CRYPTERON
INSTANT DATA SECURITY

Welcome to HIPAA compliance. *Simplified!*

You're probably already wondering what HIPAA compliance is and how Crypteron can help. Don't worry, we're here to help you navigate this complex topic. No time to lose, so let's get started

What is Crypteron?

Crypteron is the world leading data security platform for enterprises building cloud applications. Crypteron consists of the cloud (or on-premise) service as well as the SDK packages that integrates everything together. With Crypteron, you can be HIPAA compliant without the usual complexity, cost and mistakes. Crypteron handles the data encryption and key management requirements for HIPAA compliance so your business can focus on features that delight your end customers.

Testimonials

> *"We all love that it's a turn-key solution that maintains our strict security and HIPAA compliance requirements"*
>
> – William Ward, CIO, GivePay Commerce

> *"Crypteron is the best product for our data security needs"*
>
> – Samuel Butler, CTO, FSoft/Swoosh Finance

> *"Crypteron is awesome. You guys ranked 1st in our internal vendor bake-off covering the top 20 vendors. It was powerful yet so simple that even our junior developers were immediately productive."*
>
> – EVP, Top US Bank *
>
> * private due to bank policies

Key features

✔ Fastest Integration: The typical Crypteron integration takes 15 minutes from no data security to completely done. Why spend 12 or more months with complex solutions from other vendors?

✔ Automatic Management: Encryption keys are automatically managed by the Crypteron cloud and agent libraries. Keys are themselves encrypted and stored separately from the rest of your infrastructure - just as demanded by HIPAA DSS. You can always use the Crypteron Dashboard to manage advanced use cases.

✔ Regulatory Compliance: Crypteron enables compliance for your application with standards like HIPAA-DSS, GDPR, HIPAA, FISMA and more. One solution covers multiple compliance standards. Who doesn't like that?

✔ Built for performance: Crypteron's advanced security keeps latencies under 1 millisecond and throughput above 4 GB/sec by utilizing hardware-based AES-NI acceleration and detailed optimizations. As the rest of your application scales in size, so does the data security components powered by Crypteron's agent libraries.

✔ Any Cloud, Any Database: Whether you're dealing with SQL Server, MySQL, object stores, message queues, a big data analytics cluster, streaming data – Crypteron covers everything with one solution instead of managing multiple incompatible security systems. And this capability works in any cloud or non-cloud (e.g. bare-metal server closet) scenario.

✔ Unbreakable military grade AES 256 encryption: Crypteron uses authenticated AES 256-bit in GCM mode that's so robust that even the National Security Agency (NSA) recommends it for protecting of military classified information.

What is HIPAA? And HITECH?

HIPAA stands for Health Insurance Portability and Accountability Act (HIPAA) of 1996. HITECH came a later in 2009 and stands for Health Information Technology for Economic and Clinical Health (HITECH). It builds upon HIPAA and adds more technical requirements to protect electronic health records (EHRs).

Please note that this document should be considered as guidance since a full discussion of HIPAA (which for example includes hiring practices) is outside its scope. When in doubt, one should consult the official HIPAA specifications and your own legal counsel.

Here we focus on Part 164 governing security and privacy requirements within HIPAA. Without Crypteron's security platform, a very detailed and very expensive audit process is required to prove that data privacy and security is safely contained

HIPAA Controls

The official HIPAA specification lists the complete set of controls; we'll cover the most powerful ones here to help you get started quickly.

§164.306 Security Standard

✓	a) General Requirements	Crypteron's use of strong encryption, authentication tags, data silos, key management, key access-controls and other features bring far reaching, general compliance
✓	b) Flexibility of Approach	Crypteron is simple to integrate and manage, empowering even the smallest of organizations.
✓	c) Standards	Enables simpler compliance with sections §164.308, §164.312, §164.314 and §164.316

§164.308 Administrative Safeguards

✓	a-2) Assigned Security Responsibility	The management dashboard enables a clearly identified security manager to control cryptographic keys. This also separates operator responsibilities from developer responsibilities.
✓	a-3) Workforce Security	Crypteron uses a single consistent dashboard to express workforce policy based on roles and levels of access. This is uniformly applied across all of our data products like CipherDB, CipherStor and CipherObject

§164.312 Technical Safeguards

✓	a) Access Control	Crypteron use encryption and API security to enforce that only authorized software has access to keys and protected data. Crypteron also ensures that only authorized security managers have access to the control dashboard.
✓	b) Audit Control	Crypteron's dashboard shows audit history on changes to the encryption keys
✓	c) Integrity	Crypteron uses authenticated encryption with in-built authentication tags that protect against any form of data tampering.
✓	e) Transmission Security	Crypteron offers both data-at-rest as well as data-in-transit security via strong military grade encryption even without SSL.

What's the next step?

You made it this far – congratulations! As you can see, HIPAA compliance is a complex topic and requires coordinated work between you and several of your other vendors. However, the core part is protection of healthcare data and Crypteron has you covered very well there.

Get started for free today at crypteron.com or contact us at sales@crypteron.com.