COMMVAULT | FUJITSU

Fujitsu Storage ETERNUS CS200c Backup Appliance Powered by Commvault

A POWERFUL COMBINATION OF FUJITSU PRIMERGY SERVER AND ETERNUS STORAGE HARDWARE INTEGRATED WITH COMMVAULT SOFTWARE

Two leaders in data protection hardware and software have partnered to bring you an integrated backup appliance that closes the scalability, flexibility and manageability gaps in current competitive offerings.

POWERFUL SCALABILITY

- Plug-and-play scaling as your environment grows
- Software resiliency and load balancing to complement hardware availability

BROAD FLEXIBILITY

- Use a single node for smaller environments; easily combine appliances to extend your environment as you grow
- Optional support for snapshot management, email archiving, search and eDiscovery

SIMPLE, COMPREHENSIVE MANAGEMENT

- Centralized management, reporting and client software deployment
- Single package for software, server and storage hardware, and support



Two industry leaders. One truly integrated solution.

FEATURE	BENEFIT	ETERNUS CS200c POWERED BY COMMVAULT	EMC AVAMAR/ DATA DOMAIN	SYMANTEC NBU APPLIANCES
VIRTUAL MACHINE (VM) BACKUP & RECOVERY	Deliver unified data protection of physical and virtual environments	Y	Y	Y
CUSTOM AUTO-PROTECTION AND FILTERING	Automatically discover and protect VMs based on business value. Filter out specific VMs for full customization.	Y	N	Y
DEDUPLICATION RESILIENCY WITH PARALLEL DEDUPLICATION	Inexpensively deliver software load balancing and resiliency to complement hardware availability	Y	PARTIAL	N
SINGLE PASS BACKUP, FILE ARCHIVING, AND REPORTING	Save time, money and resources with Commvault OnePass™	Y	N	N
ENDPOINT BACKUP	Reduce workload with auto-discover/auto-install of backup agents, and end-user access capability	Y	PARTIAL	N
ENCRYPTION	Protect data At-Rest and In-Flight	Y	Y	Y
Optional Add-Ons All integrated and managed from a single console				
VM LIFECYCLE MANAGEMENT	Manage the complete VM lifecycle from provisioning and monitoring to backup and replication to VM archiving and retirement	Y	PARTIAL	PARTIAL
HETEROGENEOUS HARDWARE ARRAY SNAPSHOT MANAGEMENT	Improve RTO/RPO and offload backup processing from production hosts	Y	N	PARTIAL
INTEGRATED EMAIL ARCHIVING	Perform email archiving with stubs for end-user recovery	Y	N	N
SEARCH AND eDISCOVERY	Obtain total visibility of data across archive and backup	Y	N	N
ENDPOINT DATA PROTECTION	Mitigate risk with data loss prevention and compliance/eDiscovery; drive productivity with secure file sharing	Y	N	N
INTEGRATED ADVANCED REPORTING	Provide a global view to inform and drive decisions in capacity management and planning, SLAs and operations	Y	PARTIAL	PARTIAL

Learn more at http://www.fujitsu.com/fts/products/computing/storage/data-protection/cs200c/

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The ETERNUS CS200c combines Commvault software with a PRIMERGY server and ETERNUS storage in a pre-tested and validated integrated backup appliance. To learn more, visit **commvault.com/solutions/backup-appliance/fujitsu**.

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SUBSTANTIATION (AS OF 08/08/2016)

1. VIRTUAL MACHINE BACKUP & RECOVERY

Deliver unified data protection of physical and virtual environments

2. CUSTOM AUTO-PROTECTION AND FILERTING

Automatically discover and protect VMs based on business value. Filter out specific VMs for full customization.

