StoneFly DR365V vs Exagrid vs Dell EMC Data Domain vs HPE StoreOnce

Comparing Ransomware Protection, Backup, Replication, and Disaster Recovery Features of Enterprise Appliances

Scope of the Document

The multi-billion dollar backup and DR industry is riddled with technical jargons that make it difficult for decision makers to see through and find the capabilities that they need. Choosing the wrong solution often leads to considerable financial and reputational losses – especially in the event of a successful ransomware attack.

This document aims to offer clarity by comparing the capabilities of enterprise data protection solutions and help decision makers choose the right backup and disaster recovery (DR) solution for their critical workloads

Data Security and Ransomware Protection Features

When it comes to backup and DR, the first thing that should come to mind is: How secure are my backups? Because it won't matter how fast they are, if they are not secure from threats such as ransomware, human error, software/hardware vulnerabilities, etc.

But the way most vendors are marketing dedup for their backup appliances, it seems as if they are focused on better storage space usage rather than the security capabilities of the backup appliance.

It's important to note that while efficient storage consumption reduces the cost the solution and is important, data protection takes precedence.

Here's a list of data protection features every backup and DR solution need, and the solutions that offer them:

	StoneFly DR365V	Exagrid	Dell EMC Data Domain	HPE StoreOnce
Integrated Hardened Veeam Engine (Optional)	✓	✗	✗	✗
Software-Defined Network Isolation Zone	✓	✗	✗	✗
Secret Key Communication with Veeam Storage	✓	✗	✗	✗
Immutable File Storage (File Lockdown)	✓	✓	✓	✓
Immutable Object Lock	✓	✗	✗	✗

	StoneFly DR365V	Exagrid	Dell EMC Data Domain	HPE StoreOnce
Immutable Delta-Based Snapshots	✓	✗	✓	✓
Air-Gapped & Immutable Elastic Object Lock	✓	✗	✗	✗
Air-Gapped & Immutable File Lock	✓	✗	✗	✗
Air-Gapped & Immutable User-Defined WORM	✓	✗	✗	✗
Air-Gapped Controller with Air-Gapped & Immutable Repositories	✓	✗	✗	✗
Air-Gapped and Immutable Physical Nodes	✓	✗	✗	✗
End-to-End Encryption for Data in Transit/Rest	✓	✓	✓	✗
Chain of Command Security in Multi-Controller(s)	✓	✗	✗	✗
Multi-Factor Authentication (MFA)	✓	✗	✗	✗
Anti-Ransomware/ Malware/ Virus Scanner	✓	✗	✗	✗
Virtual Sandbox Environment for Testing/Spin Up	✓	✗	✗	✗
Direct VM Spin Up	✓	✓	✓	✓
FastTrack Restore	✓	✓	✗	✗
Backup and Restore Accelerator (BRA)	✓	✗	✗	✗

	StoneFly DR365V	Exagrid	Dell EMC Data Domain	HPE StoreOnce
Cloud Connect to Public/Private Cloud (3-2-1-1-0 backup strategy)	✓	✓	✓	✓
Shared-Nothing High Availability	✓	✗	✓	✓
Automated Failover/Failback	✓	✓	✓	✓

Backup Storage and Optimization Features

With backups secured, the next priority is backup and recovery speed and the cost of the overall solution – which are directly determined by storage and optimization features.

Optimization features ensure that your backups are read/written faster, and recovery time and point objectives (RTPOs) are shorter. Furthermore, the less storage space backups consume, the less storage capacity your backup and DR system needs – as a result the CapEx and OpEx are reduced.

Here are the must-have backup storage and optimization features, and which vendors offer them:

	StoneFly DR365V	Exagrid	Dell EMC Data Domain	HPE StoreOnce
Deduplication	✓	✓	✓	✓
Thin Provisioning	✓	✗	✗	✗
Space Reclamation Technology	✓	✗	✗	✗
Frontend SSD Caching	✓	✓	✓	✓
Automated Hot & Cold Storage Tiering	✓	✓	✗	✗
Scale Out to Unlimited Nodes	✓	✓ Limited	✗	✗
Single Namespace Scale Out Support	✓	✓	✗	✗
Load Balancing	✓	✓	✓	✓

Storage Features

The next capability on the priority list of a backup and DR appliance is storage. Considering the different types of production workloads, it's important that the backup and DR system has the storage capabilities to support all of them.

