

# KMIP Opaque Managed Object Store Profile Version 1.0

## Committee Specification Draft 01 / Public Review Draft 01

09 January 2014

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<http://docs.oasis-open.org/kmip/kmip-opaque-obj-profile/v1.0/kmip-opaque-obj-profile-v1.0.pdf>

#### Technical Committee:

OASIS Key Management Interoperability Protocol (KMIP) TC

#### Chairs:

Robert Griffin ([robert.griffin@rsa.com](mailto:robert.griffin@rsa.com)), EMC Corporation  
Subhash Sankuratripati ([Subhash.Sankuratripati@netapp.com](mailto:Subhash.Sankuratripati@netapp.com)), NetApp

#### Editors:

Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)), Cryptsoft Pty Ltd.  
Robert Lockhart ([Robert.Lockhart@thalessec.com](mailto:Robert.Lockhart@thalessec.com)), Thales e-Security

#### Related work:

This specification is related to:

- *Key Management Interoperability Protocol Profiles Version 1.0*. 01 October 2010. OASIS Standard. <http://docs.oasis-open.org/kmip/profiles/v1.0/os/kmip-profiles-1.0-os.html>.
- *Key Management Interoperability Protocol Specification Version 1.1*. Latest version. <http://docs.oasis-open.org/kmip/spec/v1.1/kmip-spec-v1.1.html>.
- *Key Management Interoperability Protocol Specification Version 1.2*. Latest version. <http://docs.oasis-open.org/kmip/spec/v1.2/kmip-spec-v1.2.html>.

#### Abstract:

Describes a profile for a KMIP server performing opaque managed object storage operations based on requests received from a KMIP client.

**Status:**

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 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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# Table of Contents

1	Introduction.....	5
1.1	Terminology.....	5
1.2	Normative References.....	5
1.3	Non-Normative References.....	5
2	Opaque Managed Object Store Profile.....	7
2.1	Authentication Suite.....	7
2.2	Baseline.....	7
3	Opaque Managed Object Store Profile - Test Cases.....	8
3.1	Mandatory Test Cases KMIP 1.0.....	8
3.1.1	OMOS-M-1-10.....	8
3.2	Mandatory Test Cases KMIP 1.1.....	9
3.2.1	OMOS-M-1-11.....	9
3.3	Mandatory Test Cases KMIP 1.2.....	11
3.3.1	OMOS-M-1-12.....	11
3.4	Optional Test Cases KMIP 1.0.....	13
3.4.1	OMOS-O-1-10.....	13
3.5	Optional Test Cases KMIP 1.1.....	17
3.5.1	OMOS-O-1-11.....	17
3.6	Optional Test Cases KMIP 1.2.....	21
3.6.1	OMOS-O-1-12.....	21
4	Conformance.....	26
4.1	Permitted Test Case Variations.....	26
4.1.1	Variable Items.....	26
4.1.2	Variable behavior.....	27
Appendix A.	Acknowledgments.....	29
Appendix B.	KMIP Specification Cross Reference.....	32
Appendix C.	Revision History.....	37

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# 1 Introduction

For normative definition of the elements of KMIP see the [KMIP Specification](#) [KMIP-SPEC] and the [KMIP Profiles](#) [KMIP-PROF].

Illustrative guidance for the implementation of KMIP clients and servers is provided in the [KMIP Usage Guide](#) [KMIP-UG].

This profile defines the necessary KMIP functionality that a KMIP server conforming to this profile SHALL support in order to interoperate in conformance with this profile.

## 1.1 Terminology

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

## 1.2 Normative References

- [RFC2119] Bradner, S., “Key words for use in RFCs to Indicate Requirement Levels”, BCP 14, RFC 2119, March 1997. <http://www.ietf.org/rfc/rfc2119.txt>.
- [RFC2119] Bradner, S., “Key words for use in RFCs to Indicate Requirement Levels”, BCP 14, RFC 2119, March 1997. <http://www.ietf.org/rfc/rfc2119.txt>.
- [RFC2246] T. Dierks and C. Allen, *The TLS Protocol, Version 1.0*, IETF RFC 2246, Jan 1999, <http://www.ietf.org/rfc/rfc2246.txt>
- [KMIP-SPEC] One or more of [KMIP-SPEC-1\_0], [KMIP-SPEC-1\_1], [KMIP-SPEC-1\_2]
- [KMIP-SPEC-1\_0] Key Management Interoperability Protocol Specification Version 1.0  
<http://docs.oasis-open.org/kmip/spec/v1.0/os/kmip-spec-1.0-os.doc>  
OASIS Standard, October 2010.
- [KMIP-SPEC-1\_1] *Key Management Interoperability Protocol Specification Version 1.1*.  
<http://docs.oasis-open.org/kmip/spec/v1.1/os/kmip-spec-v1.1-os.doc>  
OASIS Standard. 24 January 2013.
- [KMIP-SPEC-1\_2] *Key Management Interoperability Protocol Specification Version 1.2*.  
[URL](#)  
Candidate OASIS Standard 01. **DD MMM YYYY**.
- [KMIP-PROF] One or more of [KMIP-PROF-1\_0], [KMIP-PROF-1\_1], [KMIP-PROF-1\_2]
- [KMIP-PROF-1\_0] *Key Management Interoperability Protocol Usage Guide Version 1.0*.  
<http://docs.oasis-open.org/kmip/profiles/v1.0/os/kmip-profiles-1.0-os.doc>  
OASIS Standard. 1 October 2010.
- [KMIP-PROF-1\_1] *Key Management Interoperability Protocol Usage Guide Version 1.1*.  
<http://docs.oasis-open.org/kmip/profiles/v1.1/os/kmip-profiles-v1.1-os.doc>  
OASIS Standard 01. 24 January 2013.
- [KMIP-PROF-1\_2] *Key Management Interoperability Protocol Usage Guide Version 1.2*.  
[URL](#)  
Candidate OASIS Standard 01. **DD MMM YYYY**.

## 1.3 Non-Normative References

- [KMIP-UG] One or more of [KMIP-UG-1\_0], [KMIP-UG-1\_1], [KMIP-UG-1\_2]
- [KMIP-UG-1\_0] *Key Management Interoperability Protocol Usage Guide Version 1.0*.  
<http://docs.oasis-open.org/kmip/ug/v1.1/kmip-ug-v1.1-cnd01.doc>  
Committee Note Draft, 1 December 2011

44       **[KMIP-UG-1\_1]**     *Key Management Interoperability Protocol Usage Guide Version 1.1.*  
45                           <http://docs.oasis-open.org/kmip/ug/v1.1/cn01/kmip-ug-v1.1-cn01.doc>  
46                           Committee Note 01, 27 July 2012

47       **[KMIP-UG-1\_2]**     *Key Management Interoperability Protocol Usage Guide Version 1.2.*  
48                           URL  
49                           Committee Note Draft, DD MMM YYYY

50       **[KMIP-TC-1\_1]**     *Key Management Interoperability Protocol Test Cases Version 1.1.*  
51                           [http://docs.oasis-open.org/kmip/testcases/v1.1/cn01/kmip-testcases-v1.1-](http://docs.oasis-open.org/kmip/testcases/v1.1/cn01/kmip-testcases-v1.1-cn01.doc)  
52                           cn01.doc, Committee Note 01, 27 July 2012.

53       **[KMIP-TC-1\_2]**     *Key Management Interoperability Protocol Test Cases Version 1.2.*  
54                           URL, Committee Note Draft, DD MMM YYYY.

