

OASIS Committee Note

**Key Management Interoperability Protocol Test Cases Version 2.0**

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Technical Committee:

[OASIS Key Management Interoperability Protocol (KMIP) TC](https://www.oasis-open.org/committees/kmip/)

Chairs:

Tony Cox (tony.cox@cryptsoft.com), [Cryptsoft Pty Ltd.](http://cryptsoft.com/)

Judith Furlong (Judith.Furlong@dell.com), [Dell EMC](http://www.emc.com/)

Editors:

Tim Hudson (tjh@cryptsoft.com), [Cryptsoft Pty Ltd.](http://cryptsoft.com/)

Mark Joseph (mark@p6r.com), [P6R, Inc](http://www.p6r.com/)

Additional artifacts:

This document is one component of a Work Product that also includes:

* Test cases:
<https://docs.oasis-open.org/kmip/kmip-testcases/v2.0/cn01/test-cases/kmip-v2.0/>

Related work:

This document replaces or supersedes:

* *Key Management Interoperability Protocol Test Cases Version 1.4.* Edited by Tim Hudson and Mark Joseph. Latest version: <http://docs.oasis-open.org/kmip/testcases/v1.4/kmip-testcases-v1.4.html>.

This document is related to:

* *Key Management Interoperability Protocol Specification Version 2.0*. Edited by Tony Cox and Charles White. Latest version: <https://docs.oasis-open.org/kmip/kmip-spec/v2.0/kmip-spec-v2.0.html>.
* *Key Management Interoperability Protocol Profiles Version 2.0*. Edited by Tim Hudson and Robert Lockhart. Latest version: <https://docs.oasis-open.org/kmip/kmip-profiles/v2.0/kmip-profiles-v2.0.html>.
* Key M*anagement Interoperability Protocol Usage Guide Version 2.0.* Edited by Judith Furlong. Latest version: <https://docs.oasis-open.org/kmip/kmip-ug/v2.0/kmip-ug-v2.0.html>.

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 is a Non-Standards Track Work Product. The patent provisions of the OASIS IPR Policy do not apply.

This document was last revised or approved by the OASIS Key Management Interoperability Protocol (KMIP) TC on the above date. The level of approval is also listed above. Check the "Latest version" location noted above for possible later revisions of this document.

Technical Committee (TC) members should send comments on this document to the TC's email list. Others should send comments to the TC’s public comment list, after subscribing to it by following the instructions at the “[Send A Comment](https://www.oasis-open.org/committees/comments/index.php?wg_abbrev=kmip)” button on the TC’s web page at <https://www.oasis-open.org/committees/kmip/>.

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1. Introduction

The purpose of this document is to describe test cases to demonstrate the Key Management Interoperability Protocol (KMIP) [KMIP-SPEC]. The test cases illustrate that the concepts within the protocol are sound and how the protocol may be used when implementing KMIP in applications. These test cases are not intended to fully test an implementation of KMIP.

## References (non-normative)

[KMIP-SPEC]

*Key Management Interoperability Protocol Specification Version 2.0*. Edited by Tony Cox and Charles White. Latest version: <https://docs.oasis-open.org/kmip/kmip-spec/v2.0/kmip-spec-v2.0.html>.

[KMIP-PROFILES]

*Key Management Interoperability Protocol Profiles Version 2.0.* Edited by Tim Hudson and Robert Lockhart. Latest version: <https://docs.oasis-open.org/kmip/kmip-profiles/v2.0/kmip-profiles-v2.0.html>.

[XML]

*XML 1.0 Recommendation,* T. Bray, J. Paoli, M. Sperberg-McQueen, Editors, W3C Recommendation, February 10, 1998, <http://www.w3.org/TR/1998/REC-xml-19980210>. Latest version available at <http://www.w3.org/TR/REC-xml>.

1. KMIP Test Cases

The test cases define a number of request-response pairs for KMIP operations. Each test case is provided in the XML format specified in [KMIP-PROFILES] intended to be both human-readable and usable by automated tools.

Each test case has a unique label (the section name) which the protocol version as part of the identifier.

The test cases may depend on a specific configuration of a KMIP client and server being configured in a manner consistent with the test case assumptions.

Where possible the flow of unique identifiers between tests, the date-time values, and other dynamic items are indicated using symbolic identifiers – in actual request and response messages these dynamic values will be filled in with valid values.

