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shaping tomorrow with you

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Infrastructure Solutions to Address Data Protection Challenges

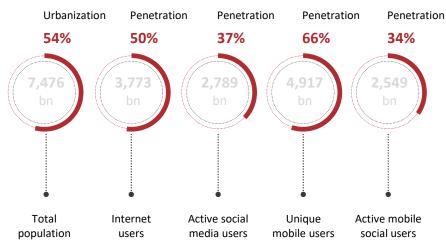
Manuel Namuth Product Manager ETERNUS CS EMEIA Category Management Datacenter

The Digital Explosion is here!

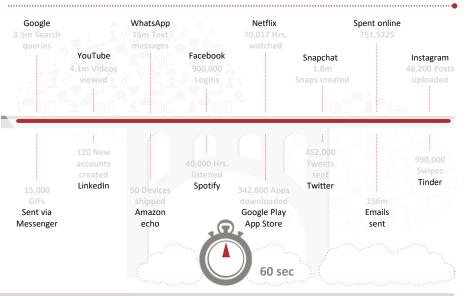


Global digital snapshot, January 2017

Key statistical indicators for the world's internet, mobile and social media users



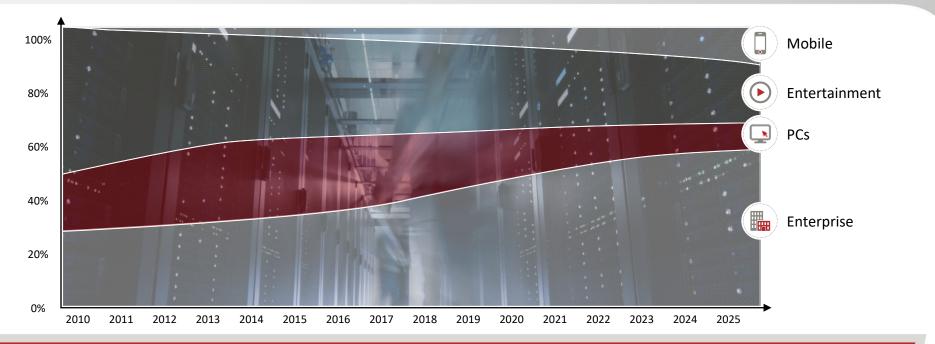
The real anatomy of an internet minute



Size of the digital universe will double at least every two years!

SOURCE: http://www.businessinsider.de/everything-that-happens-in-one-minute-on-the-internet-2017-9?r=US&IR=T https://hootsuite.com/newsroom/press-releases/digital-in-2017-report

Where will all this data be stored?



By 2025 the global data sphere will grow to 163ZB (that is a trillion gigabytes)! **Majority of which will be stored in Enterprises.**

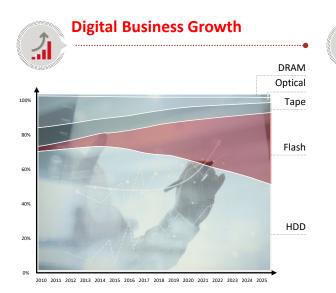
Source: Data Age 2025, IDC Whitepaper



Digital Business Continuity



Digital Business Efficiency



Digital Business Continuity

Digital Business Efficiency

Source: Data Age 2025, IDC Whitepaper

- Storage Requirements
- Extensive scalability
 @ reliable response time



2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

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 - Extensive scalability@ reliable response time

Digital Business Continuity



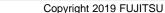
Estimates for average costs of downtime at an organization came in at around \$9,000 per minute¹ last year.

