

# Manage IBM i Data Transformation & Deploy Database Changes in Minutes

## Moving to Modern, Efficient Database Architecture Becomes Easier to Plan and Achieve

Critical applications often need to be available 24/7, so it is difficult to tackle projects like application and database modernization without disrupting systems that support essential business operations.

MDRapid works together with MDTransform and MDChange to substantially reduce business application downtime and risk as you deploy IBM i database changes across your enterprise. MDChange can generate source for your SQL or DB2 files, making it easy to transition from DDS to DDL or manage changes to your SQL tables.

### Remove Obstacles for Database Updates

MDRapid employs high availability technology in conjunction with change management techniques to convert IBM i database files with minimal interruption. This strategy allows your business applications to continue to access databases as usual while database management is taking place. Since MDRapid deploys database changes quickly, even for multi-million and multi-billion record files that have an extensive amount of update activity, it is easy to integrate MDRapid into day-to-day operations.

### Eliminate Interruptions to Critical Apps

MDRapid uses MDTransform to convert and migrate data to new file formats while the application is in use. Any changes made to the current version of the files are journaled and synced with the new version held in a staging library. MDRapid allows you to re-org critical files, change indexes, and even transition a large, single-member table into a partitioned table without requiring a long downtime window. Thanks to a low-performance footprint, users are not impacted during this process.

### Avoid Post-Install Complications

MDRapid drastically reduces application downtime. MDTransform eliminates the need for conversion programs or costly post-install updates. Since all data is mapped from the old version of the tables to the new version in a staging library prior to installation, you have ample opportunity to review and correct issues with the data mapping during normal working hours. This also removes data handling surprises during the installation itself, which is simply moving the current object into an archive library and moving the new objects in.

**MDRapid**  
A real-life case study

**A client needed to increase their primary key field.**

- 2,000 Tables
- 9,000,000,000 Records
- Convert from DDS to DDL
- 8,000 Programs

**The Old Way**

→ **3 Weeks** of Downtime

All updates to data had to be made with applications in the lock state.

**The MD Way**

With MDRapid, transform data while applications are active and only go into lock state during active deployment.

→ **2 Hours** of Downtime

## Reduce Application Downtime and Risk

One of the big benefits of using MDRapid is that your business is protected from risk. If there is an interruption such as a hardware problem, power outage, or subsystem termination, you can easily re-start the conversion process. Your applications and data remain unaffected until you are ready to move the new files into production. If anything goes wrong, MDChange's robust installation and rollback capabilities protect your production environment, and you can roll back to your old production data.

## Manage Database File Changes with MDTransform

Complex SQL syntax and conversion programs can become a thing of the past with MDTransform. This handy tool helps you quickly map and manage database file changes, and it even generates an SQL INSERT statement.

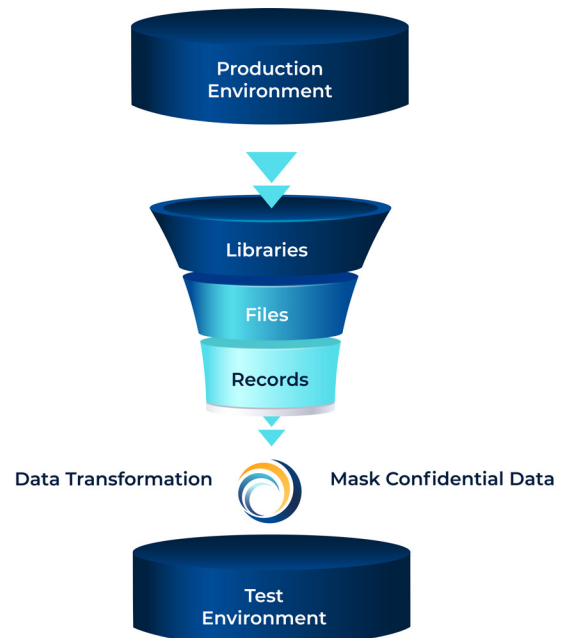
Using MDTransform, you can confidently automate managing field expansions, initializing new fields, merging fields, and managing deployment of DDS to DDL conversions. It also handles field-type changes with ease. MDTransform guides you through the steps to easily add and populate new fields or update field content. Behind the scenes, it builds and executes a dynamic SQL insert to populate the new version of the file.

Data transformation results are validated during the compile phase to avoid surprises during installation. You can view, customize, and validate conversion results when transformation occurs.

## Build and Refresh Test Data Automatically

Providing reliable test data is critical for any test plan. MDTransform uses Data Copy Templates to identify selection criteria for building and maintaining test data. Select which files, and even which records in the file, you need. MDTransform can also initiate column-specific masking of confidential data.

Development and QA teams can quickly refresh data whether it resides on the same or different partitions. Templates may be saved, copied, and reused, and data transfer can occur dynamically or be scheduled for periodic refreshes.



**Questions?** Visit our website at [www.md-na.com](http://www.md-na.com) and schedule a demo!