55       **[KMIP-UC]**         *Key Management Interoperability Protocol Use Cases Version 1.0.*  
56                           [http://docs.oasis-open.org/kmip/usecases/v1.0/cs01/kmip-usecases-1.0-cs-](http://docs.oasis-open.org/kmip/usecases/v1.0/cs01/kmip-usecases-1.0-cs-01.doc)  
57                           01.doc, Committee Specification, 15 June 2010.

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## 60 2 Opaque Managed Object Store Profile

61 The Opaque Managed Object Store Profile is a KMIP server performing storage related operations on  
62 opaque objects based on requests received from a KMIP client.

### 63 2.1 Authentication Suite

64 Implementations conformant to this profile SHALL support at least one of the Authentication Suites  
65 defined within section 3 of [KMIP-PROF]. The establishment of the trust relationship between the KMIP  
66 client and the KMIP server is the same as the defined base profiles.

### 67 2.2 Baseline

68 KMIP clients conformant to this profile:

- 69 1. SHALL conform to the KMIP Baseline Client profile in [KMIP-PROF] and [KMIP-SPEC]

70 KMIP servers conformant to this profile:

- 71 1. SHALL conform to the KMIP Baseline Server profile in [KMIP-PROF] and [KMIP-SPEC] and
- 72 2. SHALL support the following *Objects* [KMIP-SPEC]
  - 73 a. *Opaque Object* [KMIP-SPEC]
- 74 3. SHALL support the following *Attributes* [KMIP-SPEC]
  - 75 a. *Object Type* [KMIP-SPEC]
- 76 4. SHALL support the following *Client-to-Server* [KMIP-SPEC] operations:
  - 77 a. *Register* [KMIP-SPEC]
- 78 5. SHALL support the following *Message Encoding* [KMIP-SPEC]:
  - 79 a. *Opaque Data Type* [KMIP-SPEC]
  - 80 b. *Object Type* [KMIP-SPEC] with value:
    - 81 i. Opaque Object
- 82 6. SHALL support all Mandatory Test Cases, returning results in accordance with the test cases.
- 83 7. MAY support any clause within [KMIP-SPEC] provided it does not conflict with any other clause  
84 within this section 2.2
- 85 8. MAY support extensions outside the scope of this standard (e.g., vendor extensions,  
86 conformance clauses) that do not contradict any KMIP requirements.

## 87 3 Opaque Managed Object Store Profile - Test Cases

88 This section documents the test cases for a KMIP server performing management and storage operations  
89 of opaque objects, based on requests received from a KMIP client.

90 Note: the values for the returned items and the custom attributes are illustrative. Actual values from a real  
91 client system will vary.

### 92 3.1 Mandatory Test Cases KMIP 1.0

93 This section documents the test cases that a client or server conformant to the Opaque Managed Object  
94 Store Profile SHALL support under KMIP Specification 1.0.

#### 95 3.1.1 OMOS-M-1-10

96 Register small opaque object

```
0001 # TIME 0
0002 <RequestMessage>
0003   <RequestHeader>
0004     <ProtocolVersion>
0005       <ProtocolVersionMajor type="Integer" value="1"/>
0006       <ProtocolVersionMinor type="Integer" value="0"/>
0007     </ProtocolVersion>
0008     <BatchCount type="Integer" value="1"/>
0009   </RequestHeader>
0010   <BatchItem>
0011     <Operation type="Enumeration" value="Register"/>
0012     <RequestPayload>
0013       <ObjectType type="Enumeration" value="OpaqueObject"/>
0014       <TemplateAttribute>
0015         <Attribute>
0016           <AttributeName type="TextString" value="Name"/>
0017           <AttributeValue>
0018             <NameValue type="TextString" value="OMOS-M-1-10"/>
0019             <NameType type="Enumeration"
0020               value="UninterpretedTextString"/>
0021           </AttributeValue>
0022         </Attribute>
0023       </TemplateAttribute>
0024       <OpaqueObject>
0025         <OpaqueDataType type="Enumeration" value="0x80000001"/>
0026         <OpaqueDataValue type="ByteString"
0027           value="53656372657450617373776f7264"/>
0028       </OpaqueObject>
0029     </RequestPayload>
0030   </BatchItem>
0031 </RequestMessage>
0032 <ResponseMessage>
0033   <ResponseHeader>
0034     <ProtocolVersion>
0035       <ProtocolVersionMajor type="Integer" value="1"/>
0036       <ProtocolVersionMinor type="Integer" value="0"/>
0037     </ProtocolVersion>
0038     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0039     <BatchCount type="Integer" value="1"/>
```



0037	</ResponseHeader>
0038	<BatchItem>
0039	<Operation type="Enumeration" value="Register"/>
0040	<ResultStatus type="Enumeration" value="Success"/>
0041	<ResponsePayload>
0042	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0043	</ResponsePayload>
0044	</BatchItem>
0045	</ResponseMessage>
# TIME 1	
0046	<RequestMessage>
0047	<RequestHeader>
0048	<ProtocolVersion>
0049	<ProtocolVersionMajor type="Integer" value="1"/>
0050	<ProtocolVersionMinor type="Integer" value="0"/>
0051	</ProtocolVersion>
0052	<BatchCount type="Integer" value="1"/>
0053	</RequestHeader>
0054	<BatchItem>
0055	<Operation type="Enumeration" value="Destroy"/>
0056	<RequestPayload>
0057	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0058	</RequestPayload>
0059	</BatchItem>
0060	</RequestMessage>
0061	<ResponseMessage>
0062	<ResponseHeader>
0063	<ProtocolVersion>
0064	<ProtocolVersionMajor type="Integer" value="1"/>
0065	<ProtocolVersionMinor type="Integer" value="0"/>
0066	</ProtocolVersion>
0067	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0068	<BatchCount type="Integer" value="1"/>
0069	</ResponseHeader>
0070	<BatchItem>
0071	<Operation type="Enumeration" value="Destroy"/>
0072	<ResultStatus type="Enumeration" value="Success"/>
0073	<ResponsePayload>
0074	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0075	</ResponsePayload>
0076	</BatchItem>
0077	</ResponseMessage>

97

98

## 99 3.2 Mandatory Test Cases KMIP 1.1

100 This section documents the test cases that a client or server conformant to the Opaque Managed Object  
101 Store Profile SHALL support under KMIP Specification 1.1.

### 102 3.2.1 OMOS-M-1-11

103 Register small opaque object

# TIME 0
----------

0001	<RequestMessage>
0002	<RequestHeader>
0003	<ProtocolVersion>
0004	<ProtocolVersionMajor type="Integer" value="1"/>
0005	<ProtocolVersionMinor type="Integer" value="1"/>
0006	</ProtocolVersion>
0007	<BatchCount type="Integer" value="1"/>
0008	</RequestHeader>
0009	<BatchItem>
0010	<Operation type="Enumeration" value="Register"/>
0011	<RequestPayload>
0012	<ObjectType type="Enumeration" value="OpaqueObject"/>
0013	<TemplateAttribute>
0014	<Attribute>
0015	<AttributeName type="TextString" value="Name"/>
0016	<AttributeValue>
0017	<NameValue type="TextString" value="OMOS-M-1-11"/>
0018	<NameType type="Enumeration"
0019	value="UninterpretedTextString"/>
0020	</AttributeValue>
0021	</Attribute>
0022	</TemplateAttribute>
0023	<OpaqueObject>
0024	<OpaqueDataType type="Enumeration" value="0x80000001"/>
0025	<OpaqueDataValue type="ByteString"
0026	value="53656372657450617373776f7264"/>
0027	</OpaqueObject>
0028	</RequestPayload>
0029	</BatchItem>
0030	</RequestMessage>
0031	<ResponseMessage>
0032	<ResponseHeader>
0033	<ProtocolVersion>
0034	<ProtocolVersionMajor type="Integer" value="1"/>
0035	<ProtocolVersionMinor type="Integer" value="1"/>
0036	</ProtocolVersion>
0037	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0038	<BatchCount type="Integer" value="1"/>
0039	</ResponseHeader>
0040	<BatchItem>
0041	<Operation type="Enumeration" value="Register"/>
0042	<ResultStatus type="Enumeration" value="Success"/>
0043	<ResponsePayload>
0044	<UniqueIdentifier type="TextString"
0045	value="\$UNIQUE_IDENTIFIER_0"/>
0046	</ResponsePayload>
0047	</BatchItem>
0048	</ResponseMessage>
0049	# TIME 1
0050	<RequestMessage>
0051	<RequestHeader>
0052	<ProtocolVersion>
0053	<ProtocolVersionMajor type="Integer" value="1"/>
0054	<ProtocolVersionMinor type="Integer" value="1"/>
0055	</ProtocolVersion>
0056	<BatchCount type="Integer" value="1"/>
0057	</RequestHeader>
0058	<BatchItem>