- EMC NetWorker enables you to set a directive (policy) for coverage of a specific resource pool, host, datacenter, or folder, any new VMs in that container are included in subsequent backups (EMC® NetWorker® Version 9.0.x VMware Integration Guide 302-000-701 REV 08). Avamar provides protection based on a standard directive (policy) to new VM's added to a vCenter, all other discovery is manual. There is no capability to identify new VM's by affinity or filter VM's from backup and assign a specific directive (policy) (EMC® Avamar® 7.2 for VMware, User Guide, P/N 302-001-811, REV 01)

3. DEDUPLICATION RESILIENCY WITH PARALLEL DEDUPLICATION

Inexpensively delivers software load balancing and resiliency to complement hardware availability.

- EMC deduplication is provided by Data Domain deduplication appliances. The Data Domain controller can be a single point of failure in an environment. The DD4200/4500/7200/9500 and DD990 can have an additional controller to provide resiliency, at a significant cost. EMC can provide deduplicated replication but only between like Avamar or Data Domain systems with significant additional cost.
- For NetBackup Appliances, MSDP offers up to the maximum available capacity on a 52xx and 5330 appliance. (Veritas NetBackupTM Appliance Capacity Planning and Performance Tuning Guide, Release 2.7.3, NetBackup 52xx and 5330, pg. 38). Deduplication within each node is supported; deduplication between nodes is not supported. (Veritas NetBackupTM Deduplication Guide Documentation version: 7.7, pg. 21).

4. SINGLE PASS BACKUP, FILE ARCHIVING AND REPORTING

Save time, money and resources with Commvault OnePass™.

- EMC backup, reporting and archiving processes are delivered through separate products (Networker, DPA and SourceOne) each performs a separate pass of the data. Networker can archive file system data as a data set directly, but this also requires a separate pass. (EMC® NetWorker® Version 9.0.x Administration Guide 302-001-764 REV 06, pg. 425).
- Veritas backup and archiving processes are delivered through separate products (NetBackup and Enterprise Vault). Each performs a separate pass of the data. NBU can archive file system data as a data set directly, but this also requires a separate pass.

5. ENDPOINT BACKUP

Reduce workload with auto-discover/auto-install of backup agents, and end-user access capability.

- EMC recommends; When deploying Avamar Desktop/Laptop to a location with existing Avamar servers, use an additional Avamar grid to support the desktop and laptop clients. (EMC® Avamar® 7.2, Operational Best Practices, P/N 302-001-931, REV 01, p. 68).
- Veritas provides the Veritas Desktop/Laptop OptionTM. This is a separate product from NetBackup which has a unique server, database and administration console. (Veritas Desktop and Laptop OptionTM version 8.0, Administrator's Guide, pg.14)

6. ENCRYPTION

Protect data At-Rest and In-Flight.

7. VM LIFECYCLE MANAGEMENT

Manage the complete VM lifecycle from provisioning and monitoring to backup and replication to VM archiving and retirement.

- EMC supports Virtual Server protection through Avamar, but Avamar only provides for some extended restore capabilities such as VM power-on, datastore browsing, but not VM-renaming. There is no capability to identify new VM's by affinity or filter VM's from backup and assign a specific directive (policy) (EMC® Avamar® 7.2 for VMware, User Guide, P/N 302-001-811, REV 01)
- Veritas cannot provide VM archiving through NBU or Enterprise Vault. (Veritas NetBackupTM for VMware Administrator's Guide, Release 7.7)

8. HETEROGENEOUS HARDWARE ARRAY SNAPSHOT MANAGEMENT

Improve RTO/RPO and offload backup processing from production hosts.

