



### What Is SmartAnalyzer?

SmartAnalyzer is a powerful software product specially designed to address the issue of onsite application data backup and migration.

**SmartAnalyzer** provides comprehensive auditing capabilities for data centers employing the **HSM** disk management product. SmartAnalyzer identifies problems and inefficiencies in the way your business data is managed via **HSM**.

**SmartAnalyzer** supports all **HSM** environments, regardless of the level of SMS data policy implementation, local backup standards and methodologies used.

**SmartAnalyzer** requires minimal information to be supplied by the user. The Online interface is menu-driven and features a fill-in-the-blanks approach to defining requirements.

### SmartAnalyzer Benefits

- Reduces the organization's financial exposure.
- Minimizes interruption of mission-critical business applications.
- Reduces the backup window.
- Saves hardware, time and costs.

### SmartAnalyzer Strategies

SmartAnalyzer applies the following five key strategies to improve the reliability of the current backup procedures:

- Detect missing backups
  - Detect unusable backups and migrated data sets
  - Detect non-standard backups
  - Detect conflicting backup/migration policies and statuses
  - Detect excessive backups and migrations
- Detect Missing Backups

Often there are important or even crucial application data sets which are not backed up by **HSM**, 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.

**Sample exposures:** Active data set not backed up at all; Data set is updated multiple times with no backup in between.

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### Detect Unusable Backups and Migrated Data Sets

Often existing backup/migrated data sets and volumes contain invalid data which is actually unusable when recover or recall is required.

**Sample exposures:** Tape backup/migration volume already scratched; Backup performed while data set was updated.

- 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.

**Sample exposures:** Backup for data set taken via general copy program (e.g., IEBGENER); Backup taken bypassing SMS-defined backup policy.

- Detect Conflicting Backup/Migration Policies And Statuses

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

**Sample exposures:** Differing expiration dates for a backup/migration tape volume in **HSM** and in the Tape Management system; Improper catalog status of migrated data sets.

- Detect Excessive Backups and Migrations

More backups and migrations than actually required are often performed, causing resources to be wasted. Eliminating unnecessary backups/migrations can drastically reduce system resource consumption, backup window time and space management window time.

**Sample points:** Backup taken even though the data has not changed since the previous backup; Migrating the same data sets in and out frequently ("Migration Trashing").

### Hardware and Software requirements

SmartAnalyzer executes on all processors capable of running under supported versions of OS/390 and z/OS; ISPF V2 and above; TSO/E V1 Release 3 and above; DFSMSHsm running under OS/390 or z/OS.

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