Key Management Interoperability Protocol Profiles Version 1.0

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Related work:
This specification replaces or supersedes:

- None

This specification is related to:

- Key Management Interoperability Protocol Specification v1.0
- Key Management Interoperability Protocol Use Cases v1.0
- Key Management Interoperability Protocol Usage Guide v1.0

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None

Abstract:
This document is intended for developers and architects who wish to design systems and applications that interoperate using the Key Management Interoperability Protocol specification.

Status:
This document was last revised or approved by the Key Management Interoperability Protocol TC on the above date. The level of approval is also listed above. Check the “Latest Version” or “Latest Approved Version” location noted above for possible later revisions of this document.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at http://www.oasis-open.org/committees/kmip/.

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1 Introduction

OASIS requires a conformance section in an approved committee specification (see [TCProc], section 2.18 Specification Quality):

> A specification that is approved by the TC at the Public Review Draft, Committee Specification or OASIS Standard level must include a separate section, listing a set of numbered conformance clauses, to which any implementation of the specification must adhere in order to claim conformance to the specification (or any optional portion thereof).

This document intends to meet this OASIS requirement on conformance clauses for a KMIP Server (**[KMIP-Spec]** 12.1) through profiles that define the use of KMIP objects, attributes, operations, message elements and authentication methods within specific contexts of KMIP server and client interaction. These profiles define a set of normative constraints for employing KMIP within a particular environment or context of use. They may, optionally, require the use of specific KMIP functionality or in other respects define the processing rules to be followed by profile actors.

For normative definition of the elements of KMIP specified in these profiles, see the KMIP Specification. Illustrative guidance for the implementation of KMIP clients and servers is provided in the KMIP Usage Guide.

1.1 Terminology

The key words "SHALL", "SHALL NOT", "REQUIRED", "SHOULD", "SHOULD NOT",

"RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119]. The words ‘must’, ‘can’, and ‘will’ are forbidden.

For definitions not found in this document, see [KMIP-Spec] definitions**Error! Reference source not found.**.

1.2 Normative References

[RFC2119] S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*, http://www.ietf.org/rfc/rfc2119.txt, IETF RFC 2119, March 1997.

[KMIP-Spec] OASIS Committee Draft 12, *Key Management Interoperability Protocol Specification v1,0,* May 2010. http://docs.oasis-open.org/kmip/spec/v1.0/cd12/kmip-spec-1.0-cd-12.doc

[RFC 2246] T. Dierks & C.Allen, The TLS Protocol, Version 1.0**,** http://www.ietf.org/rfc/rfc2246.txt**,** IETF RFC 2246, January 1999

[RFC 3268] P. Chown, Advanced Encryption Standard (AES) Ciphersuites for Transport Layer Security (TLS), http://www.ietf.org/rfc/rfc3268.txt, IETF RFC 3268, June 2002

[RFC 4346] T. Dierks & E. Rescorla, The Transport Layer Security (TLS) Protocol, Version 1.1, http://www.ietf.org/rfc/rfc4346.txt, IETF RFC 4346, April 2006

[RFC 5246] T. Dierks & E. Rescorla, The Transport Layer Security (TLS) Protocol, Version 1.2, http://www.ietf.org/rfc/rfc5246.txt, IETF RFC 5246, August 2008

[NIST 800-57 Part 3] Barker, Burr, et.al, Recommendation for Key Management Part 3: Application-Specific Key Management Guidance, http://csrc.nist.gov/publications/nistpubs/800-57/sp800-57_PART3_key-management_Dec2009.pdf, December 2009

1.3 Non-normative References

[KMIP-UG] OASIS Committee Draft 10, *Key Management Interoperability Protocol Usage Guide v1.0*,May 2010. http://docs.oasis-open.org/kmip/ug/v1.0/cd10/kmip-ug-1.0-cd-10.doc

[KMIP-UC] OASIS Committee Draft 11, *Key Management Interoperability Protocol Use Cases v1.0,* May 2010. http://docs.oasis-open.org/kmip/usecases/v1.0/cd11/kmip-usecases-1.0-cd-11.doc

2 Profiles

This document defines a selected set of conformance clauses and authentication suites which when "paired together" form KMIP Profiles. The KMIP TC also welcomes proposals for new profiles. KMIP TC members are encouraged to submit these proposals to the KMIP TC for consideration for inclusion in a future version of this TC-approved document. However, some OASIS members may simply wish to inform the committee of profiles or other work related to KMIP.

