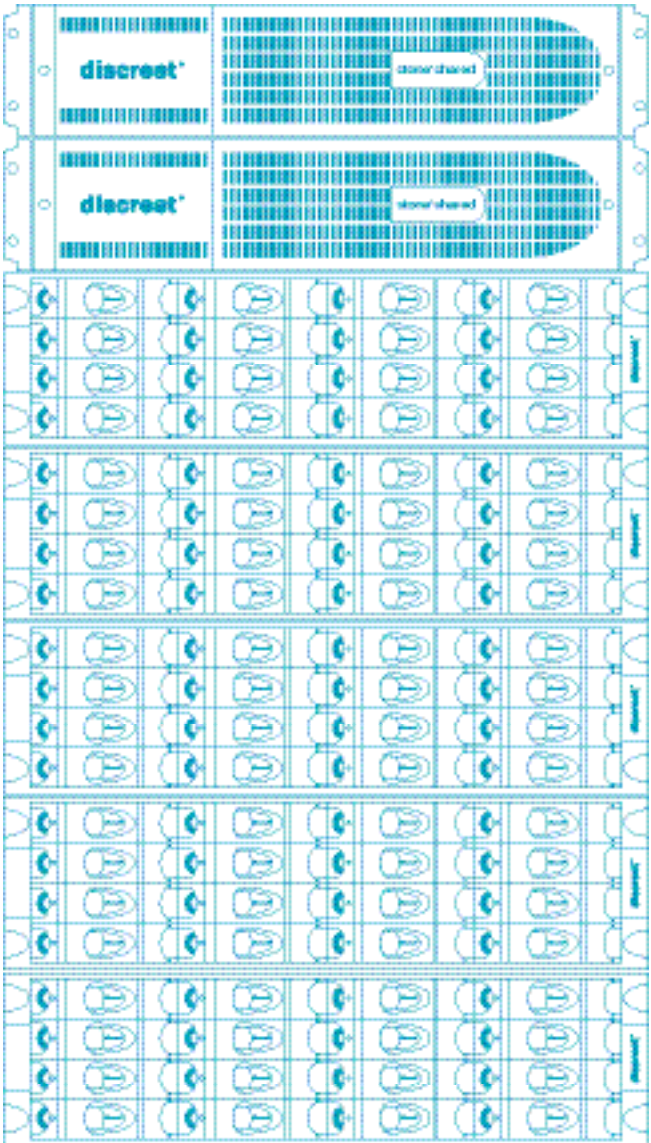# stone® shared
discreet*

stone® **shared** is Discreet's high-value, high-bandwidth, real-time, storage area network solution ideal for multi-user collaboration on uncompressed film, HDTV and SD projects. The **stone shared** off-the-shelf solution is preconfigured for facilities with 2-5 seats, but is also available as a custom solution that is fully scaleable.

Designed to provide the necessary bandwidth to support the most demanding HDTV and digital intermediate workflows, **stone shared** is easy to configure and manage, greatly reducing the complexity of traditional SAN solutions. **stone shared** key benefits include increased system performance and productivity, increased collaboration and reduced file duplication. **stone shared** utilises an open, non-application-specific shared file system for easier integration within the facility.

stone shared is available in the following configurations:

Configuration	Storage Capacity	Number of clients
stone shared 4-port (800MB/s theoretical)	5, 10 or 21 TB*	2-5 real time clients (additional ports available for scaling)
stone shared 8-port (1600MB/s theoretical)		2-5 real time clients (additional ports available for scaling)
stone shared Custom configurations Discreet Professional Services required	The SAN is not constrained by technical limitations, but by facility workflow and performance requirements. Each SAN will be sold with performance metrics to ensure client satisfaction.	

* Can be scaled higher in custom configurations - requires Discreet Professional Services

Main Components

- SSH8500 appliance based on DataDirect™ Networks Silicon Storage Appliance (S2A) technology
- SGI® Origin 350 metadata and file server*
- SGI InfiniteStorage shared filesystem CXFS
- Fibre-Channel storage units (JBOD drives and enclosures)
- Adapters, Fibre-Channel switches and cabling

Silicon Storage Appliance Features

stone shared utilises SSH8500 appliances which provide consolidated and fully integrated SAN functionality in a single, powerful, easy-to-manage and intelligent device. The SSH offers a fully pipelined, parallel processing architecture designed to deliver a highly-reliable SAN storage solution that is both easy to install and manage and easy to scale in capacity and performance. Its zero-bottleneck architecture removes the complexity, congestion, latency and contention of switched fabric SANs.

