

ExaGrid – skuteczna deduplikacja i odporność na ransomware

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About ExaGrid

Company Highlights

- 100% focused on backup storage
- Shipping for over 15 years
- Largest independent vendor in the space
- Only Tiered Backup Storage approach
- High Net Promoter Score of +81
- Winner of the most industry awards

Large customer base

- Over 4,000 customers worldwide
- Appliances certified in over 132 countries
- Installed in 80+ countries
- In-theater customer support worldwide
- 300+ published customer success stories











Backup Storage Requirements

Inline Deduplication Appliances

Standard Disk Storage HDD or SSD

Fast as disk restores – user SLA

Avoid data rehydration

Backups as Fast as Disk Avoid inline data deduplication

WAN SavingsData Deduplication

Storage Savings
Data Deduplication

ExaGrid Tiered Backup Storage

Fixed Length Backup Window Scale-out architecture – linear scaling

Ransomware Recovery
Non-network-facing tier storage

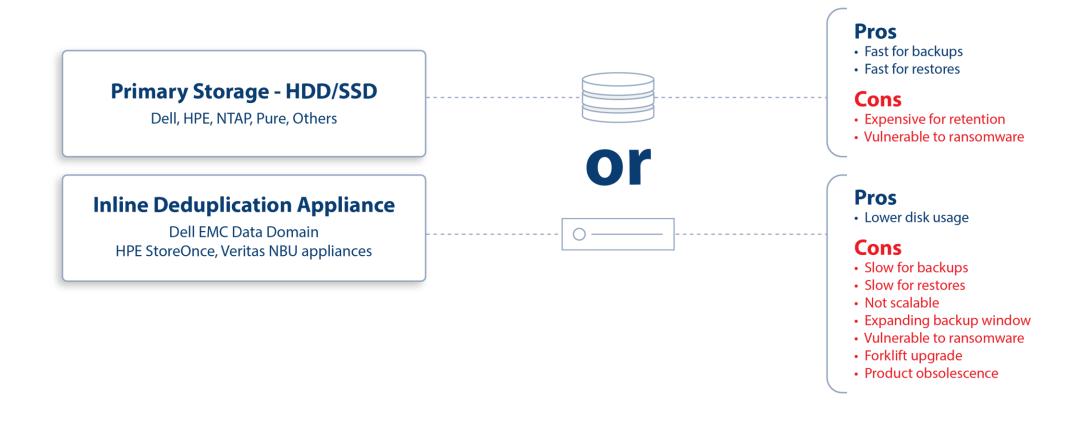
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WAN SavingsData Deduplication

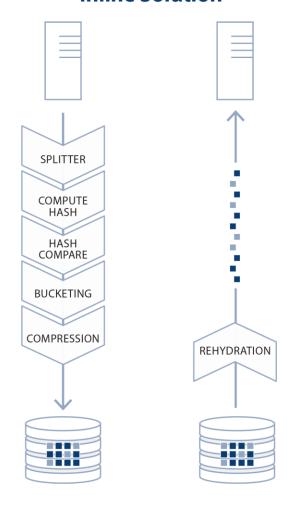
Storage Savings
Data Deduplication

Legacy Backup Storage Options



Backup Application Inline Deduplication to Disk

Inline Solution



Inline deduplication in the media server

- Slower ingest
- Longer backup window
- Can only deduplicate native backup data

All data is stored in deduplicated form

Slow restores, VM boots, and tape copies

Deduplication ratios are low

- Uses more disk than target appliances
- Uses more bandwidth to replicate

Limited scalability

Backup window grows as data grows

The Best of Both Worlds: ExaGrid Tiered Backup Storage



Current Backup & Retention Data -

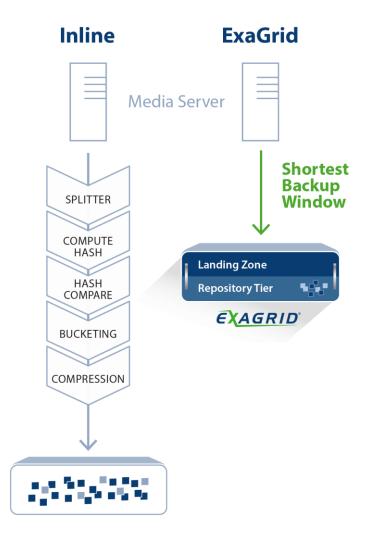
Deduplicated for Low Cost

EXAGRID Landing Zone Repository Tier

Pros

- Fast for backups
- Fast for restores
- Adaptive deduplication storage savings
- Ransomware recovery solution
- Scale-out
- Fixed-length backup window
- No forklift upgrade
- No planned product obsolescence

