Titan T3000/T3000x

Protect, manage and recover data at scale

Titan T3000 sets the bar for data protection from edge to core to cloud. It provides the ecosystem support, efficiency, powerful data protection and cloud-enabled capabilities that customers expect and appreciate from Data Domain and takes it to the next level.

Key Benefits

- Fast, secure, efficient data protection
- Logical capacity up to 11.2PB based on 65x deduplication
- Usable capacity 32TB to 172TB
- Supports leading enterprise backup and archive applications protocols

End-to-End Data Verification

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Fast, secure and efficient data protection

Titan T3000 minimizes the risk of data loss and leverages the value of protected data, while meeting ever more demanding SLAs and increasing ROI. Titan T3000 delivers fast backups and restores at a high compression level.

Titan T3000 lowers the total cost of ownership by reducing downtime in the unlikely event of a hardware failure. High speed networking connectivity with support for 25GbE network adapters ensure problem-free data transfer.

Instant access and instant restore

Instant access and instant recovery save time, minimizing mean time to repair (MTTR), by enabling instant access to data from the backup image on the included SSD drive. It also saves primary storage space with the ability to manage data on the appliance itself and lowers cost by better utilizing the physical resources in both the data protection as well as the production environments.

In case of a failure or disaster recovery in a virtualized environment, Titan T3000 can spin-up production-oriented VMs immediately within the appliance itself. By doing so, the customer can continue their daily routine without experiencing any downtime, while the failed VMs are restored to the production environment.

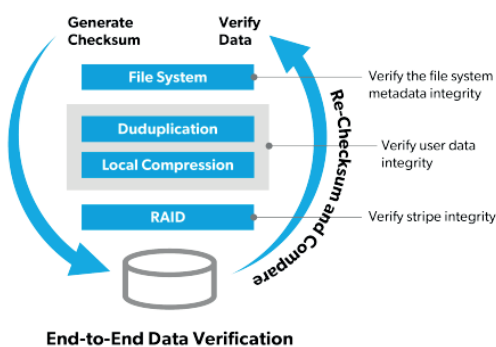## End-to-end data verification

End-to-end data verifications reads data after it is written and compares it to what was sent to disk, proving that it is reachable through the file system to disk and that the data is not corrupted. Specifically, when the system receives a write request from backup software, it computes a checksum over the data.

After analyzing the data for redundancy, it stores the new data segments and all the checksums. After all the data is written to disk, the system verifies that it can read the entire file from the disk platter, and that the checksums of the data read back match the checksums of the written data. This confirms the data is correct and recoverable from every level of the system.

Data Invulnerability Architecture

Titan T3000 is designed as the storage of last resort – providing you with the confidence that you can always reliably recover your data. The Data Invulnerability Architecture is built into Titan T3000 to provide the industry's best defense against data loss.

Inline write and read verification protects against and automatically recovers from data integrity issues during data ingest and retrieval while RAID-6 and hot spares protect against disk failure. Capturing and correcting I/O errors inline during the backup process eliminates the need to repeat backup jobs, ensuring backups complete on time and satisfy service-level agreements. In addition, unlike other enterprise arrays or file systems, continuous fault detection and self-healing ensures data remains recoverable throughout its lifecycle.

Seamless integration

Titan T3000 integrates easily with existing infrastructures, enabling ease-of-use with leading backup and archiving applications, and offers superior performance in conjunction with PowerProtect Data Manager and Data Protection Suite.

The system can simultaneously support multiple access methods including NFS and/or CIFS, VTL, NDMP and DD Boost™ all applications and utilities can be supported in the same system at the same time to enable greater protection storage consolidation.

A system can present itself as a file server, offering NFS, CIFS access over Ethernet; as a virtual tape library (VTL) over Fibre Channel; as an NDMP tape server over Ethernet; or as a disk target using application specific interfaces like Boost. Titan T3000 VTL is qualified with leading open systems and IBMi enterprise backup applications.

Industry-leading multi-cloud protection

Titan T3000 simplifies and obtains operational efficiencies including resiliency and scale as you grow in any cloud environment – private, public and hybrid. It supports the most extensive cloud ecosystem – AWS, Azure, VMware Cloud, Google Cloud, and Alibaba Cloud to deliver excellent in-cloud data protection at reduced costs. Titan T3000 provides fast disaster recovery with orchestrated DR and provides an efficient architecture to extend on-premises data protection with lowered costs.

Titan T3000 Specifications

Chassis	2U Rackmount
Drive Bays	8x 3.5" HDD
Max throughput	Up to 12.7 TB/hr
Max throughput (boost)	Up to 27.7 TB/hr
Logical capacity[1]	Up to 11.2 PB
Logical capacity with cloud tier	Up to 33.5 PB
Usable capacity	8TB – 172 TB
Usable capacity with cloud tier	Up to 516 TB
Processor	2x Intel® Xeon®
System memory	192 GB
SSD cache	1.92 TB Cache
Storage as configured	32TBu (8x 8TB 3.5" HDD SAS 12Gbs)
Networking as configured	1x 4-Port 10GBASE-T INTEL 2x 4-Port 10G SFP+ (incl. optics)
Software features	Global Compression™, Data Invulnerability Architecture, including inline verification and integrated dual disk parity RAID 6, snapshots, telnet, FTP, SSH, email alerts, scheduled capacity reclamation, Ethernet failover and aggregation, Link Aggregation Control Protocol (LACP), VLAN tagging, IP aliasing, Boost, Encryption, Extended Retention, Retention Lock, Virtual Tape Library (VTL) (for open systems and IBMi operating environments). Available add-ons include: Boost, Cloud Tier for long-term retention, Cloud Disaster Recovery, and Replicator.
System management	Management Center, System Manager, SNMP, and command line management interface
Data management	NFS v3 over TCP, SMB/CIFS and BoostFS over 1GbE or 10GbE or Fibre Channel, tape library emulation (VTL) over Fibre Channel, and NDMP Tape Server
Dimensions (H x W x D)	8.89cm x 43.44cm x 75.18 cm
Weight	33.1 kg

[1] Logical capacity based on typically 65x deduplication based on additional hardware-assisted data compression. Actual capacity & throughput depends on application workload, deduplication, and other settings.

Titan T3000x Specifications – Expansion for Titan T3000 only

Chassis	3U Rackmount
Disk drives	15x 8TB 3.5" HDD SAS 12 Gbs
Usable capacity	104TB
External interface (host/expansion)	Dual 4 lane 12Gb/s serial attached SCSI II (SAS) ports per Link Control Card (LCC) – one for host and one for expansion
Connector type	SFF-8088 connectors (mini-SAS)
SAS cable length	Up to 5 meters
Dimensions (H x W x D)	13.33cm x 44.45cm x 35.56 cm
Weight	30.8 kg

All systems are available in individual configurations (drives, network connectivity, support options).
Contact us now for your customized offer.

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