

KMIP CLIENT SDKS

C, C++, C#, JAVA, PYTHON

A complete range of vendor-independent key management solutions

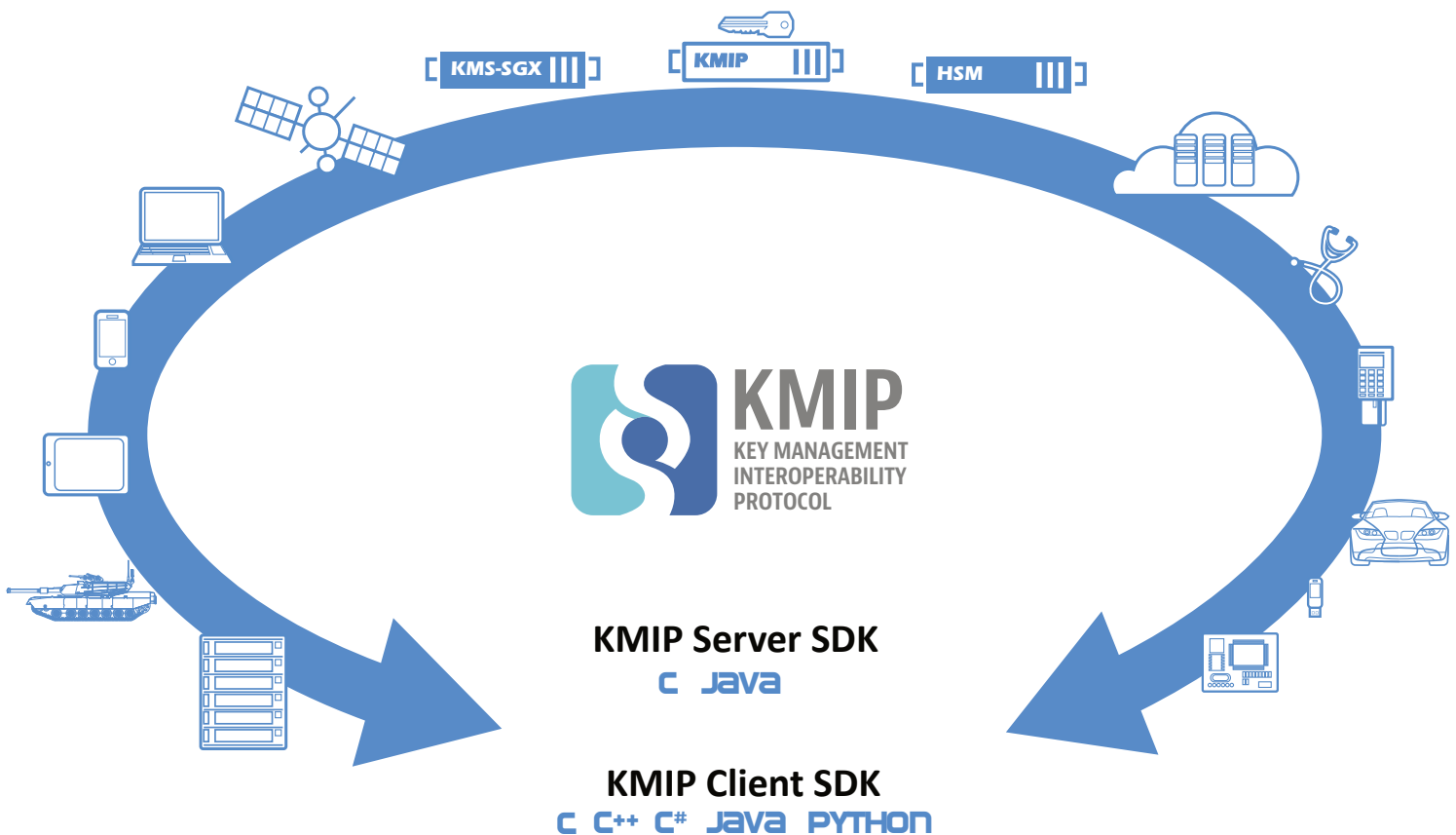
Cryptsoft's Key Management Interoperability Protocol (KMIP) SDKs let you rapidly add interoperable, standards-based, enterprise key management capability to your existing applications.

Reduce time to market, KMIP-enable your solution within days, not months, using our comprehensive collection of example code provided by the market leader in key management SDKs.

From specialised embedded systems through to scalable, whole of enterprise and government solutions, your KMIP SDK license is backed by a global support network, offering a total key management solution.

