

True incremental Backup System[®]



Teradactyl[®] is a software engineering company which concentrates solely on solving complex issues related to large scale backup and disaster recovery operations in distributed processing environments.

The True incremental Backup System[®] (TiBS) is the most advanced software available for multi-level & multi-volume synthetic backup consolidation. The continuing advancements that differentiate TiBS from other well known platforms stem from the continued evolution of Teradactyl's patented TeraMerge[®] architecture. Our premise is simple and our approach is both flexible and powerful. TiBS is designed to take the workload off the clients and networks by transferring only the data that has changed in a fast and efficient manner. The True incremental Backup System then provides more options to sites for processing those changes.

A basic and fundamental principle of backup and disaster recovery is to first get all the data off the systems you are protecting. TiBS will process your backups in parallel, moving only changed data from target systems to disk, for subsequent processing after the data is secured. By reducing the overhead and adding parallel processes, TiBS can grow with your rapidly increasing data size. Teradactyl specializes in helping large institutions complete their network backups in hours NOT days! We process Terabytes fast and efficiently.

Once the data is in the backup system, TiBS consolidates the True incremental volumes offline in a variety of configurable fashions to meet the desired balance of storage cost, data granularity, and expedient restore times. TiBS provides more control while providing both disk and tape verification and repair to protect restore integrity.

The Art of Backup & Recovery.



