

**The
Secure Data
Solution**[®]

U.S. Patent 7,293,179; European Patent 1669872;
and Others Pending

Product Description

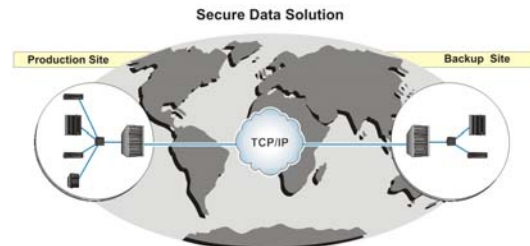
The Secure Data Solution®

Product Description

What It Is

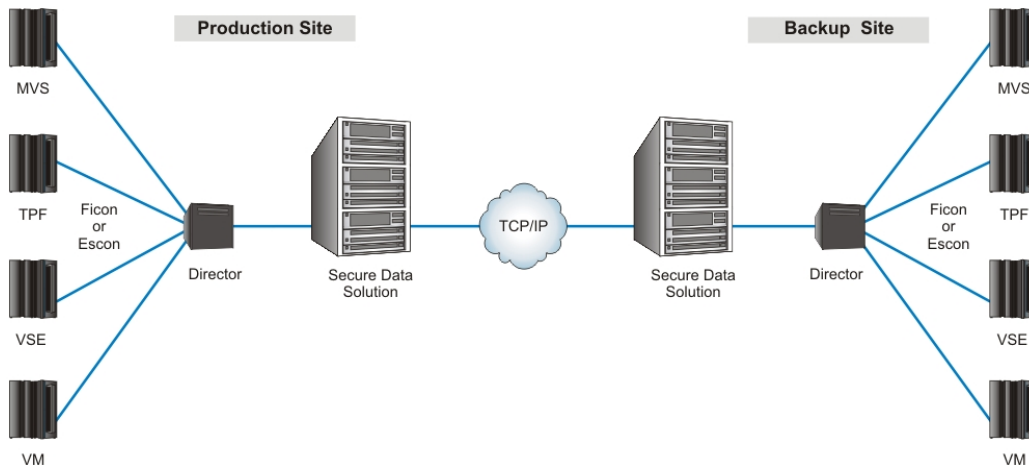
The Secure Data Solution is an integrated backup/offsite-archiving solution that allows you to recover information at either the originating site or the backup site in the event of a disaster.

The Secure Data Solution comprises both hardware and software modules. These can be easily tailored to your current needs, yet allow for easy scaling should future expansion be necessary.



Inputs

The inputs can be any combination of FICON, ESCON, and FC/SCSI.



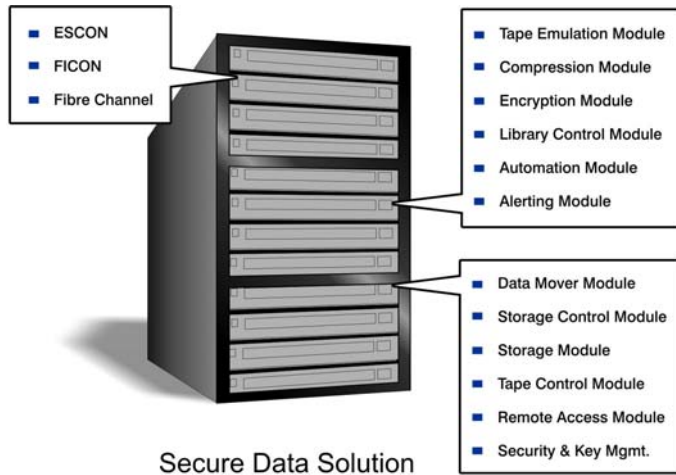
For the **mainframe environment**, the inputs are ESCON and FICON in any combination. Using the Tape Emulation Module, the Secure Data Solution can emulate any type of mainframe tape you would like. For example, it can emulate A/60- and J/70-type control units and the associated 3480, 3490, 3590, and 3592 tape drives. When the SDS is attached to your system, it looks just like a large bank of tape drives or an automatic tape library.

For the **midrange environment**, the input is FC/SCSI. When connected to a large farm of UNIX or LINUX servers, the SDS looks like a bank of SCSI-attached tape drives.

In an environment using Tivoli Storage Manager, Net Vault, Legato, or any of the commonly used **midrange backup solutions**, the SDS simply connects exactly like a tape drive, series of tape drives, or an automatic tape library. It can attach to the backup server by FC/SCSI and replace tape storage or it can attach to each individual server and emulate a tape drive for each server.

Component Modules

The SDS comprises both hardware and software modules, which can be easily tailored to your company's current needs, yet allow for easy scaling should future expansion be necessary.



Tape Emulation Module

The IDG 9480[®] Tape Emulation Module emulates any mainframe tape drive, including 3480, 3490, 3590, 3592, etc., and any FC/SCSI-attached tape drive for midrange systems, including LTO-1, -2, -3, -4; DLT, etc.

Compression Module

Once data is sent to the IDG 9480, a virtual tape image is created. When the virtual "dismount" occurs, the data in the virtual tape volume is compressed. Compression yields results between 2 and 4 to 1.

