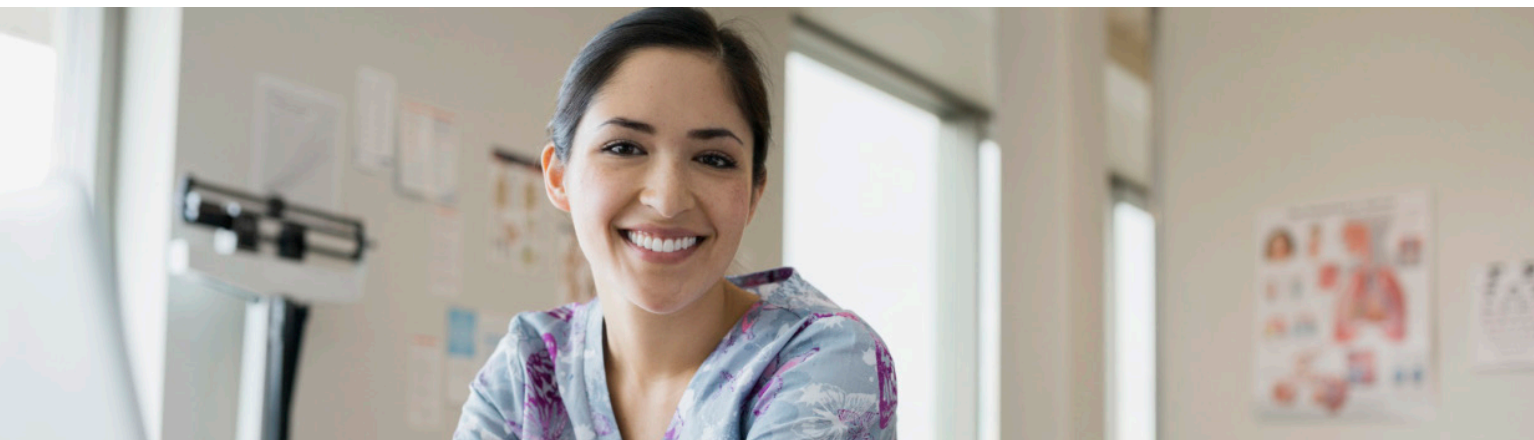# COMMVAULT®

▶ Commvault® Electronic Health Record Data Protection

A SOLUTION DESIGNED TO HELP YOU MANAGE, PROTECT, AND ACCESS YOUR CRITICAL PATIENT DATA

▶ KEY BENEFITS

The adoption of electronic health record (EHR) systems has resulted in unprecedented growth of digital protected health information (PHI). As this information becomes increasingly important to clinical operations – and a constant target for cyber criminals - healthcare organizations are turning to Commvault to replace their legacy data protection solutions to backup, archive, and recover EHR data. EHR Data Protection from Commvault sets itself apart by offering the precision of Commvault® snapshot management technology and the flexibility of the Commvault data management platform. With this solution, healthcare organizations are uniquely equipped to address key EHR data protection challenges.

- Capture and protect clinical data in seconds, drastically reducing EHR downtime and ensuring recent backups are available when needed.
- Achieve rapid time-to-recovery, with options ranging from hardware-level and file-level recovery.
- Manage all data across your enterprise – including your EHR data – with Commvault's single, integrated solution.

- Implement standard and comprehensive data protection policies to maximize IT resources across the enterprise.
- Reduce storage costs with Commvault's hardware-independent approach to protect investments and avoid vendor lock-in.

- Assists your transition to cloud computing with technology that is specifically built for the cloud.
- Meet compliance requirements for data retention and leverage real-time reporting capabilities for disaster recovery planning.

▶ Commvault's robust EHR business continuity and disaster recovery strategies protect your clinical data, reduce risk, and help you meet EHR availability and compliance requirements.

ARE YOU CONFIDENT IN YOUR EHR DATA PROTECTION STRATEGY?

Loss of EHR data can not only lead to massive disruption in business outcomes but also lead to potential loss of life and patient harm. With data protection and recovery solutions, healthcare organizations are positioned to protect confidential information against growing cybersecurity threats, such as ransomware, unauthorized access to patient data, etc. However, many backup solutions rely on a number of scripts to manage the backup process - often resulting in unreliable recovery of critical data.

▶ ## WHY IS EHR DATA PROTECTION CRITICAL?
Data center outages have significant implications for healthcare organizations.

FINANCIAL IMPACT

$7,900

Expected Cost of Outage per minute

CLINICAL AND OPERATIONAL IMPACT

- Operational disruption impacting patient confidence and satisfaction.
- Potential for adverse clinical outcomes.
- Delays in revenue cycle activities.

Average Cost of Outage Per Incident

$690,000

The cost can be as high as $1.74M for Larger Healthcare Groups

Source: Ponemon Institute/Emerson Network Power Report
http://healthcarenews.comdata-center-outages-come-monster-pricetag

THE IMPACT OF EHR SYSTEM DOWNTIME

Commvault is a leading provider of data protection and information management solutions, helping healthcare organizations worldwide protect and manage massive volumes of data and meet compliance requirements. Through its single integrated platform, Commvault enables healthcare organizations to maintain the security and privacy of patient information of PHI generated by EHR systems, such as Epic and MEDITECH. Commvault also delivers a cost-effective archiving solution that easily scales the infrastructure while keeping complex database environments protected.