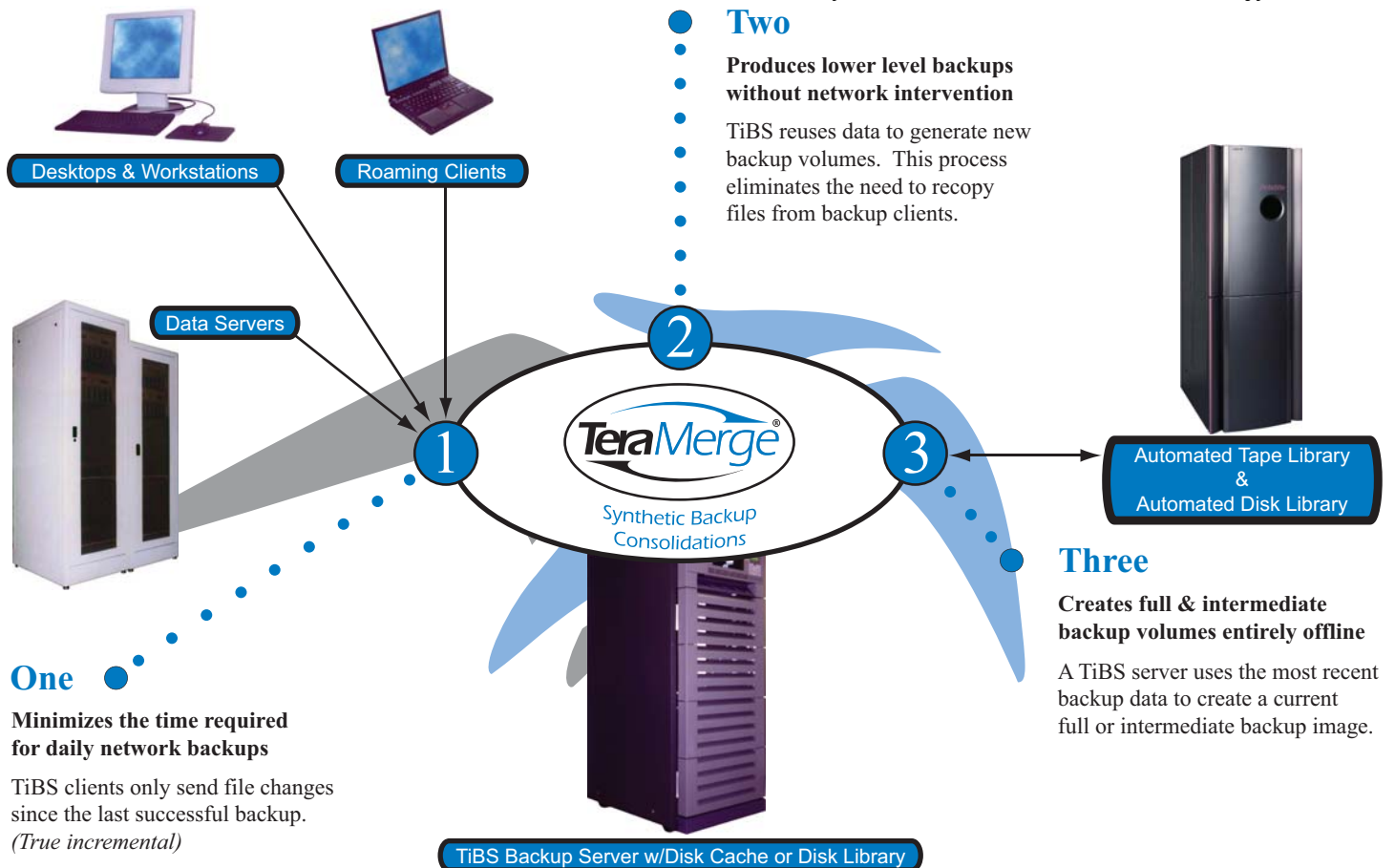


Teradactyl has hardware independent solutions designed to give you control over the speed of network backup completion, level of data redundancy, level of data granularity, types of storage, platform for the backup server, operating and network file system platforms supported, and the ability to customize the software to fit a particular environment. ALL WITH NO PER SEAT CHARGES!

The patented TeraMerge® multi-level & multi-volume synthetic backup consolidation process can merge True incremental Backups as well as multiple backup volumes already on the server. Administrators can use this technology to create full backups, differential and other forms of cumulative incremental volumes, and partial cumulative incremental backup volumes. This extensive array of flexibility allows institutions to backup only new and modified files, integrating them with files on the backup server to create newly consolidated backups in a manner that is most suitable to their needs and budget. The merge process generates all the multiple lower level synthetic backup consolidations without network interaction.

TeraMerge® recycling dramatically reduces the daily burden that backups impose on networks and clients. Only True incremental changes need to be transferred from the target clients to the backup server. This process results in better user response times and extends capabilities of other computing resources -- a far more efficient use of backup hardware and your computing environment! In addition, you can leverage additional storage hardware technologies in conjunction with TiBS to further replicate, consolidate, or remotely vault critical data. Teradactyl maintains hardware independence to give our clients maximum flexibility as they grow. Teradactyl is ever vigilant of the real purpose of the True incremental Backup System. Disaster recovery must also be highly efficient. Clients recognize the critical importance of providing both disk and tape verification and repair. TiBS restore processing can work in parallel, giving you the power to quickly return your central systems and infrastructure back online in the case of a catastrophic event.

Many trust the hardware but we still verify the data!



Three flavors of TiBS

TiBS software anticipates the exponential growth of information and keeps pace with the need for increasingly reliable storage. Different systems require different approaches. Teradactyl has developed three software packages to serve the needs of clients of every size.



TiBS Basic Version supports small computing environments. With Full, Incremental and True incremental network backup capabilities, TiBS Basic allows sites to define cost-saving backup strategies as they grow. TiBS Basic is recommended for sites with live data sizes in the 5 - 10 Terabyte range.



This mid-size version supports small and medium-sized computing environments. TiBS Lite will take you where the competition goes with their full versions. Full synthetic backups allow sites to grow by eliminating periodic network full backups. TiBS Lite is recommended for sites with live data sizes in the 30 Terabyte range.



Our Full Version provides the most scalable backup system for large, diverse computing environments. This version supports multiple level and multiple volume synthetic backup consolidation for complex level backup strategies. A single Full Version backup server is recommended for sites with live data sizes in the 90+ Terabyte range

Advantages of TiBS Basic

No Per Seat Charges!

Parallel processing of network backups to disk

Supports a single tape library per TiBS backup server at a fixed price. TiBS has no data capacity, drive limits, or slot restrictions associated with this optional storage module.

Scalable to 10 parallel backup processes per TiBS backup server

TeraMerge synthetic consolidation of incremental network backups

Optional Disk Library option available

Restores data directly from server disk caches or optional TiBS disk library

Standard optional verification of disk and tape backups

100% of software purchase price can be applied to upgrade to the Full or Lite Versions of TiBS

Advantages of TiBS Lite

All the features of TiBS Basic PLUS:

Parallel synthetic full backup processing

Supports two tape libraries per TiBS backup server at a fixed price. TiBS has no data capacity, drive limits, or slot restrictions associated with this optional storage module.

