EtherDrive® SAN Manager

GUI for EtherDrive Storage

Coraid EtherDrive redefines storage economics by delivering simplicity, high performance, and reliability, at a 5-8x price/performance advantage over Fibre Channel and iSCSI.

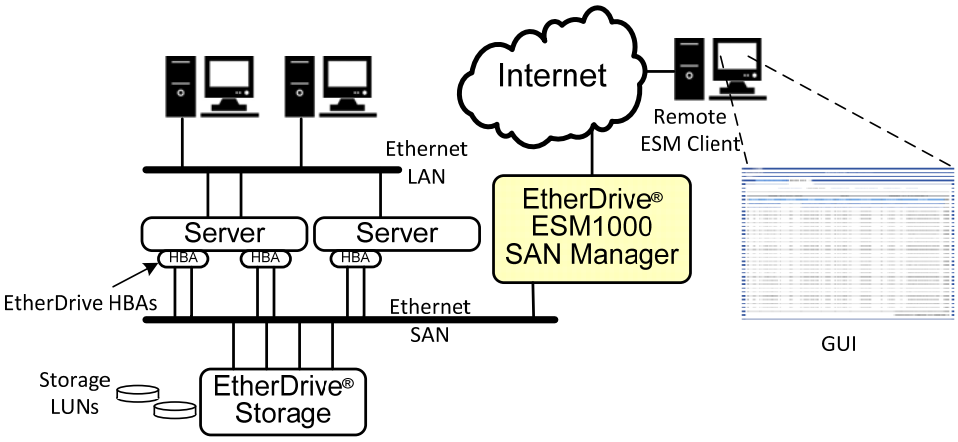
EtherDrive SAN Manager Appliance

Highlights

- The EtherDrive® SAN Management (ESM) System provides a single control and monitoring interface for EtherDrive storage.
- Client software provides a single Graphical User Interface (GUI) for all EtherDrive appliances on an Ethernet SAN.
- Users can monitor status and perform all configuration and control from any location with a LAN/WAN connection to the ESM appliance.
- ESM automatically discovers all EtherDrive devices on the SAN and continuously monitors LUN status and performance.
- Remote access to the ESM is login protected.
- A single ESM appliance can monitor and control more than 1,000 separate EtherDrive devices on the SAN.
- SAN alarms are reported via email and syslog.

Access

- Client software for Windows, Mac OS X and Linux is included with the ESM appliance.
- If ESM is accessible via a WAN connection, the client GUI can access the ESM from anywhere on the internet.
- Remote access to the CLI interface is possible using SSH connections
- The RESTful control interface is provided for HTTP programmatic scripting.
- Multiple client sessions can simultaneously access a single ESM appliance.
- *Multi-tenant access is provided, to partition view and control.
- ESM enables updates to EtherDrive CorOS firmware for devices on the SAN.
- *SNMP alarm interface is supported.



Functional Specifications	
Operation	With the client GUI or via SSH or REST connection users can: 1. Provision new storage LUNs and make them available to servers connected to the SAN 2. Monitor status of each LUN and each EtherDrive appliance 3. Monitor performance of each LUN 4. Perform maintenance including CorOS firmware updates
Provisioning	EtherDrive storage appliances can be added or removed from the SAN and RAID configuration completely controlled using the simple user interface. Provisioning can also be performed using an SSH connection via the CLI or using HTTP and the RESTful interface.
Status Monitoring	Each EtherDrive appliance on the SAN is continuously monitored to detect disk and appliance hardware failures. Alerts are displayed on GUI clients, email messages, RESTful connections, syslog servers and *SNMP hosts.
Performance Monitoring	To aid in system troubleshooting, ESM provides valuable performance information for each LUN and each interface from all EtherDrive devices on the SAN. This data is displayed on authorized client sessions, and RESTful interface clients.
Maintenance	Typical maintenance tasks including alarm reporting, disk failure detection, RAIDShield and SMART alert messages, and CorOS firmware updates are all manageable from the ESM user interface, SSH and REST interface.
RESTful Interface	ESM provides access to its control and monitoring features via HTTP using the Representational State Transfer (REST) model via HTTP GET and POST operations. HTTP basic access authentication is provided for each user name. All GET and POST data is formatted in JavaScript Object Notation (JSON). Message follow one of four basic patterns; Resource Lists, Labeled GET Data, Unlabeled GET DATA and POST Data.
*Multi-tenant Access	ESM provides restricted view and control access of users to allow multi-tenant operation of EtherDrive SAN devices and LUNs. Secure access limits and restrictions are defined by the system administrator and assigned to each login user name.

Hardware Specifications	
WAN interface	One RJ45, 1Gigabit Ethernet
SAN interface	One RJ45, 1Gigabit Ethernet
Console Port	RS232, KVM
Power	100-240 VAC, 50-60Hz, < 200Watts power, < 682 BTU heat load
Dimensions	1U - rack mount, 1.75”x17”x19.5”, 20 lbs.

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