TACYON® SX

HA SAN for Medium and Enterprise Business

High Availability And Fault Tolerant Storage
Exceptionally Modular Design
Active/Active Option
Extended Reliability

pursue perfection

HA/DT SAN for Medium and Enterprise Businesses

- The Tacyon® SX-4 represents a modular, highly performing, High Availability and Disaster Tolerant SAN environment, optimized for Medium and Enterprise Business needs. A storage cluster with enhanced Automatic Failover Technology guarantees the operation of the system even in case of a site failure.

Multilevel Cache Technology

- Multilevel Cache Technology: CISC Cache, RISC Cache and SSD Cache* provide excellent performance.

Wide Range Volume Replication

- Data Replication is supported for long distances to save user data to an additional location redundantly.

Monitoring

- Tacyon® SX monitoring provides a multilevel notification system supporting Email as well as SNMP. Hardware based sensors are working in every operation mode also at offline systems.

Substantial Expandability

- Featuring a highly modular design, the Tacyon® SX-4 retains the prospect of expanding at any given point in time and at any rate desired. This facilitates the company to upgrade the Tacyon® SX according to their budget in a timely fashion exactly when needed.

Active/Active*

- Two nodes located in the storage cluster can be used active/active and written to simultaneously and ensure maximum availability, even in case of failure of one side for SAN services.
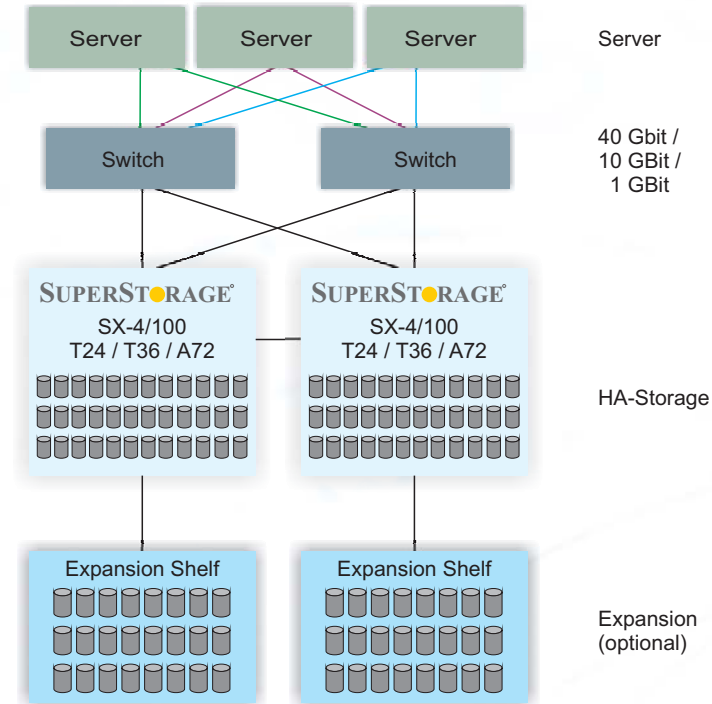
Multi-Tier Investment Protection

- Existing hardware, even from different manufacturers, can continue to be used, Tacyon® platforms can also be used in Tacyon® or PlatinStor® next generation systems. A modular design allows a simple expansion at any given time.

Highly Effective Capacity Utilization

- After building the RAID sets, almost 100% of the net capacity can be used for storing user data.

Server

40 Gbit /
10 GBit /
1 GBit

HA-Storage

Expansion
(optional)

saved! forever

Outstanding Data Integrity

- Each Tacyon® cluster contains two nodes. Each node provides its own storage devices, data integrity is ensured even if one site is totally unavailable.

True Synchronous Mirroring

- Each block being confirmed by Tacyon®, is guaranteed to exist on both nodes, data loss due to failure of one side is thus controlled optimally.

Flexible Connectivity

- All popular media for iSCSI/Ethernet are supported, including iSCSI over 1GBE, 10GBE, 40GBE copper and optical (RJ-45) / SFP+ as well as 8GBit and 16GBit FC.

Enhanced Maintenance

- The Tacyon® LX Management Console is designed to be used locally or remotely over internet. Multilevel rights management increases security and flexibility as well as making overall management easier.