2.1 Guidelines for Specifying Conformance Clauses

This section provides a checklist of issues that SHALL be addressed by each clause.

1. Implement functionality as mandated by Section 12.1 (Conformance clauses for a KMIP servers)
2. Specify the list of additional objects that SHALL be supported
3. Specify the list of additional attributes that SHALL be supported
4. Specify the list of additional operations that SHALL be supported
5. Specify any additional message content that SHALL be supported

2.2 Guidelines for Specifying Authentication Suites

1. Channel Security – Client to Server communication SHALL establish and maintain channel confidentiality and integrity, and provide assurance of server authenticity
2. Channel Options – Options like protocol version and cipher suite
3. Client Authenticity – The options that are used to provide assurance of client authenticity

2.3 Guidelines for Specifying KMIP Profiles

A KMIP profile is a tuple of {Conformance Clause, Authentication Suite}

3 Authentication suites

This section contains the list of protocol versions and cipher suites that are to be used by profiles contained within this document.

3.1 Basic Authentication Suite

This authentication set stipulates that a KMIP client and server SHALL use TLS to negotiate a mutually-authenticated connection with the exception of the Query operation. The query operation SHALL NOT require the client to provide assurance of its authenticity.

3.1.1 Protocols

Conformant KMIP servers SHALL support TLSv1.0. They MAY support TLS v1.1 [RFC 4346], TLS v1.2 [RFC 5246] bearing in mind that they are not compatible with each other and SHALL NOT support SSLv3.0, SSLv2.0 and SSLv1.0.

3.1.2 Cipher Suites

Conformant KMIP servers SHALL support the following cipher suites:

- `TLS_RSA_WITH_AES_128_CBC_SHA`

Basic Authentication Suite Conformant KMIP servers MAY support the cipher suites listed in tables 4-1 through 4-4 of NIST 800-57 Part 3 with the exception of NULL ciphers (at the time this document was created, the only NULL cipher in 800-57 Part 3 was: `TLS_RSA_WITH_NONE_SHA`)

Basic Authentication Suite Conformant KMIP servers SHALL NOT support any other cipher suites.

NOTE: TLS 1.0 has some security issues as described in http://www.openssl.org/~bodo/tls-cbc.txt. Implementations that need protections against this attack should considering using the “TLS 1.2 Authentication Suite”

At the time this document was published, NIST 800-57 Part 3 Table 4-1, for cipher suites that have both SHA1 and SHA256 variants, erroneously categorizes SHA256 based ciphers under TLS versions 1.0, 1.1 and 1.2 and SHA1 based ciphers under TLS 1.2. The correct value for SHA256 based ciphers should 1.2 and for SHA1 based ciphers it should be 1.0, 1.2 and 1.2.

3.1.3 Client Authenticity

For authenticated services (all operations save Query) KMIP servers SHALL require the use of channel (TLS) mutual authentication to provide assurance of client authenticity.

In the absence of Credential information in the request header, KMIP servers SHALL use the identity derived from the channel authentication as the client identity.

In the presence of Credential information in the request header, KMIP servers SHALL consider such Credential information into their evaluation of client authenticity and identity, along with the authenticity and identity derived from the channel. The exact mechanisms for such evaluation are outside the scope of this specification.

3.1.4 Object Creator

KMIP objects have a creator. For those KMIP requests that result in new managed objects the client identity SHALL be used as the creator of the managed object. For those operations that only access pre-existent managed objects, the client identity SHALL be checked against the creator and access SHALL be controlled as detailed in section 3.13 of [KMIP].

3.2 TLS 1.2 Authentication Suite

This authentication set stipulates that a KMIP client and server SHALL use TLS to negotiate a mutually-authenticated connection with the exception of the Query operation. The query operation SHALL NOT require the client to provide assurance of its authenticity.

3.2.1 Protocols

Conformant KMIP servers SHALL support TLSv1.2

3.2.2 Cipher Suites

Conformant KMIP servers SHALL support the following cipher suites:

- `TLS_RSA_WITH_AES_256_CBC_SHA256`
- `TLS_RSA_WITH_AES_128_CBC_SHA256`

TLS 1.2 Authentication Suite Conformant KMIP servers MAY support the cipher suites listed in tables 4-1 through 4-4 of NIST 800-57 Part 3 with the exception of NULL ciphers (at the time this document was created, the only NULL cipher in 800-57 Part 3 was: `TLS_RSA_WITH_NONE_SHA`)

TLS 1.2 Authentication Suite Conformant KMIP servers SHALL NOT support any other cipher suites

NIST 800-57 Part 3 Table 4-1, for cipher suites that have both SHA1 and SHA256 variants, erroneously categorizes SHA256 based ciphers under TLS versions 1.0, 1.1 and 1.2 and SHA1 based ciphers under TLS 1.2. The correct value for SHA256 based ciphers should 1.2 and for SHA1 based ciphers it should be 1.0, 1.2 and 1.2.