- Single or dual 2U SSH with four or eight 2Gb/s ports
- 20 back end Fibre-Channel loops
- Up to 148 disk drives supported in standard configurations*
- 5, 10, or 21 TB Fibre-Channel disks capacity in standard configurations*
- Sustained Performance with random access up to 1.0 GBytes/sec per couplet*
- Full Fibre-Channel Duplex Performance on every port
- No performance penalties in degraded mode operation, Very fast rebuild rate
- 1 Gbyte/sec+ individual LUNs without host-based striping

CXFS Features

stone shared features SGI's InfiniteStorage CXFS shared file-system. CXFS is a powerful cross-platform file-system capable of delivering superior performance while scaling massively to meet the most demanding needs of digital media production. Key characteristics of the CXFS shared file-system include:

- High performance: capable of sustaining extremely high data rates (read/write)
- Mediation and management of concurrent shared file access
- High workload: multiple processes on multiple hosts directly reading/writing the same file
- Guaranteed Rate I/O (GRIO): guarantees required bandwidths to the user/application**
- Easily scalable to hundreds of terabytes

Other Features

Integrated software features with no need for external software. Key features include:

- LUN mapping and masking by WWN
- Port Zoning
- Real-time Data Verification
- Background Data Scrubbing
- LUN in Cache
- Place Holder LUNs
- Intelligent Stream Detection
- Read-only LUNs
- Advanced AV Modes

Optional Software Features

In addition to the standard features, the following features are available as an option:

- Java-based GUI
- System Management Console with SNMP Trap Display utility
- Logging
- Remote Administration Utility
- Telephone Fault Notification Utility

Standard Communication

Ethernet Telnet, Ethernet SNMP, RS-232 Serial, SES in-band, Management API

*Custom configurations are fully scaleable. Contact Discreet for a solution tailored to your needs.
not currently certified for **stone® shared

stone shared Technical Specifications

stone shared	FC 16-Bay Chassis	
Maximum Disk Drives	148*	
Maximum Global Hot Spares	10*	
Maximum Number of Disk Chassis	10*	
Minimum Number of Disk Chassis	5	
Maximum Total Capacity (Includes Parity and Spares)	21 TB*	
Sustained Random Access Throughput	1.0GB/s*	
Maximum Number of Host Connections	5*	
Disk Drives Supported	FC: 73 GB, 146 GB	
Disk-Side FC Ports (singlet/couplet)	10 / 20	
Host-Side FC Ports (singlet/couplet)	4 / 8	
Full Duplex 10/100BaseT Onboard (singlet/couplet)	1 / 2	
Redundant Hot Plug Cooling Fans (singlet/couplet)	2 / 4	
Redundant Hot Plug Power Supplies (singlet/couplet)	4 / 8	
Storage Chassis Specification		
Interface	2Gb/sec FC-AL	
Number of FC Loops	6	
Maximum Number of Drives per Chassis	16 Low-Profile FC	
Redundant / Hot Swappable Power Supplies	2	
Redundant / Hot Swappable Cooling Fans	2	
Hot Swappable Drives	Yes	
Maximum Drives per Disk Loop	112	
19" Rack Cabinet Specification - RK 3800		
Rack Unit Height	38 RU	
AC Power	Single phase 110V/230V	
Current	60A	
Number of Outlets (internal)	20	
Dimensions H x W x D inches (centimeters)	74.5 x 22 x 30 in (133 x 56 x 76 cm)	
Weight	265 lbs (120 kg)	
Environmental Specifications	**singlet**	**couplet**
AC Power / Maximum Current	4.0A @ 110VAC, 1.9A@230VAC	8.0A @ 110VAC, 3.8A@230VAC
AC Power / Average Current	3.0A@110VAC, 1.5A@230VAC	6.0A @ 110VAC, 3.8A@230VAC
Operating Environment	5 to 35C	5 to 35C
Non-Operating Environment	-10 to 50C	-10 to 50C
Thermal Rating	1500 BTU	3000 BTU
Dimensions H x W x D inches (centimeters)	3.5 x 19 x 25 in, 2U High (8.9 x 48.3 x 63.5 cm)	7 x 19 x 25 in, 4U High (17.8 x 48.3 x 63.5 cm)
Weight	40 lb (25.2 kg)	80 lb (50.4 kg)
Drive Enclosure - 16-bay Chassis		
AC Power / Maximum Current	4.0A@110VAC, 1.9A@230VAC	
Operating Environment	10 to 35C	
Non-Operating Environment	0 to 50C	
Thermal Rating	1600 BTU	
Operating Acoustic Noise	<6.0 Bels	
Dimensions HxWxD inches (centimeters)	5.25x17.5x19.7 in, 3U High (13.34 x 44.45 x 50 cm)	
Weight	81lb (37kg)	

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UPS	UPS - SDD	UPS - SDDHA
Maximum Input Current	30A	50A
Input Voltage	single phase 208VAC	single phase 208VAC
Dimensions H x W x D inches (centimeters)	12.25 x 17.5 x 25 in, 7U High (31.2 x 44.45 x 63.5 cm)	52 x 24 x 27 in (132.08 x 60.96 x 68.58 cm)
Weight	350 lbs (159kg)	759lbs (345kg)
Output Voltage	110VAC	110VAC
Number of Outlets	14	20
Number of Inputs	1	1, hard wired

Certifications	UL, CE, CUL, C-Tick, FCC
Host Connectivity	**Qualified HBAs**
Windows XP (SP1)	QLogic
Silicon Graphics IRIX (6.2, 6.3, 6.4, 6.5)	QLogic
Linux Red Had Enterprise**	QLogic
Mac OSX**	Apple
Fabric Connectivity	QLogic

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Discreet Technical Support
Discreet Technical Support is here to help you increase your competitive advantage and protect your investment. Our mission is to support you every step of the way with a comprehensive support program designed to best meet your particular needs. Discreet's highly qualified technical engineers have in-depth experience supporting high-end digital systems and they are well versed in all aspects of system setups and configurations.

Learn more at *www.discreet.com/support*

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