

# RELDATA

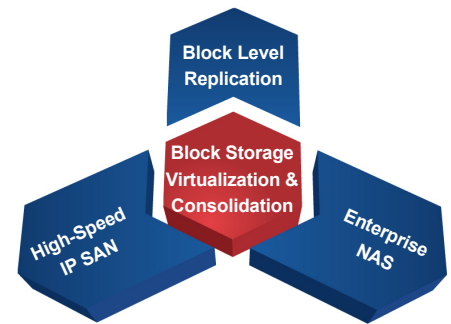
## RELvos™ 2.4

### Virtualization Operating System

#### SAN, NAS and WAN Replication Services from a Linearly Scalable Virtualized Storage Pool

RELvos, the RELDATA Virtualization Operating System, empowers the enterprise-class RELDATA 9000 Series of storage virtualization appliances that are used for a new generation of open, scalable and reliable unified storage solution. Its modular architecture lets organizations easily expand both application-based (SAN) and file-based (NAS) storage capacity to meet user demand, seamlessly consolidate underused storage assets, and ensure availability of data with WAN replication. The RELvos 64-bit performance allows RELDATA unified storage systems to provide the performance and throughput of more expensive Fibre Channel SAN alternatives at a much lower total cost of ownership.

The RELvos Virtualization Operating System is a block-level virtualization platform that is purpose built to deliver real world unified storage services. It is designed to provide storage consolidation of NAS and SAN while virtualizing industry standard SAS, Fibre Channel, and iSCSI storage resources. RELvos provisions block data and file storage services on application requirements. It is not limited to the finite capacity of a dedicated storage system. It provides concurrent, high-speed IP SAN and NAS storage services packaged with comprehensive WAN data replication.



The RELvos embedded firmware module features SAN-level remote mirroring, incremental volume replication, unlimited SAN-level snapshots, and block based replication for complete data protection.

#### RELvos High-Performance Unified Storage

Today's unified storage systems combining SAN, NAS and data protection services are based on file system virtualization technologies using a file system as the core virtualization platform. They evolved from NAS technologies enhanced with file system snapshot and replication services. Adding iSCSI SAN capability within a common management and data protection framework required the blocks to be converted to files, and block-level performance is seriously compromised. The advanced RELvos block-level storage virtualization technology does not convert iSCSI blocks to files. This means RELvos unified storage SAN performance is uniquely unlimited.

- ▶ **Highly efficient SAN storage virtualization engine allows seamless provisioning and management of both integrated storage and external arrays**
- ▶ **Dramatic reduction of future storage extension via higher capacity utilization**
- ▶ **Drastic decrease in storage administration via centralized storage networking management and automation**
- ▶ **Ethernet-centric storage consolidation significantly reduces infrastructure cost while eliminating change management headaches**
- ▶ **Easy management of fast-growing, mixed file and application/block storage volumes**
- ▶ **High performance iSCSI storage access bypassing file system**
- ▶ **Online storage system expansion and rapid recovery services radically reduces scheduled application downtime**
- ▶ **Incremental WAN data replication on SAN-level increases system reliability and data availability**
- ▶ **Active/active clustering with dynamic failover guarantees uninterruptable access even in the event of hardware failure**
- ▶ **Data migration services offer a comprehensive and easy to manage solution for moving data to new locations**
- ▶ **FC SAN replication to IP SAN for cost effective disaster recovery**

# SPECIFICATIONS

## High Performance IP SAN Licensed Services

- iSCSI target and initiator
- Near wire-speed I/O processing of iSCSI data
- Seamlessly scalable iSCSI volume provisioning up to 9 Exabyte
- Near wire-speed I/O processing of iSCSI data
- Rapid recovery by provisioning snapshots as iSCSI targets
- iSCSI Multipathing (MPIO) support
- Interoperability with industry standard iSCSI HBAs, initiators and targets
- Support for certified iSCSI tapes and libraries
- Optional license: Non-Disruptive Data Migration from one set of physical LUNs to another

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## Enterprise NAS Licensed Services

- High-performance, scalable, CIFS and NFS file shares with simultaneous access
- Seamless resizing of mounted, on-line file systems up to 9 Exabyte
- Support of Microsoft® Active Directory and NIS/Yellow Pages
- Rapid recovery by mounting and sharing snapshots as file systems
- Quota management on group and user levels
- Share migration services for filesystem-level data migration
- Optional license: data migration from one file system to another

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## WAN Replication Licensed Services

- One-to-many incremental replication of active, online volumes over iSCSI
- Replication support of physical devices
- Quick resynchronization after network outages
- Instant access to online replica volumes via clones
- One-to-many remote mirroring over iSCSI
- Vendor agnostic file replication and migration for NAS content

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## High Availability Storage

- Integrity-protected firmware stored in a solid-state memory
- VMware-certified services failover between cluster nodes for uninterruptible iSCSI access
- Non-disruptive firmware upgrades in clustered configurations
- Optional Active/active clustering with storage multipathing and fast services failover

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## Simplified Management Model

- Powerful intelligent Adaptive Storage Wizards for rapid set up, Virtual Volumes, SAN, NAS, WAN Replication configuration
- Easy-to-use, intuitive GUI provides centralized control of all RELDATA services
- Optional Customizable RELbot storage administration task automation

**RELDATA**  
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Contact us at [sales@reldata.com](mailto:sales@reldata.com) or visit our website to learn how we can unify your SAN and NAS storage infrastructure while never sacrificing performance or availability.

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