KMIP Symmetric Key Lifecycle Profile Version 1.0

Committee Specification Draft ~~01~~02 / Public Review Draft ~~01~~02

~~09 January~~19 June 2014

Specification URIs

This version:

http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/csprd02/kmip-sym-key-profile-v1.0-csprd02.doc (Authoritative)
http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/csprd02/kmip-sym-key-profile-v1.0-csprd02.html
http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/csprd02/kmip-sym-key-profile-v1.0-csprd02.pdf

Previous version:

http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/csprd01/kmip-sym-key-profile-v1.0-csprd01.doc (Authoritative)
http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/csprd01/kmip-sym-key-profile-v1.0-csprd01.html
http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/csprd01/kmip-sym-key-profile-v1.0-csprd01.pdf

~~**Previous version:**~~

~~N/A~~

Latest version:

http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/kmip-sym-key-profile-v1.0.doc (Authoritative)
http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/kmip-sym-key-profile-v1.0.html
http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/kmip-sym-key-profile-v1.0.pdf

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Related work:

This specification is related to:

- *Key Management Interoperability Protocol Profiles Version 1.0*. Edited by Robert Griffin and Subhash Sankuratripati. 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. .~~Edited by Robert Haas and Indra Fitzgerald. 24 January 2013. OASIS Standard. http://docs.oasis-open.org/kmip/spec/v1.1/os/kmip-spec-v1.1-os.html
- *Key Management Interoperability Protocol Specification Version 1.2.* Edited by Kiran Thota and Kelley Burgin. 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 symmetric key lifecycle 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 https://www.oasis-open.org/committees/kmip/.

For information on whether any patents have been disclosed that may be essential to implementing this specification, and any offers of patent licensing terms, please refer to the Intellectual Property Rights section of the Technical Committee web page (https://www.oasis-open.org/committees/kmip/ipr.php~~).~~.

Citation format:

When referencing this specification the following citation format should be used:

[kmip-sym-key-v1.0]

KMIP Symmetric Key Lifecycle Profile Version 1.0. Edited by Tim Hudson and Robert Lockhart. ~~09 January~~19 June 2014. OASIS Committee Specification Draft ~~01~~02 / Public Review Draft ~~01~~02. http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/csprd02/kmip-sym-key-profile-v1.0-csprd02.html. Latest version: http://docs.oasis-open.org/kmip/kmip-sym-key-profile/v1.0/kmip-sym-key-profile-v1.0.html.

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Table of Contents

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.

[KMIP-ENCODE] *KMIP Additional Message Encodings Version 1.0.*
URL**[RFC2119]** ~~Bradner, S., “Key words for use in RFCs to Indicate Requirement Levels”, BCP 14, RFC 2119, March 1997. .~~

~~**[RFC2246]** T. Dierks and C. Allen, *The TLS Protocol, Version 1.0*, IETF RFC 2246, Jan 1999,~~
Candidate OASIS Standard 01. DD MMM YYYY.

[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~~Profiles 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~~Profiles 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~~Profiles 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.*
Committee Note Draft, 1 December 2011~~

~~**[KMIP-UG-1_1]** *Key Management Interoperability Protocol Usage Guide Version 1.1.* Committee Note 01, 27 July 2012~~

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

~~**[KMIP-TC-1_1]** *Key Management Interoperability Protocol Test Cases Version 1.1.* , Committee Note 01, 27 July 2012.~~

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

~~**[KMIP-UC]** *Key Management Interoperability Protocol Use Cases Version 1.0.* , Committee Specification, 15 June 2010.~~

2 Symmetric Key Lifecycle Profile

The Symmetric Key Lifecycle Profile is a KMIP server performing symmetric key lifecycle operations based on requests received from a KMIP client.

