



CASE STUDY

Ensuring Uninterrupted Patient Care with Advanced Data Protection



The challenge: Safeguarding Patient Data in the Cloud Era

As a leading human services provider expanded its suite of Patient Database Projects, the sheer volume and sensitivity of patient information under its care soared to unprecedented levels. The organization's commitment to excellence meant not only delivering reliable healthcare services, but also ensuring the confidentiality, integrity, and availability of vital patient records.

In response to growing business demands, the provider had begun migrating critical workloads to Microsoft Azure. However, the lack of robust cloud workload protection left the organization vulnerable. With cyber threats—especially ransomware attacks—becoming increasingly sophisticated, any breach could disrupt essential services, erode patient trust, and result in significant regulatory consequences.

The organization faced the daunting challenge of consolidating fragmented legacy backup systems and streamlining data protection into a unified strategy that could safely span both on-premises and cloud environments. Furthermore, the rapid pace of digital transformation required solutions that could scale, adapt, and offer seamless recovery in case of disaster.

The stakes were high: patients depended on the continuous availability and security of their data for quality care. Protecting this information against both current threats and future risks emerged as a mission-critical priority—one that would define the organization's ability to serve its community now and into the future. Lastly, with firewalls nearing the end of their lifecycle, Madison County required a Palo Alto refresh. Balancing modernization with budget constraints was crucial, requiring both strategic planning and reliable execution.

The solution: Transforming Data Security with Integrated Cloud Protection

The organization turned to its trusted partner, C1. The C1 team, recognizing the urgent need to modernize their protection of sensitive patient data, completed a Dell Data Protection refresh and deployed a powerful Integrated Data Protection Appliance (IDPA) solution. This strategic move consolidated formerly fragmented backup systems into a unified, streamlined architecture, enabling secure protection for both on-premises and Azure workloads.

By embracing IDPA, C1 ensured that data migrations to Microsoft Azure maintained the highest levels of confidentiality, integrity, and availability. The solution offered seamless scalability as data volumes grew, while advanced security features provided strong defenses against ransomware and other cyber threats. In the event of an incident, rapid recovery capabilities minimized disruption to patient care and safeguarded ongoing operations. Operational efficiencies followed, reducing IT management complexity and overhead.



The result: Delivering Secure, Scalable, and Resilient Patient Data Management

Since implementation, the organization has reported a 1.4x increase in backup capacity, accommodating growing data volumes without compromising performance or reliability. IT management has become significantly more streamlined, freeing technical staff to focus on strategic initiatives rather than routine troubleshooting. Importantly, the new architecture has bolstered patient trust and met strict regulatory requirements, with audit results reflecting a strengthened security posture.

With the deployment of the Integrated Data Protection Appliance (IDPA) and a refreshed Dell Data Protection strategy, the organization experienced a transformative leap in data security and operational efficiency. Patient data is now protected by a unified backup solution capable of supporting both on-premises and Azure environments, ensuring end-to-end security and compliance with healthcare regulations. The IDPA's advanced ransomware defenses and rapid recovery capabilities have substantially reduced the risk of downtime, enabling care teams to deliver uninterrupted patient services even in the face of cyber threats.

By modernizing its data protection approach, the organization now stands poised to embrace future innovations in healthcare delivery, confident that its critical systems and sensitive information are secure, resilient, and fully aligned with the evolving needs of patients and staff.

The remedy for patient data security

Discover how we enhanced patient data security with cutting-edge cloud solutions. Don't let your data flatline—learn more now about our innovative approach to safeguarding sensitive healthcare information!

Keep your data healthy and thriving: <https://www.onec1.com/contact-us>



C1 designs and delivers technology solutions built for outcomes. We focus on communications, networking, and cybersecurity—pairing leading partner platforms with our advisory, professional, and managed services to make modernization practical, secure, and valuable from day one. Where others talk about transformation, we make it real—faster, simpler, and more resilient. Learn more at [onec1.com](https://www.onec1.com).