SC-30/100-E32

PLATINSTOR® SC

HA Enterprise Storage

Enterprise Reliability and Security Cost Effective HA SAN & NAS Disaster Tolerant Design Native Active/Active

pursue perfection



PlatinStor[®] SC-30

Integrated Storage Virtualization

 The PlatinStor[®] SC is based on an integrated storage hypervisor which excellently combines the enormous benefits of storage virtualization with the requirements of storing the data in the same system. The resulting flexibility and security allows for easy management and separates the storage hardware from the virtual volumes which can be seen by the servers. An integration of existing storage systems into virtualization layers enables centralized management and usage of the advantages of the modern PlatinStor® systems.

Innate Deduplication Technology

· With its fast, resource-efficient and flexible deduplication technology, the PlatinStor SC series significantly optimizes its storage space and thus, in addition to the ICO, comprehensively contributes to an improved TCO of every company.

Advanced Comprehensive Tiering

• Up to fifteen tiering classes ensure optimum matching of the requirements for the performance of PlatinStor[®] SC.

Unified Storage

 A platform for all storage-related applications, presentation of volumes over iSCSI and FC* and full NAS functionality via CIFS, SMB and NFS with native AD integration.

Native Active/Active

 All grid nodes located in the storage can be active and written to simultaneously for one and the same virtual volume and establish maximum availability, even in the event of failure of one side for SAN and NAS services.

Multi-Tier Investment Protection

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

Integrated Capacity Optimization

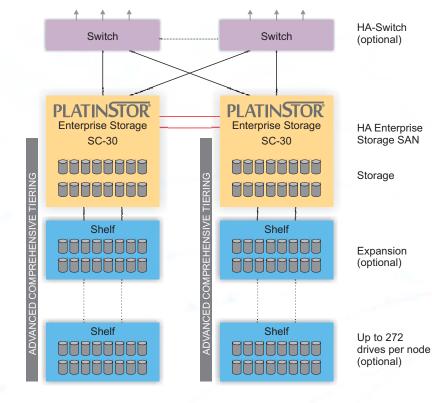
 By Native Thin Provisioning, integrated data flow analysis and optimization, almost 100% of physical memory is available for user data. Data Deduplication is also being supported by default.

Enterprise Security and Reliability

 Unique features such as: Continuous Data Protection, Advanced Snapshots, Enterprise Storage Virtualization, WSAN, Asynchronous Mirroring, Advanced Site Recovery, MPIO and special service levels make PlatinStor® SC one of the safest and most reliable storage systems in the world.

NVMe Tiering

 PlatinStor[®] SC systems incorporate industries fastest non-volatile tiering which is perfectly fit for databases, high performance clusters and other power hungry services and applications.



True Synchronous Grid

 Each block that is confirmed by PlatinStor[®] SC systems is guaranteed to exist on both nodes, data loss due to failure of one side is thus avoided optimally.

Convergent Connectivity

and 32GBit*.

Easy Maintenance

user interface, there is a command line available.



saved! forever

 All popular media and protocols are supported. iSCSI over 1/10/25/40/50/100/200GBit, copper and optical (RJ-45 / SFP +/ SFP28 / QSFP+ / QSFP28 / QSFP56), FC 8GBit, 16GBit

 The PlatinStor[®] SC Management Console provides centralized control of the entire SAN grid, also email notification as well as IPMI enable continuous monitoring, analysis and reporting tools yield a more efficient operation of PlatinStor®SC. In addition to the graphical

Enterprise Security and Reliability

Storage Hypervisor	 PlatinStor[®] includes a full Storage Virtualization as well as the classical storage with one central storage management for all devices inside the storage area
Native Active/Active	 for all devices inside the storage area. PlatinStor[®] provides true native Active/Active. A volume can receive I/Os via each node and path.
Load Redirection	 In case of I/O errors or other failures on one node the load can be redirected via MPIO to the other node without any time loss.
Disaster Tolerance	 Enterprise Disaster Tolerance provides a maximum of data integrity by storing all I/Os on two independent nodes with its own storage arrays. Installation in two fire compartments grants the highest security and availability.
Advanced	 The real time cache mirroring on both nodes guarantees the
Synchronous Mirroring	storage of each I/O event even in the case of unforeseeable circumstances concerning a site or the network.
Write Hole Prevention	 With two separate storage units, a write-hole, as may occur with many systems, is ruled out with certainty, a concomitant comprehensive loss of data is no longer possible.
Performance	
CISC RAID	• Distinctor [®] CC systems are based asially an DAID LUNIs with
CISC RAID	 PlatinStor[®] SC systems are based solely on RAID LUNs with high-performance CISC striping, both I/O and throughput achieve the highest performance values.
CISC Cache	 By matching the CISC caches and read/write buffering, maximum performance for all read and write operations with minimum latency is achieved in the cache.
ACT	Advanced Comprehensive Tiering allows the best use of different performance classes of storage hardware such as SSDs or SAS drives, the data is distributed automatically

- by frequency of use for the different speeds of tiers optimally.
 The use of multiple network paths in parallel with the data MPIO stream split via two nodes allows the maximum bandwidth utilization. Load Balancing The optimized load balancing across two nodes using MPIO maximizes the overall performance of the storage system and the server environment.
- Improved Write Stream Optimization groups and sorts the data stream and optimizes it for the write operation on the memory hardware, and reduces the movements of the head IWO of a disk drastically.

