in the traditional way, writing your own conversion programs, is a painful and expensive proposition. Conversion programs don't get ready before approximately six months into the project, pushing the exercise of examining data for correctness and standardization too close to the Go-Live date. Data quality issues do not get the needed attention.



*"Data Conversion was a big part of enabling our successful milestone, 'System Integration Testing'. Chain-Sys overcame many challenges, shortened the conversion cycle and completed conversions on time."*

**-CIO of a major iconic Energy Company**

*"Never before we had all data converted before the first test cycle. With this tool and the methodology, we are free to concentrate on other business and process issues."*

**-ERP Practice head of a major Systems Integrator**

## ? Solution

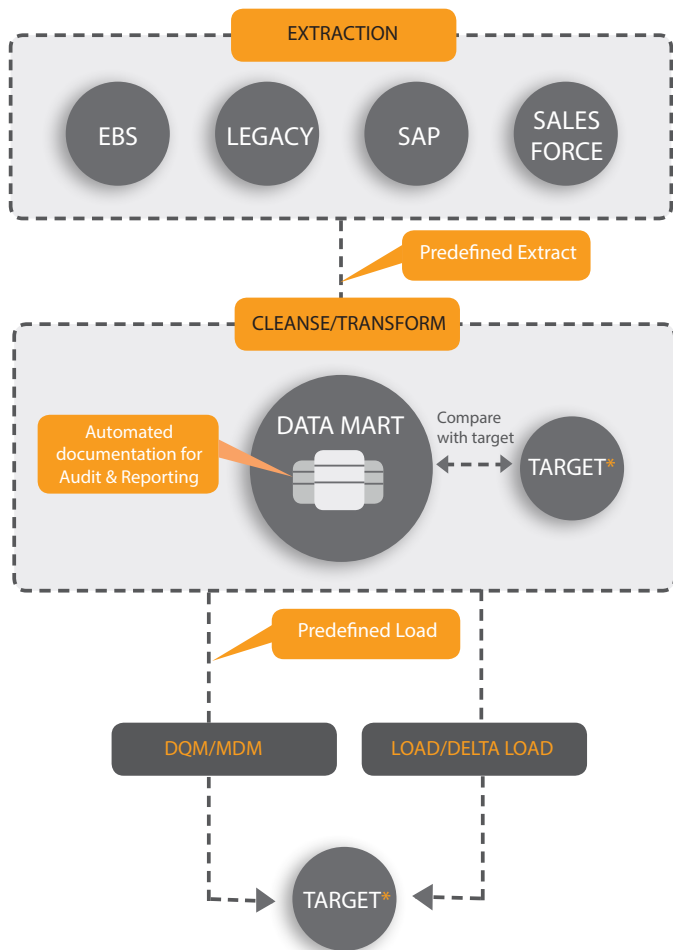
Field proven appMIGRATE provides instant relief for data migration challenges. Being a product with ready to use configurable templates with no need for programming, appMIGRATE allows Business Users to see production data in the target instance as early as the first test cycle. It gives them ample time to correct, clean, consolidate, standardize and harmonize their data. The tool plays well with agile methodology. Data risks are identified early in the project and solutions made ready and applied.

The tool reduces production cutover time and the overall project timeline. appMIGRATE product and processes are battle tested. It helped several fortune 1000 companies including GE, Cummins, Caterpillar, Iron Mountain, Canon, CH2MHill, Lifeway Christian Resources and others to migrate their complex data in a scalable and repeatable manner.

The appMIGRATE Solution with 2000+ ready-made templates provides accelerated data conversion and ensures data quality. The appMIGRATE Solution has been recognized by the industry and is being utilized by Fortune 1000 companies for meeting their challenging data conversion requirements.

appMIGRATE tool provides end to end data migration processes right from Requirements Definition to successful Cutover. All these processes and activities come built inside the tool, allowing data migration SDLC processes to become repeatable, scalable and predictable.