3.2.3 Client Authenticity

Same as the basic authentication suite (See Section 3.1.3)

3.2.4 Object Creator

Same as the basic authentication suite (See Section 3.1.4)

4 KMIP Profiles

This section lists the KMIP profiles that are defined in this specification. More than one profile may be supported at the same time provided there are no conflicting requirements.

4.1 Secret Data KMIP Profile

A profile that consists of the tuple {Secret Data Server Conformance Clause, Basic Authentication Suite}

4.2 Basic Symmetric Key Store and Server KMIP Profile

A profile that consists of the tuple {Basic Symmetric Key Store and Server Conformance Clause, Basic Authentication Suite}

4.3 Basic Symmetric Key Foundry and Server KMIP Profile

A profile that consists of the tuple {Basic Symmetric Key Foundry and Server Conformance Clause, Basic Authentication Suite}

4.4 Secret Data TLS 1.2 Authentication KMIP Profile

A profile that consists of the tuple {Secret Data Server Conformance Clause, TLS 1.2 Authentication Suite}

4.5 Basic Symmetric Key Store and Server TLS 1.2 Authentication KMIP Profile

A profile that consists of the tuple {Basic Symmetric Key Store and Server Conformance Clause, TLS 1.2 Authentication Suite}

4.6 Basic Symmetric Key Foundry and Server TLS 1.2 Authentication KMIP Profile

A profile that consists of the tuple {Basic Symmetric Key Foundry and Server Conformance Clause, TLS 1.2 Authentication Suite}

5 Conformance Clauses

The following subsections describe currently-defined profiles related to the use of KMIP in support of secret data and symmetric key operations.

5.1 Secret Data Server Clause

This proposal builds on the KMIP server conformance clauses to provide some of the most basic functionality that would be expected of a conformant KMIP server – the ability to create, register and get secret data in an interoperable fashion.

5.1.1 Implementation Conformance

An implementation is a conforming Secret Data Server Clause if it meets the conditions as outlined in the following section.

5.1.2 Conformance of a Secret Data Server

An implementation conforms to this specification as a Secret Data Server if it meets the following conditions:

1. Supports the conditions required by the KMIP Server conformance clauses (**[KMIP-Spec]** 12.1)
2. Supports the following additional objects:
    a. Secret Data (**[KMIP-Spec]** 2.2.7)
3. Supports the following client-to-server operations:
    a. Register (**[KMIP-Spec]** 4.3)
4. Supports the following subsets of enumerated attributes:
    a. Object Type (**[KMIP-Spec]** 3.3 and 9.1.3.2.11)
        i. Secret Data
    b. Secret Data Type (**[KMIP-Spec]** 9.1.3.2.8)
        i. Password
5. Supports the following subsets of enumerated objects (see clauses 3 and 9):
    a. Key Format Type (**[KMIP-Spec]** 9.1.3.2.3)
        i. Opaque
6. Optionally supports any clause within **[KMIP-Spec]** specification that is not listed above
7. Optionally supports extensions outside the scope of this standard (e.g., vendor extensions, conformance clauses) that do not contradict any KMIP requirements

5.2 Basic Symmetric Key Store and Server Conformance Clause

This proposal builds on the KMIP server conformance clauses to provide support for symmetric key store and foundry use cases.

5.2.1 Implementation Conformance

An implementation is a conforming KMIP Basic Symmetric Key Store and Server if the implementation meets the conditions as outlined in the following section.

