Cyber Resilient Data Security and Management for Healthcare and Life Sciences

Key Benefits

- Enhanced cyber resilience
- Significant cost savings
- Faster recovery times
- Streamlined regulatory compliance requirements (e.g., HIPAA, GDPR)
- Simplified data security and management with a single UI

Who We Work With

- National and local healthcare providers
- Healthcare payers
- Pharmaceutical and biotechnology organizations
- Laboratory services
- Drug manufacturers and distributors

The healthcare and life sciences (HLS) industry is experiencing a data-driven revolution, with vast amounts of critical patient data, research findings, and regulatory requirements. Effective data security and management are paramount to ensuring patient privacy, advancing medical research, and achieving compliance. As ransomware attacks rise, healthcare IT (HIT) and life sciences IT teams are challenged to safeguard their critical data while remaining compliant with regulations such as HIPAA and GDPR. Some key challenges faced by HLS industry are:

- **Patient Data Explosion:** The healthcare industry generates massive volumes of patient data, including electronic health records (EHRs), medical images, and genomic data. Managing, securing, and accessing this data is a significant challenge.

- **Research Collaboration:** Life sciences organizations require secure and efficient data sharing and collaboration across institutions, geographies, and disciplines, all while ensuring data integrity.

- **Regulatory Compliance:** Stringent regulations, such as HIPAA and GDPR, demand strict adherence to data protection and patient privacy standards, making data governance and compliance crucial.

- **Data Protection:** The critical nature of patient data means that any loss or breach can have dire consequences for individuals and organizations, necessitating robust data protection measures.

> "We're trying to deliver quality healthcare with limited budget and resources. Cohesity is reliable and on top of that, we get the ease-of-use value and the speed at which it performs. All of Cohesity's innovation helps our engineers do something immediately and then quickly move to the next task. Now as my team says, it's also putting ransomware extortionists out of business."
>
> – **John Gaede**, Director of IS, Sky Lakes Medical Center

Enhancing cyber resilience for healthcare and life sciences enterprises

Cohesity and Lenovo have partnered to provide comprehensive solutions tailored to the unique needs of the healthcare and life sciences industry. Our proven modern data security and management solutions help healthcare and life sciences IT teams enhance their cyber resilience, so they can proactively detect cyber threats and protect their data from ransomware attacks. The bundling of Cohesity's AI-powered data security and management platform with Lenovo's highly reliable and performance-centric ThinkSystem servers helps financial services organizations simplify, protect, and recover their data across on-premises, hybrid, and multicloud environments.
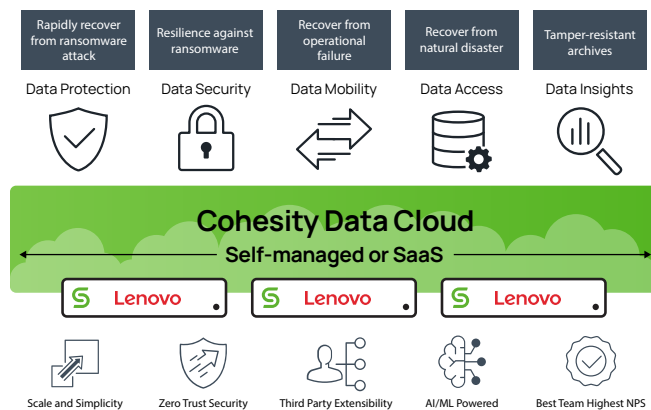
Modernize backup and recovery for data resilience

Cohesity DataProtect is certified to run on the industry-leading Lenovo ThinkSystem servers that delivers the most comprehensive backup and recovery solutions to protect cloud-native, SaaS, and on-prem healthcare enterprise data including EHRs and EMRs at scale with a unified data security and management platform that accelerates and simplifies backup and recovery.

- **Data Classification**: Cohesity's highly accurate ML-based data classification engine classifies sensitive data automatically or on-demand, including personal identifiable information (PII), PCI, and HIPAA.