ExaGrid: Fastest Backups & Shortest Backup Window



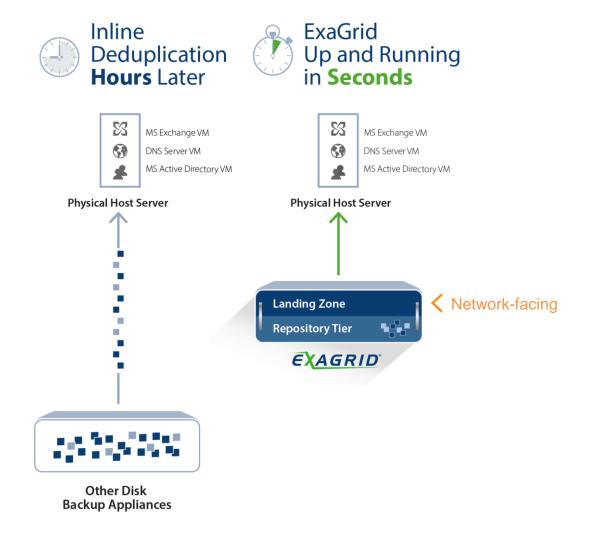
Disk-cache Landing Zone

- Write backups directly to disk
- Avoid compute-intensive deduplication
- Adaptive Deduplication

Benefits

- No inline processes to slow backups
- Fastest backups
- Shortest possible backup window
- Strong offsite RPO

Fast Restores, VM Boots in Seconds to Minutes



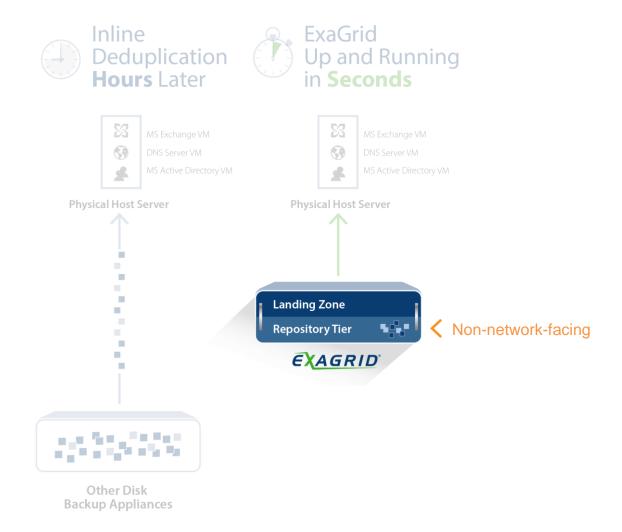
Disk-cache Landing Zone

- Most recent backups are in undeduplicated form
- Eliminates data rehydration
- ExaGrid's unique approach resynthesizes Veeam Fast Clone synthetic fulls for the fastest restores

Benefits

- Restores as fast as disk
- Tape copies as fast as disk
- VM boots in seconds to minutes

Non-network-facing Repository Tier



Second Repository Tier

- Long-term retention
- Deduplicated data

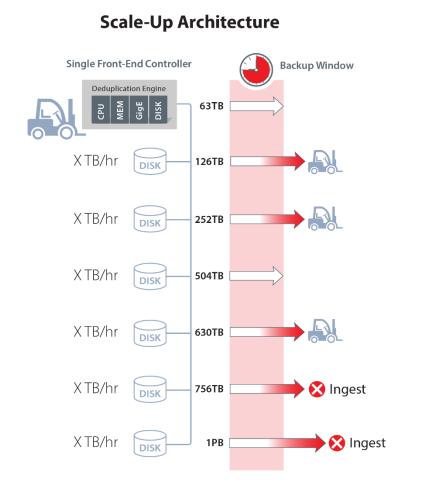
Benefits

- Low-cost long-term storage
- Ready for ransomware recovery
 - Non-network-facing tier
 - Immutable objects
 - Delayed deletes
 - Alert on deletes over set threshold

