

# SEPATON Synthetic Full Backup

**DATA BACKUP AND RESTORE APPLICATION  
FOR THE S2100™ VIRTUAL TAPE LIBRARY**

Synthetic Full Backup



Dramatically slash  
backup windows,  
without sacrificing  
data availability.

**SHRINKS BACKUP TIMES**

Perform full backups in minutes, instead of hours

**ACCELERATES RESTORE TIMES**

Reduce data restore times to seconds

**ACCELERATES VAULTING TO TAPE**

Build tapes ready for off-site vaulting days earlier than previously possible

**OPTIMIZES STORAGE CAPACITY**

No data copying—store synthetic full backups in just 32MB

**HIGH CAPACITY**

Accommodate the logical equivalent of 5,000 tape cartridges in a single system

**EASY TO USE**

No changes in user routines

# SLASH BACKUP WINDOWS. PERFORM FULL BACKUPS MORE FREQUENTLY. OPTIMIZE BACKUP STORAGE CAPACITY.

Today's global, 24 x 7 business environments demand uninterrupted access to critical data. Yet growing data volumes are lengthening backup time and consuming valuable storage capacity. IT managers are finding it increasingly difficult to perform full and even incremental backups as frequently as they want—or need—to.

**SEPATON Synthetic Full Backup addresses this critical need, providing a breakthrough software solution that:**

- Reduces the time required to create full backup images—execute the equivalent of a nine-hour full backup in just one minute.
- Accelerates restore times—all synthetic full backup information resides on the S2100 Virtual Tape Library system, enabling full restore in seconds.
- Reduces the storage capacity required—store synthetic full backups using just 32MB of disk storage.
- Reduces load on system resources—all functions are performed on the S2100, with no impact on the media server.
- Reads and writes standard tape formats—requires no changes in end-user behavior.

There's no longer any need to move files to create the equivalent of a full backup. Using snapshot-like pointers, SEPATON Synthetic Full Backup dramatically reduces the time and resources required to create a synthetic full backup. Now you can perform a full backup every day if you wish, without business interruption.

## ROOM TO GROW

The SEPATON Synthetic Full Backup application is designed to keep pace with fast-growing enterprise data backup requirements.

The Synthetic Full Backup database, which contains the metadata file pointers, can accommodate up to 100 million files or 10,000 backup sets—the equivalent of 5,000 backup cartridges.

Note that no user data is stored in the Synthetic Full Backup database. All user data is stored in the S2100 Virtual Tape Library file system, ready for rapid restoration. This enables synthetic full backup files to be deleted, without any loss of user data.

## A NEW BACKUP PARADIGM

SEPATON Synthetic Full Backup is a software application that extends the capabilities of the S2100 Virtual Tape Library by dramatically accelerating the creation of synthetic full backups from incremental backup datasets. Unlike competing applications, no actual data is copied forward to compose the synthetic full backup. Instead, SEPATON Synthetic Full Backup creates compact “pointers” to new or changed files residing on the S2100. This breakthrough patent-pending approach enables SEPATON Synthetic Full Backup to create the equivalent of a 100GB LTO tape image in less than 60 seconds.

Perform the equivalent of a 9-hour full backup in just 1 minute.



For each incremental backup, SEPATON Synthetic Full Backup creates pointers to the most recent version of each file, building a synthetic full backup file consisting of this pointer information—in just seconds. Since all data resides on the S2100, a full copy of the data can be recreated rapidly when needed. And, it looks just like tape to the backup application.

# SEPATON Synthetic Full Backup

## DATA BACKUP AND RESTORE APPLICATION FOR THE S2100 VIRTUAL TAPE LIBRARY

### EASY ROLL FORWARD

The SEPATON Synthetic Full Backup application simplifies the process of rolling backups forward to create new full backups with actual user data.

The Roll Forward feature automatically builds stand-alone, pointerless full backups by copying data pointed to by the synthetic full backup file into a new backup set on the Virtual Tape Library. This is performed entirely on the S2100, without impacting the media server. Once the data is copied, the Synthetic Full Backup application automatically write-enables all Virtual Tape Library cartridges used for the synthetic full backup, readying them for the next synthetic backup set.

### A COMMITMENT TO DATA PROTECTION

At SEPATON, we are entirely focused on a single goal: to provide the most capable, easy-to-use enterprise data protection solutions available. Our breakthrough solutions enable organizations to keep pace with their growing information protection needs, while reducing their total cost of ownership. With significant engineering resources and innovative, proprietary technologies, SEPATON is committed to expanding its family of solutions to provide the industry's most complete solution for protecting your critical data—and preserving your technology investment.

### ReadyRestore: A FAMILY OF SOLUTIONS

Synthetic Full Backup is part of SEPATON's ReadyRestore™ family of automated backup/restore applications for the S2100 Virtual Tape Library system. ReadyRestore applications are based on SEPATON's ContentAware™ architecture, an intelligent software core with the power to distinguish content and files. This enables them to perform a range of crucial data-protection functions faster and more efficiently—without disrupting existing work processes.

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