Rocket® Mainstar Backup and Recovery Manager Suite for z/OS

Simplify z/OS Backup, Recovery, & Disaster Recovery Operations

Simplify and improve the accuracy of data discovery

Optimize resources by identifying mission-critical data

Centralize visibility into the entire backup environment

Eliminate the risk of missing files needed for recovery

Demonstrate compliance with internal or government regulations

Rocket® Mainstar Backup & Recovery Manager Suite provides assurance that data assets required for an organization to be resilient are protected and recoverable in any situation. Ensuring that your business is resilient to every type of outage can be a daunting task. With Backup & Recovery Manager suite, you can quickly restore access to data and meet your demands for continuous data availability.

Accidents Happen

Sooner or later, your organization may be affected by data loss, and if the data isn't discovered and protected, it can't be recovered. Whether you need to recover one data set due to a "fat finger" or an entire application due to corruption, in most cases, the data will need to be recovered locally. By preparing for both local and disaster recovery, you can mitigate the risk of financial losses due to missing or corrupted data.

Easily Discover Application Data Assets That Are Critical to Business Survival

Identifying the data that makes up an application — and the data that is required by an application to recover—is one of the most difficult and time - consuming tasks a programmer performs.

Regardless of how an application is structured, if a critical application is dependent upon input from a non-critical application the non-critical application automatically becomes critical.

Recover Data from a Centralized Location with One Simple Process

Every second counts during a recovery. Whether you are exercising your recovery plans or are involved in an actual recovery, save time by using an ISPF interface to recover business critical data from a central point.

Determine Data Set Criticality with an Application-Wide View
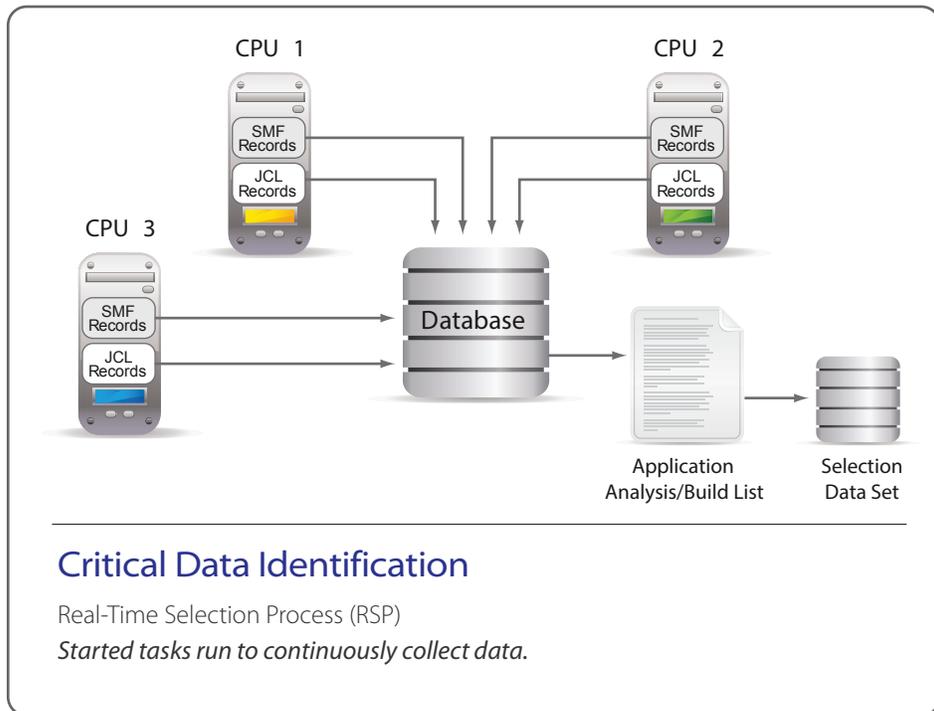
A defined application is automatically analyzed using information obtained from several sources. From this analysis, a picture of the application is constructed, providing an overview that is most often the central source for recovery planning information. The picture quickly produces a file that contains a complete list of just those data sets required to successfully restore the application at the recovery site.

Automatically Track Changes

Most applications are constantly changing. With automation, the application is continually evaluated, capturing any changes, such as when data sets are added or removed, when their criticality changes, and when new jobs are added to the application.