2.1 Authentication Suite

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

~~2.2 Baseline~~

2.2 Symmetric Key Lifecycle - Client

KMIP clients conformant to this profile~~:~~ under [KMIP-SPEC-1_0]:

1. SHALL conform to the [KMIP ~~Baseline Client~~ SPEC-1_0]

KMIP clients conformant to this profile ~~in~~under [KMIP-SPEC-1_1]:

2. SHALL conform to the *Baseline Client Clause* (section 5.12) of [KMIP-PROF~~] and~~ 1_1]

KMIP clients conformant to this profile under [KMIP-SPEC-1_2]:

3. SHALL conform to the *Baseline Client* (section 5.2) of [KMIP-PROF-1_2]

KMIP clients conformant to this profile:

~~1.~~4. MAY support any clause within [KMIP-SPEC] provided it does not conflict with any other clause within this section 1.1

5. MAY support extensions outside the scope of this standard (e.g., vendor extensions, conformance clauses) that do not contradict any KMIP requirements.

2.3 Symmetric Key Lifecycle - Server

KMIP servers conformant to this profile under [KMIP-SPEC-1_0]:

1. SHALL conform to the [KMIP-SPEC-1_0]

KMIP clients conformant to this profile under [KMIP-SPEC-1_1]:

2. SHALL conform to the *Baseline Server Clause* of [KMIP-PROF-1_1]

KMIP clients conformant to this profile under [KMIP-SPEC-1_2]:

~~1.~~3. SHALL conform to the *Baseline Server*of [KMIP-PROF-1_2]

KMIP servers conformant to this profile:

~~2.~~4. SHALL conform to the KMIP Baseline Server profile in [KMIP-PROF] and [KMIP-SPEC] and

~~3.~~5. SHALL support the following *Objects* [KMIP-SPEC]

a. *Symmetric Key* [KMIP-SPEC]

b. *Key Format Type* [KMIP-SPEC]

~~4.~~6. SHALL support the following *Attributes* [KMIP-SPEC]

a. *Cryptographic Algorithm* [KMIP-SPEC]

b. *Object Type* [KMIP-SPEC]

c. *Process Start Date* [KMIP-SPEC]

d. *Protect Stop Date* [KMIP-SPEC]

~~5.~~7. SHALL support the following *Client-to-Server* [KMIP-SPEC] operations:

a. *Create* [KMIP-SPEC]

~~6.~~8. SHALL support the following *Message Encoding* [KMIP-SPEC]:

a. *Cryptographic Algorithm* [KMIP-SPEC]with values:

i. 3DES

ii. AES

b. *Object Type* [KMIP-SPEC] with value:

iii. Symmetric Key

c. *Key Format Type* [KMIP-SPEC] with value:

iv. Raw

v. Transparent Symmetric Key

~~2. SHALL support all Mandatory Test Cases, returning results in accordance with the test cases.~~

~~7.~~9. MAY support any clause within [KMIP-SPEC] provided it does not conflict with any other clause within this section 2.3~~2.2~~

~~2.1.~~ ~~MAY support extensions outside the scope of this standard (e.g., vendor extensions, conformance clauses) that do not contradict any KMIP requirements.~~

10. ~~Symmetric Key Lifecycle~~ MAY support extensions outside the scope of this standard (e.g., vendor extensions, conformance clauses) that do not contradict any KMIP requirements.

3 Symmetric Key Lifecycle Profile - 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-ENCODE] intended to be both human-readable and usable by automated tools. The time sequence (starting from 0) for each request-response pair is noted and line numbers are provided for ease of cross-reference for a given test sequence.

Each test case has a unique label (the section name) which includes indication of mandatory (-M-) or optional (-O-) status and the protocol version major and minor numbers 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.

Note: the values for the returned items and the custom attributes are illustrative. ~~This section documents the test cases for a KMIP server performing symmetric key lifecycle operations based on requests received from a KMIP client.~~

~~Note: the values for the returned items and the custom attributes are illustrative.~~ Actual values from a real client or server system ~~will~~may vary as specified in section 4.7~~.~~.