0055	<Operation type="Enumeration" value="Destroy"/>
0056	<RequestPayload>
0057	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0058	</RequestPayload>
0059	</BatchItem>
0060	</RequestMessage>
0061	<ResponseMessage>
0062	<ResponseHeader>
0063	<ProtocolVersion>
0064	<ProtocolVersionMajor type="Integer" value="1"/>
0065	<ProtocolVersionMinor type="Integer" value="1"/>
0066	</ProtocolVersion>
0067	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0068	<BatchCount type="Integer" value="1"/>
0069	</ResponseHeader>
0070	<BatchItem>
0071	<Operation type="Enumeration" value="Destroy"/>
0072	<ResultStatus type="Enumeration" value="Success"/>
0073	<ResponsePayload>
0074	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0075	</ResponsePayload>
0076	</BatchItem>
0077	</ResponseMessage>

104

105

### 106 3.3 Mandatory Test Cases KMIP 1.2

107 This section documents the test cases that a client or server conformant to the Opaque Managed Object  
 108 Store Profile SHALL support under KMIP Specification 1.2.

#### 109 3.3.1 OMOS-M-1-12

110 Register small opaque object

	# TIME 0
0001	<RequestMessage>
0002	<RequestHeader>
0003	<ProtocolVersion>
0004	<ProtocolVersionMajor type="Integer" value="1"/>
0005	<ProtocolVersionMinor type="Integer" value="2"/>
0006	</ProtocolVersion>
0007	<BatchCount type="Integer" value="1"/>
0008	</RequestHeader>
0009	<BatchItem>
0010	<Operation type="Enumeration" value="Register"/>
0011	<RequestPayload>
0012	<ObjectType type="Enumeration" value="OpaqueObject"/>
0013	<TemplateAttribute>
0014	<Attribute>
0015	<AttributeName type="TextString" value="Name"/>
0016	<AttributeValue>
0017	<NameValue type="TextString" value="OMOS-M-1-12"/>
0018	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0019	</AttributeValue>

0020	</Attribute>
0021	</TemplateAttribute>
0022	<OpaqueObject>
0023	<OpaqueDataType type="Enumeration" value="0x80000001"/>
0024	<OpaqueDataValue type="ByteString" value="53656372657450617373776f7264"/>
0025	</OpaqueObject>
0026	</RequestPayload>
0027	</BatchItem>
0028	</RequestMessage>
0029	<ResponseMessage>
0030	<ResponseHeader>
0031	<ProtocolVersion>
0032	<ProtocolVersionMajor type="Integer" value="1"/>
0033	<ProtocolVersionMinor type="Integer" value="2"/>
0034	</ProtocolVersion>
0035	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0036	<BatchCount type="Integer" value="1"/>
0037	</ResponseHeader>
0038	<BatchItem>
0039	<Operation type="Enumeration" value="Register"/>
0040	<ResultStatus type="Enumeration" value="Success"/>
0041	<ResponsePayload>
0042	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0043	</ResponsePayload>
0044	</BatchItem>
0045	</ResponseMessage>
0046	<i># TIME 1</i> <RequestMessage>
0047	<RequestHeader>
0048	<ProtocolVersion>
0049	<ProtocolVersionMajor type="Integer" value="1"/>
0050	<ProtocolVersionMinor type="Integer" value="2"/>
0051	</ProtocolVersion>
0052	<BatchCount type="Integer" value="1"/>
0053	</RequestHeader>
0054	<BatchItem>
0055	<Operation type="Enumeration" value="Destroy"/>
0056	<RequestPayload>
0057	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0058	</RequestPayload>
0059	</BatchItem>
0060	</RequestMessage>
0061	<ResponseMessage>
0062	<ResponseHeader>
0063	<ProtocolVersion>
0064	<ProtocolVersionMajor type="Integer" value="1"/>
0065	<ProtocolVersionMinor type="Integer" value="2"/>
0066	</ProtocolVersion>
0067	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0068	<BatchCount type="Integer" value="1"/>
0069	</ResponseHeader>
0070	<BatchItem>
0071	<Operation type="Enumeration" value="Destroy"/>
0072	<ResultStatus type="Enumeration" value="Success"/>
0073	<ResponsePayload>

0074	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0075	</ResponsePayload>
0076	</BatchItem>
0077	</ResponseMessage>

111

112

### 113 3.4 Optional Test Cases KMIP 1.0

114 This section documents the test cases that a client or server conformant to the Opaque Managed Object  
115 Store Profile MAY support under KMIP Specification 1.0.

