Save

Versatile, Disk-Based Backup and Recovery Appliance

REO 9100

REO® 9100
with Protection OS™

Exponential data growth, shrinking backup windows, unreliable backups and the need for fast data recovery combined with new government regulations make data protection a challenge for any IT professional. The Overland REO® 9100 Disk-Based Backup and Recovery Appliances solve these challenges by providing fast, reliable data backup and recovery while reducing operating costs. Easily configured as a virtual tape library, standalone virtual tape drives, and/or disk volumes (LUNs), the REO can be easily deployed and modified to adapt to changing data protection requirements.

Unlike tape solutions and other disk-based backup 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 backup 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 9100 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 9100 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.
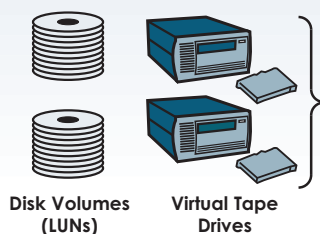
- Enables fast, reliable backup and recovery
- User-defined functionality:
  - Virtual Tape Library
  - Virtual Tape Drives
  - Disk Volumes (LUNs)
- Up to 72 TB raw capacity
- REO Protection OS™ software
- Dynamic Virtual Tape
- Compatible with all popular backup software
- Ethernet (iSCSI) and Fibre Channel connectivity

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.
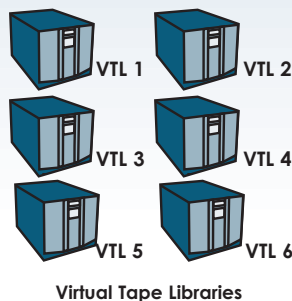
Overland
STORAGE®

REO SERIES - CONFIGURATION EXAMPLE:

- User definable - up to 64 virtual tape drives and/or disk volumes (LUNs)
- Dynamic Virtual Tape functionality

Disk Volumes (LUNs)   **Virtual Tape Drives**

AND/OR

VTL 1   VTL 2
VTL 3   VTL 4
VTL 5   VTL 6

Virtual Tape Libraries

- Virtual Tape Libraries:
  ◦ up to 32 virtual drives
  ◦ up to 512 virtual cartridges
  ◦ up to six library partitions
- Dynamic Virtual Tape functionality

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 9100 base system can be purchased with 12 or 24 disks (upgradeable to 24 disks). All base and expansion arrays ship with RAID 5 with hot spare (factory default).

Base system: Raw RAID 5	(12/24) 500 GB 6/12 TB 5/10 TB	- OR -	(12/24) 750 GB 9/18 TB 7.5/15 TB	- OR -	(24) 1 TB 24 TB 20 TB
Expansion arrays: Four Expansion Array (up to 4 total): Raw RAID 5	16 (500 GB) 8 TB 7 TB		- OR -		16 (750 GB) 12 TB 10.5 TB
Maximum Capacity (base system with four expansion arrays): Total Raw Total RAID 5	44 TB 38 TB		- OR -		72 TB 62 TB

MULTI-STREAM PERFORMANCE	UP TO 600 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 RAID controllers, 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) Two UltraSCSI 320 ports (VHDCI) for REO 9100 Expansion Arrays
ARRAY CONTROLLER	Dual RAID controllers
RAID SUPPORT	RAID 5 (with or without hot spare)
POWER REQUIREMENTS Voltage Frequency Current Power Cord Connector (US) Power Consumption	90 to 120 VAC, 200 to 240 VAC+/-10% 47 to 63 Hz 6A @ 115 VAC, 3A @ 230 VAC; 20A max at start-up IEC 60320 C13 connectors, four per unit Steady state 500 W; Peak 525 W (fully populated)
ENCLOSURE Dimensions Weight (unpackaged)	8.75 x 19.0 x 27.0 inches (22.2 x 48.3 x 68.6 cm) 5U rackmount 130 lbs. (59 kg)

ENVIRONMENTAL REQUIREMENTS Humidity Temperature Altitude Shock Vibration	**OPERATING** 20–80% non-condensing 10–40° C -984 to 10,000 ft (-300 to 3,048 m) 10 G (11 ms half sine pulse) .25 G swept sine (5–250–5 Hz) no errors	**NON-OPERATING** 10–95% non-condensing 40 to 60° C 984 to 30,370 ft (-300 to 12,000 m) 20 G (11 ms half sine pulse) 1.0 G swept sine (5–250–5 Hz)

AGENCY APPROVALS	NRTL (US & Canada), CE, VCCI Class A/CISPR PUB 22 (Japan), BSMI (Taiwan)
INTEROPERABILITY	Contact Overland Storage or visit 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.