5.2.2 Conformance as a Basic Symmetric Key Store and Server

An implementation conforms to this specification as a Basic Symmetric Key Store and Server if it meets the following conditions:

1. Supports the conditions required by the KMIP Server conformance clauses. (**[KMIP-Spec]** 12.1)
2. Supports the following additional objects:
    a. Symmetric Key (**[KMIP-Spec]** 2.2.2)
3. Supports the following client-to-server operations:
    a. Register (**[KMIP-Spec]** 4.3)
4. Supports the following attributes:
    a. Process Start Date (**[KMIP-Spec]** 3.20)
    b. Protect Stop Date (**[KMIP-Spec]** 3.21)
5. Supports the following subsets of enumerated attributes:
    a. Cryptographic Algorithm (**[KMIP-Spec]** 3.4 and 9.1.3.2.12)
        i. 3DES
        ii. AES
    b. Object Type (**[KMIP-Spec]** 3.3 and 9.1.3.2.11)
        i. Symmetric Key
6. Supports the following subsets of enumerated objects:
    a. Key Format Type (**[KMIP-Spec]** 3.4 and 9.1.3.2.3)
        i. Raw
        ii. Transparent Symmetric Key
7. Optionally supports any clause within **[KMIP-Spec]**specification that is not listed above
8. Optionally supports extensions outside the scope of this standard (e.g., vendor extensions, conformance clauses) that do not contradict any KMIP requirements

5.3 Basic Symmetric Key Foundry and Server Conformance Clause

This proposal intends to meet this OASIS requirement by building on the KMIP Server Conformance Clause defined in the KMIP Specification to provide basic symmetric key services. The intent is to simply allow key creation and serving with very limited key types.

5.3.1 Implementation Conformance

An implementation is a conforming KMIP Basic Symmetric Key Store and Server if the implementation meets the conditions as outlined in the following section.

5.3.2 Conformance as a KMIP Basic Symmetric Key Foundry and Server

An implementation conforms to this specification as a KMIP Basic Symmetric Key Foundry and Server if it meets the following conditions:

1. Supports the conditions required by the KMIP Server conformance clauses. (**[KMIP-Spec]** 12.1)
2. Supports the following additional objects
    a. Symmetric Key (**[KMIP-Spec]** 2.2.2)
3. Supports the following client-to-server operations:
    a. Create (**[KMIP-Spec]** 4.1)
4. Supports the following attributes:
    a. Process Start Date (**[KMIP-Spec]** 3.20)

b. Protect Stop Date (**[KMIP-Spec]** 3.21)

5. Supports the following subsets of enumerated attributes:
   a. Cryptographic Algorithm (**[KMIP-Spec]** 3.4 and 9.1.3.2.12)
      i. 3DES
      ii. AES
   b. Object Type (**[KMIP-Spec]** 3.3 and 9.1.3.2.11)
      i. Symmetric Key
6. Supports the following subsets of enumerated objects:
   a. Key Format Type (**[KMIP-Spec]** 3.4 and 9.1.3.2.3)
      i. Raw
      ii. Transparent Symmetric Key
7. Optionally supports any clause within **[KMIP-Spec]**specification that is not listed above
8. Optionally supports extensions outside the scope of this standard (e.g., vendor extensions, conformance clauses) that do not contradict any KMIP requirements

A. Acknowledgements

The following individuals have participated in the creation of this specification and are gratefully acknowledged:

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B. Revision History

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ed-0.98	2009-09-18	Robert Griffin	Initial conversion of symmetric key profiles, as created by Bruce Rich, into this KMIP Profiles document.
ed-0.98	2009-09-29	Subhash Sankuratripati	Adding the notion of authentication sets
ed-0.99	2009-10-05	Subhash Sankuratripati	Incorporating feedback that was received during the F2F
ed-0.99	2009-10-21	Subhash Sankuratripati	Incorporating additional feedback and getting the document ready to be committee draft
ed-0.99	2009-10-23	Subhash Sankuratripati	Other minor edits
ed-0.99	2009-11-01	Subhash Sankuratripati	More editorial changes
ed-0.99	2009-11-06	Subhash Sankuratripati	Version that is to be submitted as committee draft
cd-01	2009-11-06	Subhash Sankuratripati	First version as committee draft
cd-02	2009-11-09	Subhash Sankuratripati	Corrected reference to conformance clause section of [KMIP-Spec] from 13.1 to 12.1 and another minor edit.
cd-03	2009-11-11	Subhash Sankuratripati	Accepting all changes and removing previous versions
cd-04	2010-11-12	Subhash Sankuratripati	Corrected document URIs
cd-05	2010-03-05	Subhash Sankuratripati	Addressing public review comments by adding - Support for TLS 1.2, - Adding references to normative documents - Added an informative warning regarding the usage of TLS 1.0 in certain scenarios due to a security issue - Added an errata for NIST 800-57 Part 3
cd-06	2010-05-26	Subhash Sankuratripati	Updating references to latest committee draft versions and participant list