

# vRanger / vReplicator: Feature Guide

## VMware Data Protection That's Simple, Fast and Scalable

vRanger and vReplicator speed VMware backup and replication while dramatically reducing storage needs. These innovative solutions are built on the world's only data protection platform optimized for image-based data handling; Quest offers multiple versions to fit your VMware disaster recovery plans.

Use the chart below to choose the combination of protection that best meets your needs:

	vRanger Standard Edition (SE)	vReplicator	vRanger Pro	Notes
Data Protection Platform (DPP)	X	X	X	Ensures seamless scalability for environments with multiple VMware servers using a superior, image-based architecture. Optimize system resources to run multiple backup, replication and restore jobs simultaneously.
VMware ESX and ESXi backup and recovery	X		X	Backups and restores VMware with full, incremental and differential backup jobs.
VMware ESX and ESXi replication		X	X	Provides faster replication times, improved recovery point objectives and greater reliability with one-to-many and many-to-many replication across LAN and WAN. Now runs as a Virtual Appliance (VA).
Replication Optimization Engine		X	X	Intelligently manages replication jobs by automatically identifying and resolving failed passes.
File Cataloging *			X	Locates and restores files from a virtual environment quickly, easily and with minimal impact on backup window and system resources.
Active Block Mapping (ABM)	X	X	X	Minimizes backup windows, storage needs and system resource use on ESX hosts by ignoring deleted data on Windows VMs
LAN-Free backup and restore *			X	Speeds protection jobs and eliminates LAN traffic by using available Fibre Channel infrastructure
Object Level Application Protection	X		X	Supports Quest Recovery Manager applications to easily recover application objects from one single-pass, agentless backup.
White Space Detection	X	X	X	Speeds backup and replication by detecting and ignoring empty data blocks.

\* Denotes features that are present in vRanger SE, but are not supported and may be disabled in future vRanger SE upgrades

\*\* FLR supported on Windows and Linux (vRanger Pro, only) guest VMs

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Advanced Encryption Standard (AES) - 256	X	X	X	Securely encrypts data both in network transmission and at the target archive.
Instant File-Level Recover (FLR) **	X		X	Quickly restores a single file from a backup image in the repository using a one step process.
Application-Consistent Protection	X	X	X	Augments VMware VSS to ensure data integrity and log file truncation during backup of Windows guests running database applications.
vAPI and PowerShell Access	X	X	X	Automates protection job with a scripting interface
Change Block Tracking (CBT)	X	X	X	Provides support for the vSphere feature that speeds backup and replication jobs by eliminating scan time for changed data
Thin Disk Provisioning	X	X	X	Provides supports for vSphere thin disk provisioning, reducing network and storage space requirements
Synthetic Recovery	X		X	Reads each required data block only once using single-pass restore, providing fast and efficient results.
Inline Data Validation	X	X	X	Validates data to ensure recovery and that replica images are usable.
Remote Management	X	X	X	Manages data protection jobs from a central console over LAN and WAN connections for control across all systems and sites.
Custom Backup Groups	X		X	Reduces configuration time and administrative burden.

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