Encryption Module

After the data is compressed, it is encrypted. The standard encryption method is 128-bit AES. DES, Triple DES, and Blowfish are also available. The Encryption Module is an integral part of the IDG 9480.

Library Control Module

The IDG 9485[®] Library Control Module integrates with your on-board tape management systems and keeps track of the movement of tape volumes around the systems. The LCM ensures that any data written by any systems or LPAR can be read by any other system or LPAR. For example, UNIX data can automatically be handed to a mainframe job.

Automation Module

The entire Secure Data Solution is completely automated. Once rules for tape emulation, movement, and copying are invoked, the systems will continue to run with a bare minimum of human intervention. The Automation Module is an integral part of the IDG 9485.

Alerting Module	The SDS includes an intelligent monitoring system that issues alerts when it detects anomalies before they impact production and issues alerts via SNMP, e-mail, and even directly to an MCS or tape console. These alerts can be triggered based on thresholds, resource usage, bottlenecks, hardware issues, etc.
Data Mover Module	Once data has been encrypted, this module securely transfers data between sites. The Data Mover Module is an integral part of the IDG 9485.
Storage Control Module	The Secure Data Solution can either use internal dual RAID storage; or via FC/SCSI, any commonly supplied external disc, or DASD. The Storage Control Module is an integral part of the SA SAN.
Storage Module	Provides physical storage of data; incorporates FC/SCSI RAID technology supplied by SecureAgent Software and connecting to the Storage Control Module to ensure data integrity and recoverability in the event of hardware failure.
Tape Control Module	The IDG 9487 Tape Control Module allows any data sets, volsers, or tape images stored on the Secure Data Solution to be efficiently stacked together and written to physical tape. The SDS can write to FC/SCSI-attached drives such as LTO, DLT, 3590, and 3592.
Remote Access Module	Critical to any disaster recovery solution is the ability to invoke and manage it remotely. The Remote Access Module provides secure, encrypted centralized management of the system as well as secure encrypted connections to the system consoles, which use the SDS for data storage, backup, and recovery.
Security/Key Management	Security within the SDS is accomplished by using the patented and patent pending SecureAgent Security Service (SecureAgent). This service utilizes and enforces the increasingly accepted practice of Role-Based Access Control (RBAC). RBAC is mandated by a growing number of data center security officers as well as US federal regulatory authorities.
Virtual Tape Checker Module	The Checker continually ensures that virtual tape images have actually been mirrored. In the event of a problem with the network or a disk array, the Checker will determine what is missing, and will have the Data Mover copy the missing images, or the entire disk array, locally or remotely. The Checker is an integral part of the IDG 9485.

Outputs

The outputs from the Secure Data Solution are FC/SCSI, Ethernet, and FICON. The outputs can either connect to devices in the primary data center or can be used to move or copy data to another Secure Data Solution in a remote data center.

Outputs from an SDS **to local devices** are used to move data to either an Ethernet-attached SAN or NAS, or to FC/SCSI-attached disk. The SDS supports connections to any of the major suppliers of disk storage. The FICON output in the Tape Control Module is used to attach to FICON-enabled tape control units and ultimately to create compressed, encrypted, and stacked small tape images on a mainframe tape cartridge.

Outputs from an SDS used to move data **to another SDS** at a remote data center are either Ethernet or FC/SCSI. The movement of data to a second, remote data center ensures that data sets and tape images are always available for restoration at either data center in the event of a disaster.

In Summary

Taken as a whole, the Secure Data Solution is a hardware-and-software solution that provides a complete backup, offsite archival, and recovery solution. It supports all of the major systems in your enterprise, includes compression and de-duplication for saving disk space and bandwidth, encryption, and patented key handling for data protection, automation and alerting to reduce the need to manual intervention, and is totally remote controlled so it is an effective DR solution.

The Secure Data Solution is protected by pending and issued US and European patents.

For additional information, or to arrange a demonstration or trial installation, please contact:

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About SecureAgent Software

SecureAgent Software has been helping customers protect and manage sensitive data for more than 20 years. Many of the largest companies across the United States and throughout Europe use SecureAgent products in mission-critical areas of their daily operations. The Company develops both software and hardware products that play an integral role in secure remote console access, data backup and recovery, advanced automation, integrated tape management, and disaster recovery.

SecureAgent Software is a pioneer in the implementation of role-based access controls, and both commercial customers and the governmental sector use its products extensively to comply with evolving regulatory guidance.

Among the companies using SecureAgent Software products are three of the four largest US banks, two of the largest credit card processing companies, the nation's two largest communications companies, the world's largest stock exchange, the largest US airline, and the largest airline reservations companies in the US and Europe.

Secure Tape Unit, Secure Remote Data Storage, Secure Tape Controller, Secure Library Controller, Virtual Tape Checker, and SA SAN are trademarks; and Secure Data Solution, SecureAgent, IDG 9480, IDG 9481, and IDG 9485 are registered trademarks of SecureAgent Software and may be used only by permission. All other product names and services are trademarks or service marks of their respective companies or organizations.

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