#### 116 3.4.1 OMOS-O-1-10

117 Register larger (>10k) opaque object

	# TIME 0
0001	<RequestMessage>
0002	<RequestHeader>
0003	<ProtocolVersion>
0004	<ProtocolVersionMajor type="Integer" value="1"/>
0005	<ProtocolVersionMinor type="Integer" value="0"/>
0006	</ProtocolVersion>
0007	<BatchCount type="Integer" value="1"/>
0008	</RequestHeader>
0009	<BatchItem>
0010	<Operation type="Enumeration" value="Register"/>
0011	<RequestPayload>
0012	<ObjectType type="Enumeration" value="OpaqueObject"/>
0013	<TemplateAttribute>
0014	<Attribute>
0015	<AttributeName type="TextString" value="Name"/>
0016	<AttributeValue>
0017	<NameValue type="TextString" value="OMOS-O-1-10"/>
0018	<NameType type="Enumeration" value="UninterpretedTextString"/>
0019	</AttributeValue>
0020	</Attribute>
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<pre> 0025 0026 0027 0028 </pre>	<pre> bd041345e94e597817ff15a5f2332b697a97507954a664eed19e925daba33c575773 ebdbaf42babf42d17073e1d595fb612519ccc560451c66c82cf2f2b220d58fd6d666 a089b843f993c784e4b07027ccbb72437a69ce1b8e34050b254d3f9d195750edfaf9 2f5cff1140ea202cbc489b32ab4d78f6cbc7205cdd9ec64db4dba9477e141f1bb54a af929e9fb766711eaa7b802818e03c2576bc5fbd54a8daf64fa8907a50b81db4b53f 87ad894342ba54304ff013586aadba30f40f8c62c127287f2ef26303fbb0be86f581 f51881686d3ee672a567c887c88122eddf9ea2e75ce4788b8b07b7bf30bd68ab766d 336d3de479d3b7b738873b53fb367af51e26e098d9f60b2ff9eb364db4847adb19f4 5a6644298dda56b1fa62857a55aead02fd4b7ad11dabf45cc94b92e797c4d8e53646 da4847e0f84372466d6503cea856f000274afd00fd97b69d185fc14ab25a5cb9d897 b85f5e22f8f881b113b60e89b05f2717fe29a8c3eccba97755e827ef02cd95ad52a1 de25ae6deefa3f150c61f39256f3dc2959c4f0ad94ccab130c9f69642534484ba827 33bfc102aaffbd86103975cfb8146df3ffe895e462fabac9ab8e49ba900e7ddb63fd 32e2b6487fe52d1e2c42ec16da300214992fc45dbeb39474e2edce031c153c0ff88d 970c71707bde5eeb5a8cec19b79558d8cf6ba7d1fd6c6e6361fc4f4245850166cb3e d529ba0f75c9eab38298cbbc1d365644633ad610c8bb4c82bf5d6f9eed300df18d84 f0244965c8df4df535f6e0e63dea6fe49e439f97aad7c74acc77887a35aeb46e4f7c b648dd53b96350913d14c97106a528df78de8166c37dfc175eb8cd290b4eeafe4c03 47c2f691e41d30e0aceb7eb25d58aa81b05fe8f5300a1e38dee028cdfef196210fbe6 aa2cdcd1b426aaafc3bf086e1d34f930a1bb9ee32b575f4ae3b82ef52f44d8654353 9c358a7079b18c7178635fc1fb54f7ed6b51ad603293d21523f62b4d1978ac4014d5 07268c830c621995daf0a8937a7a820ef6ddba82a53503bd8c2e48d0863ecd28c4 fe15029337e1c7caf29e5dc05d447"/&gt; &lt;/OpaqueObject&gt; &lt;/RequestPayload&gt; &lt;/BatchItem&gt; &lt;/RequestMessage&gt; </pre>
<pre> 0029 0030 0031 0032 0033 0034 0035 0036 0037 0038 0039 0040 0041 0042 0043 0044 0045 </pre>	<pre> &lt;ResponseMessage&gt;   &lt;ResponseHeader&gt;     &lt;ProtocolVersion&gt;       &lt;ProtocolVersionMajor type="Integer" value="1"/&gt;       &lt;ProtocolVersionMinor type="Integer" value="0"/&gt;     &lt;/ProtocolVersion&gt;     &lt;TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/&gt;     &lt;BatchCount type="Integer" value="1"/&gt;   &lt;/ResponseHeader&gt;   &lt;BatchItem&gt;     &lt;Operation type="Enumeration" value="Register"/&gt;     &lt;ResultStatus type="Enumeration" value="Success"/&gt;     &lt;ResponsePayload&gt;       &lt;UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/&gt;     &lt;/ResponsePayload&gt;   &lt;/BatchItem&gt; &lt;/ResponseMessage&gt; </pre>
<pre> 0046 0047 0048 0049 0050 0051 0052 0053 0054 0055 0056 0057 </pre>	<pre> # TIME 1 &lt;RequestMessage&gt;   &lt;RequestHeader&gt;     &lt;ProtocolVersion&gt;       &lt;ProtocolVersionMajor type="Integer" value="1"/&gt;       &lt;ProtocolVersionMinor type="Integer" value="0"/&gt;     &lt;/ProtocolVersion&gt;     &lt;BatchCount type="Integer" value="1"/&gt;   &lt;/RequestHeader&gt;   &lt;BatchItem&gt;     &lt;Operation type="Enumeration" value="Destroy"/&gt;     &lt;RequestPayload&gt;       &lt;UniqueIdentifier type="TextString" </pre>



0058	value="\$UNIQUE_IDENTIFIER_0"/>
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0060	</BatchItem>
0061	</RequestMessage>
0061	<ResponseMessage>
0062	<ResponseHeader>
0063	<ProtocolVersion>
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0067	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0068	<BatchCount type="Integer" value="1"/>
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0070	<BatchItem>
0071	<Operation type="Enumeration" value="Destroy"/>
0072	<ResultStatus type="Enumeration" value="Success"/>
0073	<ResponsePayload>
0074	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0075	</ResponsePayload>
0076	</BatchItem>
0077	</ResponseMessage>

118

119

## 120 3.5 Optional Test Cases KMIP 1.1

121 This section documents the test cases that a client or server conformant to the Opaque Managed Object  
 122 Store Profile SHALL support under KMIP Specification 1.1.

### 123 3.5.1 OMOS-O-1-11

124 Register larger (>10k) opaque object

	# TIME 0
0001	<RequestMessage>
0002	<RequestHeader>
0003	<ProtocolVersion>
0004	<ProtocolVersionMajor type="Integer" value="1"/>
0005	<ProtocolVersionMinor type="Integer" value="1"/>
0006	</ProtocolVersion>
0007	<BatchCount type="Integer" value="1"/>
0008	</RequestHeader>
0009	<BatchItem>
0010	<Operation type="Enumeration" value="Register"/>
0011	<RequestPayload>
0012	<ObjectType type="Enumeration" value="OpaqueObject"/>
0013	<TemplateAttribute>
0014	<Attribute>
0015	<AttributeName type="TextString" value="Name"/>
0016	<AttributeValue>
0017	<NameValue type="TextString" value="OMOS-O-1-11"/>
0018	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0019	</AttributeValue>
0020	</Attribute>
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0022	<OpaqueObject>

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0026	</RequestPayload>
0027	</BatchItem>
0028	</RequestMessage>
0029	<ResponseMessage>
0030	<ResponseHeader>
0031	<ProtocolVersion>
0032	<ProtocolVersionMajor type="Integer" value="1"/>
0033	<ProtocolVersionMinor type="Integer" value="1"/>
0034	</ProtocolVersion>
0035	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0036	<BatchCount type="Integer" value="1"/>
0037	</ResponseHeader>
0038	<BatchItem>
0039	<Operation type="Enumeration" value="Register"/>
0040	<ResultStatus type="Enumeration" value="Success"/>
0041	<ResponsePayload>
0042	<UniqueIdentifier type="TextString"

0043	value="\$UNIQUE_IDENTIFIER_0"/>
0044	</ResponsePayload>
0045	</BatchItem>
	</ResponseMessage>
	# TIME 1
0046	<RequestMessage>
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0049	<ProtocolVersionMajor type="Integer" value="1"/>
0050	<ProtocolVersionMinor type="Integer" value="1"/>
0051	</ProtocolVersion>
0052	<BatchCount type="Integer" value="1"/>
0053	</RequestHeader>
0054	<BatchItem>
0055	<Operation type="Enumeration" value="Destroy"/>
0056	<RequestPayload>
0057	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0058	</RequestPayload>
0059	</BatchItem>
0060	</RequestMessage>
0061	<ResponseMessage>
0062	<ResponseHeader>
0063	<ProtocolVersion>
0064	<ProtocolVersionMajor type="Integer" value="1"/>
0065	<ProtocolVersionMinor type="Integer" value="1"/>
0066	</ProtocolVersion>
0067	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0068	<BatchCount type="Integer" value="1"/>
0069	</ResponseHeader>
0070	<BatchItem>
0071	<Operation type="Enumeration" value="Destroy"/>
0072	<ResultStatus type="Enumeration" value="Success"/>
0073	<ResponsePayload>
0074	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0075	</ResponsePayload>
0076	</BatchItem>
0077	</ResponseMessage>

125

126

## 127 3.6 Optional Test Cases KMIP 1.2

128 This section documents the test cases that a client or server conformant to the Opaque Managed Object  
 129 Store Profile MAY support under KMIP Specification 1.2.