The test cases show one possible way to construct the messages, and the messages shown are not necessarily the only conformant constructions as many items within KMIP are optional and server behavior depends on the server's policy. Support for a test case is predicated on a server matching the test case assumptions and the behavior shown in the request-response pairs.

Symbolic identifiers are of the form $UPPERCASE\_NAME followed by optional unique index value. Wherever a symbolic identifier occurs in a test cases the implementation must replace it with a reasonable appearing datum of the expected type. Time values can be specified in terms of an offset from the current time in seconds of the form $NOW or $NOW-n or $NOW+n.

## TC-CERTATTR-1-20

A client registers a certificate and the server creates the certificate attributes based on the subject and issuer distinguished name values.

See [test-cases/kmip-v2.0/TC-CERTATTR-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-CERTATTR-1-20.xml)

## TC-CREATE-SD-1-20

A client requests a server to create a secret data managed object.

See [test-cases/kmip-v2.0/TC-CREATE-SD-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-CREATE-SD-1-20.xml)

## TC-CS-CORVAL-1-20

A client sets a client correlation value and the server also responds with a server correlation value.

See [test-cases/kmip-v2.0/TC-CS-CORVAL-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-CS-CORVAL-1-20.xml)

## TC-DERIVEKEY-1-20

A client uses Derive Key using SHA\_256.

See [test-cases/kmip-v2.0/TC-DERIVEKEY-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-DERIVEKEY-1-20.xml)

## TC-DERIVEKEY-2-20

A client uses Derive Key using HMAC-SHA\_256.

See [test-cases/kmip-v2.0/TC-DERIVEKEY-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-DERIVEKEY-2-20.xml)

## TC-DERIVEKEY-3-20

A client uses Derive Key using PBKDF2.

See [test-cases/kmip-v2.0/TC-DERIVEKEY-3-20.xml](test-cases%5Ckmip-v2.0%5CTC-DERIVEKEY-3-20.xml)

## TC-DERIVEKEY-4-20

A client uses Derive Key using PBKDF2.

See [test-cases/kmip-v2.0/TC-DERIVEKEY-4-20.xml](test-cases%5Ckmip-v2.0%5CTC-DERIVEKEY-4-20.xml)

## TC-DERIVEKEY-5-20

A client uses Derive Key using PBKDF2 and SHA-256.

See [test-cases/kmip-v2.0/TC-DERIVEKEY-5-20.xml](test-cases%5Ckmip-v2.0%5CTC-DERIVEKEY-5-20.xml)

## TC-DERIVEKEY-6-20

A client uses Derive Key using ASYMMETRIC\_KEY and ECDH.

See [test-cases/kmip-v2.0/TC-DERIVEKEY-6-20.xml](test-cases%5Ckmip-v2.0%5CTC-DERIVEKEY-6-20.xml)

## TC-DLOGIN-1-20

Delegated Login.

See [test-cases/kmip-v2.0/TC-DLOGIN-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-DLOGIN-1-20.xml)

## TC-DLOGIN-2-20

Delegated Login.

See [test-cases/kmip-v2.0/TC-DLOGIN-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-DLOGIN-2-20.xml)

## TC-ECC-1-20

A client registers and EC private key in ECPrivateKey format and EC public key in X.509 format using the EC cryptographic algorithm.

See [test-cases/kmip-v2.0/TC-ECC-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-ECC-1-20.xml)

## TC-ECC-2-20

A client registers and EC private key in PKCS8 format and EC public key in X.509 format using the EC cryptographic algorithm.

See [test-cases/kmip-v2.0/TC-ECC-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-ECC-2-20.xml)

## TC-ECC-3-20

A client registers and EC private key in ECPrivateKey format and EC public key in X.509 format using the EC cryptographic algorithm.

See [test-cases/kmip-v2.0/TC-ECC-3-20.xml](test-cases%5Ckmip-v2.0%5CTC-ECC-3-20.xml)

## TC-ECDSA-SIGN-1-20

A client registers and EC private key in ECPrivateKey format and EC public key in X.509 format using the EC cryptographic algorithm and performs a Sign operation followed by a Signature Verify operation.

See [test-cases/kmip-v2.0/TC-ECDSA-SIGN-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-ECDSA-SIGN-1-20.xml)

## TC-ECDSA-SIGN-DIGESTEDDATA 1-20

ECDSA Signing with the digested data provided by the client.