¹ 2016 Costs of Data Center Outages, Ponemon Institute, January 2016

- Storage Requirements
 - Always access to business data

Digital Business Efficiency

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Digital Business Continuity

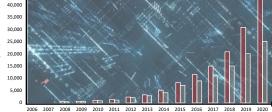


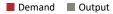
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of GB)

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- Storage Requirements
 - Enable data growth without growing storage costs



Business-Centric Storage



Business-Centric Storage

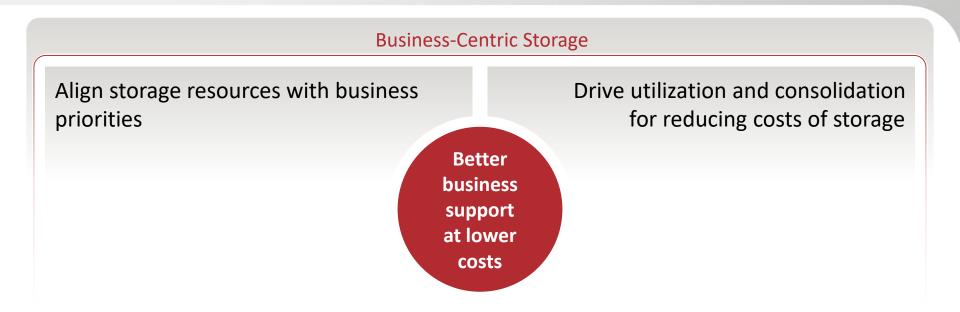
Align storage resources with business priorities



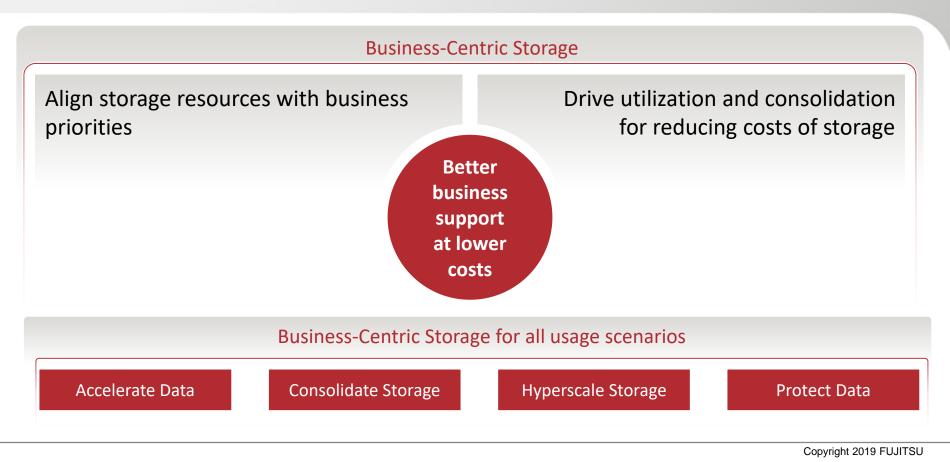
Business-Centric Storage

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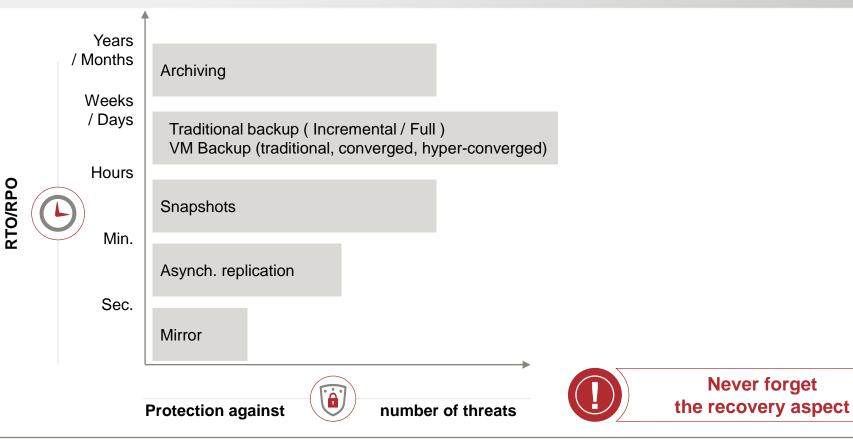
Drive utilization and consolidation for reducing costs of storage