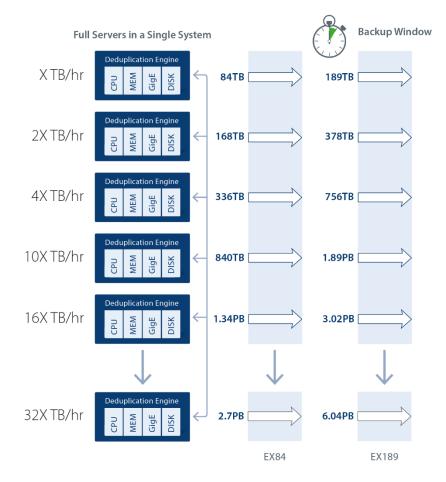
ExaGrid Scalability – Scale-out



Fixed-Length Backup Window



ExaGrid Scale-Out Architecture



Ingest not keeping

Out of storage and ingest forklift upgrade

ExaGrid Appliances in a Scale-out System

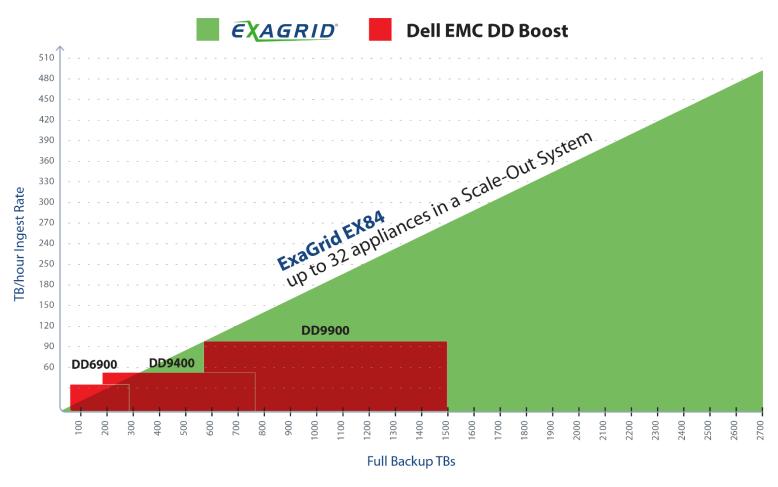
32 Appliances in a Single System – 6PB Full Backup

ExaGrid Model	Raw Capacity (TB)	Usable Capacity (TB)	Capacity for Weekly Full (TB)	Max Backup Thruput (TB/hr)	Form Factor	Optional Encryption At Rest SEC		
ExaGrid Appliances								
EX27	72	54	27	6.09	2U	√		
EX36	96	72	36	7.78	2U	√		
EX54	162	108	54	10.87	2U	√		
EX84	192	168	84	15.25	2U	√		
EX189	432	378	189	16.14	2U	√		

In addition, ExaGrid offers these appliances to accommodate larger organizations that have smaller data center locations worldwide:

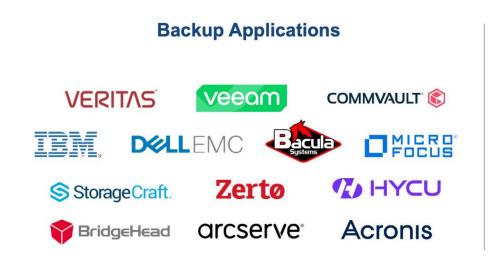
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ExaGrid Appliances for larger accounts with smaller data center locations									
EX10	32	20	10	2.40	2U	√			
EX18	48	36	18	3.60	2U	√			

Ingest Performance of Scale-Out vs. Scale-Up



Capacity is based on a full backup with 12 copies of retention (combination of weekly, monthly, and yearly)

