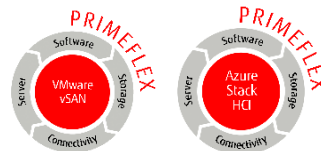


# Whitepaper

## Use Case: ETERNUS CS200c for hyper-converged Infrastructure

Integrated Backup Appliance Powered by Commvault® as backup solution for hyper-converged infrastructure



### The Challenge - Data Backup in Virtual Environments

Virtualization technologies have been making a significant impact on the traditional IT infrastructure landscape over recent years. Traditional, converged and hyper-converged offerings have taken a foothold in many enterprises. They consolidate IT landscapes, optimize utilization and make operations more flexible.

Hyper-converged infrastructures are the rising star in modern data centers. A hyper-converged solution typically consists of clustered building blocks with integrated network, storage and computing functions. Hypervisors with extended functionalities orchestrates all resources. Such simple-to-acquire, easy-to-manage platforms often come with so called data protection functionality build in. Typically, however, the focus is on data replication rather than traditional backup and recovery. They often store backup copies on the same platform and provide insufficient lifecycle management. These can imply risks of potential data loss by data corruption, deletion or if a disaster occurs.

### ETERNUS CS200c Powered by Commvault – The Complete Solution for Hyper-converged Infrastructures

The ETERNUS CS200c is ideally suited for hyper-converged infrastructures delivering out-of-the-box backup by dramatically reducing deployment time and risks. Powered by industry-leading Commvault Software, ETERNUS CS200c leverages deep integration into hyper-converged infrastructures supporting all major hypervisors including Microsoft’s Hyper-V and VMware’s vSphere.

Every virtual machine goes through a lifecycle across deployment, management, optimization, protection and retirement. Use ETERNUS CS200c to manage every phase for VM Backup, Recovery & Cloud Management. The appliance helps streamline management of hyper-converged platforms with a policy-based approach to optimize VM resource utilization and to ensure that no VM will ever be at risk, even if disaster strikes.

With Integrated System PRIMEFLEX and ETERNUS CS200c, Fujitsu provides convincing solutions to the complex challenges of hyperconvergence and data protection such as performance, availability, security, flexibility and efficiency.

### ETERNUS – Business-Centric Storage

#### Business values with ETERNUS CS200c as backup solution for hyper-converged infrastructure

##### Digital Business Continuity

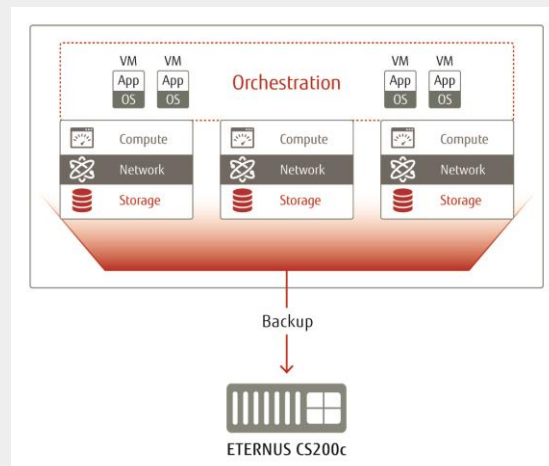
- Replication and built-in encryption ensure your business-critical data is protected and secure against cyberattacks
- Performs off-host backups for hundreds of virtual machines to support continuity of operation and disaster recovery
- Advanced automation minimizes manual failures and data loss

##### Digital Business Efficiency

- Pre-configured, pre-loaded appliance reduces evaluation and deployment efforts
- Optimally concerted, unified building blocks eliminate risk, improves business agility
- Virtualize critical applications while meeting optimized data protection SLAs

##### Digital Business Growth

- Global deduplication lowers data volume by 90%, improves resource usage and reduces overall costs
- Archiving and backup to cloud or tape allow to manage annual data growth more efficiently
- Consolidates critical data protection, compliance and discovery operations in one unified solution



# More information

## ETERNUS CS200c - Scalable Data Protection and Recovery for Hyper-converged Infrastructure

- Right-size data protection methodologies for virtual environments achieve SLAs with confidence without overspending
- Commvault IntelliSnap® technology helps accelerate application-aware protection and recovery of VMs
- Cluster aware protection with full integration for CSV and Live Migration
- Enterprise-class, global deduplication reduces requirements for ETERNUS CS200c storage capacity
- Application integrated protection ensures application consistent protection and rapid application recovery within VMs

## ETERNUS CS200c - Disaster Recovery Using second ETERNUS CS200c

- Accelerate Disaster Recovery and testing with automated, replicated VM backups to a second ETERNUS CS200c
- Leverage any tier of infrastructure to bring disaster recovery to every application that needs it
- Implement an SLA-focused disaster recovery strategy

## ETERNUS CS200c - VM Lifecycle Management

- Provide admin management access for VM provisioning, backup, and recovery with customizable configuration limits, expiration dates, and much more
- Use workflow automation to eliminate tedious and time-consuming processes
- Achieve operational excellence with custom reporting options that deliver summary, dashboard, and instrumentation level reporting on the entire environment, not just the backups
- Leave no VM unprotected with automated VM discovery
- Facilitate hypervisor migrations by converting VMs created in VMware to Hyper-V format and vice versa

## ETERNUS CS200c – Broad Support Options

- The ETERNUS CS200c with Commvault Software supports a broad range of hypervisors. Detailed information about hypervisor support and system requirements see: [Commvault Supported Technologies](#) [Commvault Books Online – Virtualization – System Requirement](#)

## Useful links

- [Data sheet: ETERNUS CS200c](#)
- [ETERNUS CS200c on the internet](#)
- [PRIMEFLEX for Virtualization on the internet](#)
- [Commvault Books Online: Virtualization](#)

Main features	Benefits
<ul style="list-style-type: none"><li>■ Ease of install and simple, streamlined manageability</li></ul>	<ul style="list-style-type: none"><li>■ Pre-loaded and pre-configured ETERNUS CS200c delivers rapid installation, simplified management for VM Data Protection, advanced reporting functionality, key event monitoring and alerting</li></ul>
<ul style="list-style-type: none"><li>■ Incremental Forever Backups with DASH Technology</li></ul>	<ul style="list-style-type: none"><li>■ Dramatically reduce the backup time and maximize resource utilization and efficiency by leveraging deduplication-aware replication technology to implement an incremental forever backup strategy</li></ul>
<ul style="list-style-type: none"><li>■ Enhanced Auto Protection &amp; Filtering of Virtual Machines</li></ul>	<ul style="list-style-type: none"><li>■ Guarantee protection for VMs across the enterprise with fully customizable VM discovery, filtering, and catch-all protection policies</li></ul>
<ul style="list-style-type: none"><li>■ Application Aware &amp; Consistent Data Protection</li></ul>	<ul style="list-style-type: none"><li>■ Deep application level awareness ensures application consistent and rapidly recoverable data protection for virtualized applications</li></ul>
<ul style="list-style-type: none"><li>■ Extensive Recovery Options and Granularity</li></ul>	<ul style="list-style-type: none"><li>■ Single interface enables recovery of files, volumes, applications or full VMs from either a snapshot or a deduplicated backup copy</li></ul>

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