



# Mainstar Database Backup and Recover for DB2 on z/OS

Simplify DB2 for z/OS backup, recovery and disaster recovery operations

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Mainstar Database Backup and Recovery for DB2 (DBR for DB2) is a storage-aware backup and recovery solution that integrates storage processor fast-replication facilities with DB2 backup and recovery operations to allow instantaneous backups, reduce recovery time and simplify disaster recovery procedures while using less CPU, I/O, and storage resources.

- ▶ Backup DB2 systems instantaneously with no impact to applications
- ▶ Fast restore and parallel recovery reduces recovery time and complexity
- ▶ Transforms disaster recovery into a disaster restart process reducing RTO
- ▶ Significantly reduce costs by using less CPU and I/O resources
- ▶ Reduce storage costs by utilizing one backup for multiple purposes
- ▶ Eliminate backup windows and extend batch processing windows
- ▶ Backup validation ensures successful recovery every time
- ▶ Eliminate contention on production objects by creating image copies from system backups
- ▶ Simplify and enhance DB2 BACKUP SYSTEM implementations
- ▶ Perform DB2 system clone operations from a system level backup

DB2 for z/OS is the foundation database for many enterprise applications that manage today's business processes. Its performance, scalability and high availability features provide the data management support required for 24x7 availability requirements. DB2 systems require special consideration when planning and implementing backup, recovery, and disaster recovery strategies; fast, non-intrusive backup and recovery solutions are required to enable high availability for these critical database management systems.

Mainstar Database Backup and Recovery for DB2 (DBR for DB2) is a storage-aware backup and recovery solution that integrates storage system fast-replication facilities with DB2 backup and recovery operations. DBR for DB2's storage-aware backup processes allow data to be backed up instantly without affecting running applications. DB2 recovery is performed quickly using storage-based fast-replication facilities to restore backups while invoking DB2 recovery processes in parallel to reduce overall recovery time and minimizes application down time.

DBR for DB2 facilitates a DB2 system level backup (SLB) methodology. It coordinates DB2 system and storage-based fast-replication facilities to backup DB2 systems fast and effectively without using host CPU and I/O resources. DBR for DB2 generated system level backups can be used for DB2 system recovery, application recovery, object recovery, and for DB2 disaster recovery purposes. Using an effective DBR for DB2 system level backup methodology allows DB2 system level backups to be used for multiple recovery purposes saving CPU, I/O, and storage resources required to create multiple backups for specific uses.

# DBR for DB2 on z/OS Features, Functions and Benefit Summary

Feature	Function	Benefit
DB2 system level backup	Creates instant point in time DB2 system level backups without affecting application availability.	Increases DB2 system and application recovery.
Storage-aware	Storage-aware database utilities use storage processor fast-replication to copy data.	Creates instant backups and reduces CPU and I/O costs by leveraging storage-based fast-replication to copy data.
Storage blades	Provide support for IBM, EMC, and HDS storage systems and fast replication processes.	Supports all storage vendor hardware and fast-replication.
Meta-data repository	Specialized meta-data repository used to correlate DB2 storage volumes with backup volumes and recovery structures.	Allows fast DB2 restore and parallel recovery operations and allows system backups to be used for system, application, or object recovery.
Multi-purpose system level backup	Creates a system level backup that can be used for system recovery, application recovery, object recovery, or disaster recovery using disaster restart procedures.	Reduces backup costs by utilizing one backup for multiple purposes
Backup profiles	Defines backup type, fast replication usage, volume mappings, and retention period options needed to perform and record a system level backup.	Automatically perform accurate DB2 backups on a regular schedule.
Validity checking	Automatically validates DB2 backups are complete and can be used for recovery.	Ensures DB2 data can always be restored.
Reports	Details backup and recovery information	Helps manage your backup and recovery operations.
Create image copies from a system backup	Creates standard image copies from a system level backup.	Eliminate contention on production objects. Speeds and simplifies recovery.
Partial DB2 system backup	Provides the ability to backup and restore a subset of the DB2 system.	Provides backup flexibility and saves resources and costs.
Tape offload	Archives disk-based backups to tape or disk, including remote disk. Archive copies can be used for subsequent recoveries.	Reduces costs through effective storage hierarchy utilization.
DB2 system recovery	Provide effective restore of a DB2 system and recovers the system in parallel to help reduce recovery time and reduce application down time.	Simplify recovery operations and reduce recovery time to promote high availability.
DB2 application and object recovery profiles	Performs application and object level recovery from a system backup.	Simplify backup and recovery operations and reduces the need for image copy backups.
DB2 disaster recovery and restart	Transforms traditional DB2 disaster recovery procedures into a DB2 tape-based disaster restart process.	Simplifies DB2 DR operations and reduces recovery time objectives.
Integration with other products	Integrates with VCR to allow DB2 system cloning from a DB2 system backup.	Allows cloning to be done without affecting production systems and can save storage.

## Find Out More:

Visit [www.mainstar.com](http://www.mainstar.com) for technical articles and additional information on how DBR and Mainstar's other innovative data access solutions can help you. To arrange a personal briefing or a free trial, contact us at [product\\_info@mainstar.com](mailto:product_info@mainstar.com).

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