## Accelerated ETL:



\* Oracle Cloud Applications or Oracle E-Business Suite or SAP ECC 6.0 or SAP S/4HANA or Other Enterprise Systems

**EXTRACTION**

- Ready-made extraction templates will provide earlier view of the source data in the Data Mart.
- Predefined extraction templates available for Master and Transactional data (both open and historical)
- All data fields are extracted from Legacy Systems
- Raw data is profiled and map reduced using Hadoop

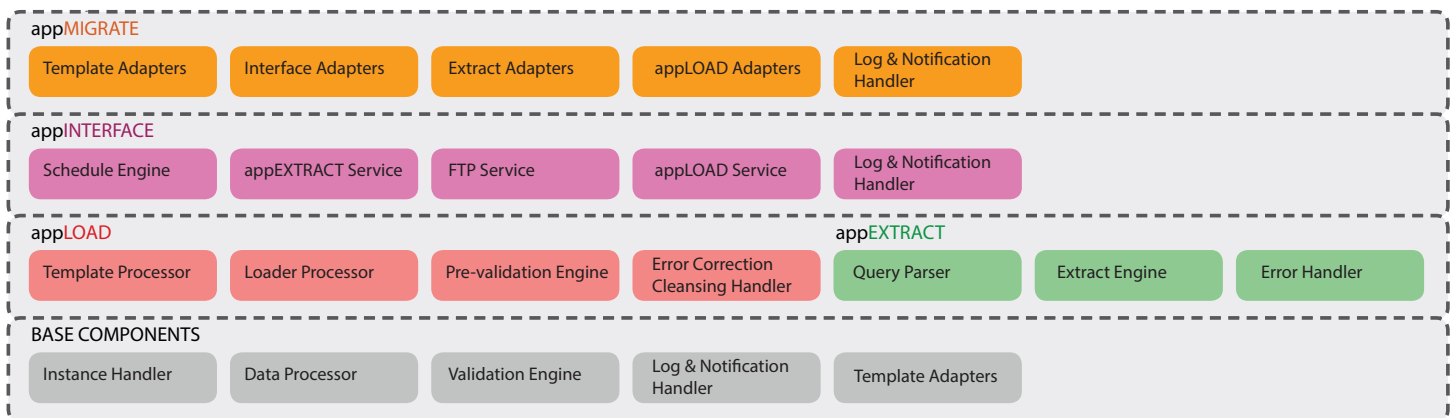
**CLEANSE/TRANSFORM**

- Ready-made templates accelerate target instance mapping
  - Includes standard fields
  - Includes user defined fields
- Data is pre-validated prior to loading into target environment
- Automated sequencing of Data migration objects
- Preserves the data linkages for all dependent data elements
- Raw data is profiled and map reduced using Hadoop
- Repeatable and flexible Change Data Capture(CDC) Cutover

**HISTORICAL CONSIDERATIONS**

- Post processing builds reference to historical source
- Pre-built historical sequencing of master/transaction data
- Front-end screen to build historical mapping
- Integrity for historical drill-down to the transaction level
- Dimensional reconciliation engine for source and target

## appMIGRATE Architecture:



# Data Profiling



*“appMIGRATE performs data profiling on the source data to reduce the data volume and explore data quality issues. Data profiling is done with the extracted data against the target Applications Reference data and Setup data dependencies with predefined rules. Business process verification is another highlight. Data profiling engine is also used for on-going ERP wellness activities”*

Profiling source data improves data quality and reduces data quantity. Profiling the extracted data against the target reference data and business logic is built inside the appMIGRATE tool. Each Template comes packed with hundreds of pre-validations.

appMIGRATE helps investigate if existing data can be used for other purposes.