With products and services delivered directly and through a worldwide network of partners such as Cloudwave, ePlus, and a large number of managed service providers, Commvault solutions comprise the industry's preeminent portfolio in data protection and recovery, cloud, virtualization, archive, and file sync and share.

HEALTHCARE REQUIREMENTS	COMMVAULT SNAPSHOT MANAGEMENT DELIVERS
Improve business continuity & disaster recovery	• Data resource management and application recovery with multiple snapshots throughout the day • Centralized, unified management, recovery operations across systems, applications and sites • Restore entire file systems and databases within moments of failure without administrative intervention • Multiple recovery options with different retention settings on different storage tiers
Comprehensive data protection	• Flexible IT infrastructure for data protection across physical and virtual servers • VMs are automatically assigned to new protection policies
Increase storage efficiency & security	• Embedded compression and deduplication software minimizes network traffic and reduces storage footprint • Comprehensive software and hardware encryption
Meet regulatory & compliance guidelines	• Long-term archiving • Create retention copies with recovery from any snapshot, back-up or archive copy

TECHNICAL SOLUTION OVERVIEW

Commvault® IntelliSnap® technology is an industry-leading solution for snapshot management that streamlines and simplifies complex processes, making snapshots more valuable and effective at protecting and recovering data and applications.

Automated snapshot management
Delivers a modern approach to data protection that merges storage system hardware snapshots directly into the data protection process.

Orchestrated operational recovery
Provides intuitive search capabilities and granular recovery within and across snapshots.

Streamlined replication and accelerated test and development operations
Simplifies disaster recovery and test/dev environments by managing array-based replication and the creation of writable snapshot copies.

Truly unified protection and recovery from primary storage to archive
Combines all tiers of protection into a common interface with a single window for management, operations, reporting and alerting.

Commvault IntelliSnap technology centralizes snapshot management across different storage platforms; automates object, application, and database recovery; and integrates snapshots with backup processes. The tight coupling of snapshots with data protection and recovery operations enables Commvault software to provide a complete view into data across applications, devices, and locations, cutting administrative overhead and improving access, availability and IT efficiency

SOLUTION COMPONENTS

Instant Recovery
Point-in-time restore capabilities for the various databases while the snapshots are still on the array(s). Administrators can choose to replicate the snapshots to a secondary array, using built-in replication on the SAN or Commvault-managed replication.

Current Backups
Commvault recommends that customers create a backup copy of the data from the initial snapshot. Commvault IntelliSnap technology automatically creates a copy of the data on disk, tape, or cloud for recovery purposes for cases when the snapshot(s) are no longer available.

Long Term Data Retention
The Commvault solution for archiving is comprised of two distinct operations. Commvault IntelliSnap technology first protects the archive application database during the protection operation for the EHR databases. The Commvault File System OnePass archive agent then archives infrequently-accessed documents into the Commvault ContentStore where it is accessible, as needed, by the EHR application.

**Commvault® Data Protection for MEDITECH Systems**

Learn how the Commvault MEDITECH Data Protection Solution integrates Commvault's IntelliSnap technology to create consistent array-based snapshots and to backup MEDITECH's MAGIC, Client/Server 5.x, and 6.x platforms data to disk, tape, or cloud storage for long term retention.
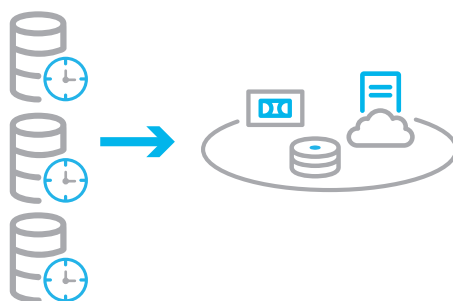
DOWNLOAD NOW

commvau.lt/2eyTwZp

Comprehensive EHR Protection
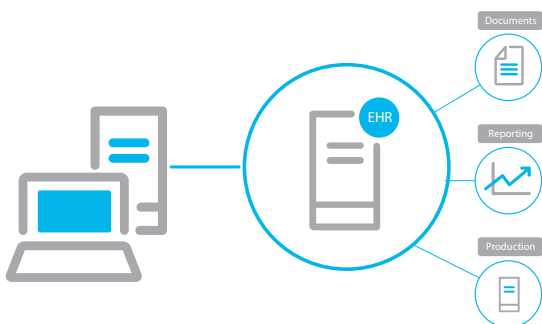
- Includes all databases and file systems for both physical and virtual deployments

Documents

Reporting

EHR

Production

Streamlined Snapshot and Storage Process

- Data is copied off to disk, tape, cloud or a combination using the storage hardware of your choice

Complete Data Management

Manage

Recover

Report

- Includes all databases and file systems for both physical and virtual deployments

To learn more about how Commvault can protect your EHR data, visit **commvault.com/healthcare**.

COMMVAULT

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