### 130 3.6.1 OMOS-O-1-12

131 Register larger (>10k) opaque object

	# TIME 0
0001	<RequestMessage>
0002	<RequestHeader>
0003	<ProtocolVersion>
0004	<ProtocolVersionMajor type="Integer" value="1"/>
0005	<ProtocolVersionMinor type="Integer" value="2"/>
0006	</ProtocolVersion>

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0007 <BatchCount type="Integer" value="1"/>
0008 </RequestHeader>
0009 <BatchItem>
0010 <Operation type="Enumeration" value="Register"/>
0011 <RequestPayload>
0012 <ObjectType type="Enumeration" value="OpaqueObject"/>
0013 <TemplateAttribute>
0014 <Attribute>
0015 <AttributeName type="TextString" value="Name"/>
0016 <AttributeValue>
0017 <NameValue type="TextString" value="OMOS-0-1-12"/>
0018 <NameType type="Enumeration"
value="UninterpretedTextString"/>
0019 </AttributeValue>
0020 </Attribute>
0021 </TemplateAttribute>
0022 <OpaqueObject>
0023 <OpaqueDataType type="Enumeration" value="0x80000001"/>
0024 <OpaqueDataValue type="ByteString"
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------	--



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0028	</RequestMessage>
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0033	<ProtocolVersionMinor type="Integer" value="2"/>
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0037	</ResponseHeader>
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0058	</RequestPayload>
0059	</BatchItem>
0060	</RequestMessage>
0061	<ResponseMessage>
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0064	<ProtocolVersionMajor type="Integer" value="1"/>
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0072	<ResultStatus type="Enumeration" value="Success"/>
0073	<ResponsePayload>
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0076	</BatchItem>
0077	</ResponseMessage>

---

## 133 4 Conformance

134 KMIP client and server implementations conformant to this profile:

- 135 1. SHALL support the Authentication Suite conditions (2.1) and;
- 136 2. SHALL support the Baseline conditions (2.2) and;
- 137 3. SHALL support all Mandatory Test Cases (3.1 and 3.2 and 3.3), for each supported protocol
- 138 version (major and minor), returning results in accordance with the test cases.

### 139 4.1 Permitted Test Case Variations

140 Whilst the test cases provided in this Profile define the allowed request and response content, some  
141 inherent variations MAY occur and are permitted within a successfully completed test case.

142 Each test case MAY include allowed variations in the description of the test case in addition to the  
143 variations noted in this section.

144 Other variations not explicitly noted in this Profile SHALL be deemed non-conformant.

#### 145 4.1.1 Variable Items

146 An implementation conformant to this Profile MAY vary the following values:

- 147 1. UniqueIdentifier
- 148 2. PrivateKeyUniqueIdentifier
- 149 3. PublicKeyUniqueIdentifier
- 150 4. UniqueBatchItemIdentifier
- 151 5. AsynchronousCorrelationValue
- 152 6. TimeStamp
- 153 7. KeyValue / KeyMaterial including:
  - 154 a. key material content returned for managed cryptographic objects which are generated by
  - 155 the server
  - 156 b. wrapped versions of keys where the wrapping key is dynamic or the wrapping contains
  - 157 variable output for each wrap operation
- 158 8. For response containing the output of cryptographic operation in Data / SignatureData/ MACData  
159 / IVCounterNonce where:
  - 160 a. the managed object is generated by the server; or
  - 161 b. the operation inherently contains variable output
- 162 9. For the following DateTime attributes where the value is not specified in the request as a fixed  
163 DateTime value:
  - 164 a. ActivationDate
  - 165 b. ArchiveDate
  - 166 c. CompromiseDate
  - 167 d. CompromiseOccurrenceDate
  - 168 e. DeactivationDate
  - 169 f. DestroyDate
  - 170 g. InitialDate
  - 171 h. LastChangeDate
  - 172 i. ProtectStartDate

- 173 j. ProcessStopDate
- 174 k. ValidityDate
- 175 l. OriginalCreationDate
- 176 10. LinkedObjectIdentifier
- 177 11. DigestValue
  - 178 a. For those managed cryptographic objects which are dynamically generated
- 179 12. KeyFormatType
  - 180 a. The key format type selected by the server when it creates managed objects
- 181 13. Digest
  - 182 a. The HashingAlgorithm selected by the server when it calculates the digest for a managed
  - 183 object for which it has access to the key material
  - 184 b. The Digest Value
- 185 14. Extensions reported in Query for ExtensionList and ExtensionMap
- 186 15. Application Namespaces reported in Query
- 187 16. Object Types reported in Query other than those noted as required in this profile
- 188 17. Operation Types reported in Query other than those noted as required in this profile (or any
- 189 referenced profile documents)
- 190 18. For TextString attribute values containing test identifiers:
  - 191 a. Additional vendor or application prefixes
- 192 19. Additional attributes beyond those noted in the response

193

194 An implementation conformant to this Profile MAY allow the following response variations:

- 195 1. Object Group values – May or may not return one or more Object Group values not included in
- 196 the requests
- 197 2. y-CustomAttributes – May or may not include additional server-specific associated attributes not
- 198 included in requests
- 199 3. Message Extensions – May or may not include additional (non-critical) vendor extensions
- 200 4. TemplateAttribute – May or may not be included in responses where the Template Attribute
- 201 response is noted as optional in [KMIP-SPEC]
- 202 5. AttributeIndex – May or may not include Attribute Index value where the Attribute Index value is 0
- 203 for Protocol Versions 1.1 and above.
- 204 6. ResultMessage – May or may not be included in responses and the value (if included) may vary
- 205 from the text contained within the test case.
- 206 7. The list of Protocol Versions returned in a DiscoverVersion response may include additional
- 207 protocol versions if the request has not specified a list of client supported Protocol Versions.
- 208 8. VendorIdentification - The value (if included) may vary from the text contained within the test
- 209 case.

## 210 4.1.2 Variable behavior

211 An implementation conformant to this Profile SHALL allow variation of the following behavior:

- 212 1. A test may omit the clean-up requests and responses (containing Revoke and/or Destroy) at the
- 213 end of the test provided there is a separate mechanism to remove the created objects during
- 214 testing.
- 215 2. A test may omit the test identifiers if the client is unable to include them in requests. This includes
- 216 the following attributes:
  - 217 a. Name; and

218  
219  
220

b. x-ID

---

## Appendix A. Acknowledgments

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

### Participants:

222	Hal Aldridge, Sypris Electronics
223	Mike Allen, Symantec
224	Gordon Arnold, IBM
225	Todd Arnold, IBM
226	Richard Austin, Hewlett-Packard
227	Lars Bagnert, PrimeKey
228	Elaine Barker, NIST
229	Peter Bartok, Venafi, Inc.
230	Tom Benjamin, IBM
231	Anthony Berglas, Cryptsoft
232	Mathias Björkqvist, IBM
233	Kevin Bocket, Venafi
234	Anne Bolgert, IBM
235	Alan Brown, Thales e-Security
236	Tim Bruce, CA Technologies
237	Chris Burchett, Credant Technologies, Inc.
238	Kelley Burgin, National Security Agency
239	Robert Burns, Thales e-Security
240	Chuck Castleton, Venafi
241	Kenli Chong, QuintessenceLabs
242	John Clark, Hewlett-Packard
243	Tom Clifford, Symantec Corp.
244	Doron Cohen, SafeNet, Inc
245	Tony Cox, Cryptsoft
246	Russell Dietz, SafeNet, Inc
247	Graydon Dodson, Lexmark International Inc.
248	Vinod Duggirala, EMC Corporation
249	Chris Dunn, SafeNet, Inc.
250	Michael Duren, Sypris Electronics
251	James Dzierzanowski, American Express CCoE
252	Faisal Faruqui, Thales e-Security
253	Stan Feather, Hewlett-Packard
254	David Finkelstein, Symantec Corp.
255	James Fitzgerald, SafeNet, Inc.
256	Indra Fitzgerald, Hewlett-Packard
257	Judith Furlong, EMC Corporation
258	Susan Gleeson, Oracle
259	Robert Griffin, EMC Corporation
260	Paul Grojean, Individual
261	Robert Haas, IBM
262	Thomas Hardjono, M.I.T.
263	ChengDong He, Huawei Technologies Co., Ltd.
264	Steve He, Vormetric
265	Kurt Heberlein, Hewlett-Packard
266	Larry Hofer, Emulex Corporation
267	Maryann Hondo, IBM
268	Walt Hubis, NetApp
269	Tim Hudson, Cryptsoft
270	Jonas Iggbom, Venafi, Inc.