3.1 Mandatory Test Cases KMIP ~~1~~v1.0

~~This section documents the test cases that a client or server conformant to the Symmetric Key Lifecycle Profile SHALL support under KMIP Specification 1.0.~~

3.1.1 SKLC-M-1-10

Create, GetAttributes, Destroy

```
        # 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="Create"/>
0011        <RequestPayload>
0012          <ObjectType type="Enumeration" value="SymmetricKey"/>
0013          <TemplateAttribute>
0014            <Attribute>
0015              <AttributeName type="TextString" value="Cryptographic
        Algorithm"/>
0016              <AttributeValue type="Enumeration" value="AES"/>
0017            </Attribute>
0018            <Attribute>
0019              <AttributeName type="TextString" value="Cryptographic
        Length"/>
0020              <AttributeValue type="Integer" value="256"/>
0021            </Attribute>
0022            <Attribute>
0023              <AttributeName type="TextString" value="Cryptographic
```

```
Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-M-1-10"/>
0030              <NameType type="Enumeration"
value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
```

```
0037  <ResponseMessage>
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="0"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
      # TIME 1
0055  <RequestMessage>
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="0"/>
0060      </ProtocolVersion>
0061      <BatchCount type="Integer" value="1"/>
0062    </RequestHeader>
0063    <BatchItem>
0064      <Operation type="Enumeration" value="GetAttributes"/>
0065      <RequestPayload>
0066        <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0067        <AttributeName type="TextString" value="State"/>
0068        <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0069        <AttributeName type="TextString" value="Unique Identifier"/>
0070        <AttributeName type="TextString" value="Object Type"/>
0071        <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0072        <AttributeName type="TextString" value="Cryptographic
Length"/>
0073        <AttributeName type="TextString" value="Digest"/>
```

```
0074        <AttributeName type="TextString" value="Initial Date"/>
0075        <AttributeName type="TextString" value="Last Change Date"/>
0076        <AttributeName type="TextString" value="Activation Date"/>
0077      </RequestPayload>
0078    </BatchItem>
0079  </RequestMessage>
0080  <ResponseMessage>
0081    <ResponseHeader>
0082      <ProtocolVersion>
0083        <ProtocolVersionMajor type="Integer" value="1"/>
0084        <ProtocolVersionMinor type="Integer" value="0"/>
0085      </ProtocolVersion>
0086      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0087      <BatchCount type="Integer" value="1"/>
0088    </ResponseHeader>
0089    <BatchItem>
0090      <Operation type="Enumeration" value="GetAttributes"/>
0091      <ResultStatus type="Enumeration" value="Success"/>
0092      <ResponsePayload>
0093        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0094        <Attribute>
0095          <AttributeName type="TextString" value="State"/>
0096          <AttributeValue type="Enumeration" value="PreActive"/>
0097        </Attribute>
0098        <Attribute>
0099          <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0100          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0101        </Attribute>
0102        <Attribute>
0103          <AttributeName type="TextString" value="Unique Identifier"/>
0104          <AttributeValue type="TextString"
      value="$UNIQUE IDENTIFIER 0"/>
0105        </Attribute>
0106        <Attribute>
0107          <AttributeName type="TextString" value="Object Type"/>
0108          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0109        </Attribute>
0110        <Attribute>
0111          <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0112          <AttributeValue type="Enumeration" value="AES"/>
0113        </Attribute>
0114        <Attribute>
0115          <AttributeName type="TextString" value="Cryptographic
      Length"/>
0116          <AttributeValue type="Integer" value="256"/>
0117        </Attribute>
0118        <Attribute>
0119          <AttributeName type="TextString" value="Digest"/>
0120          <AttributeValue>
0121            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0122            <DigestValue type="ByteString"
      value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
      f29"/>
0123          </AttributeValue>
0124        </Attribute>
```

```
0125        <Attribute>
0126          <AttributeName type="TextString" value="Initial Date"/>
0127          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0128        </Attribute>
0129        <Attribute>
0130          <AttributeName type="TextString" value="Last Change Date"/>
0131          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0132        </Attribute>
0133      </ResponsePayload>
0134    </BatchItem>
0135  </ResponseMessage>
```

```
      # TIME 2
0136  <RequestMessage>
0137    <RequestHeader>
0138      <ProtocolVersion>
0139        <ProtocolVersionMajor type="Integer" value="1"/>
0140        <ProtocolVersionMinor type="Integer" value="0"/>
0141      </ProtocolVersion>
0142      <BatchCount type="Integer" value="1"/>
0143    </RequestHeader>
0144    <BatchItem>
0145      <Operation type="Enumeration" value="Destroy"/>
0146      <RequestPayload>
0147        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0148      </RequestPayload>
0149    </BatchItem>
0150  </RequestMessage>
```

```
0151  <ResponseMessage>
0152    <ResponseHeader>
0153      <ProtocolVersion>
0154        <ProtocolVersionMajor type="Integer" value="1"/>
0155        <ProtocolVersionMinor type="Integer" value="0"/>
0156      </ProtocolVersion>
0157      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0158      <BatchCount type="Integer" value="1"/>
0159    </ResponseHeader>
0160    <BatchItem>
0161      <Operation type="Enumeration" value="Destroy"/>
0162      <ResultStatus type="Enumeration" value="Success"/>
0163      <ResponsePayload>
0164        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0165      </ResponsePayload>
0166    </BatchItem>
0167  </ResponseMessage>
```

