

Securosys

Securosys 365 DKE – Double Key Encryption

Get the ultimate privacy for Microsoft Office 365 data. *Double Key Encryption* protects your sensitive data like valuables in the safe deposit box of a bank.

- FIPS 140-2 Level 3, Common Criteria EAL4+ and ISO27001 certified,
- Components and services developed, built and operated in Switzerland,
- Instantly available, in the cloud, from datacenters all over the world.

Considering *Microsoft Office 365* as their choice of moving to the cloud, enterprises, law firms, government agencies and health care organizations, protect their data with *Securosys 365 DKE*. That's how they keep sensitive data private. Even in the cloud.

User controlled and separately managed encryption keys protect data from unauthorized provider access. Only users with access to both keys, those of Microsoft *and* the other ones from Securosys, can use the *Double Key Encryption* API provided with the MS Office 365 Apps to decrypt data. Not even Microsoft can.

Using *Double Key Encryption* is as simple as flagging content with sensitivity labels of *Microsoft Purview Information Protection (MIP)*. It's choosing "confidential", "secret", or "top secret" from the menu in Word, Excel etc. No project, no hardware, no software, just service.

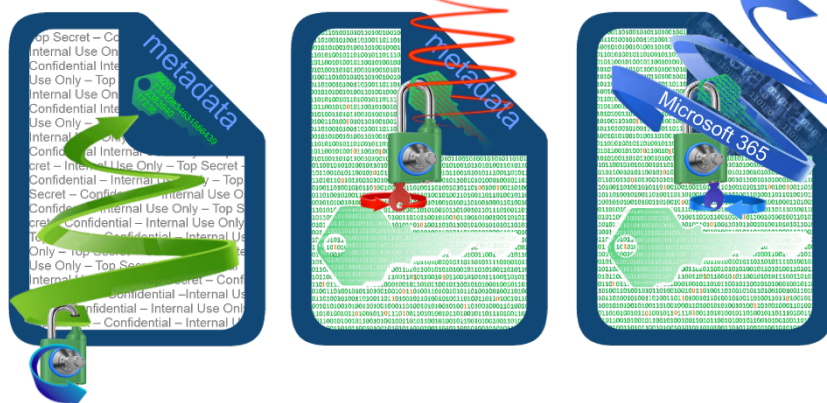
File Encryption Process

When applying an MIP sensitivity label enabled for DKE, an Office 365 App first encrypts the content of the file with a local *Content Encryption Key*, and this key is saved to the metadata of the file. Subscriber's *Securosys 365 DKE* key then encrypts the *Content Encryption Key* in the metadata.

Finally, Microsoft MIP encrypts the file's metadata with the encrypted *Content Encryption Key* again, and the *Double Key Encryption* is complete.

Encrypting a random local encryption key twice makes sure that sensitive content will never be transmitted unencrypted anywhere. Neither to Securosys, nor to Microsoft.

With *Securosys 365 DKE* privacy is easy, fast and secure. It is a service in the cloud, operated in Switzerland, globally available 24/7 and ready to use within minutes. Operations on premises are available as well. You want ultimate privacy? Let's talk!



Microsoft Partner

- Keys as a Service
- Easy to use
- Lean deployment
- Made for Microsoft 365

Components

Component	Description
DKE HSM Service	Securosys CloudsHSM <ul style="list-style-type: none"> Geo-redundant HSM clusters in datacenters of customer's choice in Switzerland, Germany, US, and Singapore AES 256-bit DKE keys, wrapped with RSA2048 FIPS 140-2 Level 3 and Common Criteria (CC) EAL4+ certified Securosys Primus HSMs
DKE Web Service API	DKE Service for Microsoft Purview Sensitivity Labels <ul style="list-style-type: none"> Seamless integration of AIP labels' DKE encryption service with <ul style="list-style-type: none"> Microsoft Office 365 Apps, AIP unified labeling client, Microsoft Purview Information Protection and Azure AD Premium P2 DKE decryption keys never leave CloudsHSM Fully managed, auto-provisioned, high-available, DoS protected Double key encrypted file sharing for B2B guest users
DKE Console	DKE Key Management <ul style="list-style-type: none"> Securosys 365 DKE key lifecycle management console for customer administrators Generation of DKE RSA-keys on CloudsHSM Provisioning and configuration of DKE endpoint providers Audit and monitoring of DKE key usage User and policy management of console administrators Ready for integration with IAM solutions (e.g., LDAP, KeyCloak, Okta)
Operations	DKE managed Service <ul style="list-style-type: none"> Operated by Securosys in Switzerland 7x24 monitoring and support ISO/IEC 27001 certified

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Requirements

Component	Description
AIP/MIP, AAD P2	<p>Microsoft Purview Information Protection and Azure AD Premium P2 must be licensed and set up.</p> <p>Registration of Securosys 365 DKE sensitivity labels supported by Securosys partners, Microsoft Partners, and customers themselves.</p>
Microsoft 365 Apps for Enterprise E5	<p>Microsoft 365 E5 and Microsoft 365 Office Apps for Enterprise (version 18.2008.12711.0 or later).</p>
Microsoft Unified Labeling Client	<p>Optional, for non-MS Office file encryption: <i>AIP Unified Labeling Client</i> version 2.7.93.0 or later available for download from the Microsoft download center.</p>