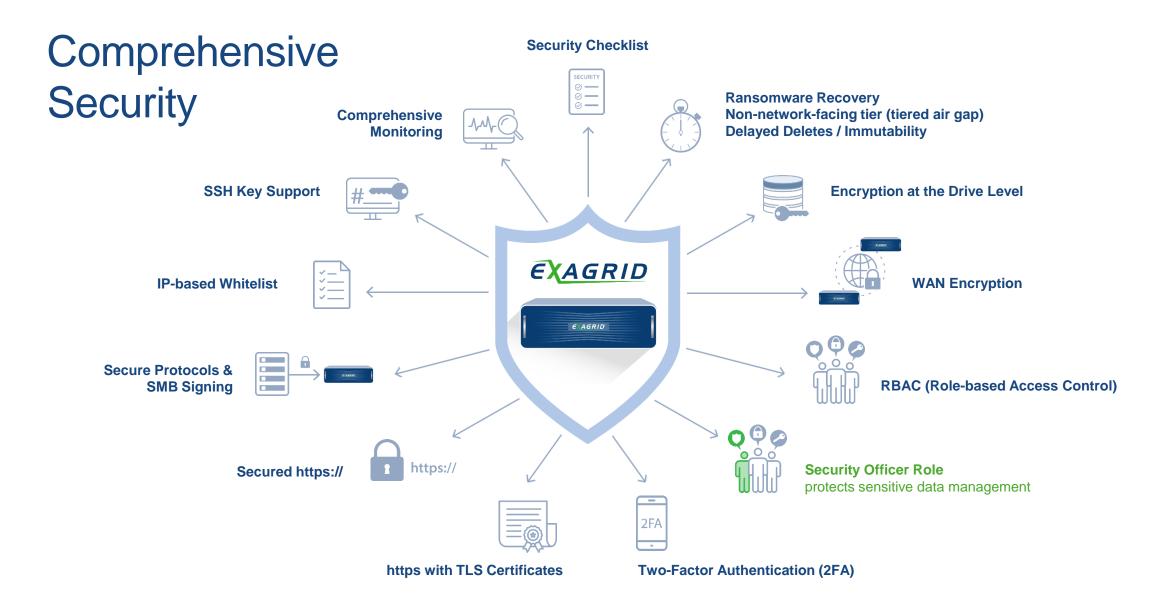
Works with Industry Leading Backup Applications Heterogeneous Environments











Fixing the Economics of Backup

Legacy Economics

EXAGRID

Price Protection

Sell at a low price and then raise the price on future purchases

ExaGrid fixes the price for all future purchases – price protection

Maintenance \$

Sell one year support and then hike the price in year two and beyond

ExaGrid limits the increase to 3% per year

Maintenance %

Maintenance is a % of list price regardless of hardware cost

ExaGrid's maintenance is a % of the hardware price you pay

Forklift Upgrades

Front-end controller architecture requires replacement to grow

ExaGrid appliances have all resources, add to scale-out system and grow

Guesswork

Need to plan out data growth to try and buy the right front-end controller

ExaGrid allows for appliances to be added to a scale-out system

Obsolescence

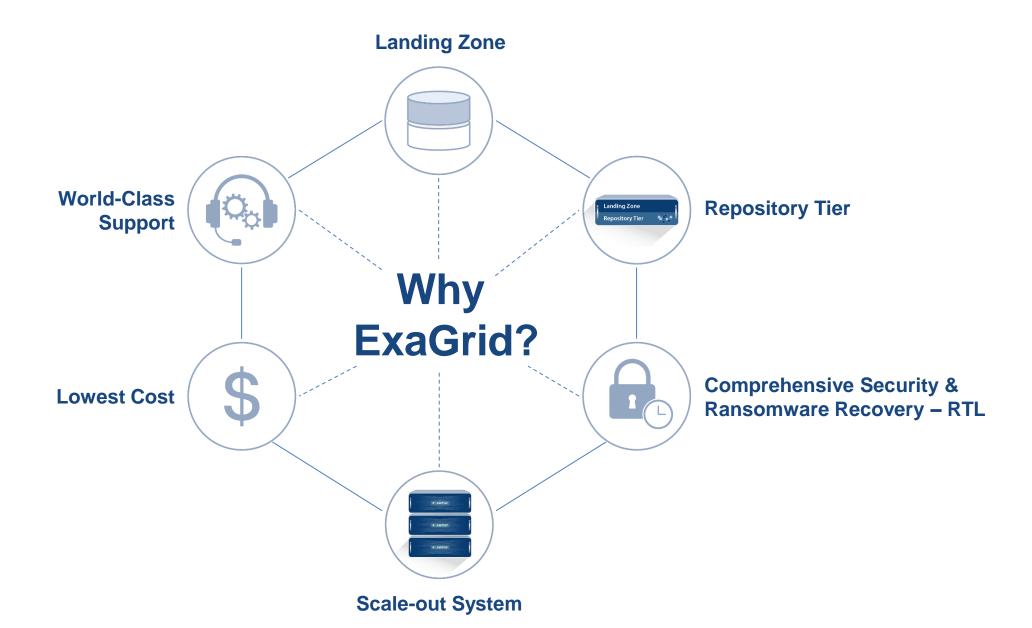
Products constantly discontinued and high maintenance costs charged

ExaGrid allows the mix and match of any age or size model

Hidden Costs

Pay for installation, full versions, replication, HW replace

ExaGrid includes installation, full versions, replication, HW replace



Thank you / exagrid.com

