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Rocket® Mainstar Database Backup & Recovery for IMS

Simplify IMS Backup, Recovery and Disaster Recovery Using a System-Level Backup Methodology

- Perform IMS system level backups instantaneously with no impact to the business
- Fast restore and parallel recovery
- Reduce recovery time and complexity
- Transform disaster recovery into a disaster restart process reducing RTO
- 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
- Achieve successful recoveries – every time – by performing backup validation
- Provide IMS recovery tool integration

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

IMS 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. IMS 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.

DBR for IMS is a storage-aware backup and recovery solution that integrates storage system fast- replication facilities with IMS backup and recovery operations. The storage-aware backup process in DBR for IMS allows data to be backed up instantly without affecting running applications. IMS recovery is performed quickly using storage-based fast-replication facilities to restore backups while invoking IMS recovery processes in parallel to reduce overall recovery time and minimize application downtime.

DBR for IMS facilitates an IMS system level backup (SLB) methodology. It coordinates IMS system and storage-based fast-replication facilities to back up IMS systems fast and effectively without using host CPU and I/O resources. System level backups can be used for IMS system recovery, application recovery, database recovery, and for IMS disaster recovery purposes. Using an effective DBR for IMS system level backup methodology allows IMS 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.

High Level Features/Benefits

iMS System Level Backup	❖ Creates instant point-in-time IMS system level backups without affecting application availability.	❖ Increases IMS 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.
Storage Blades	❖ Provides support for IBM, EMC, and HDS storage systems and fast replication processes.	❖ Supports all storage vendor hardware and fast-replication

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High Level Features/Benefits

Metadata Repository	❖ Specialized metadata repository used to correlate IMS storage volumes with backup volumes and recovery information.	❖ Allows fast IMS 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.
IMS Discovery, Analysis, and Configuration	❖ Discovers IMS systems and provides configuration advice for data set layouts.	❖ Identifies IMS data set layouts and helps setup level IMS configurations to accommodate a system backup methodology that supports recovery objectives.
Backup Profiles	❖ Defines backup type, fast replication usage, volume mappings, and retention period options needed to perform and record a system level backup.	❖ Automatically performs accurate IMS backups on a regular schedule.
Validity Checking	❖ Automatically validates IMS backups are complete and can be used for recovery.	❖ Uses IMS discovery to ensure backups are complete and IMS data can always be restored.
IMS Recovery Tool Integration	❖ Integrates IMS recovery tools into a DBR for IMS recovery management process.	❖ Leverages IMS recovery tool investments while streamlining IMS recovery processes.
Create Image Copies from a System Backup	❖ Creates standard image copies from a system level backup.	❖ Eliminates contention on production objects. ❖ Speeds up and simplifies recovery.
Partial IMS System Backup	❖ Provides the ability to backup and restore a subset of the IMS system.	❖ Eliminates contention on production objects. ❖ Speeds and simplifies recovery.
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.
IMS System Recovery	❖ Provide effective restore of a IMS system and recovers the system in parallel to help reduce recovery time and reduce application downtime.	❖ Simplifies recovery operations and reduces recovery time to promote high availability.

High Level Features/Benefits

IMS Application and Object Recovery Profiles	❖ Performs application and object level recovery from a system level backup.	❖ Simplifies backup and recovery operations and reduces the need for image copy backups.
IMS Disaster Recovery and Restart	❖ Transforms traditional IMS disaster recovery procedures into a IMS tape-based disaster restart process.	❖ Simplifies IMS DR operations and reduces recovery time objectives.
Integration with Other Products	❖ Integrates with Rocket Mainstar Clone and Rename for IMS (ICR) to allow IMS system cloning from an IMS system backup.	❖ Allows cloning to be done without affecting production systems and can save storage.

System Requirements

Software Requirements	❖ z/OS V1R9 or later ❖ IMS Version 9 or later
DFSMSdss Requirements	❖ Approx 40 MB (50 cyls) Direct Access Storage Device (DASD) for installation
APF Authorization Requirements	❖ APF Authorized library ❖ TSO Authorized command

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