Unified Storage

SAN NAS	 PlatinStor[®] SC20/SC24 supports all relevant SAN protocols (iSCSI / FC*) on all popular media (1/10/25/40/50/100/200 Gigabit Ethernet and 4/8/16/32 Gigabit Fibre Channel). File services are presented by CIFS, SMB and NFS, the PlatinStor[®] SC represents a universal storage.
Network	
Convergent Connectivity	 Universal support for all common transmission media and connections provides unprecedented comfort in the planning and establishment of a new storage environment, as well as reuse of an existing one. These include 32Gbit Fibre Channel* (LC), iSCSI GBit (RJ-45), and 10/25/40/50/100/200GBit iSCSI (RJ-45, SFP+, SFP28, QSFP+, QSFP28, QSFP56)

Storage Space Optimization and Efficiency

- Native Thin Provisioning Using intelligent thin provisioning only so much space from the pool is actually reserved as in fact is required. In this (NTP) way, multiple servers or partitions reserve the physical space available for real demand dynamically, optimal utilization is guaranteed.
- The Global Cloud Gateway provides the technology for integration of storage space in the cloud, and flexibility in the Global CloudGateway . (GCG) future is granted.

Enterprise Flexibility

Managed Storage-Pools	 Via intelligent storage pooling resources can be added or removed during operation. Pools are the basis for virtual volumes, they supply the foundation for maximum flexibility in dealing with the storage media at all represented levels.
Pass Through Volumes	 The possibility of passing through existing volumes from present infrastructure ensures a smooth transition into a high-performance storage system through Cascade Cache and Grid technologies.
Advanced Storage Migration	 By means of using the pooling technology and the possibility of adding existing systems a migration can be made during operation, and full advantage of PlatinStor SC can be taken.
Vendor Independent Storage Integration	 The standardization of PlatinStor[®] SC allows integration of common storage hardware from most vendors based on FC and iSCSI with all the PlatinStor[®] SC media.
Innate Deduplication	• Fast and flexible deduplication based on virtual volumes is also part of the basic features of the PlatinStor SC 30 series.

Maintenance ar	nd Management
Native AD Support	 With Native Active Directory support the PlatinStor[®] SC allows not only the importing of users but it can be completely integrated into the Active Directory, thereby releases can be centrally managed using the domain controller.
Storage Remote Management	 The management of all nodes via a central management can be performed remotely via the Storage OS respectively through a hardware connection on IPMI standard.
Hardware Monitoring	A series of sensors supply an overview of the state of the system, both directly through implemented hardware monitoring as well as via OS-based monitoring. By e-mail, status and warning messages are sent to an administrator, this is possible hardware based as well as on OS level.
Analysis & Reporting	 To analyze different scenarios, reports can be created, this optimizes the planning and administration of the entire storage area.
Advanced Centralized Management	 The storage grid can be easily managed by a central management console.
Resources	
Bays Capacity CISC Cache	 32x E1.S internal hot-swap bays NVMe With optional shelves up to 272 HDDs/SSDs expandable Up to 1PB expandable per node 384GB (SC-30) Up to 6TB expandable
Snapshot	
Features	 Create snapshots Promote to full snapshot (create a complete image) Update of the image Update of the source (revert to an earlier snapshot)

Warranty

- Base warrranty 3 vear On-Site service level NBD
- 3 year On-Site service level NBD
 Upgrade to 7 years On-Site Service (optional)
 Upgrade to 7 years On-Site Service 24x7/4h Time to Fix** (optional)
 PlatinStor[®] OS Support 24x7/4h for 3 years included

Licenses

- Storage
- License 4TB includedExpansion of License up to 1PB available Licensed Features

 - Virtual Disk Pooling
 Cascade Cache Technology

 - Native Thin Provisioning
 Advanced Synchronous Mirroring
 - Easy Centralized Management
 - iSCSI Target Functionality
 iSCSI Initiator Supply

 - Advanced Snapshots
 Pass-through Volume Presentation
 Advanced Storage Migration

 - Real-time Tracking
 Analysis & Reports

 - Microsoft System Center Pack
 VMware vSphere Plug-in
 - Continuous Data Protection (CDP)
 - Advanced Comprehensive Tiering
 Asynchronous Replication
 - Advanced Site Recovery Data Deduplication

Dimensions

- Formfactor Physical Dimensions Weight
- 1U rackmount black
- 437x43x762mm
 ~25kg (dependent on configuration)



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