Data Protection: What could be covered



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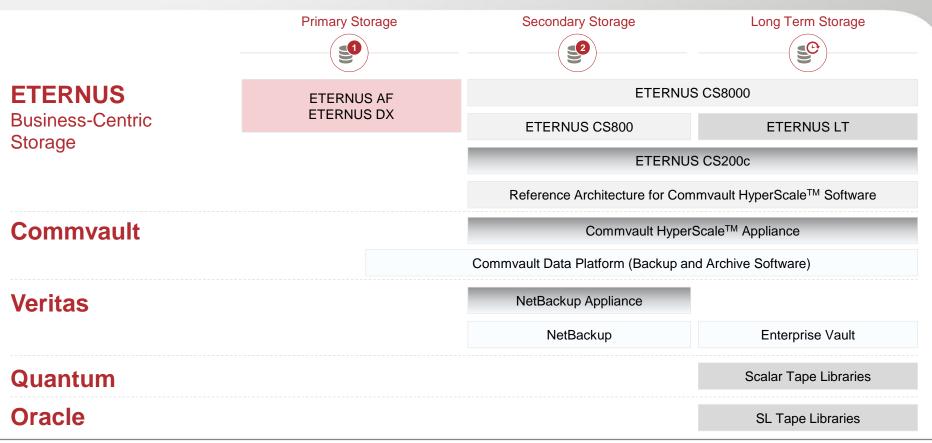
Simplify your Backup and Archive





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Eco-system for the entire data lifecycle