- EMC Avamar and Data Domain appliances do not support hardware array snapshot management. EMC provides persistent Snapshot integration in NetWorker with the addition of EMC Snapshot Manager or EMC Replication Manager options. Snapshot Manager and Replication Manager are limited to EMC and NetApp FAS storage hardware. (EMC NetWorker Software Compatibility Guide, July 15, 2016, http://compatibilityguide.emc.com:8080/CompGuideApp/). Replication Manager has GUI integration with NetWorker but requires a separate infrastructure and database. (EMC Replication Manager Version 5.5.2, Administrator's Guide. P/N 302-001-415, REV 01, pg.52)
- Veritas introduced Replication Director in NBU version 7.5. Replication Director 7.6 supports file system snapshots, VMware snapshots for file systems, Exchange and SQL and Oracle snapshots on physical machines on NetApp FAS, Veritas FileStore and EMC VNX & Celerra only. Replication Director recently added support for EMC VNX & Celerra storage systems, but only provides NAS support, and the following policy types: Standard, MS-Windows, NDMP, VMware, and Oracle for EMC. (Veritas NetBackupTM Replication Director Solutions Guide Release 7.7).Veritas supports older arrays, but lacks support for newer arrays such as HP 3Par, IBM SVC, XIV and N-series, EMC Celerra, and Dell Arrays. (Veritas NetBackup 7.7.x Snapshot Client Compatibility List, Created on April 25, 2016).

9. EMAIL ARCHIVING

Perform email archiving with stubs for end-user recovery.

- EMC can provide email archiving through a separate product. EMC SourceOne is a separate product from Avamar or Data Domain with no integration. (EMC SourceOne Email Management Version 7.2 Administration Guide, 302-000-952, REV 01)
- Veritas NetBackup provides integrated archiving for file-systems, but requires Veritas Enterprise Vault for eMail and SharePoint archiving. (Veritas NetBackupTM Administrator's Guide, Volume I, UNIX, Windows, and Linux, Release 7.7)

10. SEARCH AND eDISCOVERY

Obtain total visibility of data across archive and backup.

- EMC can provide Content Indexing for eDiscovery across archives utilizing SourceOne Discovery Manager and across archives and backups with SourceOne eDiscovery-Kazeon. Both require a separate infrastructure without integration with NetWorker.
- Veritas integrated Vivisimo as NetBackup Search in March 2012, but discontinued the integration with the release of NBU v7.7. (Veritas NetBackupTM, Release Notes, Release 7.7, Document Version 1, pg. 32). NetBackup is limited to searching backup images utilizing the NBU Catalog Utility (Veritas NetBackupTM Administrator's Guide, Volume I, UNIX, Windows, and Linux, Release 7.7, pg. 952). Content Indexing and eDiscovery require the use of Enterprise Vault (across archived data) or ClearWell solutions)

11. ENDPOINT DATA PROTECTION

Mitigate risk with data loss prevention and compliance/eDiscovery; drive productivity with secure file sharing.

- EMC recommends; When deploying Avamar Desktop/Laptop to a location with existing Avamar servers, use an additional Avamar grid to support the desktop and laptop clients. (EMC® Avamar® 7.2, Operational Best Practices, P/N 302-001-931, REV 01, p. 68). Avamar does not provide mobile access. EMC also offers EMC Mozy for desktop/laptop protection which is a separate product with separate management and infrastructure. EMC Mozy can provide file sync capabilities with Mozy Sync. http://mozy.com/product/solutions/file-sync
- Veritas provides the Veritas Desktop/Laptop OptionTM. This is a separate product from NetBackup which has a unique server, database and administration console. (Veritas Desktop and Laptop Option™ version 8.0, Administrator's Guide, pg.14). Veritas NetBackup DLO does not support content indexing or HTML previews. (Veritas Desktop and Laptop OptionTM version 8.0, Administrator's Guide)

12. ADVANCED REPORTING

Provide a global view to inform and drive decisions in capacity management and planning, SLAs and operations.

- EMC provides Data Protection Advisor for operational reporting, a separate product with a standalone infrastructure. It does not provide file level reporting on file types, size, owners or aging. (EMC® Data Protection Advisor, Version 6.2 SP1, Report Reference Guide, 302-001-677, REV 02)
- Veritas provides OpsCenter for basic operational reporting. You can expand the operational reporting and provide more detailed reporting and chargeback reporting capabilities by adding OpsCenter Analytics (additional license). Ops Center does not provide for File Level analytics. (Veritas OpsCenter Administrator's Guide, Windows and UNIX, Release 7.7, pg.558)

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