Securosys 365 DKE

Safeguarding Microsoft Office 365 data with your secure HSM keys

Securosys 365 DKE is a Swiss Cloud service designed to encrypt Microsoft Office application data in the Microsoft Azure Cloud using Double Key Encryption (DKE). Similarly to a Cloud Access Security Broker (CASB), it encrypts highly sensitive data on the client side before transferring it to the cloud, ensuring robust security and regulatory compliance with two encryption keys: one controlled by you and one stored in Azure.

Built on Microsofts DKE sample code, Securosys 365 DKE has been significantly enhanced for increased functionality, robustness, and enterprise alignment. Leveraging Securosys CloudHSM technology, it provides the highest grade of customer key protection. The Securosys 365 DKE Console (Cockpit) facilitates the dynamic creation of DKE Web Service API apps, DKE keys, tenants and sub-tenants for specific domains (B2B), with a strong focus on Cross-Site-Request-Forgery (CSRF) protection.

- GetKey and Decrypt Endpoints: Respectively encrypts the document key using a public key retrieved from the Securosys HSM, and decrypts the document key using a private key that remains securely within our HSM.
- CRUD (Create, Read, Use, Delete) operations on keys.
- Management of DKE apps for specific domains.
- Protection against Cross-Site-Request-Forgery (CSRF).
- Comprehensive logging for cryptographic operations.
- Two-factor authentication (2FA) and support for any OpenID Connect identity provider.

Globally Accessible

Securosys 365 DKE is available 24/7 as a cloud-based service, accessible from anywhere in the world.

Highest Compliance Standards

Our solution adheres to stringent security standards. Keys are stored on FIPS 140-2 level 3 and Common Criteria EAL4+ validated HSMs, and our service operations are ISO 27000 certified, ensuring the highest data protection and compliance.

Ready to use

Securosys 365 DKE's high-availability architecture allows for instant deployment within minutes

Fully Managed DKEaaS

Our solution can be deployed in your environment in an hour or less, providing immediate benefits and minimal disruption.

Seamless Integration with Microsoft Azure

Enjoy auto-provisioning of the DKE Endpoint Provider by customer DKE administrators, and seamless integration with Microsoft 365 Purview.

User-Friendly Management Panel

Effortlessly configure settings, manage keys (CRUD), and oversee DKE apps with the Securosys 365 DKE Console. Easily audit cryptographic operations.

Components	Description
DKE Cryptographic Service on HSM	**Hardware Secured Cryptographic Keys for Microsoft 365 DKE Based on Securosys CloudHSM** ▪ Geo-redundant HSM clusters co-located in datacenters in Switzerland (optional: Germany, US, and Singapore) ▪ Generation and storage of DKE service keys on Securosys Primus HSMs (FIPS 140-2 Level 3 and Common Criteria (CC) EAL4+) ▪ Unwrapping of document encryption keys: AES 256-bit, wrapped with RSA2048
DKE Web Service API	**DKE Endpoint Provider** ▪ Auto-provisioned, high-available, DoS protected and managed DKE service ▪ Fully integrated DKE service for Microsoft Purview Information Protection Sensitivity Labels with DKE keys backed by CloudHSM service ▪ GetKey and encrypt endpoints ▪ External double key encrypted document sharing beyond Microsoft Tenant borders (B2B)
DKE Console	**Key Management System User Interface** ▪ Securosys 365 DKE key lifecycle management console for customer administrators ▪ Generation of DKE RSA-keys on HSM ▪ Provisioning and configuration of DKE endpoint providers ▪ Audit and monitoring of DKE key usage ▪ User and policy management of console administrators ▪ Identity Access Management interface for integration with IAM solutions (optional)
Operations	**DKE Managed Service** ▪ Managed cloud service ▪ Operated by Securosys from Switzerland ▪ Cloud native design ▪ Zero-down-time architecture ▪ 7x24 Monitoring and Support ▪ Securosys 365 DKE service is ISO/IEC 27001 certified

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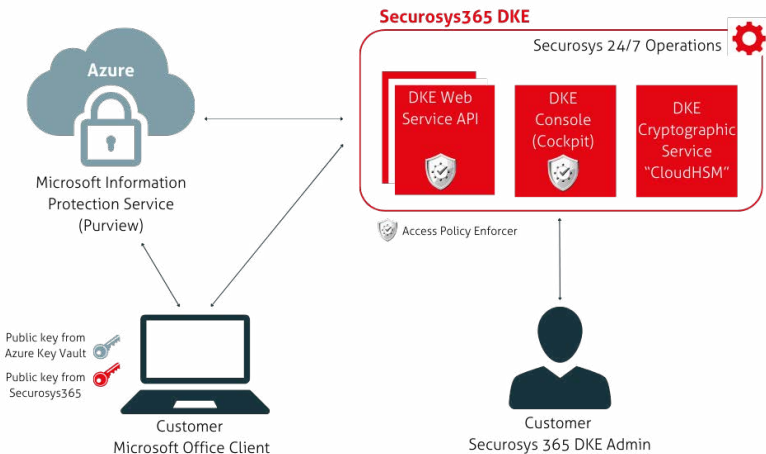www.securosys.de

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How does it work?

Prerequisites for Using Securosys 365 DKE Service

To use the Securosys 365 DKE service, subscribers must meet the following requirements:
▪ Office 365 E3 + Microsoft 365 E5/A5/F5/G5 Information Protection and Governance + EMS E3, or Microsoft 365 E5/A5/F5/G5 Compliance + Microsoft 365 F5 Security & Compliance, or Microsoft 365 E5/A5/F5/G5 Information Protection and Governance, or Office 365 E5 + EMS E3, or Microsoft 365 E5/A5/G5
▪ Microsoft 365 Office Apps (2307 or later)

We strive to continuously improve our offerings and therefore reserve the right to change specifications without notice. Designed and manufactured in Switzerland.