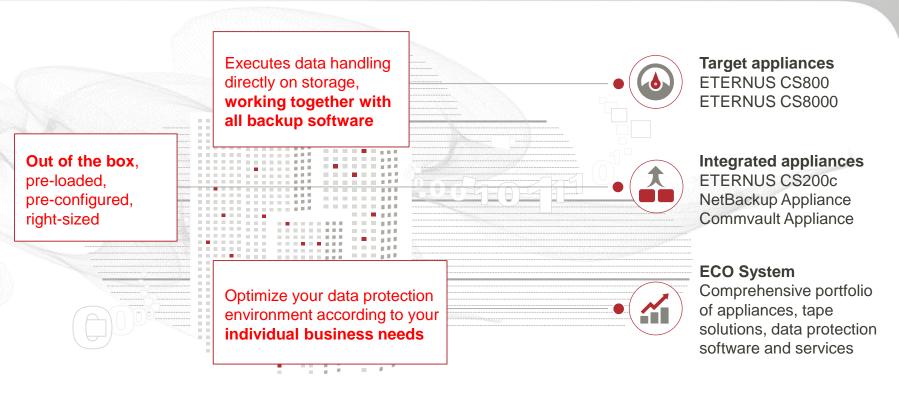


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Data Protection Appliances

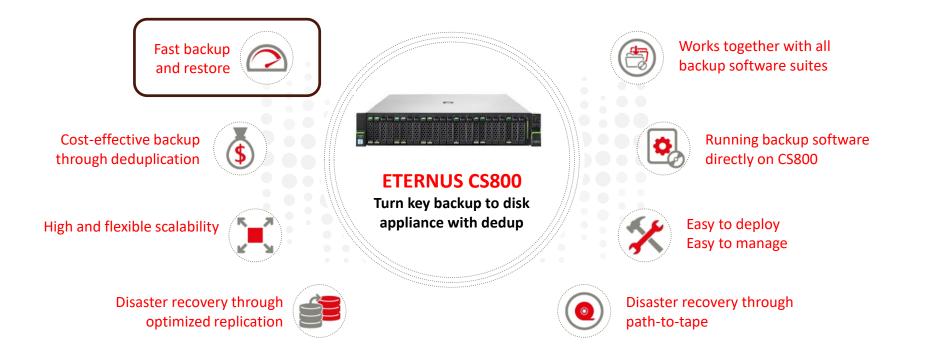


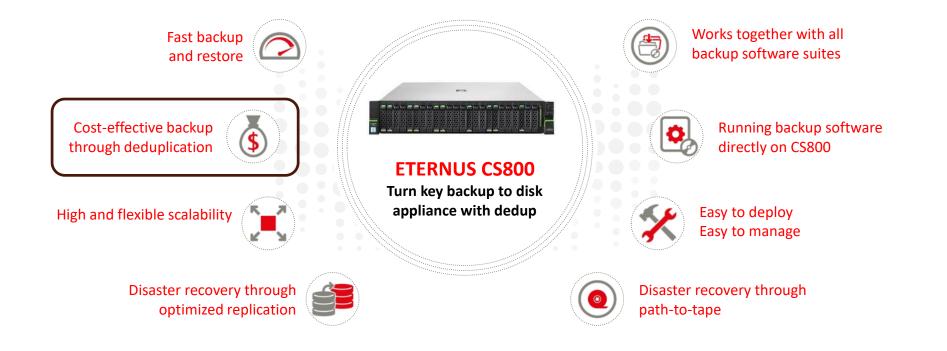


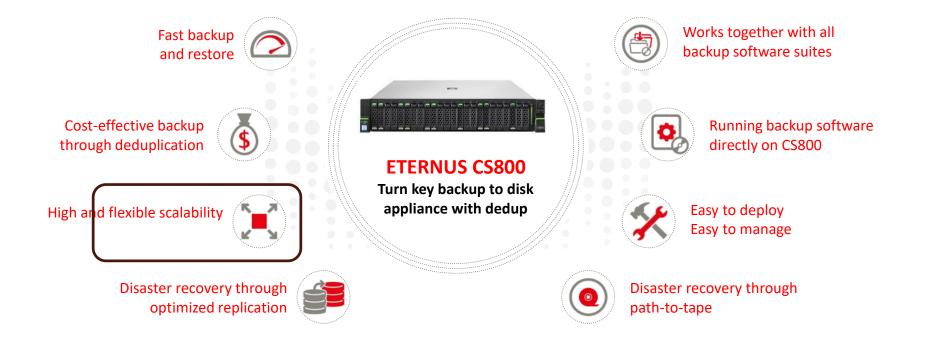


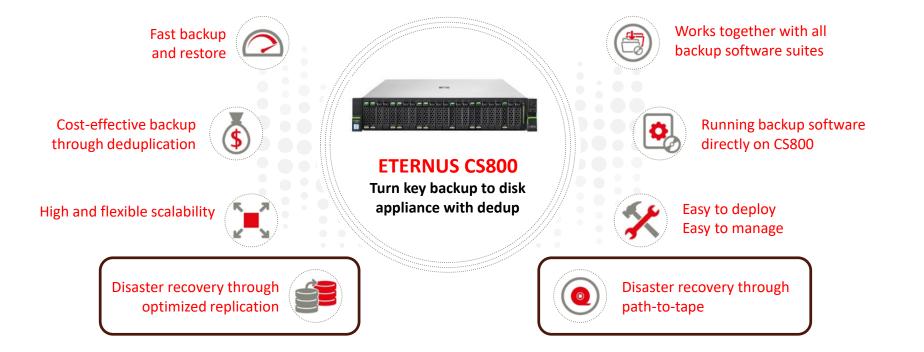
Purpose Built Backup Appliances

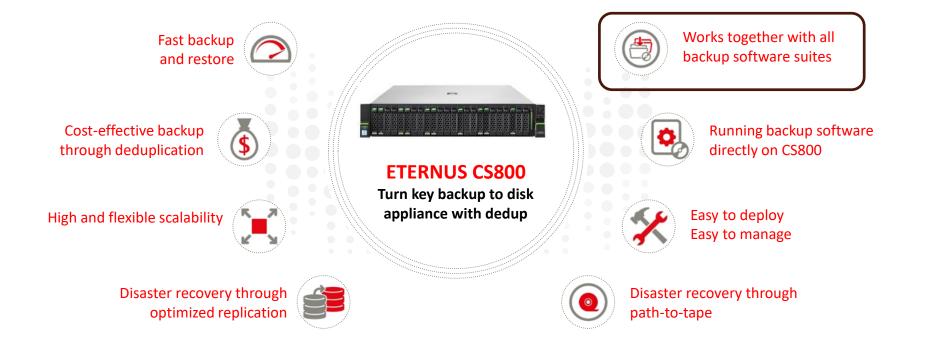
Target Appliance Solution – ETERNUS CS800

