

# DATATURN: AUTOMATED DATA CONVERSION

FACT SHEET



## AT A GLANCE

DataTurn is a powerful tool that provides automated transformation of data structures and conversion of data from legacy data stores to relational databases – running either in the Cloud or on premise. It helps liberating valuable business systems from their dependency on non-strategic, legacy and often costly technologies.

## PRODUCT HIGHLIGHTS

- > Supports a variety of source and target data stores
- > Easy to use graphical interface
- > Command line interface for automation and scripting of bulk processes
- > Customization via a template based approach
- > Mass configuration via export/import
- > Mainframe EBCDIC to open platform ASCII solution

## SOURCE & TARGET DATA STORES

### Source data stores

DataTurn supports the migration of the following data stores. For each data storage technology, all key functionalities are mapped to equivalents in the target RDBMS:

Source	Main Functionalities
File (ISAM, VSAM, SAM, ...)	Records / Fields, Group/REDEFINES Fields, OCCURS Fields, Primary Keys, Alternate Keys
Network DB (IDMS, UDS,...)	Schemas, Subschemas, Areas, Records/Fields, Group/REDEFINES Fields, OCCURS Fields, DBKEYS, Calc Keys, Sort Keys, All Set Types (including System and Multimember sets and preserving set order)
Adabas	PE fields, MU fields, (super/hyper) descriptors...
IMS	Databases, Segments, Fields, (Concatenated) Keys, Parent/Child Relations

DataTurn is also used for migrating other data stores, but only in the context of a full Astadia migration project.

### Target RDBMS

DataTurn supports all market-leading RDBMS vendors (Oracle, SQL Server, DB2) giving customers the flexibility to choose the product most suited to their needs and standards. Support for popular open-source and cloud-managed RDBMS systems like MySQL and PostgreSQL has been added.

As an alternative for RDBMS targets, DataTurn supports migration of ISAM/VSAM files to files with compliant formats on open platforms, including EBCDIC to ASCII encoding translation.

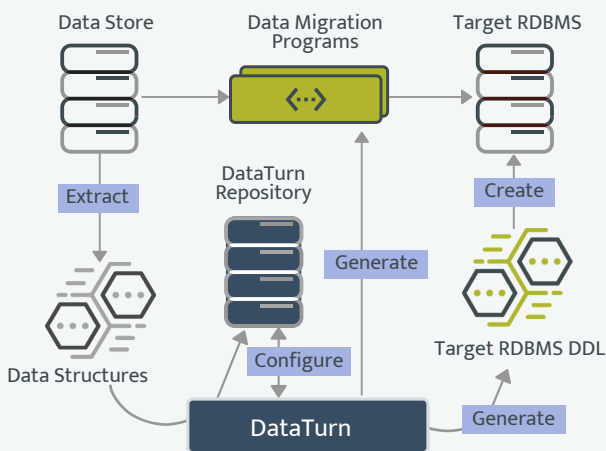
## EASY TO USE

DataTurn visualizes the original source descriptions and resulting target descriptions. Configuration changes can be checked immediately.

## HOW IT WORKS

The DataTurn migration process always consists of following five steps, irrespective of the source and target technologies:

- 1 Upload the structural data definitions into the DataTurn Repository
- 2 Configure the migration mappings
- 3 Generate data migration programs and target RDBMS scripts
- 4 Setup the target RDBMS
- 5 Run the data migration programs



## DATATURN AND ADD-ON SERVICES

As a standalone product, DataTurn enables you to migrate data to a modern RDBMS.

On top of that and extensively using DataTurn itself, Astadia can provide full migration project services, including:

- Generation of data access layers
- Generation of extra trigger logic
- Conversion of data access statements in code

## REFERENCES

Astadia helped more than 200 organizations move off of their mainframes, having completed numerous data conversion projects for IDMS, UDS, Adabas, ISAM, VSAM, LEASY, DPT data sources to Oracle, DB2, SQL Server, and file targets.

Each of these projects has been delivered on time, within budget and to the complete satisfaction of the customer. Visit our website for case studies and more in-depth information.

## THREE STRONG PROMISES

### All Functionality is Mapped

Not only the application data itself is being dealt with, but all aspects on which application code can depend, such as implicit key fields, implicit set order etc., are made available in the target RDBMS.

### Data Integrity is Preserved

Two independent mechanisms are provided to verify data integrity:

- The data migration programs generate full statistics on the original (unloaded) and target (loaded) data stores.
- Independent data verification programs can get generated too, to dump the data from both the source and target data stores in a format that allows easy comparison.

### Data Availability is Ensured

The latest IT development tools on the market are optimized for quick data access and rapid development on databases. Especially the development of Java, .NET or other Internet applications will be speeded with the availability of native APIs and programming tools for data access.

Because the migration to an RDBMS will provide your application with a clear separation of its data-layer, it will allow your organization to implement a modern client/server or three-tier networked applications architecture in one easy process.

Astadia is the market leading mainframe modernization consulting and systems integration boutique. A worldwide IT consulting firm, we specialize in moving IBM and Unisys mainframe applications and databases to distributed and cloud platforms.

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