

Storage System - 1 unitate

Tip de Sistem	Echipament de stocare de date, "Enterprise Tier 1 storage". Cu posibilitatea de a utiliza integra în configurația
Disponibilitate	High availability 99.99%
Chassis	Rackmount (device must include all necessary components for install into 19" rack)
Number of controllers	2
Type of Controllers	Active-Active Symmetric redundant controllers, automatically rebalance workload independent of the LUN or RAID Group ownership Battery-backed cache de-staged to flash upon power loss.
CPU	Min 4 x CPUs (ASIC and/or x86) per system
Controller cache capacity	At least 64GB Cache per controller pair
Flash Cache	Support "Flash Cache" capabilities, min 512Gb
Number and type of host interfaces supported	16Gb/s Fibre Channel Host Ports - 12 ports 10Gb/s FCoE Host Ports - 4 ports 10Gb/s iSCSI Host Ports - 4 ports 10Gb/s Ethernet Adapters - 4 ports
Number and type of host interfaces required	4 ports x 16Gb/s Fibre Channel Host Ports with SFP installed (2 ports per controller)
Replication	Replication supported through both FC and/or Ethernet (min 1Gb Ethernet port per controller)
Capacity supported	Maximum Initiators Supported: 2048 Number of Disk Drives: max. 240 Max Raw Capacity: 980Tb Max number of snapshots: no limit Max Volume (LUN) size \$ 64Tb
Drives supported	SSD SAS SFF, SAS SFF, SAS LFF (NL)
Drives included	16 x 1.8TB SAS 10k 12 x 4TB NL 7.2K
RAID supported	0, 1, 5, 6 or equivalents, with deferent data to parity ratios. Possibility to have multiple RAID levels on single HDD for better capacity utilization. If offered storage system do not support it, than additional 20% capacity per each disk type must be included
Spare drive mechanism	Distributed sparing, no dedicated spare drive, extra RAID protection that prevents data loss as a result of double disk failures. If storage requires spare drives, than min 2 x additional drives should be offered per drive enclosure.
Features included	Non-Disruptive Capacity Expansion (capacity can be expanded by adding new disks or another storage shelf to an existing array), Automated, non-disruptive capacity rebalancing, Online RAID group expansion/migration, LUN snapshots, LUN Clone, Thin Provisioning, Thin Persistence, Thin Conversion, Thin Deduplication, Zero Reclaiming, Possibility to create non-duplicative snapshots, Service levels with QoS controls
Features supported	Remote Synchronous/Asynchronous replication, Remote Synchronization via IP is obligatory and dedicated port is preferred. Data At Rest Encryption
System Maintenance	Hot plug expansion and replacement: Controllers, enclosures.

	drives, fans, I/O modules. Online firmware/OS upgrade
Redundancy	Redundant power supplies, batteries and fans. The storage architecture should be without any single point of failure in the system (valid for hardware and software).
Management	1x Ethernet Port per controller for Management Administration: GUI, CLI
Cables	Power cords included, OM4 Optical Patch Cables 5m for all installed FC ports
Licenses	All licenses for all necessary features need to be included
Warranty	Three (3) years on site, parts and configuration.