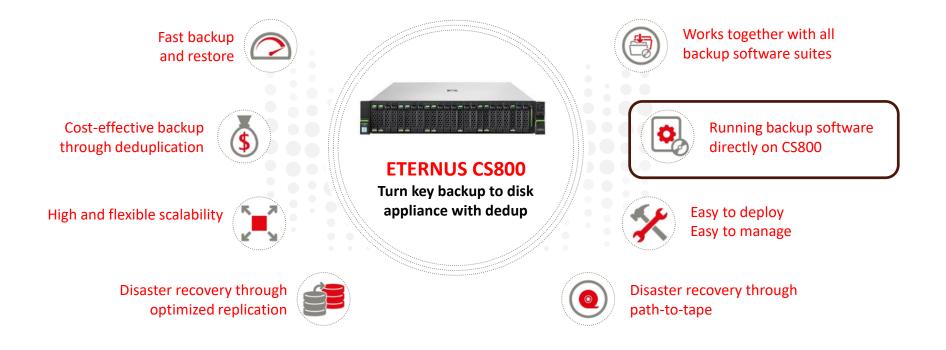


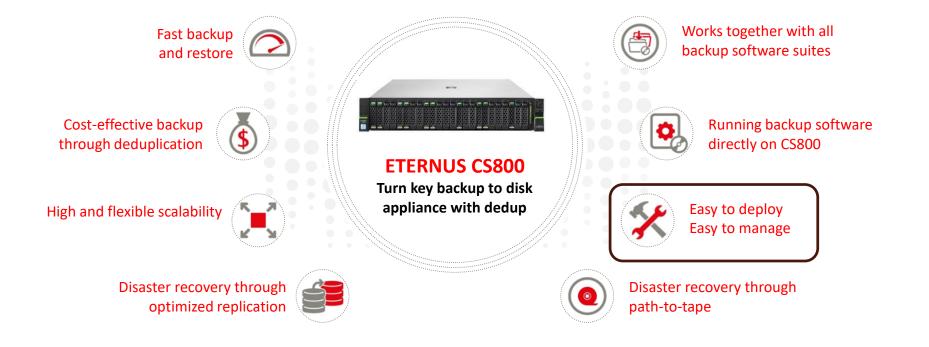




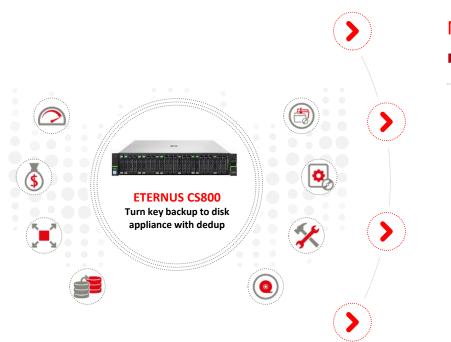








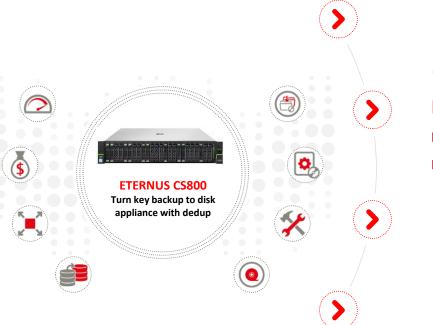




Medium and large enterprises

Consolidation of backup IT for medium and large enterprises





Medium and large enterprises

Consolidation of backup IT for medium and large enterprises

Branch offices/subsidiaries

- With no or limited IT staff
- Replication of backups from branches to central IT





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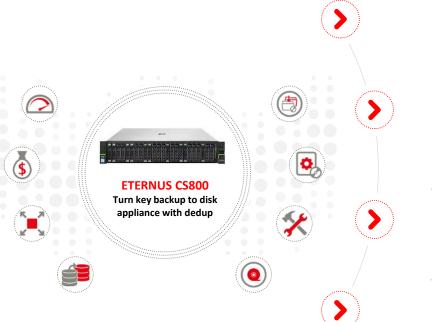
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For IT organisations with multiple backup apps

