

## ProStor InfiniVault — The Best Storage for EMR

Electronic Medical Records or EMR are medical records that are in a digital format and may originate from many different sources. The records may be created digitally by systems running specialized software, by specialty devices that record vital information, or even by scanned paper documents. The point of commonality is that all Electronic Medical Records must be stored and retained for a defined period of time under a specific set of rules.

The complexity of meeting the requirements for storing EMR and the economics for retaining the records over time can be effectively addressed with the best solution available; ProStor InfiniVault.

The requirements for storing Electronic Medical Records are focused on meeting privacy needs because the EMRs contain Protected Health Information (PHI) which is regulated by the Health Insurance Portability and Accountability Act (HIPAA). The regulations cover many aspects of protecting data but when considering storing the information, the ProStor InfiniVault meets all of the requirements with an automated solution:

- The information is stored in an immutable form (WORM) to meet the requirements that the information is not alterable or erasable.
- Information stored by InfiniVault is secure with control of all access through authentication of authorization.
- An audit trail for all information is created and maintained by the InfiniVault system.
- The Protected Health Information (PHI) is protected from disaster by InfiniVault making multiple copies of information on RDX removable disk cartridges.
- Information on the RDX removable disk cartridges is encrypted to protect from any unauthorized access.

Storing the growing amount of data represented by EMR also has to meet the economic requirements for institutions. ProStor InfiniVault provides the most cost effective storage for medical data. Typically EMR has very long-term retention requirements with much of the information being kept for decades.

- ProStor InfiniVault with its usage of the RDX removable disk cartridge protects data for up to 30 years without having to migrate information from one cartridge to another.
- The use of disk technology in the RDX cartridges protects from technology obsolescence with complete forward and backward compatibility of the RDX removable disk cartridge used in ProStor InfiniVault.
- ProStor InfiniVault uses industry standard interfaces and will interoperate with a wide variety of EMR software solutions.



- The unique Vault implementation by ProStor InfiniVault enables information to be isolated and under differing sets of rules and allows InfiniVault to support simultaneous usage by HIS, EMR systems, diagnostic image storage, PACS, RIS, and modality systems with DICOM enabled access as required.
- InfiniVault can scale to meet the capacity demands and do so at the lowest cost increment of a single RDX removable disk cartridge.
- Compression and file-level deduplication of data is done to minimize the actual data stored.

The capacity requirements for EMR can grow to significant demand and without a storage system such as the ProStor InfiniVault that can scale economically, the costs could potentially become overwhelming. As an example, the following table shows capacity requirements:

How big can an EMR become?
• Less than 1MB for a relatively healthy adult patient
• 1MB per page for scanned, paper-based data in TIFF format
• 40MB without images for a patient with major medical issues
• Approximately 300MB per image if picture archiving and communication system (PACS) images are included
• 3GB minimum per patient with no annotations if genome data is included

The ProStor InfiniVault is the best storage system for Electronic Medical Records. The InfiniVault meets all the requirements for protection of healthcare information according to HIPAA regulations and the most cost-effective solution for long-term retention of information with the ability to economically scale to meet demand.

## PROSTOR InfiniVault®



*ProStor InfiniVault® Product Family*