

Feature Comparison ExaGrid – EMC Data Domain

DATA SHEET

PRODUCT LIFECYCLE	ExaGrid	EMC	ExaGrid Approach	EMC Data Domain Approach
Low Price	✓ ✓ ✓		Appliances in a GRID - distributed processors	Front-end appliances with expensive processors, memory, battery backup
No Forklift Upgrades	✓ ✓ ✓		GRID architecture allows mix and match of appliances - no controller to outgrow	Single, fixed controller can be outgrown and must be replaced at great cost
No Single Point of Failure	✓ ✓ ✓		One appliance fails - can still send jobs into remaining appliances	Single, fixed controller fails and entire body of data is unavailable
No Obsolescence	✓ ✓ ✓		GRID architecture allows mix of older and newer servers in same GRID	New controllers cannot be used in concert with older ones, complete rip and replace
PERFORMANCE				
Fastest Ingest Rate (Short Backup Window)	✓ ✓ ✓	✓	GRID scalability matches capacity and performance - up to 3x faster	Expansion shelves only add disk, backup window increases because controller throughput is fixed
Fast Full System Restore From Most Recent Copy	✓ ✓ ✓		Keep a full most recent backup for fast full system restore	Need to rehydrate deduplicated blocks to recreate the full backup
Fast Tape Copy	✓ ✓ ✓		Keep a full most recent backup to make tape copies	Need to rehydrate deduplicated blocks to recreate the full backup
Deduplication Ratio	✓ ✓ ✓	✓ ✓ ✓	20:1 at 12 to 16 weeks	20:1 at 12 to 16 weeks
Best Recovery Time Objective - RTO Disaster Recovery	✓ ✓ ✓		Need to rehydrate deduplicated blocks to recreate the full backup	Need to rehydrate deduplicated blocks to recreate the full backup
NAS Share Management			Jobs assigned to multiple NAS shares for performance	Single NAS share target - tradeoff in scalability performance
Best Recovery Point Objective - RPO Disaster Recovery	✓ ✓ ✓	✓ ✓ ✓	Adaptive deduplication - replicate during backups without lowering backup performance	Replicate during backup - lowers backup performance
Fast Historical Data Restore	✓ ✓	✓ ✓	Zone-level deduplication - optimized by age of data	Large amount of containers slows restores down
BACKUP APPLICATION SUPPORT				
ExaGrid-Veeam Accelerated Data Mover Included with ExaGrid	✓ ✓ ✓	✓	The entire synthetic full operation occurs on the ExaGrid appliance eliminating the need to move data between the Veeam backup server and backup storage which greatly reduces the time to complete a synthetic full. Fastest Veeam vPower operations like Instant VM Restore, SureBackup, etc. access the most recent synthetic full with no rehydration penalty.	Data Domain Boost uses processing and memory on the Veeam backup server during all operations. Preparation of a synthetic full is accelerated, but use of that synthetic full still requires rehydration, slowing down all Veeam vPower operations like Instant VM Recovery.
Support Veeam Instant VM Restore	✓ ✓ ✓		Boot VM in seconds to minutes	Booting VM is slow and impractical
Veritas OST Support - NBU Optimized Synthetics	✓ ✓ ✓	✓ ✓ ✓	Veritas-certified full implementation	Veritas-certified full implementation
BackupExec Fast GRT Restores	✓ ✓ ✓		Optimized implementation for GRT	Not optimized for GRT
Support All Major Backup Applications	✓ ✓ ✓	✓ ✓ ✓	Zone-level deduplication works with all major backup applications	Block-level deduplication works with all major backup applications
Veritas OST Support - Optimized Duplication	✓ ✓ ✓	✓ ✓ ✓	Veritas-certified full implementation	Veritas-certified full implementation
ENVIRONMENTAL				
Lower Power and Cooling	✓ ✓ ✓	✓ ✓ ✓	Appliances in a GRID - cooler processors/more disk	Front-end appliance requires high clock speed processors - runs hot
Low Rack Space	✓ ✓ ✓	✓ ✓ ✓	2 and 3U appliances	2, 3 & 4U front-end server - 3U & 4U disk shelves - no additional performance
MAXIMUM SIZE				
Largest Single System	✓ ✓ ✓	✓ ✓ ✓	40TB x 25 in a GRID = 1PB full backup (1.9PB usable)	Front-end server with 4 shelves = 864TB (largest comparable system)

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