Single appliance for all backup applications





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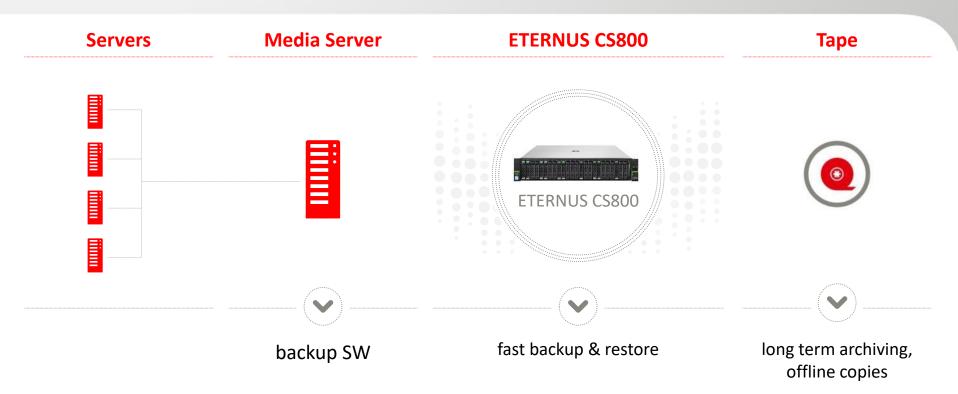
For IT organisations with multiple backup apps

Single appliance for all backup applications

Backup for

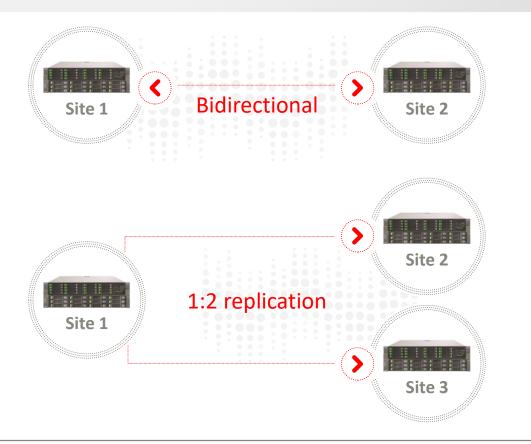
Physical, virtual and hyper-convergent environments

How ETERNUS CS fits into the IT infrastructure



Proven disaster recovery



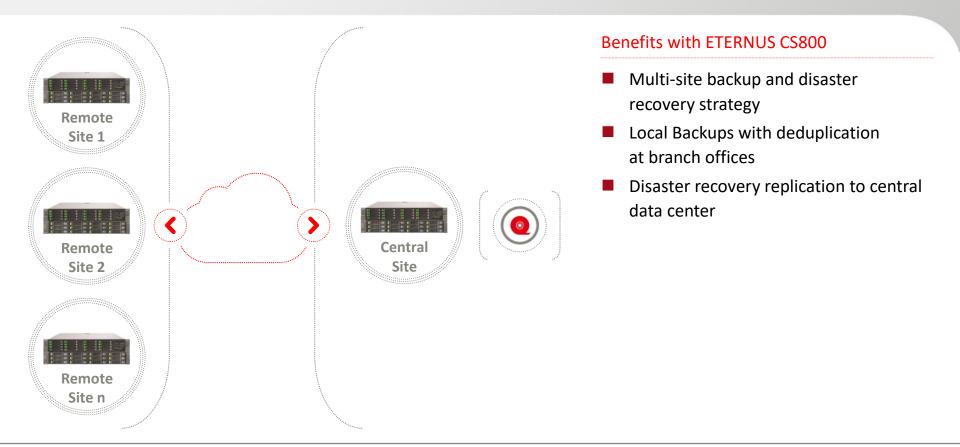


Benefits with ETERNUS CS800

- Integrated replication
 - Bidirectional
 - 1:2 replication
- Reduced network bandwidth
- 32 replication snapshots to recover any day of entire month

Distributed sites/branch office concept





ETERNUS CS800: key benefits 1/2





Fast backup and restore

- Fast backup up to 22 TB/h (SPEED mode)
- Enabling users to selectively access important files



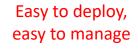
Cost-effective backup through deduplication

- Reduce disk capacity up to 95% decreasing media cost
- Reduce network bandwidth requirements for replication



