



DPaaS (Data Protection as-a-Service)

Secure Your Business Data Every Step of the Way

One of the most persistent challenges for a business is the ability to properly secure data across various systems, people and 3rd parties. In the modern landscape of business, where fast to scale and quick to iterate are critical to both short- and long-term success, the use of cloud-based applications and services is becoming more and more prevalent. With that ushers in the challenge of protecting your data while still making it accessible, available in a controlled fashion.

CipherCloud DPaaS (Data Protection as-a-Service) solves this challenge by enabling your business to secure any data (incl. PII, PHI) through a frictionless API at the application level. Gone are the days of increased deployment complexity at higher technology stack levels. With CipherCloud DPaaS and its rich feature set and compliance standards, your business can integrate high level data security practices despite business model complexity.

Unlike other encryption & tokenization technologies, CipherCloud DPaaS offers:

▶ Data Sovereignty Assurance

Laws in some regions dictate that sensitive data cannot leave an organization, even if it is encrypted. CipherCloud addresses this with advanced cloud tokenization, replacing sensitive fields with randomly generated tokens that are structurally similar but have no mathematical correlation to the original data. The original data and mappings are stored locally in a JDBC-compliant database.

▶ Zero Trust Encryption

While many cloud security solutions focus on data encryption at rest, CipherCloud brings a comprehensive encryption solution that protects data no matter where it is — “at rest,” in network transit, in the cloud application layers (API, middleware, in memory), and in use. This helps prevent threats such as credential theft, account hijacking, insecure APIs, malicious insiders or forced government disclosure that primarily target data in-use, not at rest.

▶ Multiple Key Management Options Including BYOK & HYOK

Customers maintain exclusive control over their encryption keys and are never required to share them with cloud service providers or third parties - thus preventing confidential data disclosure even during breaches.

▶ Centralized management

CipherCloud offers multi-cloud protection across the widest range of SaaS apps including, Salesforce, Office 365, ServiceNow, Box, SAP SuccessFactors, Azure, AWS, and many more. This enables a consistent approach to policy controls for all your existing and new, upcoming cloud applications.

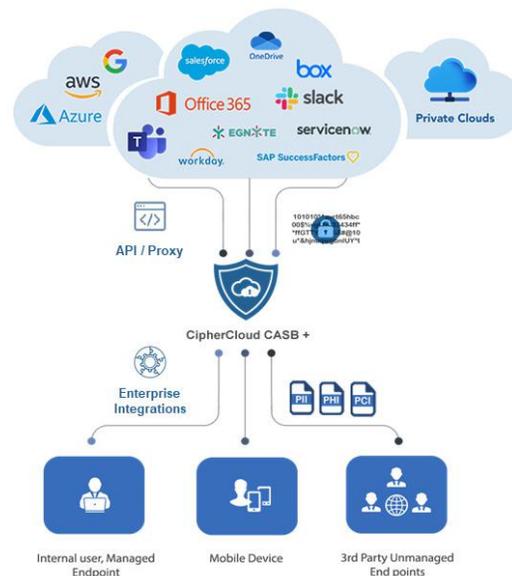
CipherCloud DPaaS Encrypt or Tokenize

DPaaS is Encryption and Tokenization service available as an API for instant integration for your applications. Designed for today's data-centric businesses, DPaaS allows anyone to encrypt (on demand) any data type to meet any data governance, policies or compliance needs - all the while allowing full control of your data and the associated keys!

Key features:

- Agentless
- Strongest security - FIPS 140-2 certified
- Hold or bring your keys
- API and gateway solutions that require no database
- Encrypt or Tokenize - API provides the flexibility depending on the application or use-case
- Function Preserving
- Meet Compliance - HIPAA, GLBA, GDPR, CCPA, PCI, SOC2, ISO27001

Support for the following cloud services and more:



DPaaS Platform

Our modern, built-for-scale encryption technology handles various data types and formats for PII, PHI, such as Phone Number, First Name, Last Name, SSN, Email, Credit Card Info, etc. Function preserving, searchable strong encryption is backed by AES 256. Various functions supported include Sort, Prefix, Suffix, search-ability, Case sensitive etc. With 10 years of production battle tested (many Fortune 1000 clients), enterprise-grade platform includes Key Management Service (KMS) with built-in key rotation.



CipherCloud DPaaS Platform provides the following core functions out of the box:

- RESTful/SOAP APIs for both legacy and modern apps
- Flexible deployment model - Cloud-delivered, on-premise and hybrid
- Support for any information type, from any system or application and usable from any device
- Parsing engine for field extraction and transformation (several standard parsers are included for HTML, XML, JSON etc.)
- Built-in Encryption Key Management System (KMS), support for external Key Managers and vaults
- Encryption & Tokenization - Format, function and length preserving
- Stateless and vault less tokenization
- Bulk file transformation for existing data and special needs
- Unified Policy Control across all applications
- Option of web app proxy to enable transparent encryption without changing the applications
- Built for scale and very high performance

For more information on CipherCloud visit <https://www.ciphercloud.com/DPaaS-platform>

Additional Benefits

DPaaS service is available as part of our platform and includes:

▶ Content Security

Built with modern business models in mind, DPaaS solution helps secure structured (field level) and unstructured (files and free-form text) data - i.e. any information.

▶ Malware scan

Protect your infrastructure from customer oversight. DPaaS platform scans customer uploads for malware and other malicious threats.

▶ DLP Scan

Identify, monitor, and apply protective controls to sensitive documents or data that need to leave your network through watermark and fingerprint scanning.

▶ Information Rights management (IRM)

Protects files from unauthorized copying, viewing, printing, forwarding, deleting, and editing. Covers violations, quarantine and DRM wrapper.

▶ Meet Compliance

Faster Compliance for your sensitive business and customer data including Audit Trail and logging CCPA, HIPAA, PCI, GDPR, ITAR, GLBA and Data Residency.

▶ Adaptive Access control

Evaluate just-in-time context and simplify access requests by considering the day, date, time and location when a user accesses resources to determine their ability to access those systems.

Awards



About CipherCloud

CipherCloud delivers the market's leading approach to integrated CASB, SASE, and Data Privacy, addressing the full scope of customer requirements across cloud access, discovery, monitoring, data protection, policy enforcement and compliance. CipherCloud CASB+ has been named SC Magazine Cloud Security Product of the Year, Overall Leader in the CASB market by KuppingerCole, and a Visionary by Gartner, while counting numerous global 1000 companies among its rapidly growing customer base. CipherCloud is backed by Andreessen Horowitz, Transamerica Ventures, Delta Partners and DTCP, the venture arm of Deutsche Telekom. For more information, visit www.ciphercloud.com and follow us on Twitter @ciphercloud.



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