



# improve backup

## procedures (DMS)

Efficient detection

Reduce financial exposure

Improve reliability

Save time and costs

Improve performance

In today's complex and volatile business environment, every IT organisation faces a myriad of operational challenges to maintain maximum business readiness – which includes maintaining maximum availability and recoverability of the company's data.

### Identifying the Challenges

The task of maintaining data availability and recoverability is extremely complex due to the enormous number of data sets, processes and facilities involved.

All datacentres take backups for contingency purposes. There is no “right” way to implement backup, nor is there one universal solution. Rather, a number of backup methodologies are implemented by most installations, using multiple software (and sometimes also hardware) facilities.

In a typical data centre, tens of thousands of data sets are used each day. These data sets are normally controlled via one of the data management products which are available, such as CA-Disk (DMS) and DFSMS. If applications from several sites have been merged Software-controlled data set backup may be performed using multiple products or utilities. This may result in missing backups, unusable backups, non-standard backups, and backups taken in a non-optimal way.

The SmartAnalyzer product has been created to identify exposures and inefficiencies in the way your business data is backed up.



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## What is SmartAnalyzer?

SmartAnalyzer is a powerful software product specially designed to address the issue of on-site application backup. SmartAnalyzer identifies exposures and inefficiencies in the way your business data is backed up.

It provides comprehensive auditing capabilities for data centres employing the DMS (CA-Disk) disk management product. SmartAnalyzer for DMS supports all DMS environments, regardless of the level of DFSMS data policy implementation, local backup standards and methodologies used.

## Features & Benefits:

- Reduces the organisation's financial exposure
- Minimises interruption to mission-critical business applications
- Reduces the backup window
- Saves hardware, time and costs
- Improves the reliability and performance of your current backup and migration procedures.
- Executes on all processors capable of running under supported versions of OS/390 and z/OS

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----- SMARTANALYZER FOR DMS - REPORTS ENTRY PANEL -----
OPTION ==> D

M  MANAGEMENT REPORT                RELEASE - 4.3.0
                                     LEVEL   - 2005/08

DETAILED REPORTS (BY STRATEGY)

A  MISSING BACKUPS

B  UNUSABLE BACKUPS AND MIGRATED DATA SETS

C  NON-STANDARD BACKUPS

D  CONFLICTING BACKUP/MIGRATION POLICIES/STATUSES

E  EXCESSIVE BACKUPS AND MIGRATIONS
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Image 1: Reports Entry Panel

## Improving backup procedures

SmartAnalyzer improves the reliability and performance of your current backup procedures by applying five key strategies:

### Detect Missing Backups:

Often there are important or even crucial application data sets which are not backed up, or which are backed up at a wrong point-in-time (PIT). In case of software or hardware failure, the absence of such backups may cause valuable time to be lost and, in extreme cases, even impact your business.

### Detect Unusable Backups:

Often existing backup data sets and volumes contain invalid data which is actually unusable when recovery is required. The impact of this situation is usually equivalent to not having any backup at all.

### Detect Non-Standard Backups:

Jobs often contain steps to back up data in a non-standard manner, causing resources to be wasted, data to be lost, or valuable time to be lost during recovery.

### Detect Conflicting Backup Policy/Status:

Backup policies defined to the local data management products, or backup statuses maintained in the local data management products, are sometimes not identical, causing data to be lost.

### Detect Excessive Backups:

More backups than actually required are often taken, causing resources to be wasted. Eliminating unnecessary backups can drastically reduce the amount of data being backed up, significantly reducing backup window time and system resources.

## Hardware/Software requirements:

SmartAnalyzer executes on all processors capable of running under supported versions of OS/390 and z/OS; requires DMS (CA-Disk) release 9.0 and up.



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