See [test-cases/kmip-v2.0/TC-ECDSA-SIGN-DIGESTEDDATA-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-ECDSA-SIGN-DIGESTEDDATA-1-20.xml)

## TC-EXTRACTABLE-1-20

Show usage of Extractable and Never Extractable

See [test-cases/kmip-v2.0/TC-EXTRACTABLE-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-EXTRACTABLE-1-20.xml)

## TC-I18N-1-20

Client provides a key name containing a Greek capital Alpha

Note: the encoding in XML has to be correctly converted into the valid UTF-8 format.

See [test-cases/kmip-v2.0/TC-I18N-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-I18N-1-20.xml)

## TC-I18N-2-20

Client provides a key alternative name containing a Greek capital Alpha

Note: the encoding in XML has to be correctly converted into the valid UTF-8 format.

See [test-cases/kmip-v2.0/TC-I18N-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-I18N-2-20.xml)

## TC-I18N-3-20

Client provides a customer attribute containing a Greek capital Alpha with the attribute value containing a Greek capital Omega

Note: the encoding in XML has to be correctly converted into the valid UTF-8 format.

See [test-cases/kmip-v2.0/TC-I18N-3-20.xml](test-cases%5Ckmip-v2.0%5CTC-I18N-3-20.xml)

## TC-IMPEXP-1-20

Import/Export.

See [test-cases/kmip-v2.0/TC-IMPEXP-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-IMPEXP-1-20.xml)

## TC-IMPEXP-2-20

Import/Export.

See [test-cases/kmip-v2.0/TC-IMPEXP-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-IMPEXP-2-20.xml)

## TC-IMPEXP-3-20

Import/Export.

See [test-cases/kmip-v2.0/TC-IMPEXP-3-20.xml](test-cases%5Ckmip-v2.0%5CTC-IMPEXP-3-20.xml)

## TC-LOGIN-1-20

Login.

See [test-cases/kmip-v2.0/TC-LOGIN-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-LOGIN-1-20.xml)

## TC-LOGIN-2-20

Login.

See [test-cases/kmip-v2.0/TC-LOGIN-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-LOGIN-2-20.xml)

## TC-LOGIN-3-20

Login.

See [test-cases/kmip-v2.0/TC-LOGIN-3-20.xml](test-cases%5Ckmip-v2.0%5CTC-LOGIN-3-20.xml)

## TC-MDO-1-20

A client requests a meta-data-only object (no key material).

See [test-cases/kmip-v2.0/TC-MDO-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-MDO-1-20.xml)

## TC-MDO-2-20

A client requests a meta-data-only object (no key material) and an object with key material and performs Locate that only returns the meta-data-only object.

See [test-cases/kmip-v2.0/TC-MDO-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-MDO-2-20.xml)

## TC-MDO-3-20

A client requests a meta-data-only object (no key material) using the URL format of the Key Value Location and performs Locate.

See [test-cases/kmip-v2.0/TC-MDO-3-20.xml](test-cases%5Ckmip-v2.0%5CTC-MDO-3-20.xml)

## TC-OFFSET-1-20

A client requests the server creates a number of symmetric keys and then uses the Offset parameter in Locate to return various items.

See [test-cases/kmip-v2.0/TC-OFFSET-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-OFFSET-1-20.xml)

## TC-OFFSET-2-20

A client requests the server creates a number of symmetric keys and then uses the Offset parameter in Locate to return various items.

See [test-cases/kmip-v2.0/TC-OFFSET-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-OFFSET-2-20.xml)

## TC-PGP-1-20

Register a PGP public key block and private key block and add appropriate links between the managed objects.

See [test-cases/kmip-v2.0/TC-PGP-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-PGP-1-20.xml)

## TC-PKCS12-1-20

Register objects and then performs a Get returning in PKCS#12 format

See [test-cases/kmip-v2.0/TC-PKCS-12-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-PKCS12-1-20.xml)

## TC-PKCS12-2-20

Register objects in PKCS#12 format and then performs a Get returning the individual objects.

See [test-cases/kmip-v2.0/TC-PKCS-12-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-PKCS12-2-20.xml)

## TC-REKEY-1-20

Create a key and perform multiple rekey operations.