271 Sitaram Inguva, American Express CCoE  
272 Jay Jacobs, Target Corporation  
273 Glen Jaquette, IBM  
274 Mahadev Karadiguddi, NetApp  
275 Greg Kazmierczak, Wave Systems Corp.  
276 Marc Kenig, SafeNet, Inc.  
277 Mark Knight, Thales e-Security  
278 Kathy Kriese, Symantec Corporation  
279 Mark Lambiase, SecureAuth  
280 John Leiseboer, Quintessence Labs  
281 Hal Lockhart, Oracle Corporation  
282 Robert Lockhart, Thales e-Security  
283 Anne Luk, Cryptsoft  
284 Sairam Manidi, Freescale  
285 Luther Martin, Voltage Security  
286 Neil McEvoy, iFOSSF  
287 Marina Milshtein, Individual  
288 Dale Moberg, Axway Software  
289 Jishnu Mukeri, Hewlett-Packard  
290 Bryan Olson, Hewlett-Packard  
291 John Peck, IBM  
292 Rob Philpott, EMC Corporation  
293 Denis Pochuev, SafeNet, Inc.  
294 Reid Poole, Venafi, Inc.  
295 Ajai Puri, SafeNet, Inc.  
296 Saravanan Ramalingam, Thales e-Security  
297 Peter Reed, SafeNet, Inc.  
298 Bruce Rich, IBM  
299 Christina Richards, American Express CCoE  
300 Warren Robbins, Dell  
301 Peter Robinson, EMC Corporation  
302 Scott Rotondo, Oracle  
303 Saikat Saha, SafeNet, Inc.  
304 Anil Saldhana, Red Hat  
305 Subhash Sankuratripati, NetApp  
306 Boris Schumperli, Cryptomathic  
307 Greg Singh, QuintessenceLabs  
308 David Smith, Venafi, Inc  
309 Brian Spector, Certivox  
310 Terence Spies, Voltage Security  
311 Deborah Steckroth, RouteOne LLC  
312 Michael Stevens, QuintessenceLabs  
313 Marcus Streets, Thales e-Security  
314 Satish Sundar, IBM  
315 Kiran Thota, VMware  
316 Somanchi Trinath, Freescale Semiconductor, Inc.  
317 Nathan Turajski, Thales e-Security  
318 Sean Turner, IECA, Inc.  
319 Paul Turner, Venafi, Inc.  
320 Rod Wideman, Quantum Corporation  
321 Steven Wierenga, Hewlett-Packard  
322 Jin Wong, QuintessenceLabs  
323 Sameer Yami, Thales e-Security  
324 Peter Yee, EMC Corporation  
325 Krishna Yellepeddy, IBM  
326 Catherine Ying, SafeNet, Inc.  
327 Tatu Ylonen, SSH Communications Security (Tectia Corp)

328 Michael Yoder, Vormetric. Inc.  
329 Magda Zdunkiewicz, Cryptsoft  
330 Peter Zelechowski, Election Systems & Software

## Appendix B. KMIP Specification Cross Reference

Reference Term	KMIP 1.0	KMIP 1.1	KMIP 1.2
<b>1 Introduction</b>			
<i>Non-Normative References</i>	1.3.	1.3.	1.3.
<i>Normative References</i>	1.2.	1.2.	1.2.
<i>Terminology</i>	1.1.	1.1.	1.1.
<b>2 Objects</b>			
<i>Attribute</i>	2.1.1.	2.1.1.	2.1.1.
<i>Base Objects</i>	2.1.	2.1.	2.1.
<i>Certificate</i>	2.2.1.	2.2.1.	2.2.1.
<i>Credential</i>	2.1.2.	2.1.2.	2.1.2.
<i>Data</i>	-	-	2.1.10.
<i>Data Length</i>	-	-	2.1.11.
<i>Extension Information</i>	-	2.1.9.	2.1.9.
<i>Key Block</i>	2.1.3.	2.1.3.	2.1.3.
<i>Key Value</i>	2.1.4.	2.1.4.	2.1.4.
<i>Key Wrapping Data</i>	2.1.5.	2.1.5.	2.1.5.
<i>Key Wrapping Specification</i>	2.1.6.	2.1.6.	2.1.6.
<i>MAC Data</i>	-	-	2.1.13.
<i>Managed Objects</i>	2.2.	2.2.	2.2.
<i>Nonce</i>	-	-	2.1.14.
<i>Opaque Object</i>	2.2.8.	2.2.8.	2.2.8.
<i>PGP Key</i>	-	-	2.2.9.
<i>Private Key</i>	2.2.4.	2.2.4.	2.2.4.
<i>Public Key</i>	2.2.3.	2.2.3.	2.2.3.
<i>Secret Data</i>	2.2.7.	2.2.7.	2.2.7.
<i>Signature Data</i>	-	-	2.1.12.
<i>Split Key</i>	2.2.5.	2.2.5.	2.2.5.
<i>Symmetric Key</i>	2.2.2.	2.2.2.	2.2.2.
<i>Template</i>	2.2.6.	2.2.6.	2.2.6.
<i>Template-Attribute Structures</i>	2.1.8.	2.1.8.	2.1.8.
<i>Transparent DH Private Key</i>	2.1.7.6.	2.1.7.6.	2.1.7.6.
<i>Transparent DH Public Key</i>	2.1.7.7.	2.1.7.7.	2.1.7.7.
<i>Transparent DSA Private Key</i>	2.1.7.2.	2.1.7.2.	2.1.7.2.
<i>Transparent DSA Public Key</i>	2.1.7.3.	2.1.7.3.	2.1.7.3.
<i>Transparent ECDH Private Key</i>	2.1.7.10.	2.1.7.10.	2.1.7.10.
<i>Transparent ECDH Public Key</i>	2.1.7.11.	2.1.7.11.	2.1.7.11.
<i>Transparent ECDSA Private Key</i>	2.1.7.8.	2.1.7.8.	2.1.7.8.
<i>Transparent ECDSA Public Key</i>	2.1.7.9.	2.1.7.9.	2.1.7.9.
<i>Transparent ECMQV Private Key</i>	2.1.7.12.	2.1.7.12.	2.1.7.12.
<i>Transparent ECMQV Public Key</i>	2.1.7.13.	2.1.7.13.	2.1.7.13.
<i>Transparent Key Structures</i>	2.1.7.	2.1.7.	2.1.7.
<i>Transparent RSA Private Key</i>	2.1.7.4.	2.1.7.4.	2.1.7.4.
<i>Transparent RSA Public Key</i>	2.1.7.5.	2.1.7.5.	2.1.7.5.
<i>Transparent Symmetric Key</i>	2.1.7.1.	2.1.7.1.	2.1.7.1.
<b>3 Attributes</b>			
<i>Activation Date</i>	3.19.	3.24.	3.24.
<i>Alternative Name</i>	-	-	3.40.
<i>Application Specific Information</i>	3.30.	3.36.	3.36.
<i>Archive Date</i>	3.27.	3.32.	3.32.