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133 3.1.2 SKLC-M-2-10

134 Create, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```
      # 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="Create"/>
0011      <RequestPayload>
0012        <ObjectType type="Enumeration" value="SymmetricKey"/>
0013        <TemplateAttribute>
0014          <Attribute>
0015            <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0016            <AttributeValue type="Enumeration" value="AES"/>
0017          </Attribute>
0018          <Attribute>
0019            <AttributeName type="TextString" value="Cryptographic
      Length"/>
0020            <AttributeValue type="Integer" value="256"/>
0021          </Attribute>
0022          <Attribute>
0023            <AttributeName type="TextString" value="Cryptographic
      Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-M-2-10"/>
0030              <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
```

```
0037  <ResponseMessage>
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="0"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
      # TIME 1
0055  <RequestMessage>
```

```
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="0"/>
0060      </ProtocolVersion>
0061      <BatchCount type="Integer" value="1"/>
0062    </RequestHeader>
0063    <BatchItem>
0064      <Operation type="Enumeration" value="GetAttributes"/>
0065      <RequestPayload>
0066        <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0067        <AttributeName type="TextString" value="State"/>
0068        <AttributeName type="TextString" value="Cryptographic Usage
        Mask"/>
0069        <AttributeName type="TextString" value="Unique Identifier"/>
0070        <AttributeName type="TextString" value="Object Type"/>
0071        <AttributeName type="TextString" value="Cryptographic
        Algorithm"/>
0072        <AttributeName type="TextString" value="Cryptographic
        Length"/>
0073        <AttributeName type="TextString" value="Digest"/>
0074        <AttributeName type="TextString" value="Initial Date"/>
0075        <AttributeName type="TextString" value="Last Change Date"/>
0076      </RequestPayload>
0077    </BatchItem>
0078  </RequestMessage>
```

```
0079  <ResponseMessage>
0080    <ResponseHeader>
0081      <ProtocolVersion>
0082        <ProtocolVersionMajor type="Integer" value="1"/>
0083        <ProtocolVersionMinor type="Integer" value="0"/>
0084      </ProtocolVersion>
0085      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0086      <BatchCount type="Integer" value="1"/>
0087    </ResponseHeader>
0088    <BatchItem>
0089      <Operation type="Enumeration" value="GetAttributes"/>
0090      <ResultStatus type="Enumeration" value="Success"/>
0091      <ResponsePayload>
0092        <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0093        <Attribute>
0094          <AttributeName type="TextString" value="State"/>
0095          <AttributeValue type="Enumeration" value="PreActive"/>
0096        </Attribute>
0097        <Attribute>
0098          <AttributeName type="TextString" value="Cryptographic Usage
        Mask"/>
0099          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0100        </Attribute>
0101        <Attribute>
0102          <AttributeName type="TextString" value="Unique Identifier"/>
0103          <AttributeValue type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0104        </Attribute>
0105        <Attribute>
0106          <AttributeName type="TextString" value="Object Type"/>
```