See [test-cases/kmip-v2.0/TC-REKEY-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-REKEY-1-20.xml)

## TC-RNG-ATTR-1-20

A client registers a symmetric key including details of the RNG that the client is claiming was used to generate the symmetric key.

See [test-cases\kmip-v2.0\TC-RNG-ATTR-1-20.xml](test-cases/kmip-v2.0/TC-RNG-ATTR-1-20.xml)

## TC-RNG-ATTR-2-20

A client requests the server creates a symmetric key and it does and also includes the required details of the RNG that was used to generate the symmetric key.

See [test-cases\kmip-v2.0\TC-RNG-ATTR-2-20.xml](test-cases/kmip-v2.0/TC-RNG-ATTR-2-20.xml)

## TC-RSA-SIGN-DIGESTEDDATA 1-20

RSA Signing with the digested data provided by the client.

See [test-cases/kmip-v2.0/TC-RSA-SIGN-DIGESTEDDATA-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-RSA-SIGN-DIGESTEDDATA-1-20.xml)

## TC-SENSITIVE-1-20

Show usage of Sensitive and Always Sensitive

See [test-cases/kmip-v2.0/TC-SENSITIVE-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-SENSITIVE-1-20.xml)

## TC-SJ-1-20

Create a symmetric key and perform split and join in various combinations.

See [test-cases/kmip-v2.0/TC-SJ-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-SJ-1-20.xml)

## TC-SJ-2-20

Register a symmetric key and perform split and join in various combinations.

See [test-cases/kmip-v2.0/TC-SJ-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-SJ-2-20.xml)

## TC-SJ-3-20

Register split keys and perform join in various combinations.

See [test-cases/kmip-v2.0/TC-SJ-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-SJ-2-20.xml)

## TC-SJ-4-20

Create a symmetric key and perform split and join in various combinations using the XOR method.

See [test-cases/kmip-v2.0/TC-SJ-4-20.xml](test-cases%5Ckmip-v2.0%5CTC-SJ-4-20.xml)

## TC-SETATTR-1-20

Set Attribute.

See [test-cases/kmip-v2.0/TC-SETATTR-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-SETATTR-1-20.xml)

## TC-SETATTR-2-20

Set Attribute.

See [test-cases/kmip-v2.0/TC-SETATTR-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-SETATTR-2-20.xml)

## TC-SETATTR-3-20

Set Attribute.

See [test-cases/kmip-v2.0/TC-SETATTR-3-20.xml](test-cases%5Ckmip-v2.0%5CTC-SETATTR-3-20.xml)

## TC-STREAM-ENC-1-20

Create a symmetric key and perform encrypt with streaming.

See [test-cases/kmip-v2.0/TC-STREAM-ENC-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-STREAM-ENC-1-20.xml)

## TC-STREAM-ENC-2-20

Register a symmetric key and perform encrypt and decrypt with streaming.

See [test-cases/kmip-v2.0/TC-STREAM-ENC-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-STREAM-ENC-2-20.xml)

## TC-STREAM-ENCDEC-1-20

Register a symmetric key and perform encrypt with streaming.

See [test-cases/kmip-v2.0/TC-STREAM-ENCDEC-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-STREAM-ENCDEC-1-20.xml)

## TC-STREAM-HASH-1-20

Hash operation for data 'abc' in a single request followed immediately by a streaming equivalent for which the result must be identical.

Note: - test vector data from http://csrc.nist.gov/groups/ST/toolkit/documents/Examples/SHA\_All.pdf

See [test-cases/kmip-v2.0/TC-STREAM-HASH-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-STREAM-HASH-1-20.xml)

## TC-STREAM-HASH-2-20

Hash operation for data 'abc' in a single request followed immediately by a streaming equivalent for which the result must be identical.

Note: - test vector data from http://csrc.nist.gov/groups/ST/toolkit/documents/Examples/SHA\_All.pdf

See [test-cases/kmip-v2.0/TC-STREAM-HASH-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-STREAM-HASH-2-20.xml)

## TC-STREAM-HASH-3-20

Hash operation for data 'abc' in a single request followed immediately by a streaming equivalent for which the result must be identical.

Note: - test vector data from http://csrc.nist.gov/groups/ST/toolkit/documents/Examples/SHA\_All.pdf

See [test-cases/kmip-v2.0/TC-STREAM-HASH-3-20.xml](test-cases%5Ckmip-v2.0%5CTC-STREAM-HASH-3-20.xml)

## TC-STREAM-SIGN-1-20

Sign with a known asymmetric key with streaming.

