

# Medical Imaging with Dell APEX Data Storage Services File

## Benefits:

- Eliminate capital budget constraints associated with tech refresh cycles
- Simple configuration, monitoring and management from a single console
- Respond dynamically to changes in workload requirements
- Align expenses with actual vs anticipated usage
- Connect to your cloud of choice while maintaining control of data
- Designed for 99.9999% availability<sup>1</sup>

## Shift from maintaining infrastructure to advancing healthcare

Businesses everywhere are grappling with a substantial increase in data volume that needs to be managed, stored, and protected. In the healthcare industry, IDC predicts that data is expected to reach 10ZB (zettabytes) by 2025.<sup>1</sup> This presents a unique challenge as healthcare organizations are tasked with handling massive amounts of patient data while also retaining it 20% longer than other industries to comply with regulatory and legal requirements.<sup>1</sup> Despite these complexities, the abundance of data presents an opportunity for healthcare providers to discover new insights and deliver more tailored care to patients. The data growth in healthcare is fueled in large part by the adoption of advanced imaging technologies and continued digitization across healthcare facilities, resulting in an increased volume of captured and generated medical images. By consolidating medical images from different departments into a single, unified deployment in a PACS or VNA, healthcare organizations can reduce costs, improve operational efficiency, and effectively handle the longer data retention rate.

With the increase in medical images, providers need a storage solution that offers performance, scalability, and security. In doing so, providers must also ensure their solutions are HIPAA (The Health Insurance Portability and Accountability Act) compliant. The HIPAA Privacy Rule requires Covered Entities and their Business Associates to safeguard the privacy of PHI (Protected Health Information) handled in any medium, while the HIPAA Security Rule obligates them to protect the confidentiality, integrity, and availability of PHI they create, receive, maintain, or transmit electronically with administrative, physical, and technical safeguards.<sup>2</sup>

Dell APEX Data Storage Services offers a comprehensive File-based solution to manage this influx of medical imaging data. This offer has undergone an internal assessment to demonstrate compliance with HIPAA for sales to US Healthcare customers (Covered Entities and/or their Business Associates), making it an ideal storage solution for medical imaging.

## Simplify consumption for your medical imaging workflows

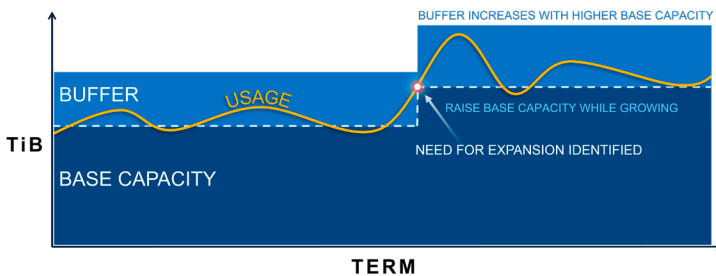
File storage plays a critical role in medical imaging data workflows. Ideal for healthcare organizations of any size, Dell APEX Data Storage Services File is powered by best-in-class scale-out NAS technology, delivering the high-performance and elastic scale of a modernized Storage as-a-Service solution. Now, with the flexibility to deploy your file storage through an as-a-Service model, you can efficiently store, manage, and secure your unstructured data. This approach offers specialists faster access to critical data, the ability to rapidly scale storage capacities, and the opportunity to reallocate IT resources to support other high-value initiatives.

Dell APEX simplifies the process of purchasing, deploying and maintaining infrastructure, enabling healthcare organizations to focus on enhancing patient care delivery. It's as easy as selecting these key service parameters: Management, Location, Base Capacity, Performance Tier and Term.

## On-demand scaling: Pay for what you use

Care providers, researchers, and specialists worldwide are generating a significant amount of data and contributing to the growing wealth of medical knowledge. According to IDC, healthcare organizations currently manage an average of 21PB (petabytes) of data.<sup>1</sup> This data holds immense potential to drive advancements in patient care, medical research, and healthcare outcomes. However, effectively managing and leveraging this vast volume of information presents a challenge that necessitates innovative solutions and robust infrastructure.

To meet the dynamic demands in healthcare environments, Dell APEX Data Storage Services File provides reliable, elastic storage resources with the ability to scale capacity utilization and respond dynamically to changes in workload requirements. You pay a single rate for base capacity and on-demand usage with no overage penalties.



Dell APEX Data Storage Services includes a wide range of capacity and performance options for complex workloads, ensuring that healthcare organizations' data storage requirements do not become a bottleneck. You have the option to increase your base capacity commitment at any time in order to accommodate growth. This enables you to scale up when you need additional storage capacity for unplanned challenges and research workflows.

## Reduce investment risk with flexibility and control

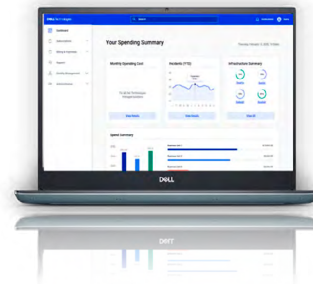
Medical imaging workflows result in massive data generation that must meet SLAs for viewing, annotation, and diagnosis and then efficient archiving in storage infrastructure on-premises, in secure colocation facilities, at the edge and in multicloud environments. With the option to deploy Dell APEX

Data Storage Services on-premises or in a Dell-managed interconnected colocation facility,<sup>3</sup> you can eliminate data center planning activities, accelerate your multicloud strategy and put your data as close as possible to your applications.

Dell has a proven track record for delivering powerful storage solutions backed by world-class support and services. With Dell-owned infrastructure and easy-to-understand contract terms, Dell APEX Data Storage Services File maximizes your operational efficiency, increasing your agility and delivering more value to your organization.

## Manage your entire as-a-Service journey on-demand

The Dell APEX Console is your centralized platform for managing and orchestrating your as-a-Service experience. First, discover Dell APEX cloud and infrastructure solutions and deploy in the location of your choice. Next, gain visibility over costs and forecast capacity with proactive monitoring tools. Then, optimize your Dell APEX solutions as business demands.



## Focus on outcomes, not infrastructure

Dell APEX Data Storage Services File is designed to handle the performance-intensive workflows and high scalability storage requirements of medical imaging environments. With its comprehensive solution tailored to manage ever-growing volumes of data, Dell-managed APEX Data Storage Services has undergone rigorous internal assessments to ensure compliance with HIPAA standards, making it a trusted storage solution for US Healthcare customers. With Dell APEX Data Storage Services, you can focus on delivering patient care, not your IT infrastructure.



[Learn more](#) about APEX Data Storage Services



[Contact](#) a Dell Technologies Expert

<sup>1</sup>IDC White Paper, sponsored by Dell Technologies, "Establishing Uncompromising Data Availability for Healthcare Organizations," doc #US47447321, February 2021

<sup>2</sup>CDC – National Center for Health Statistics – Homepage. <https://www.cdc.gov/nchs>. 2023.

<sup>3</sup> Dell-managed colocation deployment is not available with Customer-managed subscriptions. For regional availability of Dell-managed colocation deployment, visit [Dell.com/Access-APEX](https://Dell.com/Access-APEX).