High and flexible scalability

- Scale up to 640 TB
- Pay as your business grows with flexible capacity
- Fair and proportional pricing



- Automated process eases daily operational tasks
- Graphical User
 Interface
- Integrated Wizards

ETERNUS CS800: key benefits 2/2





Disaster Recovery (DR) through replication

- Replication of backup data for disaster protection
- Enhances DR with bidirectional, many-toone replication



Disaster Recovery through path to tape

- Create additional copies to tape for long term archiving
- Protection against ransomware by storing tape copies offline

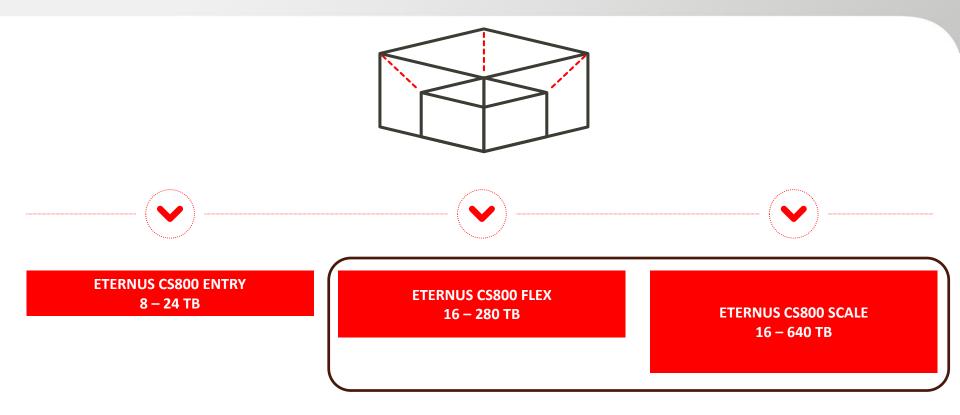
Works together with all backup software suites

- Continue to use your backup-SW of choice
- Consolidate all backup copies, deduplicated on a single appliance

Running backup software directly on ETERNUS CS800

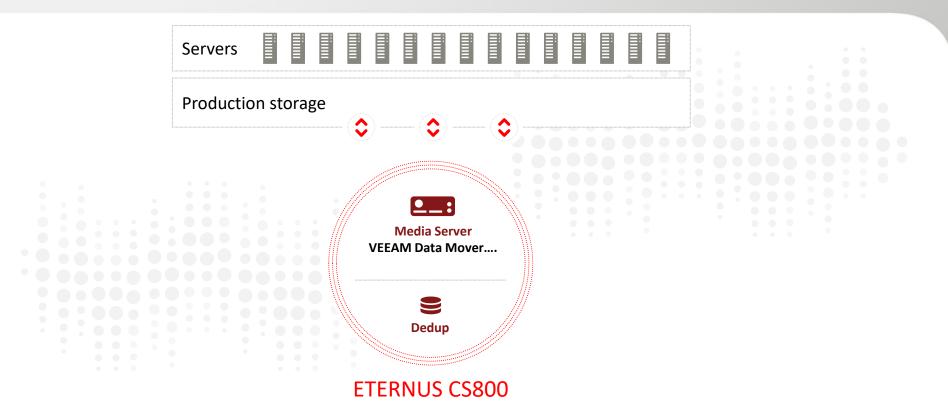
Reduce additional hardware for media server/data movers

ETERNUS CS800: High and flexible scalability



Running VDMS on ETERNUS CS800





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Veeam integration

VDMS – Veeam Data Mover Service

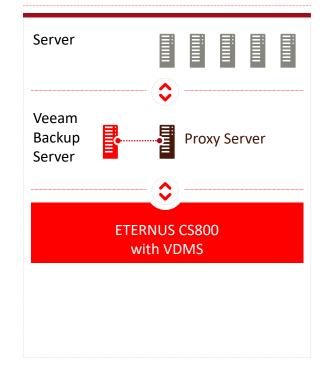
- Performs data processing tasks on behalf of Veeam Backup & Replication
- Veeam Agent (VAE) runs in the ETERNUS CS800 process space