*“For a large document management company we reduced Item Master data size to about 5% of the original size.”*

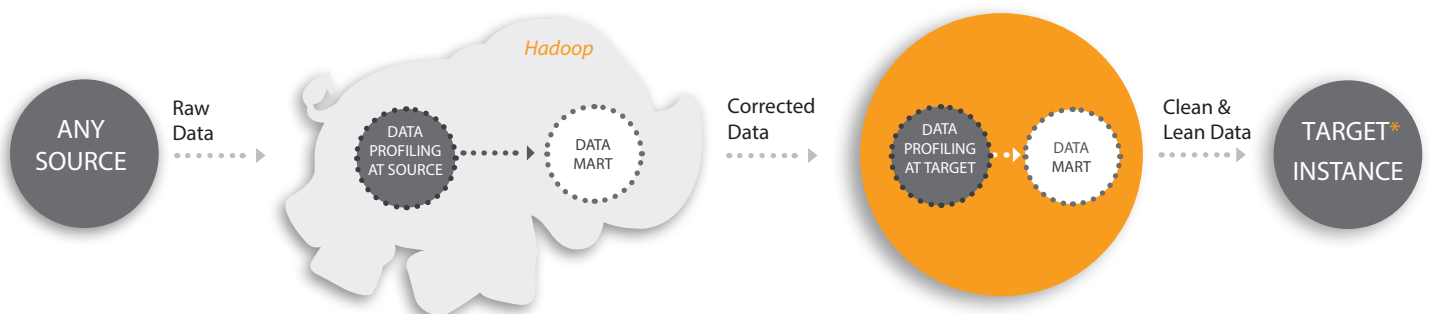
Improves the ability to search the data by tagging it with keywords, descriptions or assigning categories.

Allows assessment of risk involved in integrating data for new applications, including the challenges of joins.

Helps understanding data challenges early in any data intensive project, so that late project surprises are avoided. Finding data problems late in the project can lead to delays and cost overruns.

Provides enterprise view of all data, for uses such as Master Data Management where key data is needed, or Data Governance for improving data quality.

Data Profiling approach :



\* Oracle Cloud Applications or Oracle E-Business Suite or SAP ECC 6.0 or SAP S/4HANA or Other Enterprise Systems

# Data Quality Management

*"DQM is a prime mover of any successful Data Migration project. It is a mandatory process and cannot be wished away."*

appMIGRATE provides extensive features and functions for Data Quality needs of Data Migration projects. The major features offered include:

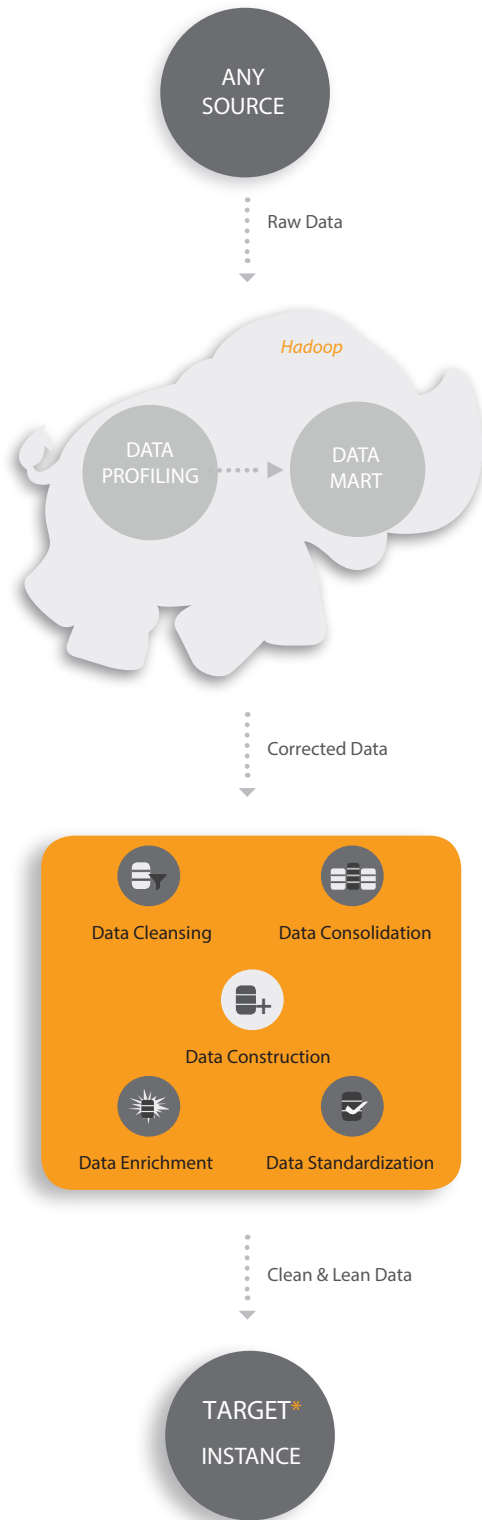
- ✔ Data De-Duplication
- ✔ Data Cleansing
- ✔ Data Harmonization
- ✔ Data Consolidation
- ✔ Data Enrichment
- ✔ Data Standardization