Scalable to 15 parallel backup processes per backup server

Eliminates periodic full network backups

Inherent data redundancy for synthetic full backups

Continuous verification for full backups

Repair capabilities for synthetic full backup volumes on both disk & tape

100% of software purchase price can be applied to upgrade to the Full Version of TiBS

TiBS Full Version

All the features of TiBS Lite PLUS:

Multiple level parallel synthetic backups

Multiple tape libraries per TiBS backup server at a fixed price. TiBS has no data capacity, drive limits, or slot restrictions associated with this optional storage module.

Unlimited parallel backup processes per backup server

Eliminates periodic lower level network backups

Inherent data redundancy for midlevel synthetic backups

Continuous verification for midlevel backups

Repair capabilities for synthetic midlevel backup volumes on both disk & tape

TeraMerge® Multi-Level & Multi-Volume Synthetic Backup Consolidation Process

$$V(t_0 - t_1) + V(t_1 - t_2) + \dots + V(t_{n-1} - t_n) = V(t_0 - t_n)$$

Implement multiple level backup strategies to reduce backup server processing & storage costs. Consolidate any number of disk volumes with an optional tape volume to generate new partial cumulative, cumulative or full synthetic backups with no network or client interaction. This technology is only available with the True incremental Backup System®

Product Features

Unique and Powerful Combination of Network and Synthetic Backups

Initial Network Full
Network True incremental
Network Synthetic Cumulative Incremental
Synthetic Partial Cumulative Incremental (Full Version only)
Synthetic Cumulative Incremental (Full Version only)
Synthetic Full (Full and Lite Versions)

Partial Cumulative Incremental Backups (Full Version only)

Combine with tape for added protection and reduced storage costs
Increases data capacity for each backup server
Implement a D2D solution OR accelerate D2D2T!

TiBS Standard Backup Features

Checksum analysis ensures correct transfer of data
Single file or sub-directory backup available
File omission rules eliminate unwanted data from backup
Strong symmetric key encryption protects data transfer over insecure networks
Backup classes enable multiple data retention policies
Backup groups simplify client configuration
Create powerful automation scripts with extensive command line interface
Supports Windows ACLs and UNIX special files
Initiate backups from the client and/or backup server

TiBS Standard Disk Cache

Backup in parallel to disk
Faster streaming of completed backups from disk to tape
Improved tape compression over network direct to tape backups
Allows network backups to complete independent of tape hardware failures

Standard Tape Management

Mirror tapes for offsite management
Reporting of tape media and device failures
Large backups automatically span multiple tapes
Tracks media reuse

Automated Tape Library Interface (ATLI) Option

Supports most barcode enabled tape libraries
Automate backup and restore processing
Reporting of tape library failures
Automate tape device cleaning

Disk Library Interface (DLI) Option

Available for all TiBS Versions!
Stores any type of backup volume to disk including True incremental, partial cumulative incremental, cumulative incremental and full backup volumes
Backups can also be written to tape for offsite/long term storage
Improves TeraMerge synthetic backup performance
Increases total amount of data a single backup server can support
Not limited to specific hardware vendors or manufacturers

Sensible Licensing

No per seat client licensing or reporting required
Nominal fee for unlimited backup clients per OS or network FS
TiBS supports AIX, FreeBSD, HP-UX, IRIX, Linux, NetBSD, OSX, Solaris, Windows, and file systems including AFS, NFS and OpenAFS!
Department, Site, and System Enterprise licenses available
Add parallel backup processing power as you grow (quantity discounts available)
ATLI supports unlimited tape devices and media slots per tape library per backup server
DLI supports unlimited disk storage capacity per backup server
Open File option for Windows supports unlimited Windows clients per backup server
100% of product purchase price applied to version upgrades!
All annual maintenance programs include new version updates

Benefits you will Appreciate

Accurate, useful, and easily customized reporting
Network level auditing tracks new and removed systems
Client level auditing tracks new and removed disk partitions
Custom Engineering Services

Teradactyl provides unmatched customer support !

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