

Save

## Versatile, Disk-Based Backup and Recovery Appliances

# REO™ 4500

with Protection OS™

# REO™ 4500c

Unlike tape solutions and other disk-based back up systems, only the REO SERIES® includes REO Protection OS™ software, which embeds data protection intelligence. It also provides a core set of volume and device virtualization, management, and connectivity features found only in REO SERIES appliances. When configured as virtual tape, backup data is written sequentially and in large blocks, which results in greater back-up performance. In addition, REO SERIES virtual tape appliances are not susceptible to disk fragmentation, viruses, manual volume management, hackers, ongoing tuning, or file system overhead - all are common problems found with general purpose disk-based backup systems.

And only REO SERIES includes patent-pending Dynamic Virtual Tape™ (DVT) technology, which ensures that no storage capacity is wasted while eliminating the manual effort and guesswork of sizing, configuring, provisioning, and deleting virtual tape cartridges. With DVT, users can create virtual tape cartridges that automatically expand or shrink to match the exact capacity requirements of the backup operation.

REO 4500 appliances are compatible with all popular open systems and Windows-based backup software, physical tape drives and libraries and easily connect to existing Ethernet (iSCSI) and Fibre Channel networks for seamless integration without changes to existing backup processes. An intuitive and robust browser-based graphical user interface makes REO easy to configure and manage. Users can proactively monitor REO appliances and receive e-mail alerts for instant notification of status changes.

### REO SERIES 4500 Key Benefits:

**Flexible Functionality** – easily configured as a virtual tape library, standalone virtual tape drives, and/or disk volumes (LUNs).

**Performance** – when configured as virtual tape, data is written sequentially and in large blocks for fast, reliable backup. Utilizes direct access disk technology for nearly instantaneous data recovery.

**Easy Integration** – compatible with all popular open systems and Windows-based backup software, physical tape drives or libraries and easily connects to Ethernet (iSCSI) and Fibre Channel networks.

**REO Protection OS** – software embedded in all REO SERIES appliances. Provides data protection intelligence including virtualization, management, and connectivity. Also enables enhanced features via add-on software PACs (e.g. REO Multi-SitePAC).

**Dynamic Virtual Tape** – virtual tape cartridges are automatically sized to match backup job so no capacity is wasted. Eliminates manual effort and guesswork of sizing, configuring, and provisioning virtual cartridges.

**Easy to Setup and Manage** – robust web-based interface provides simple step-by-step setup and proactive monitoring. Integrating disk into your backup strategy has never been easier!

For more than 25 years, businesses have trusted Overland Storage to protect their most valuable information with industry-leading backup and recovery solutions. Overland's family of disk and tape solutions, combined with our superior service, support and quality focus, ensure that your data is automatically safe, readily available and always there.



- Enables fast, reliable backup and recovery
- User-defined functionality:
  - Virtual Tape Library
  - Virtual Tape Drives
  - Disk Volumes (LUNs)
- Up to 27TB raw capacity, 45TB useable compressed virtual tape capacity
- REO Protection OS™ software
- Dynamic Virtual Tape
- Compatible with all popular backup software
- Ethernet (iSCSI) and Fibre Channel connectivity

### REO 4500c Hardware Compression:

The hardware compression option effectively doubles the useable virtual tape capacity of the REO 4500 and connected expansion arrays, making it the most cost effective way to store more backup data on disk. The combination of hardware compression and Dynamic Virtual Tape ensure REO is the most efficient and cost effective VTL available.

### REO Multi-SitePAC™ Software Option:

Automates the manual process of protecting remote data without requiring changes to existing backup systems or software. Multi-SitePAC seamlessly transfers backup data in virtual tape format from a remote REO to a central REO, where it can be consolidated, managed and archived.

Not available on the 4500c model.

**Overland**  
STORAGE®

## REO SERIES - CONFIGURATION EXAMPLE:



## SPECIFICATIONS

### FUNCTIONALITY

User-defined as a tape library with up to 32 virtual tape drives, 512 virtual cartridges, six partitions and/or any combination of up to 64 standalone virtual tape drives and/or disk volumes (LUNs).

### CAPACITY\* (SATA DISKS)

REO 4500 base system ships with 12 drives configured as RAID 5 with a hot spare. Up to two expansion arrays can be added and adapt the configuration of the base system.

Base system:  
Raw / RAID 5  
Virtual Tape Compressed (4500c)

{12} 250 GB 3 TB / 2.5 TB - OR - {12} 500 GB 6 TB / 5 TB - OR - {12} 750 GB 9 TB / 7.5 TB 10 TB 15 TB

Expansion arrays:  
Two Expansion Arrays (up to 2 total):  
Raw / RAID 5  
Virtual Tape Compressed (4500c)  
Maximum Capacity (base system with two expansion arrays):  
Total Raw / Total RAID 5  
Total Virtual Tape Compressed (4500c)

{12} 250 GB 3 TB / 2.5 TB - OR - {12} 500 GB 6 TB / 5 TB 10 TB - OR - {12} 750 GB 9 TB / 7.5 TB 15 TB  
9 TB / 7.5 TB - OR - 18 TB / 15 TB 30 TB - OR - 27 TB / 22.5 TB 45 TB

### MULTI-STREAM PERFORMANCE

UP TO 220 MB/sec.

### STANDARD SOFTWARE FEATURES

REO Protection OS software with Dynamic Virtual Tape, disk virtualization, browser-based management, SNMP, and e-mail alerts

### STANDARD HARDWARE FEATURES

19-inch rack-mount enclosure, hot-plug disk drives, redundant hot-plug power supplies, redundant cooling, dual GbE data ports, 10/100 management port

### EXTERNAL INTERFACES

Data  
Management  
Expansion

Two, Gb Ethernet (iSCSI) ports (RJ45); Two, 4 Gb Fibre Channel Ports (optional)  
One Ethernet management port (RJ45)  
Infini Band Connector for REO 4500 Expansion Arrays

### RAID SUPPORT

RAID 5 (with or without hot spare)

### POWER REQUIREMENTS

Voltage  
Frequency  
Current  
Power Cord Connector (US)  
Power Consumption

100 to 240 VAC  
47 to 63 Hz  
100 VAC 4.94A - 240 VAC 2.06A  
IEC 60320  
418 W Avg; 489 W Pk (1690BTU/HR)

### ENCLOSURE

Dimensions  
Weight (unpackaged)

3.5 x 17.5 x 29 inches (8.9 x 44.4 x 73.6 cm)  
2U rackmount  
60 lbs. (27.21 kg)

### ENVIRONMENTAL REQUIREMENTS

Humidity  
Temperature  
Altitude  
Shock  
Vibration

OPERATING	NON-OPERATING
20-80% non-condensing	10-95% non-condensing
10-40° C	-40 to 60° C
-1000 to 10,000 ft	1000 to 10,000 ft
5 G	10 G
.25 G	1.0 G

### AGENCY APPROVALS

NRTL (US & Canada), CE, VCCI Class A/CISPR PUB 22 (Japan), BSMI (Taiwan)

### INTEROPERABILITY

Contact Overland Storage or visit [www.overlandstorage.com](http://www.overlandstorage.com) for the most current iSCSI, Fibre Channel, and backup software compatibility matrices

### STANDARD WARRANTY

Standard warranty includes 3-year Spares XchangeNow® and 90-day REO Protection OS support via telephone, e-mail, and Web. Extended service options available.

\* One TB equals one trillion bytes. Expansion Array specifications available on separate datasheet.

Compliments of: **Overland STORAGE®**

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