See [test-cases/kmip-v2.0/TC-STREAM-SIGN-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-STREAM-SIGN-1-20.xml)

## TC-STREAM-SIGNVFY-1-20

Sign and Signature Verify with a known asymmetric key with streaming.

See [test-cases/kmip-v2.0/TC-STREAM-SIGNVFY-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-STREAM-SIGNVFY-1-20.xml)

## TC-WRAP-1-20

Show usage of Key Wrap Type As Registered.

See [test-cases/kmip-v2.0/TC-WRAP-1-20.xml](test-cases%5Ckmip-v2.0%5CTC-WRAP-1-20.xml)

## TC-WRAP-2-20

Show usage of Key Wrap Type Not Wrapped.

See [test-cases/kmip-v2.0/TC-WRAP-2-20.xml](test-cases%5Ckmip-v2.0%5CTC-WRAP-2-20.xml)

## TC-WRAP-3-20

Show usage of returning wrapped key wrapped with a different wrapping key.

See <test-cases/kmip-v2.0/TC-WRAP-3-20.xml>

1. KMIP Test Cases Setup

The test cases defined in the previous section all operate independent and assume that the other end of the KMIP connection has been configured to match the assumptions in the test case.

The following scripts allow for setting up the pre-conditions for a number of the test cases and for cleaning up after the test cases have executed – via KMIP operations. A server is not required to use KMIP or to use these scripts for this purpose – they are provided simply because they are useful for some implementations.

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Participants:

Rinkesh Bansal - IBM

Jeff Bartell - Individual

Gabriel Becker - KRYPTUS

Andre Bereza - KRYPTUS

Anthony Berglas - Cryptsoft Pty Ltd.

Mathias Bjorkqvist - IBM

Joseph Brand - Semper Fortis Solutions

Alan Brown - Thales e-Security

Andrew Byrne - Dell

Tim Chevalier - NetApp

Kenli Chong - QuintessenceLabs Pty Ltd.

Justin Corlett - Cryptsoft Pty Ltd.

Tony Cox - Cryptsoft Pty Ltd.

James Crossland - Northrop Grumman

Stephen Edwards - Semper Fortis Solutions

Stan Feather - Hewlett Packard Enterprise (HPE)

Indra Fitzgerald - Utimaco IS GmbH

Judith Furlong - Dell

Gary Gardner - Fornetix

Susan Gleeson - Oracle

Steve He - Thales e-Security

Christopher Hillier - Hewlett Packard Enterprise (HPE)

Tim Hudson - Cryptsoft Pty Ltd.

Nitin Jain - SafeNet, Inc.

Gershon Janssen - Individual

Mark Joseph - P6R, Inc

Paul Lechner - KeyNexus Inc

John Leiseboer - QuintessenceLabs Pty Ltd.

Jarrett Lu - Oracle

Jeff MacMillan - KeyNexus Inc

John Major - QuintessenceLabs Pty Ltd.

Cecilia Majorel - Quintessence Labs

Gabriel Mandaji - KRYPTUS

Jon Mentzell - Fornetix

Prashant Mestri - IBM

Kevin Mooney - Fornetix

Ladan Nekuii - Thales e-Security

Jason Novecosky - KeyNexus Inc

Matt O'reilly - Fornetix

Sanjay Panchal - IBM

Mahesh Paradkar - IBM

Steve Pate - Thales e-Security

Greg Pepus - Semper Fortis Solutions

Bruce Rich - Cryptsoft Pty Ltd.

Thad Roemer - Dyadic Security Ltd.

Thad Roemer - Unbound Tech

Greg Scott - Cryptsoft Pty Ltd.

Martin Shannon - QuintessenceLabs Pty Ltd.

Gerald Stueve - Fornetix

Jim Susoy - P6R, Inc

Jason Thatcher - Cryptsoft Pty Ltd.

Peter Tsai - Thales e-Security

Charles White - Fornetix

Steven Wierenga - Utimaco IS GmbH

Kyle Wuolle - KeyNexus Inc

1. Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Date** | **Editor** | **Changes Made** |
| wd02 | 11-Apr-2019 | Tim Hudson | Updated participant list and additional artifacts (test files)  |
| wd01 | 20-Dec-2018 | Tim Hudson | Initial draft |