appMIGRATE Data Migration process specifies Data Quality Management activities as "Mandatory" for all Data Migration projects. The DQM activity is generally carried out in the early phase of the project and it is a precursor to Data Migration activities. The appMIGRATE tool has powerful features to collect high volume of master data into its data mart for performing DQM activities. It uses consolidation algorithms along with Hadoop technology to identify the matches and no matches for the collected data. Provides a good user experience in classifying the matches into "false positives" or "false negatives". When the user merges the matching records, individual values can be copied from one to another. Using "Merge" activity, data gets harmonized using data cross references.

## Data Coexistence

Enterprises do not adopt simultaneous "big bang" Go Live into a single ERP system from all their geographies and divisions. In a phased approach, existing data interfaces cannot be interrupted for the legacy systems, when feeder systems have already been migrated over. appMIGRATE Module fits the bill for quick interface building between systems, both batch and real time.

During ERP Implementations, appMIGRATE is used for building the integrations which are needed for the coexistence of the old and the new applications. The appMIGRATE Extract and Load Adapters are reused for the coexistence tasks.



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# Data Reconciliation

*"Chain-Sys Reconciliation engine is used for validation of the Data Migration results. Also it is used for on-going ERP wellness activities"*

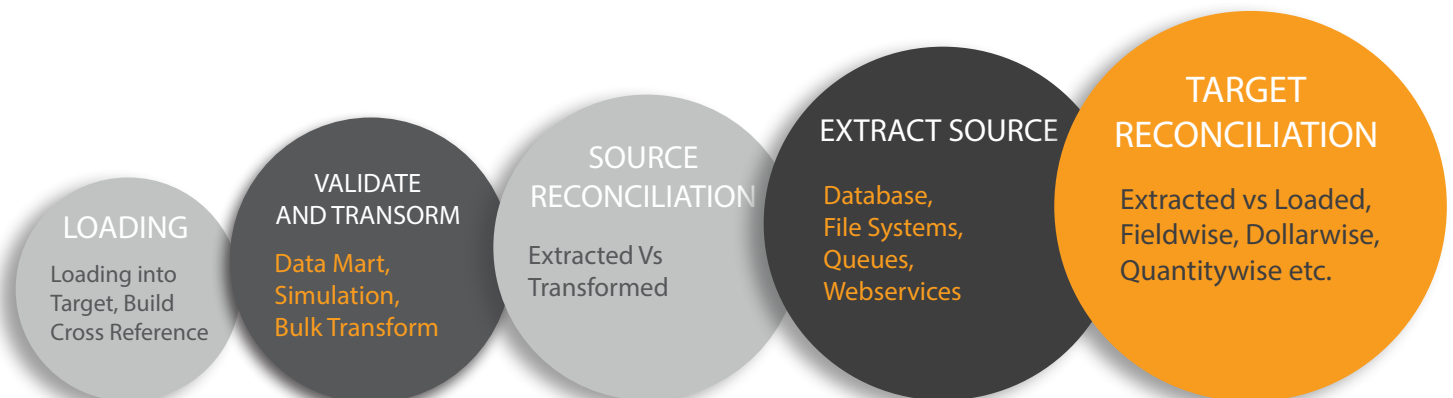
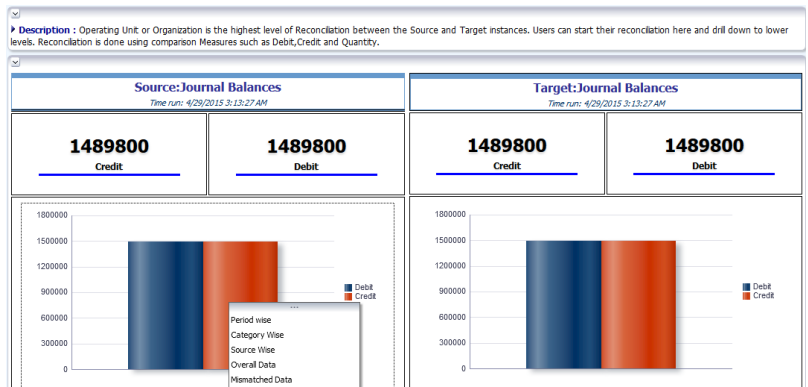


