



Simply Better Storage.

Intelligent Clustered Storage Solutions



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www.scalecomputing.com

To purchase, call Scale
at 877-SCALE-59

Perfect for Virtualization,
Exchange, Remote Offices,
Disk Backup and Archiving

D A T A S H E E T

Scale's ICOS (Intelligent Clustered Operating System™) is the next step in the evolution of unified storage. Because Scale's ICOS is a clustered rather than controller-based architecture, clusters contain a minimum of three nodes that provide redundancy and data protection in the rare event of a drive or node failure. Scale's entire suite of storage products is designed to reduce your costs, increase control, and make storage more convenient to manage.

All of Scale's products offer the following features:

Technical Highlights

Data Protection	All data is mirrored and striped across the nodes in the cluster
High Availability	All data is mirrored on at least 2 nodes. This provides continuous uptime if a drive, network port, power supply or even an entire node stops working
Scalability	Grow your storage in increments from 1 TB to 8 TB raw capacity
Compatibility	Nodes of different sizes can all participate in the same cluster and be used at full capacity. (Limitation: 1 node cannot be bigger than 50% of the total cluster capacity)

Storage Area Network Support

SAN Protocols	iSCSI
Max LUNs	255
Hosts Supported	Any standards-compliant iSCSI Initiator (VMware, Windows, Linux, MacOS)
Security	IP based access control, CHAP Authentication
High Availability	Virtual IP failover

Network Attached Storage Support

NAS Protocols	NFS, CIFS
SECURITY / NFS	IP/Host based access control
SECURITY / CIFS	ADS Authentication (Kerberos)
SECURITY / High Availability	Virtual IP Addresses are used to serve NAS protocols. In the case of a node/Ethernet failure another node will pick up the down IP and continue communication with the client without losing connectivity

Snapshots

System Snapshots	True copy-on-write snapshots – low overhead, snapshots store only changed data Flexible snapshot and replication allocation – no need for dedicated snapshot volumes or reserved space
Recovery	Any LUN/Share from any historical snapshot can be restored as a working copy

Replication

Efficiency	Copies changes at a block-level (minimizing time and bandwidth)
Consistency	Copies point in time snapshots to target cluster
Recovery	Any LUN/Share from any available historical snapshot can be restored on the target cluster as a working copy
Granular Replication	Pick and choose what LUNs and shares to schedule for replication
Scheduling	Replication can be scheduled in 15 min, 30 min, 1 hour, 2 hour, 4 hour, 6 hour, 8 hour, 12 hour or daily intervals
Multi-site	Replication can be scheduled to or from up to 5 other clusters simultaneously
Management Interface	Serial Console and web browser-based Administrative GUI over https
Notification Methods	Email, Syslog, Web Administrative GUI
Remote Support	Administrator controlled access to the cluster by Scale Support via SSH
Upgrades	Upgrades are secure and using the Maintenance tab, you can see at a glance what the latest update is

Scale offers three families of storage products for all your storage needs: the N, S, and M Series. For any series, the starter cluster is comprised of a minimum of three nodes.

N-Series

Our most cost-efficient starter cluster offers enterprise features and availability. The N05 Starter Cluster includes three 1U height storage nodes and provides 1.5 TB. Add additional N05 nodes now or later and grow half a terabyte at a time.

N-Series Product	Raw Capacity
N05 Starter Cluster	3 TB
N05 Expansion Storage Nodes	1 TB

S-Series

Our most flexible product line offers multiple storage node capacities. If you are looking to maximize storage capacity at the lowest price, use the highest capacity starter cluster that meets your needs and add expansion storage nodes now or later to meet your capacity needs and growth.

S-Series Product	Raw Capacity
S1 Starter Cluster	6 TB
S1 Expansion Storage Nodes	2 TB
S2 Starter Cluster	12 TB
S2 Expansion Storage Nodes	4 TB
S4 Starter Cluster	24 TB
S4 Expansion Storage Nodes	8 TB

M-Series

Our highest performance product line offers multiple storage node capacities, drive technologies and cache options. All offer datacenter-class power and network redundancy.



M-Series Product	Raw Capacity	Cache
M1 Starter Cluster	6 TB	36 GB
M1 Expansion Storage Nodes	2 TB	12 GB
M2 Starter Cluster	12 TB	36 GB
M2 Expansion Storage Nodes	4 TB	12 GB
M4 Starter Cluster	24 TB	36 GB
M4 Expansion Storage Nodes	8 TB	12 GB
M09x Starter Cluster	5.4 TB (SAS)	36 GB
M09x Expansion Storage Nodes	1.8 TB (SAS)	12 GB
M12x Starter Cluster	7.2 TB (SAS)	36 GB
M12x Expansion Storage Nodes	2.4 TB (SAS)	12 GB
R1 Starter Cluster	6 TB	12 GB
R1 Expansion Storage Nodes	2 TB	4 GB
R2 Starter Cluster	12 TB	12 GB
R2 Expansion Storage Nodes	4 TB	4 GB
R4 Starter Cluster	24 TB	12 GB
R4 Expansion Storage Nodes	8 TB	4 GB