Here are the must-have storage features in a backup and DR appliance, and which vendors offer them:

	StoneFly DR365V	Exagrid	Dell EMC Data Domain	HPE StoreOnce
SAN Block Storage (iSCSI, Fibre Channel)	✓	✗	✓	✓
NAS (File based) CIFS/NFS Storage	✓	✓	✓	✓
S3 Object Storage	✓	✗	✗	✗
Block-Mode Replication Sync/Async	✓	✓	✗	✓
Multi-Controller Support (Up to 4 Per Node)	✓	✗	✗	✗
Expansion - Scale Up Support	✓	✗	✓ Limited	✓ Limited
Expansion – Scale Out Support	✓	✓ Limited	✗	✗

Backup and DR Management

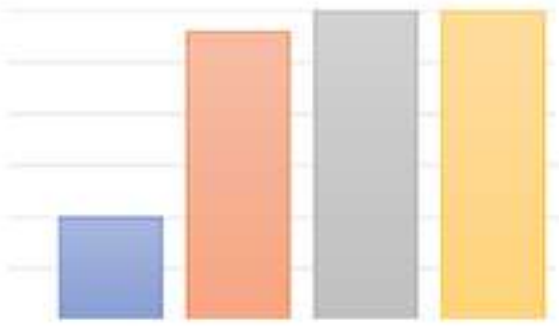
With backups secured, storage capacity consumption optimized, and a backup and DR system made affordable, the last, but not least, item on the priority list is management.

If the backup and DR solution is difficult to configure and manage, it's prone to errors, consumes more time, and is therefore more costly than it should be.

Here are the must-have management features, and which vendors offer them:

	StoneFly DR365V	Exagrid	Dell EMC Data Domain	HPE StoreOnce
Single Pane of Management	✓	✗	✓	✓
Ease-of-Deployment	✓	✓	✓	✓
Real-Time Monitoring and Reporting	✓	✗	✗	✗

Pricing Comparison: StoneFly DR365V vs Exagrid vs Dell Data Domain vs HPE StoreOnce



The cost of a backup and DR solution depends on the hardware specifications, software features, and licenses – which makes it impossible to plot actual numbers.

Here's a graph to illustrate the price difference between different solutions.

Note: The graph is for illustrative purposes only.

Build an Air-Gapped and Immutable Veeam-Ready Backup and DR Solution with StoneFly DR365V

Available in 8, 12, 16, 24, 36-bay appliances, the StoneFly DR365V provide turnkey automated air-gapped and immutable backup and DR for physical/virtual servers, VMs, databases, applications, and cloud-based workloads with consolidated SAN, NAS, and S3 object storage in a single box.

In addition to Veeam, the DR365V comes preconfigured with StoneFly's patented 8th gen storage virtualization engine SCVM™.

The SCVM enables backup administrators to automate air-gapping, immutability, and leverage a range of data protection, data security, and storage optimization features.

Data Protection Features in StoneFly

- Automated air-gapped backups for file, block, and S3 object
- Policy-based immutability for file-level data with file lockdown
- S3 object lockdown for on-prem cloud-native object storage
- Immutable delta-based snapshots
- End-to-end encryption at rest with AES 256-bit and at transit with SSL/TLS tunneling
- AI-based detection and removal with anti-ransomware
- Scheduled threat scans for dormant malware
- Virtual Sandbox for backup and DR orchestration and testing
- Quick recovery for critical VMs with direct VM spin up on DR365V

Backup Storage Optimization Features in StoneFly DR365V

- Effectively reduce storage consumption with deduplication ratios up to 1:100 – without affecting backup, replication, and restore speeds.
- Thin provisioning with idle space reclamation and repurposing
- Automated storage tiering for hot/cold-tier backups
- FlashCache™ frontend SSD caching for faster read/write speeds
- Automated load balancing to prevent bottlenecks

About StoneFly, Inc.

StoneFly Inc., headquartered in California, was founded to deliver upon the vision of simple and affordable storage optimization and disaster recovery protection through IP SAN solutions. StoneFly is a leading manufacturer of high-performance network-attached storage (NAS), storage area networks (SAN) – iSCSI systems, hyperconverged systems, and RAID systems. StoneFly's range of enterprise products also includes cloud storage solutions, cloud storage gateway solutions, and data migration services for enterprise workloads.

GOT QUESTIONS? CONTACT US

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