

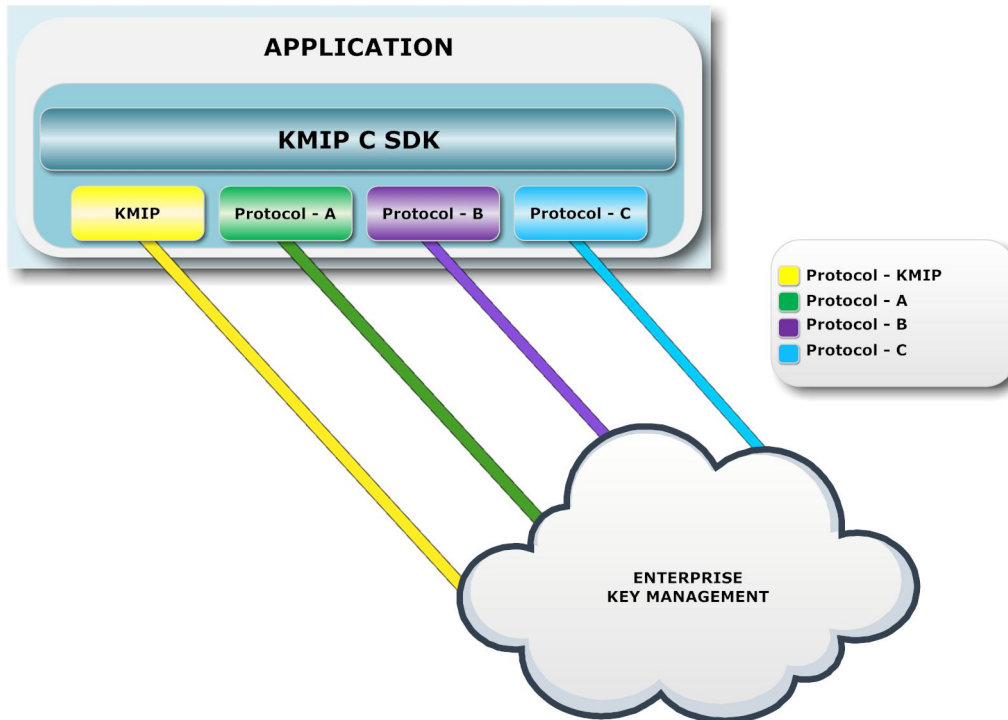
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KMIP C SDK



Cryptsoft's **KMIP SDKs** enable rapid addition of interoperable key management functionality to your existing application. KMIP-enable your application today and provide your customers with a complete vendor-independent key management solution!

Cryptsoft's **KMIP SDK** is easily and quickly integrated into your application adding full OASIS KMIP V1.0 and V1.1 functionality with a single consistent interface. The SDK includes extensive KMIP example code to get you up and running quickly. **KMIP-enable your application within days** not months, reducing your time to market!



- Guaranteed interoperability with all released KMIP server products
- Available as a binary SDK on a wide range of platforms
- Custom platform ports available on request
- Symmetric key and Asymmetric key support
- Comprehensive example code
- Source license option
- Supports KMIP protocol v1.0 and v1.1
- Supports KMIP profiles:
 - Secret Data
 - Basic Symmetric Key Store and Server
 - Basic Symmetric Key Foundry and Server
 - Basic Asymmetric Key Store
 - Basic Asymmetric Key and Certificate Store
- Supports KMIP Object Types:
 - Certificate
 - Symmetric Key
 - Secret Data
 - Public Key
 - Private Key
 - Split Key
 - Template
 - Opaque Object
- Supported KMIP Operations:
 - Query
 - Locate
 - Destroy
 - Get
 - Create
 - Register
 - Get Attributes
 - Get Attribute List
 - Add Attribute
 - Modify Attribute
 - Delete Attribute
 - Activate
 - Revoke
 - Poll
 - Cancel
 - Check
 - Get Usage Allocation
 - Create Key Pair

Interoperable with
KMIP servers
from:

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IBM



SafeNet



THALES



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- **Comprehensive example code including:**

- A simple parse of TTTL
- A simple parse of arbitrary messages in hex.
- A simple request builder
- Using Locate to return all symmetric keys.
- A simple demonstration server for Query
- Using the Locate command.
- Using the Destroy command.
- Using the Query command.
- Using the Get command.
- Using the Register command.
- Using the Create command.
- Using the Get Attributes command.
- Using the Get Attribute List command.
- Return SDK version information.
- Replaying a set of recorded requests.
- Using the Create Key Pair command.
- Using the Re-key command.
- Using the Archive command.
- Using the Recover command.
- Using the Activate command.
- Using the Add / Modify / Delete Attribute commands.
- Loading a password protected TLS client key.
- Creating a new key or loading existing for LTO4.
- Creating a new key using the generic interface.
- Delete an existing key using the generic interface.
- Put or register a key using the generic interface.

KMIP API

Providers

SSL / TLS

Generic

Formats

TTLV

TAGTEXT

USECASE

XML

JSON

General

CMD

Config

DATA

Callbacks

Encoder

Password

IO

Decoder

Verification

Logger

- **Supported Encoding:**

- Support your currently deployed key management infrastructure
- Support mixed-mode (KMIP/Non-KMIP) environments
- Generic API for symmetric key operations cross-protocol (getkey/putkey/delkey)

- **Supported Cryptographic providers:**

- OpenSSL 0.9.8 (default)
- OpenSSL 1.2 FIPS140-2 (option)
- OpenSSL 1.0 (option)
- RSA BSAFE SHARE-C (option)

Supported Platforms:

- linux-2.6 x86 32/64-bit (Generic Linux)
- linux-2.6 x86 32/64-bit (RedHat Enterprise Linux 5.2, CentOS 5.x)
- linux-2.6 ARM 32-bit
- Win32 x86 32/64-bit
- AIX7.1 PPC 32/64-bit

- SuSE linux-2.6 IA64 32/64-bit
- HP-UX 11i v2 IA64 32/64-bit
- SuSE linux-2.6 zArch 31/64-bit
- MacOS 11.0 32/64-bit
- Solaris x86 32/64-bit
- VMWare ESX4.1