<b>Reference Term</b>	<b>KMIP 1.0</b>	<b>KMIP 1.1</b>	<b>KMIP 1.2</b>
<i>Attributes</i>	3	3	3
<i>Certificate Identifier</i>	3.9.	3.13.	3.13.
<i>Certificate Issuer</i>	3.11.	3.15.	3.15.
<i>Certificate Length</i>	-	3.9.	3.9.
<i>Certificate Subject</i>	3.10.	3.14.	3.14.
<i>Certificate Type</i>	3.8.	3.8.	3.8.
<i>Compromise Date</i>	3.25.	3.30.	3.30.
<i>Compromise Occurrence Date</i>	3.24.	3.29.	3.29.
<i>Contact Information</i>	3.31.	3.37.	3.37.
<i>Cryptographic Algorithm</i>	3.4.	3.4.	3.4.
<i>Cryptographic Domain Parameters</i>	3.7.	3.7.	3.7.
<i>Cryptographic Length</i>	3.5.	3.5.	3.5.
<i>Cryptographic Parameters</i>	3.6.	3.6.	3.6.
<i>Custom Attribute</i>	3.33.	3.39.	3.39.
<i>Deactivation Date</i>	3.22.	3.27.	3.27.
<i>Default Operation Policy</i>	3.13.2.	3.18.2.	3.18.2.
<i>Default Operation Policy for Certificates and Public Key Objects</i>	3.13.2.2.	3.18.2.2.	3.18.2.2.
<i>Default Operation Policy for Secret Objects</i>	3.13.2.1.	3.18.2.1.	3.18.2.1.
<i>Default Operation Policy for Template Objects</i>	3.13.2.3.	3.18.2.3.	3.18.2.3.
<i>Destroy Date</i>	3.23.	3.28.	3.28.
<i>Digest</i>	3.12.	3.17.	3.17.
<i>Digital Signature Algorithm</i>	-	3.16.	3.16.
<i>Fresh</i>	-	3.34.	3.34.
<i>Initial Date</i>	3.18.	3.23.	3.23.
<i>Key Value Location</i>	-	-	3.42.
<i>Key Value Present</i>	-	-	3.41.
<i>Last Change Date</i>	3.32.	3.38.	3.38.
<i>Lease Time</i>	3.15.	3.20.	3.20.
<i>Link</i>	3.29.	3.35.	3.35.
<i>Name</i>	3.2.	3.2.	3.2.
<i>Object Group</i>	3.28.	3.33.	3.33.
<i>Object Type</i>	3.3.	3.3.	3.3.
<i>Operation Policy Name</i>	3.13.	3.18.	3.18.
<i>Operations outside of operation policy control</i>	3.13.1.	3.18.1.	3.18.1.
<i>Original Creation Date</i>	-	-	3.43.
<i>Process Start Date</i>	3.20.	3.25.	3.25.
<i>Protect Stop Date</i>	3.21.	3.26.	3.26.
<i>Revocation Reason</i>	3.26.	3.31.	3.31.
<i>State</i>	3.17.	3.22.	3.22.
<i>Unique Identifier</i>	3.1.	3.1.	3.1.
<i>Usage Limits</i>	3.16.	3.21.	3.21.
<i>X.509 Certificate Identifier</i>	-	3.10.	3.10.
<i>X.509 Certificate Issuer</i>	-	3.12.	3.12.
<i>X.509 Certificate Subject</i>	-	3.11.	3.11.
<b>4 Client-to-Server Operations</b>			
<i>Activate</i>	4.18.	4.19.	4.19.
<i>Add Attribute</i>	4.13.	4.14.	4.14.
<i>Archive</i>	4.21.	4.22.	4.22.
<i>Cancel</i>	4.25.	4.27.	4.27.
<i>Certify</i>	4.6.	4.7.	4.7.
<i>Check</i>	4.9.	4.10.	4.10.
<i>Create</i>	4.1.	4.1.	4.1.
<i>Create Key Pair</i>	4.2.	4.2.	4.2.

<b>Reference Term</b>	<b>KMIP 1.0</b>	<b>KMIP 1.1</b>	<b>KMIP 1.2</b>
<i>Create Split Key</i>	-	-	4.38.
<i>Decrypt</i>	-	-	4.30.
<i>Delete Attribute</i>	4.15.	4.16.	4.16.
<i>Derive Key</i>	4.5.	4.6.	4.6.
<i>Destroy</i>	4.20.	4.21.	4.21.
<i>Discover Versions</i>	-	4.26.	4.26.
<i>Encrypt</i>	-	-	4.29.
<i>Get</i>	4.10.	4.11.	4.11.
<i>Get Attribute List</i>	4.12.	4.13.	4.13.
<i>Get Attributes</i>	4.11.	4.12.	4.12.
<i>Get Usage Allocation</i>	4.17.	4.18.	4.18.
<i>Hash</i>	-	-	4.37.
<i>Join Split Key</i>	-	-	4.39.
<i>Locate</i>	4.8.	4.9.	4.9.
<i>MAC</i>	-	-	4.33.
<i>MAC Verify</i>	-	-	4.34.
<i>Modify Attribute</i>	4.14.	4.15.	4.15.
<i>Obtain Lease</i>	4.16.	4.17.	4.17.
<i>Poll</i>	4.26.	4.28.	4.28.
<i>Query</i>	4.24.	4.25.	4.25.
<i>Re-certify</i>	4.7.	4.8.	4.8.
<i>Recover</i>	4.22.	4.23.	4.23.
<i>Register</i>	4.3.	4.3.	4.3.
<i>Re-key</i>	4.4.	4.4.	4.4.
<i>Re-key Key Pair</i>	-	4.5.	4.5.
<i>Revoke</i>	4.19.	4.20.	4.20.
<i>RNG Retrieve</i>	-	-	4.35.
<i>RNG Seed</i>	-	-	4.36.
<i>Sign</i>	-	-	4.31.
<i>Signature Verify</i>	-	-	4.32.
<i>Validate</i>	4.23.	4.24.	4.24.
<b>5 Server-to-Client Operations</b>			
<i>Notify</i>	5.1.	5.1.	5.1.
<i>Put</i>	5.2.	5.2.	5.2.
<b>6 Message Contents</b>			
<i>Asynchronous Correlation Value</i>	6.8.	6.8.	6.8.
<i>Asynchronous Indicator</i>	6.7.	6.7.	6.7.
<i>Attestation Capable Indicator</i>	-	-	6.17.
<i>Batch Count</i>	6.14.	6.14.	6.14.
<i>Batch Error Continuation Option</i>	6.13.	6.13.	6.13.
<i>Batch Item</i>	6.15.	6.15.	6.15.
<i>Batch Order Option</i>	6.12.	6.12.	6.12.
<i>Maximum Response Size</i>	6.3.	6.3.	6.3.
<i>Message Extension</i>	6.16.	6.16.	6.16.
<i>Operation</i>	6.2.	6.2.	6.2.
<i>Protocol Version</i>	6.1.	6.1.	6.1.
<i>Result Message</i>	6.11.	6.11.	6.11.
<i>Result Reason</i>	6.10.	6.10.	6.10.
<i>Result Status</i>	6.9.	6.9.	6.9.
<i>Time Stamp</i>	6.5.	6.5.	6.5.
<i>Unique Batch Item ID</i>	6.4.	6.4.	6.4.
<b>7 Message Format</b>			