KEY FEATURES

- Full OASIS KMIP compliance versions: 1.0, 1.1, 1.2, 1.3, 1.4, 2.0*
- Guaranteed interoperability with all released KMIP server products
- Available as a binary SDK
 - Source license option
- Comprehensive example code
 - Custom examples available for rapid integration
- Supported on over 35 different platforms including Linux, Windows and a range of embedded platforms
 - Custom platform ports on request



KMIP CLIENT SDKS SPECIFICATIONS

C, C++, C#, JAVA, PYTHON

KMIP Client Examples

- Simple Protocol Format Parsing
TTLV, HEX, BIN, JSON, XML
- Simple Servers
Query, Notify, Put
- Simple Clients
Locate Objects, Create and Return Objects
- Locating Managed Objects
Simple, Extended, IBM TKLM/SKLM, XML
- KMIP Standard Operations
Create, Register, Destroy, Get, Get Attribute List, Get Attributes, Create Key Pair, Re-key, Re-key Key Pair, Archive, Recover, Activate, Derive Key
- Creating Keys
Simple, Advanced, Extensions
- Managing Attributes
Add, Modify, Delete Attribute
- Linear Tape Open (LTO)
LTO-4 Key Management, LTO-5/6 Key Management, KAD, AKAD, UKAD naming, Generic LTO-4
- Random Number Generator (RNG)
Retrieve Server RNG, Seed Server RNG
- Server Cryptographic Operations
Encrypt, Decrypt, Sign, Signature Verify, MAC, MAC Verify, Hash
- Determine Capabilities
Server SDK Version, Discover Protocol Versions, Query Server Basic, Query Server Extensions, Query Advanced Capabilities
- Split Key (Multi-Party Controls)
Create Split Key, Join Split Key
- Cryptsoft Vendor Extensions
SQL Insert, SQL Update, SQL Delete
- Generic Multi-protocol Key Handling
Get Key, Put Key, Del Key
- Request/Response Handling
Recording, Replaying, Batching, Bulk Data Loading
- Client Credential Handling
Password-protected TLS Credentials, Device Credentials, IBM TKLM/SKLM

Supported KMIP Profiles

- Advanced Cryptographic Client^{1,2}
- Advanced Symmetric Key Foundry Client
- AES XTS Client
- Asymmetric Key Lifecycle Client
- Baseline Client Basic
- Baseline Client TLS v1.2
- Basic Cryptographic Client^{1,2}
- Basic Symmetric Key Foundry Client
- HTTPS Client
- Intermediate Symmetric Key Foundry Client
- JSON Client
- Opaque Managed Object Store Client
- RNG Cryptographic Client^{1,2}
- Storage Array With SED Client
- Suite-B MinLOS_128 Client
- Suite-B MinLOS_192 Client
- Symmetric Key Lifecycle Client
- Tape Library Client
- XML Client

Supported KMIP Operations

- Activate
- Add Attribute
- Archive
- Cancel
- Certify
- Check
- Create
- Create Key Pair
- Create Split Key
- Decrypt
- Delete Attribute
- Derive Key
- Destroy
- Discover Versions
- Encrypt
- Export^{1,4}
- Get
- Get Attribute List
- Get Attributes
- Get Usage Allocation
- Hash
- Import^{1,4}
- Join Split Key
- Locate
- Log^{2,0}
- MAC
- MAC Verify
- Modify Attribute
- Notify
- Obtain Lease
- Poll
- Put
- Query
- Re-certify
- Recover
- Register
- Re-key
- Re-key Key Pair
- Revoke
- RNG Retrieve
- RNG Seed
- Sign
- Signature Verify
- Validate

KMIP Object Types

- Certificate
- Certificate Request^{2,0}
- Opaque Object
- PGP Key
- Private Key
- Public Key
- Secret Key

Supported Cryptographic Providers

- Split Key
- Symmetric Key
- Template
- OpenSSL 1.0.x
- OpenSSL 1.1.x
- OpenSSL FIPS 2.0
- OpenSSL 0.9.8 (option)
- Sun/Oracle JCE [Java](#)
- IBM JCE [Java](#)
- RSA BSAFE MES 3.x, 4.x (option)
- RSA BSAFE Share-C (option)
- RSA BSAFE Crypto-J [Java](#)
- Bouncy Castle JCE [Java](#)
- wolfSSL

Supported Encodings

- TTLV
- HTTPS/TTLV
- HTTPS/JSON
- HTTPS/XML

Supported KMIP Servers

- Cryptsoft
- DellEMC
- Fornetix
- Hewlett Packard Enterprise
- HyTrust
- IBM
- Kryptus
- MarkLogic
- Micro Focus
- Oracle
- Quintessence Labs
- SafeNet
- Thales
- Townsend Security
- Trend Micro
- Unbound
- Vormetric
- Zettaset