- **Data Consolidation**: Cohesity's platform consolidates data from various sources, including EHRs, PACS systems, and research databases, into a single, easily accessible repository.

- **Global Search and Analytics**: Powerful search and analytics capabilities facilitate quick data discovery, aiding researchers and healthcare professionals in making informed decisions.

Improve response and recovery for cyber resilience

Cohesity DataHawk on Lenovo ThinkSystem servers helps financial enterprises protect and recover against ransomware with threat protection, cyber vaulting, and AI-powered data classification—by identifying threats, assessing attack impact, and confidently recovering critical data. Lenovo Think System servers have built-in, standards-based security for enhanced platform protection with an increased number of the latest security standards. According to the ITIC 2022 Global Server Hardware Security Report, in 2022, "only 2% of Lenovo ThinkSystem servers experienced downtime due to a hack attack. This was down from 4% of Lenovo ThinkSystem servers that suffered unplanned downtime due to a security attack in 2021." Cohesity and Lenovo provide robust data protection mechanisms to safeguard critical patient records and medical research data. These include:

- **Robust Multi-layered Security:** In addition to DataHawk's comprehensive security capabilities, Lenovo's ThinkSystem have Lenovo's immutable hardware Root of Trust (RoT) that ensures the server can only be booted with trusted firmware and enables recovery in the unlikely event of tampering or corruption.

- **AI-powered Ransomware Detection:** Cohesity's solution includes built-in ransomware detection capabilities that immediately analyze data ingested from production environments on every backup for telltale signs of unusual activity or data changes, like those related to ransomware attacks.

- **Instant and rapid Recovery at Scale:** Cohesity provides instant and predictable recovery at scale by providing organizations immediate access to critical business processes and data to meet their demanding recovery time objectives (RTOs).

- **Cyber vaulting:** Securely isolate data offsite in the cloud via a virtual air gap and other built-in security features to prevent access and tampering of vault data and policies.

- **Data classification:** Accurately detect and identify sensitive data or personal identifiable information (PII). More quickly and easily understand and assess the impact of an attack and determine if sensitive information was compromised.

Regulatory compliance

Cohesity and Lenovo help healthcare and life sciences organizations meet regulatory requirements through:

- **Data Governance:** Comprehensive data governance features, including data classification and automated data retention policies, help ensure compliance with industry-specific regulations.

- **Audit Logs:** Detailed audit logs and reporting capabilities assist in demonstrating compliance with data protection and patient privacy regulations.

Why Cohesity and Lenovo

- Certified and pre-tested solution: Cohesity and Lenovo have certified several solutions that combine Cohesity's software with Lenovo's hardware. These solutions are pretested and validated, ensuring they're both compatible and interoperable. This helps reduce deployment time and risk.

- Best of both worlds: With Cohesity now certified on a range of Lenovo ThinkSystem servers that are powered by both Intel and AMD processors respectively, our healthcare customers enjoy added resilience and improved security against ransomware threats while getting diverse choices for different sites.

- Proven success and global support: Several healthcare and life sciences organizations across the globe have already benefited from Cohesity and Lenovo joint solutions. A world-class network of Lenovo and Cohesity experts provides global support for seamless deployment and operations.

In the healthcare and life sciences industry, effective data security and management are non-negotiable. Cohesity's modern platform integrated with Lenovo ThinkSystem servers provide proven solutions to address industry's unique challenges, offering data consolidation, security, compliance, and collaboration features. By choosing Cohesity and Lenovo solutions, healthcare and life sciences organizations can harness the full potential of their data while ensuring its protection and compliance with stringent regulations, ultimately driving advancements in healthcare and research.

To learn more about how Cohesity and Lenovo can help you strengthen your healthcare and life sciences organization's cyber resilience, visit www.cohesity.com/solutions/technology-partners/lenovo/

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