



### INTEROPERABILITY WITH EASE

---

Using the Cryptsoft KMIP SDK, integrating KMIP support into your application is easy. Allow your users to have their keys safely and reliably managed by a KMIP server from any vendor.

### FEATURES AND BENEFITS

---

The Cryptsoft KMIP SDK offers the following:

- Implementation of the OASIS Key Management Interoperability Protocol (KMIP) specification
- Helps developers rapidly add interoperable key management interfaces to existing products
- Combines all the key management functionality developers need into a single self-contained library
- Provides configurability to support both full featured platforms and embedded platforms with resource constraints in a single API
- Proven components from an KMIP specialist company means faster time to market
- Possible to integrate KMIP into your application in days rather than weeks or months.

### LANGUAGE SUPPORT

---

The Cryptsoft KMIP SDK is available for the following programming languages:

- ANSI C
- Java 1.5

### PLATFORM SUPPORT

---

- Microsoft Windows (32-bit and 64-bit)
- Linux x86 (32-bit and 64-bit)
- Linux ARM
- Solaris SPARC (32-bit and 64-bit)

Ports for other platforms are available on request.

### INTEROPERABLE

---

The Cryptsoft KMIP SDK has achieved successful interoperability test results with the following vendor KMIP products:

- Cryptsoft
- Emulex
- Hewlett Packard
- High Density Devices
- IBM
- RSA/EMC
- SafeNet

For more information on integration and interoperability with other vendor products please contact Cryptsoft customer support.

### ARCHITECTURE

---

The Cryptsoft KMIP SDK is designed for embedding into your application, offering replaceable interfaces for the major components.

- Secure Transport Layer
- Database Store Interface

### KEY MANAGEMENT INTEROPERABILITY

---

The OASIS KMIP specification provides the foundation for portability of security objects between vendor products.

### SDK CONTENTS

---

The Cryptsoft KMIP SDK contains binary libraries or java archive files (depending on whether the C or Java KMIP SDK is selected).

Example programs are provided for each of the interfaces along with comprehensive API documentation. Example code is usable as standalone utility programs.

## SDK ARCHITECTURE

---

The architecture of the KMIP library is a set of independent components which can be replaced depending on the nature of the required integration.



The KMIP SDK has the following components:

- KMIP Packet Encoder and Decoder
- KMIP Packet Format Translator
- TLS Network Transport
- KMIP Native Data Format
- KMIP Attribute Composer and Decomposer
- KMIP Command Interface
- KMIP Packet Logger
- KMIP Low-level and High-level API

The user can assemble their own KMIP REQUEST and RESPONSE structures or use a higher level API that provides interfaces for all the operations supported by the KMIP standard.

## KMIP 1.0 SUPPORTED OBJECT TYPES

---

- CERTIFICATE
- SYMMETRIC\_KEY
- SECRET\_DATA
- PUBLIC\_KEY
- PRIVATE\_KEY
- TEMPLATE

## KMIP 1.0 SUPPORTED 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
- RE\_KEY
- ARCHIVE
- RECOVER
- OBTAIN\_LEASE

## KMIP CONFORMANCE

---

The Cryptsoft KMIP SDK conforms to the following profiles:

- Secret Data KMIP Profile
- Basic Symmetric Key Store and Server
- Basic Symmetric Key Foundry and Server KMIP Profile
- Basic Asymmetric Key Store
- Basic Asymmetric Key and Certificate Store

The SDK supports both the KMIP 1.0 specification and a selected number of proposals under consideration for the next KMIP standard update.

## CONTACT

---

Cryptsoft Pty Ltd  
P.O. Box 6389  
Fairfield Gardens, 4103, Australia

P +61 7 3103 0321  
F +61 7 3009 0321

[sales@cryptsoft.com](mailto:sales@cryptsoft.com)  
<http://www.cryptsoft.com/KMIP/>

The Cryptsoft KMIP SDK, Cryptsoft logo, and Cryptsoft KMIP logo are trademarks of Cryptsoft Pty Ltd. All other trademarks or trade names are property of their respective owners.