Supporting advanced features

- Synthetic full
- IVMR Instant Virtual Machine Recovery

- No need for an extra Gateway server
- Lower network load/
 Shorter backup window
- Global deduplication
 (Compatible with Veeam deduplication)

ETERNUS CS800 with VDMS





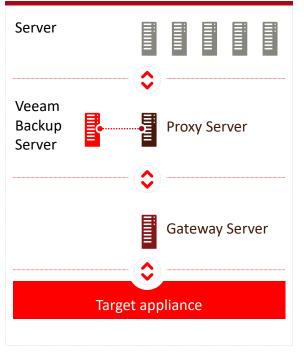
Integration with VEEAM SW



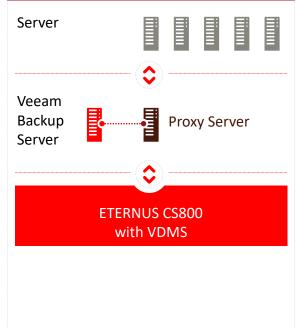
Typical Target appliance environment

Server		
Master- Server	Media Sever	
	Target appliance	

Target appliance in Veeam environment

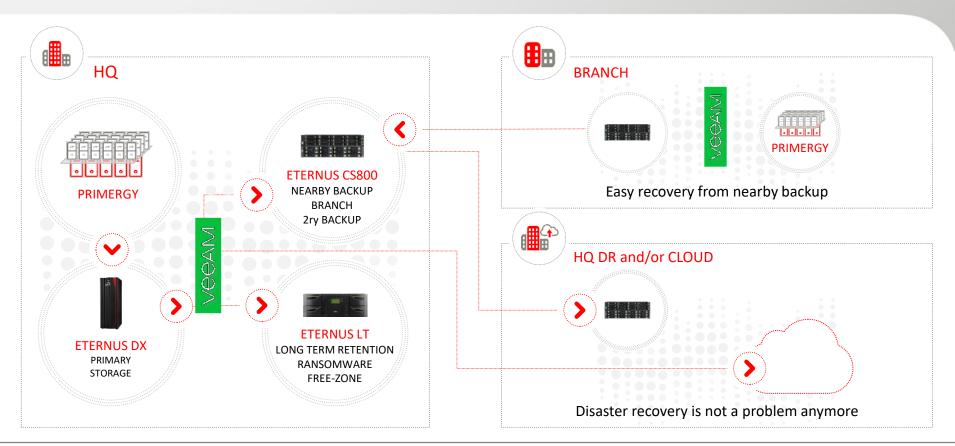


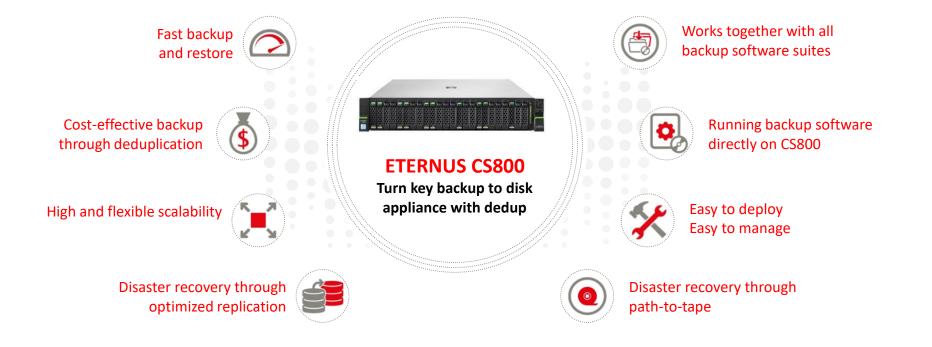
ETERNUS CS800 with VDMS*



* VDMS - Veeam Data Mover Service

Example: VM backup solution with VEEAM

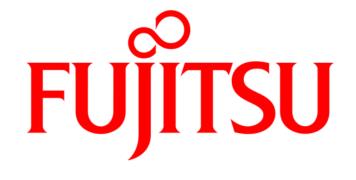




"It is not the smartest nor the strongest that survive – but those, most adaptive to change."

Charles Darwin





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