

# Midrange Dynamics



## Deploy IBM i Database Changes in Minutes with MDRapid and MDCMS

### Are database modernization projects or file expansions on your horizon?

Critical applications often need to be available 24/7 so downtime windows must be minimal. This makes it a challenge to tackle essential projects like application and database modernization without disrupting systems that support vital business operations.

Typically when a file structure is modified, users lose access to one or more applications while the change is implemented. Issues arise when you can't fit the data copy or conversion into an available downtime window due to file size. The need to quickly deploy changes to high volume files on multiple servers compounds this challenge.

**MDRapid and Midrange Dynamics change management (MDCMS)** work together to substantially reduce business application downtime and risk as you deploy database changes across your enterprise. Ultimately, your IT team can respond with more agility to business needs and enhancement requests. A move to modern and efficient database architecture becomes easier to plan and achieve.

#### Reduce Application Downtime

MDRapid uses 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 upgrades are taking place.



MDRapid employs MIMIX Promoter® from Vision Solutions to 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 the staged library. Thanks to a low performance footprint, users are not impacted during this process.



Since MDRapid deploys database changes quickly, even for multi-million- and multi-billion record files that have an extensive amount of update activity, it's easy to integrate MDRapid into day-to-day operations.

#### Modernization – Prepare to Make the Leap

Modernizing traditional databases to SQL is part of achieving better application architecture as recommended by the IBM i Modernization Roadmap. Converting DDS-described physical files to DDL SQL tables offers greater speed and performance, and it enables you to:

- prepare your applications to evolve in a wider variety of ways
- increase data security and data integrity
- reduce future development time
- take advantage of interoperability with other applications and tools

MDCMS and MDRapid integrate seamlessly with leading DDS-to-DDL conversion tools to facilitate rapid and reliable roll out of database changes across the enterprise.

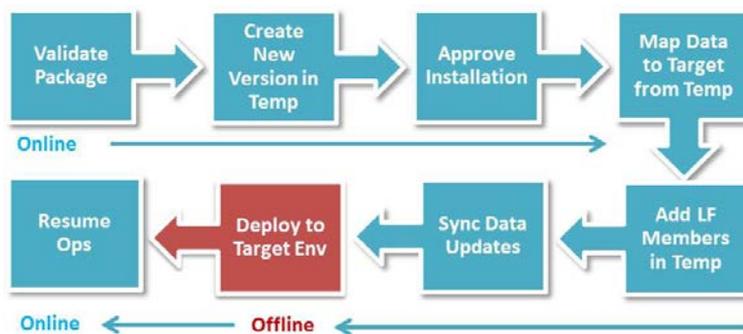
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### How MDRapid Works

Taking full advantage of control and auditing functionality inherent with change management, MDCMS and MDRapid work in concert to manage database updates and implementation of all associated application objects.

1. MDCMS creates a new version of the DB2 file or SQL table in a temporary library.
2. MDCMS checks to see if the current version contains sufficient records to require use of MDRapid based on application preferences.
3. User or system approves the launch of MDRapid.
4. MDRapid creates empty members in the new format of the staged files.
5. MDRapid ensures that the limits for record count and member count are high enough to accommodate all records and members in the current version of your production DB2 file or SQL table. MDRapid also provides for replicating a multimember DB2 file to several SQL tables.
6. MDRapid copies all records from the current version to the new version. You can specify custom data conversion and mapping parameters.
7. MDRapid builds any logical files including views and indexes once the initial copy is complete.
8. MDRapid simultaneously migrates any transactions performed in the live application until such time that the deployment of the changes should occur.
9. MDCMS moves all impacted objects to a backup library and moves the new files and related objects into the application. If an exception occurs, MDCMS automatically rolls back. Since all copying and building were done beforehand, this final step is performed very quickly.



### Relax! It's Under Control

One of the big benefits of using MDRapid is that your business is protected from risk. MDRapid maintains all changes in a safe staging environment. If there is any kind of interruption (e.g., 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, MDCMS's robust installation and rollback capabilities

protect your production environment, and you can roll back to your old production data.

#### MD Extras

**Helpful job monitor** — Display job status, total number of records, percent complete, time estimated to complete, and actual time completed.

**Status Updates** — Convenient email notifications and status exit points keep you informed.

**Automatic installation** — Specify a time window for installation of database changes.

Midrange Dynamics is an OEM member of the Vision Solutions Partner Program. MDRapid is packaged as part of MDCMS and licensed separately.

Give us a call today to explore best-in-class solutions that **quickly** deliver the change management capability you need to support complex application and database modernization projects.

#### Resource:

Midrange Dynamics  
[www.midrangedynamics.com](http://www.midrangedynamics.com)



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