* Dependent on model

TECHNICAL SPECIFICATIONS

Administration

Management	● Webbased GUI ● Secured administrator access ● Multiple management levels ● SSL connection for WebGUI
Tools	● Console-Tools ● Performance-Tools ● Remote access via web for the console ● Remote access also on offline systems
SNMP	● SNMP based monitoring

Network

Management	● Webbased GUI ● Secured administrator access ● Multiple management levels ● SSL connection for WebGUI

Connectivity	● Support of multiple network cards
	  with grouping and failover
	● 2x Gigabit RJ45
	  Up to 22x Gigabit RJ45 (optional) or
	  Up to 20x 10 Gigabit Ethernet (optional) or
	  Up to 10x 40 Gigabit Ethernet (optional)
	● Up to 10x 16 Fibrechannel (optional)

Memory Management

Integration of Resources	● iSCSI Initiator ● Target mode (SAN)
Volumes	● Support for physical volumes with more than 2TB ● Support for logical volumes with more than 2TB
Snapshots	● Multiple Snapshots ● Multiple logical volumes & groups
Extension features	● Online extension of logical volumes ● Online capacity extension ● Spanning of logical volumes over multiple physical volumes
RAID	● RISC RAID 5/6/10/50/60 with 1GB RISC Cache* ● RAID level expansion ● RAID level migration
Security	● Internal synchronous volume mirroring ● External synchronous volume mirroring with failover (iSCSI volumes) ● Asynchronous NAS volume replication over LAN or WAN

iSCSI Features

Security	● IP address restriction for a target ● CHAP user administration ● MPIO support

Monitoring

Monitoring	● Hardware monitoring ● SNMP V2 & V3 ● Email notification ● Log-function ● Remote monitoring via web

Power Security

UPS	● Local UPS Support ● Network-UPS support

NAS features

User management	● Windows Active Directory ● Primary domain controller ● NIS Support ● internal & external LDAP support ● ADS & NIS user (group ID synchronisation) ● User- and group- quota allocation
Filesystem	● Filesystem journaling supported
Antivirus	● Antivirus with scheduling function for automatic scanning ● Update of the Antivirus Database
Supported Backup Agents	● Veritas, EMC Dantz, CA BrightStor

Supported hosts and protocols

Supported Hosts	● Microsoft Windows Server 2016/2012/2008, Linux, Unix, Mac OS 8.0, 9.0, X, 10.4, VMWare, HyperV, XEN
Protocols (SAN)	● iSCSI (Ethernet), FC
Protocols (NAS)	● SMB/CIFS, FTP, Secure FTP, Apple Talk, NFS v3

Backup (NAS)

Basic System	● Local backup ● Integrated backup system ● NAS data mirroring ● Task mechanism with scheduled execution ● Virtual tapes ● Support for tape libraries and autoloader ● Scheduling with predefined automatic backup creation ● Setting of a minimum age for overwriting

Warranty

Basic Warranty	● 3 years spare part exchange in advance/NBD ● Expandable up to 7 years spare part service ● Expandable up to 7 years On-Site Service ● 20 support-tickets for technical assistance included*

Front

Buttons	● On/Off-button

LEDs	● LED indicating operation
	● 24 LEDs for HDD activity (T24)
	  36 LEDs for HDD activity (T36)
	  72 LEDs for HDD activity (A72)

Filter	● Lockable optical front bezel with dust filter

HDD Bays

Hot-swap trays	● 24x 3.5" SAS-3 trays (T24)
	  36x 3.5" SAS-3 trays (T36)
	  72x 2.5'' SAS-3 trays (A72)

Storage Processing Power

Cache	● 32GB CISC cache (up to 1TB) ● 1GB/2GB RISC cache* (up to 4GB)

Licenses

Storage	● License 16TB included* Expansion of License up to 32/48/unlimited
Licensed Features	● Multilevel Cache Technology ● Synchronous Mirroring ● Management ● iSCSI Target Functionality ● iSCSI Initiator Supply ● iSCSI Auto-Failover ● FC Target Functionality ● FC Initiator Supply ● Snapshots ● Email Notification
Optional Features	● Active/Active

Dimensions

Formfactor	● 4U rackmount black
Physical Dimensions	● 437x178x673mm (T24) 437x178x699mm (T36)
Weight	● 437x178x699mm (A72) ~45kg*

* Dependent on model

novarion®

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