

**The
Secure Data
Solution**[®]

Protected by U.S. Patent 7,293,179;
European Patent 1669872;
and others pending

Benefits

Secure Data Solution® Virtual Tape System and Remote Vault Benefits

The Secure Data Solution® (SDS) is a patented and patent-pending virtual tape system and remote vault that allows an organization to efficiently store and retrieve compressed and encrypted virtual tape images. The Secure Data Solution's benefits include:

Enhanced data protection via encryption and compression

- The Secure Data Solution can immediately create virtual tape images locally and remotely.
- The Secure Data Solution is the solution for disaster recovery.

Multiple platform support

- A single Secure Data Solution can store tape images that have been created by any combination of supported systems and drives. These include commonly installed tape drives that are connected by ESCON, FICON, or Fibre Channel SCSI. It can be connected to large-scale IBM mainframes that utilize the z/OS or z/VSE operating systems, IBM AS/400s, and any UNIX or open system platforms that utilize IBM's Tivoli Storage Manager or HP's Data Protector.

Configurable to suit your needs

- The local SDS can be configured with a remote mirrored array that can be fibre-attached within 100 kilometers—offering the best in data protection.
- Transmission of tape images for organizations that don't have their own private network is available using the SDS's Data Mover. The Data Mover will transmit the virtual tape images from a local disk array to a remote Secure Data Solution's array over any private or public IP-based network.
- The Secure Data Solution can support up to 32 individual tape libraries.

Automation of tape movement

- The Secure Data Solution is an integrated, custom-configured system that is built upon an architecture of non-proprietary, state-of-the-art computing technology. It is easily customized to your needs with its included automation features.

If physical tapes are needed

- The virtual tape images can also be converted to physical tapes at either the local or remote site with attached tape drives.

Multi and early read capabilities

- Virtual tape images can be read by other tasks while the original is still being created.
- When the remote Secure Data Solution is connected to computer systems at the remote site, the virtual tape images are accessible by the remote computer systems to which it is attached. To facilitate this, the Secure Data Solution updates the remote computer system's tape management system and OS catalogs to reflect the contents of the remote Secure Data Solution.

Environmentally friendly

- The Secure Data Solution normally resides in a standard communications cabinet.
- Requires few environmental resources, freeing up floor space and reducing power/cooling costs.

Easily grows with your needs

- The Secure Data Solution is available in a number of configurations that can satisfy small, medium, or large organizations' needs.
- Virtually no limit to the number of unique tape volumes that each tape library can manage—other than what is imposed by the theoretical limit of the six-character volume serial number combination (over 2 billion per library).
- If virtual tape images are required at more than one remote site, any number of secondary remote sites can be established for further replication of the same virtual tape images; additional Secure Data Solutions can be installed at another office, a remote data center, a disaster recovery provider, or a vital records provider's facility.
- The Secure Data Solution can support up to 2 petabytes of storage. Data compression averages approximately 3 to 1 (which gives an SDS the capacity of maintaining 6 petabytes of raw, uncompressed data).

Savings, security & reliability

- The Secure Data Solution is a cost-effective alternative to an organization's physical tape process that saves staff, environmental, the cost of replacing physical tapes, and off-site tape logistics.
- The Secure Data Solution is infinitely scalable. As an organization's tape resource requirements increase, the Secure Data Solution grows with it—protecting any prior investment made in the SDS. If greater capacity for tape images is required, additional storage can easily be added. If more or different tape devices are required, or more or different computer systems require connectivity to the Secure Data Solution, additional SDS Secure Tape Units™ can easily be added to accommodate the growth. If in the future, additional remote locations are required, remote units can be installed. The Secure Data Solution is field upgradable, with no planned obsolescence, and growth can be sustained without the need to retire components.
- The Secure Data Solution provides more reliable access to data than traditional tapes; improves mount times and tape performance.

SecureAgent Software

- The Secure Data Solution can save an organization the liability from the loss or theft of sensitive data by its inherent data encryption and by reducing off-site tape handling requirements.
- Reduces backup window and the time to recover critical data.
- The Secure Data Solution's SAN server maintains the tape images on its Raid 5- or Raid 6-based disk arrays, offering mirrored state-of-the-art data protection.
- Unlike physical tapes, the emulated tape devices can be defined to hold substantially more data than a physical cartridge can, reducing the number of multi-volume datasets, and simplifying management of these files. Furthermore, with the Secure Data Solution, precious media is not wasted, nor is space reserved; it is dynamically allocated as needed.

Remote control

- The entire Secure Data Solution environment (all sites) can be managed by a single operator console.

Easy migration

- The Secure Data Solution can displace an existing IBM Virtual Tape System (VTS) and Automated Tape Library (ATL) and seamlessly migrate virtual or physical tape images from the IBM VTS and/or ATL onto the Secure Data Solution with minimal disruption to an organization's daily operations.

The Secure Data Solution is protected by U.S. Patent # 7,293,179; European Patent # 1669872; and others pending.
Secure Data Solution is a registered trademark of SecureAgent Software.