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High Level Features/Benefits

Inventory Data Set with ISPF Interface	❖ Integrates all backup and recovery information and simplifies research, reporting, and planning.	❖ Reduce the time and level of expertise required to create accurate backups and achieve successful recoveries.
Identification of Critical Data	❖ Identifies all application data sets needed for backups, eliminating manual upkeep of business-critical data set lists. ❖ Discovers data sets as they are used, not by mask every day.	❖ Refreshes backup list as data changes. ❖ Diminish the risk of missing critical data sets at the recovery site.
Automatic Backups of Critical Data	❖ Backs up exactly the data you need for a successful recovery.	❖ Decrease costs and increase the effectiveness of your backups.
Backup and Restore Data By Application Cycle	❖ Automates data identification and backups by application cycle.	❖ Restore applications based on your Recovery Time Objective (RTO) requirements.
Powerful Filtering Capabilities	❖ Provides backup customization, so you canexclude data sets you don't want applications to back up or that you want to	back up collectively instead of in multiple applications. ❖ Ensure that critical data sets are backed up.
Identification of What Isn't Backed Up	❖ Compares what was discovered to what was backed up.	❖ Ensure that critical data setsare backed up.
Identification and Backup of Tape or Migrated Data	❖ Provides a low-cost alternative for data that doesn't warrant mirroring.	❖ Reduce the cost of DASD remote mirroring.
Extensive Backup Support	❖ Centralizes backup information produced by backup utilities.	❖ Simplify the recovery of data sets, applications, or data for reporting.
Incremental Backup Support	❖ Only backs up what has changed since last backup.	❖ Reduces backup time 40 to 60 percent.
Fast Data Set Search	❖ Find all possible dataset backups quickly for restore.	❖ Achieve faster recoveries.
Identify Application Overlaps	❖ Identify data sets backed up by more than one application or multiple times.	❖ Avoid wasting resources by redundant backups.

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Critical Data Identification

Real-Time Selection Process (RSP)
Started tasks run to continuously collect data.

Eliminate Redundant Backups

Large data sets or VSAM databases that change infrequently might be used as input to one or more applications. As a result, they become critical and might be backed up several times a day. These redundant backups can waste valuable resources, and increase backup and recovery times. By quickly and easily skipping backup for these data sets, you can achieve successful recoveries with fewer resources.

For DFSMShsm ABARS users, implementing ABARS incremental backups is the answer. You can easily keep track of data that has not been changed from the BASE to the last incremental backup. The "base + incremental cycles" option is designed to match your daily, weekly, monthly, quarterly, and annual processing cycles.

Take Advantage of Powerful Filtering Options

With filters, you can exclude data sets you don't want every application to back up, or that you want to

back up collectively instead of in multiple applications. These three levels of filters are easily set up during implementation.

Three Levels of Filtering

Universal: Set once during installation and automatically applied to all defined applications. These filters cannot be overridden by individual applications, preventing system or other files being recovered from unanticipated sources and reducing file contention during backup and recovery.

Global: Provide useful groupings of common data sets in a simple package. Global filters can be used or overridden as required by the circumstances of a specific application.

Local: Unique for each defined application. Local filters can force unreferenced data to be included in the backup, such as an application's PDS or data a DBA needs for recovery tasks. These filters can also cause data such as backups, reports or other output-only data sets to be excluded.

Simplify and Centralize Recovery

You can easily find data set backups without knowledge of the backups. Automatically build recovery jobs, complete with data set and VOLSER information, for recovery readiness.

Easily Restore Only the Data Needed

With powerful filtering and masking, restore just the data needed by displaying backups for only those data sets that match a mask. For example, using a mask of 'PAY.**', will exclude all other data in the backup. Recovery can be driven from the panel regardless of the backup method used.

Recover Critical Data First

Group data backups can be prioritized according to business priorities for a tiered recovery. Organize the backups into logical groupings. When recovery for the group is selected, all of the data included in that group is submitted for recovery.

Prioritizing recovery provides the following advantages:

❖ Ensure that anyone can recover the data based on business needs

❖ Recover all data belonging to the application and/or all interfacing applications

❖ Recover all data on disk and tape, even data from DFSMShsm migration

Recover Only the Most Current Copy

Most production applications share data, which can be critical to more than one application.
During recovery, each data set name is compared to a file containing a list of the most current backups. If the backup being used for recovery is the most current, it will be recovered. If the backup is not the most current, the recovery of that data set is skipped and a notation is made.

When recovery is complete, you can begin running the batch cycles, with the knowledge that the correct data inputs are being used.

Incremental Recovery

Automate recovery of the application's cycles to enable processing forward into the next cycle.

Managing the processing cycles more efficiently means that recovery of the daily, weekly, monthly, quarterly, or annual cycles can be accomplished with just one recover command.

If you select to recover the daily incremental cycle, automatic recovery from the base to the last incremental backup will occur.

Centrally View and Report on Backup Information

An ISPF interface provides rapid and effective access to a wide variety of useful information:

❖ Discover unprotected data

❖ Optimize mirrored resources

❖ Locate all of the desired backups

❖ Determine what got backed up, when, and how

❖ Determine the number of available backup copies

❖ Provide validation that critical data has a backup

Prove That You are Recoverable

Survive a data backup audit by providing critical data asset lists:

❖ Prove compliance with federal regulations or internal audits

❖ Ensure that backups are retained for the appropriate amount of time

System Requirements

Operating System	❖ Any release of z/OS supported by IBM

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