Technical and Functional reconciliation is a mandatory step in Chain-Sys Data migration process. It ensures smooth transition to the target application. It also helps with the ongoing Data Maintenance efforts. appMIGRATE consistently delivers 99.999999% data reconciliation success in every project.

appMIGRATE tool provides out of the box data reconciliation processes and functions for both Technical and Functional reconciliations. The tool provides complete drill down capable dashboards for identifying the discrepancy between source and target systems. During cutover, appMIGRATE helps you with the reconciliation needs between Sub Ledger and Main Ledger (Finance and Cost). Within Sub Ledger accounting transactions and activities modules are tracked and reported using this engine.

*"The reconciliation on USD 500 million came to USD 7. The CFO pulled out USD 7 from his pocket and presented it to the CEO during go live. The technical team worked on it later and brought reconciliation to zero."*

*General Ledger Journals Reconciliation Results with Drill Down features (Periodwise, Journal Categorywise, Journal Sourcewise, View overall data, View Mismatch data):*



# Cutover Planning

*“appMIGRATE Cutover has always been smooth – with no data issues after Go Live.”*

*“appMIGRATE achieved a record 3 hours cutover time at a very Transaction Intensive major Travel site.”*

appMIGRATE provides features and functions for a smooth cutover. Smooth cutover is achieved by a combination of features including: Change Data Capture, Data Scalability functions and Configuration Management.

## Change Data Capture

The appMIGRATE product offers powerful Change Data Capture functionality. Using this feature, the source application tables redo log files are monitored at a scheduled time frequency and the changes are moved into the Change Data Capture tables. From the Change Data Capture tables, the data is extracted, transformed and loaded into Target Application. appMIGRATE offers Templates for “Update” of the data entities along with “Create” option, which will be used for updating the target Application. Templates for timestamp based CDC are available.

*“appMIGRATE successfully processed over 520 Million records of installed base for a major appliances brand in USA”*