<b>Reference Term</b>	<b>KMIP 1.0</b>	<b>KMIP 1.1</b>	<b>KMIP 1.2</b>
<i>Message Structure</i>	7.1.	7.1.	7.1.
<i>Operations</i>	7.2.	7.2.	7.2.
<b>8 Authentication</b>			
<i>Authentication</i>	8	8	8
<b>9 Message Encoding</b>			
<i>Alternative Name Type Enumeration</i>	-	-	9.1.3.2.34.
<i>Attestation Type Enumeration</i>	-	-	9.1.3.2.36.
<i>Batch Error Continuation Option Enumeration</i>	9.1.3.2.29.	9.1.3.2.30.	9.1.3.2.30.
<i>Bit Masks</i>	9.1.3.3.	9.1.3.3.	9.1.3.3.
<i>Block Cipher Mode Enumeration</i>	9.1.3.2.13.	9.1.3.2.14.	9.1.3.2.14.
<i>Cancellation Result Enumeration</i>	9.1.3.2.24.	9.1.3.2.25.	9.1.3.2.25.
<i>Certificate Request Type Enumeration</i>	9.1.3.2.21.	9.1.3.2.22.	9.1.3.2.22.
<i>Certificate Type Enumeration</i>	9.1.3.2.6.	9.1.3.2.6.	9.1.3.2.6.
<i>Credential Type Enumeration</i>	9.1.3.2.1.	9.1.3.2.1.	9.1.3.2.1.
<i>Cryptographic Algorithm Enumeration</i>	9.1.3.2.12.	9.1.3.2.13.	9.1.3.2.13.
<i>Cryptographic Usage Mask</i>	9.1.3.3.1.	9.1.3.3.1.	9.1.3.3.1.
<i>Defined Values</i>	9.1.3.	9.1.3.	9.1.3.
<i>Derivation Method Enumeration</i>	9.1.3.2.20.	9.1.3.2.21.	9.1.3.2.21.
<i>Digital Signature Algorithm Enumeration</i>	-	9.1.3.2.7.	9.1.3.2.7.
<i>Encoding Option Enumeration</i>	-	9.1.3.2.32.	9.1.3.2.32.
<i>Enumerations</i>	9.1.3.2.	9.1.3.2.	9.1.3.2.
<i>Examples</i>	9.1.2.	9.1.2.	9.1.2.
<i>Hashing Algorithm Enumeration</i>	9.1.3.2.15.	9.1.3.2.16.	9.1.3.2.16.
<i>Item Length</i>	9.1.1.3.	9.1.1.3.	9.1.1.3.
<i>Item Tag</i>	9.1.1.1.	9.1.1.1.	9.1.1.1.
<i>Item Type</i>	9.1.1.2.	9.1.1.2.	9.1.1.2.
<i>Item Value</i>	9.1.1.4.	9.1.1.4.	9.1.1.4.
<i>Key Compression Type Enumeration</i>	9.1.3.2.2.	9.1.3.2.2.	9.1.3.2.2.
<i>Key Format Type Enumeration</i>	9.1.3.2.3.	9.1.3.2.3.	9.1.3.2.3.
<i>Key Role Type Enumeration</i>	9.1.3.2.16.	9.1.3.2.17.	9.1.3.2.17.
<i>Key Value Location Type Enumeration</i>	-	-	9.1.3.2.35.
<i>Link Type Enumeration</i>	9.1.3.2.19.	9.1.3.2.20.	9.1.3.2.20.
<i>Name Type Enumeration</i>	9.1.3.2.10.	9.1.3.2.11.	9.1.3.2.11.
<i>Object Group Member Enumeration</i>	-	9.1.3.2.33.	9.1.3.2.33.
<i>Object Type Enumeration</i>	9.1.3.2.11.	9.1.3.2.12.	9.1.3.2.12.
<i>Opaque Data Type Enumeration</i>	9.1.3.2.9.	9.1.3.2.10.	9.1.3.2.10.
<i>Operation Enumeration</i>	9.1.3.2.26.	9.1.3.2.27.	9.1.3.2.27.
<i>Padding Method Enumeration</i>	9.1.3.2.14.	9.1.3.2.15.	9.1.3.2.15.
<i>Put Function Enumeration</i>	9.1.3.2.25.	9.1.3.2.26.	9.1.3.2.26.
<i>Query Function Enumeration</i>	9.1.3.2.23.	9.1.3.2.24.	9.1.3.2.24.
<i>Recommended Curve Enumeration for ECDSA, ECDH, and ECMQV</i>	9.1.3.2.5.	9.1.3.2.5.	9.1.3.2.5.
<i>Result Reason Enumeration</i>	9.1.3.2.28.	9.1.3.2.29.	9.1.3.2.29.
<i>Result Status Enumeration</i>	9.1.3.2.27.	9.1.3.2.28.	9.1.3.2.28.
<i>Revocation Reason Code Enumeration</i>	9.1.3.2.18.	9.1.3.2.19.	9.1.3.2.19.
<i>Secret Data Type Enumeration</i>	9.1.3.2.8.	9.1.3.2.9.	9.1.3.2.9.
<i>Split Key Method Enumeration</i>	9.1.3.2.7.	9.1.3.2.8.	9.1.3.2.8.
<i>State Enumeration</i>	9.1.3.2.17.	9.1.3.2.18.	9.1.3.2.18.
<i>Storage Status Mask</i>	9.1.3.3.2.	9.1.3.3.2.	9.1.3.3.2.
<i>Tags</i>	9.1.3.1.	9.1.3.1.	9.1.3.1.
<i>TTLV Encoding</i>	9.1.	9.1.	9.1.
<i>TTLV Encoding Fields</i>	9.1.1.	9.1.1.	9.1.1.
<i>Usage Limits Unit Enumeration</i>	9.1.3.2.30.	9.1.3.2.31.	9.1.3.2.31.

<b>Reference Term</b>	<b>KMIP 1.0</b>	<b>KMIP 1.1</b>	<b>KMIP 1.2</b>
<i>Validity Indicator Enumeration</i>	9.1.3.2.22.	9.1.3.2.23.	9.1.3.2.23.
<i>Wrapping Method Enumeration</i>	9.1.3.2.4.	9.1.3.2.4.	9.1.3.2.4.
<i>XML Encoding</i>	9.2.	-	-
<b>10 Transport</b>			
<i>Transport</i>	10	10	10
<b>12 KMIP Server and Client Implementation Conformance</b>			
<i>Conformance clauses for a KMIP Server</i>	12.1.	-	-
<i>KMIP Client Implementation Conformance</i>	-	12.2.	12.2.
<i>KMIP Server Implementation Conformance</i>	-	12.1.	12.1.

331

332

## Appendix C. Revision History

333

Revision	Date	Editor	Changes Made
wd01	26-June-2013	Tim Hudson / Bob Lockhart	Updated conformance wording style. Updated test case style. Included test cases for 1.0, 1.1 and 1.2. Applied new OASIS template.
wd02	6-August-2013	Tim Hudson / Bob Lockhart	Updated to include Permitted Test Case Variations and updated Test Cases based on July 2013 Interop
wd03	10-August-2013	Tim Hudson	Updated Permitted Test Case Variations
wd03a	24-October- 2013	Tim Hudson	Editorial update to include VendorIdentification in the list of allowed variations as per TC motion.

334

335