## Data Scalability Functions

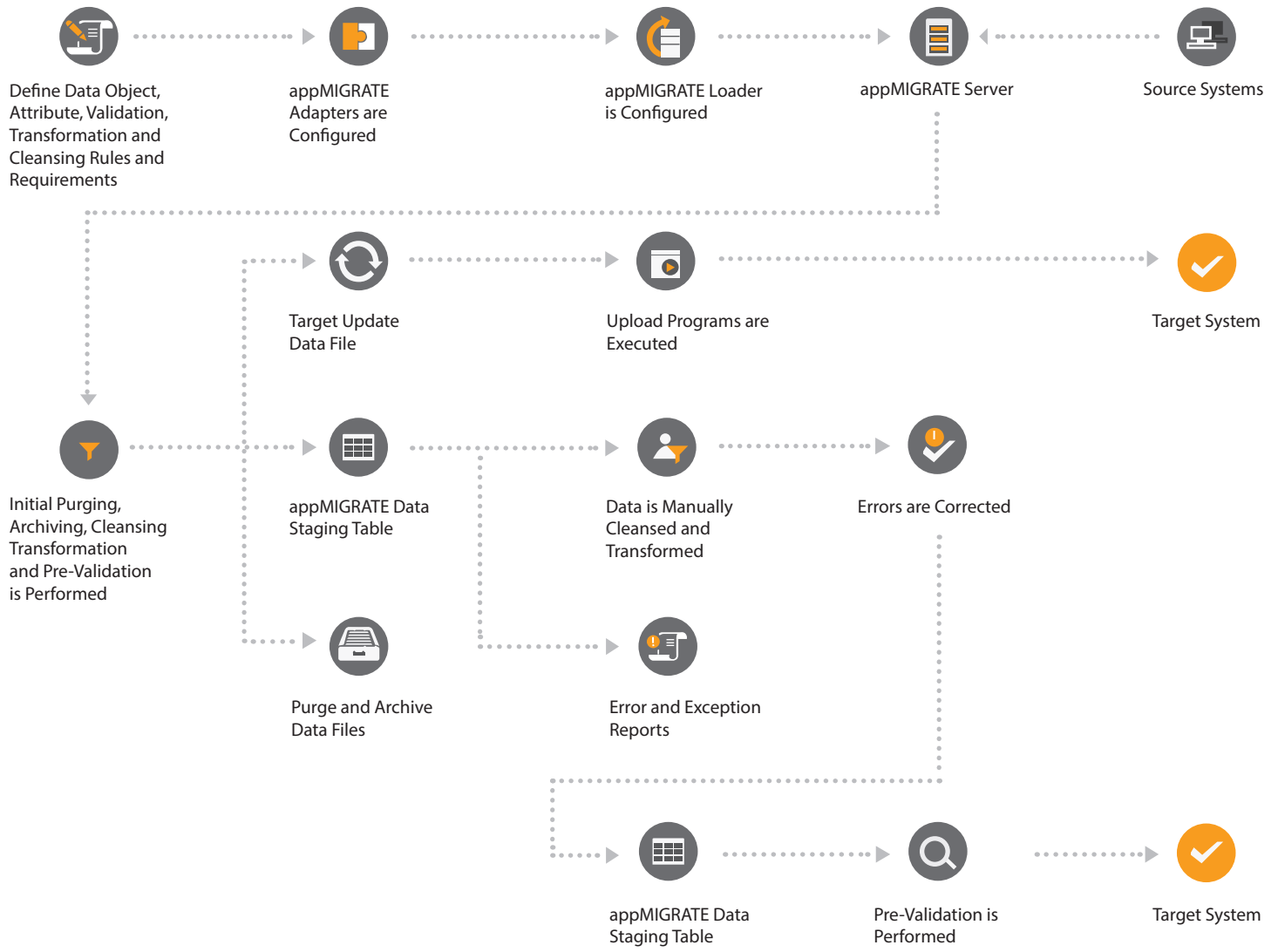
For Data Migration situations of large data volumes, complex validations and intricate transformations, appMIGRATE offers the following features:

### FEATURE

### DETAILS

CLUSTER	Clustering multiple application servers to load balance
MULTIPLE JVM	Create multiple JVMs under the application server to process more threads
PARALLEL PROCESSING	Process Extractions in parallel and Process Loads in parallel
MULTIPLE THREADS	Execute multiple threads simultaneous based on number of cores and processors
SPLIT PROCESSING	Split the loads into smaller batches of data and process in parallel
MERGE OPTION	Reduce the IO against the database drastically

appMIGRATE process diagram:



# CHAIN•SYS



www.chainsys.com  
1-855-appLOAD Option 1

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