```
0107          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0108        </Attribute>
0109        <Attribute>
0110          <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0111          <AttributeValue type="Enumeration" value="AES"/>
0112        </Attribute>
0113        <Attribute>
0114          <AttributeName type="TextString" value="Cryptographic
      Length"/>
0115          <AttributeValue type="Integer" value="256"/>
0116        </Attribute>
0117        <Attribute>
0118          <AttributeName type="TextString" value="Digest"/>
0119          <AttributeValue>
0120            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0121            <DigestValue type="ByteString"
      value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
      f29"/>
0122          </AttributeValue>
0123        </Attribute>
0124        <Attribute>
0125          <AttributeName type="TextString" value="Initial Date"/>
0126          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0127        </Attribute>
0128        <Attribute>
0129          <AttributeName type="TextString" value="Last Change Date"/>
0130          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0131        </Attribute>
0132      </ResponsePayload>
0133    </BatchItem>
0134  </ResponseMessage>
```

```
      # TIME 2
0135  <RequestMessage>
0136    <RequestHeader>
0137      <ProtocolVersion>
0138        <ProtocolVersionMajor type="Integer" value="1"/>
0139        <ProtocolVersionMinor type="Integer" value="0"/>
0140      </ProtocolVersion>
0141      <BatchCount type="Integer" value="1"/>
0142    </RequestHeader>
0143    <BatchItem>
0144      <Operation type="Enumeration" value="Activate"/>
0145      <RequestPayload>
0146        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0147      </RequestPayload>
0148    </BatchItem>
0149  </RequestMessage>
```

```
0150  <ResponseMessage>
0151    <ResponseHeader>
0152      <ProtocolVersion>
0153        <ProtocolVersionMajor type="Integer" value="1"/>
0154        <ProtocolVersionMinor type="Integer" value="0"/>
0155      </ProtocolVersion>
0156      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
```

```
0157        <BatchCount type="Integer" value="1"/>
0158      </ResponseHeader>
0159      <BatchItem>
0160        <Operation type="Enumeration" value="Activate"/>
0161        <ResultStatus type="Enumeration" value="Success"/>
0162        <ResponsePayload>
0163          <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0164        </ResponsePayload>
0165      </BatchItem>
0166    </ResponseMessage>
```

```
          # TIME 3
0167    <RequestMessage>
0168      <RequestHeader>
0169        <ProtocolVersion>
0170          <ProtocolVersionMajor type="Integer" value="1"/>
0171          <ProtocolVersionMinor type="Integer" value="0"/>
0172        </ProtocolVersion>
0173        <BatchCount type="Integer" value="1"/>
0174      </RequestHeader>
0175      <BatchItem>
0176        <Operation type="Enumeration" value="GetAttributes"/>
0177        <RequestPayload>
0178          <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0179          <AttributeName type="TextString" value="State"/>
0180          <AttributeName type="TextString" value="Activation Date"/>
0181          <AttributeName type="TextString" value="Deactivation Date"/>
0182        </RequestPayload>
0183      </BatchItem>
0184    </RequestMessage>
```

```
0185    <ResponseMessage>
0186      <ResponseHeader>
0187        <ProtocolVersion>
0188          <ProtocolVersionMajor type="Integer" value="1"/>
0189          <ProtocolVersionMinor type="Integer" value="0"/>
0190        </ProtocolVersion>
0191        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0192        <BatchCount type="Integer" value="1"/>
0193      </ResponseHeader>
0194      <BatchItem>
0195        <Operation type="Enumeration" value="GetAttributes"/>
0196        <ResultStatus type="Enumeration" value="Success"/>
0197        <ResponsePayload>
0198          <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0199          <Attribute>
0200            <AttributeName type="TextString" value="State"/>
0201            <AttributeValue type="Enumeration" value="Active"/>
0202          </Attribute>
0203          <Attribute>
0204            <AttributeName type="TextString" value="Activation Date"/>
0205            <AttributeValue type="DateTime" value="2013-01-
      10T23:36:01+00:00"/>
0206          </Attribute>
0207        </ResponsePayload>
0208      </BatchItem>
0209    </ResponseMessage>
```

```
      # TIME 4
0210  <RequestMessage>
0211    <RequestHeader>
0212      <ProtocolVersion>
0213        <ProtocolVersionMajor type="Integer" value="1"/>
0214        <ProtocolVersionMinor type="Integer" value="0"/>
0215      </ProtocolVersion>
0216      <BatchCount type="Integer" value="1"/>
0217    </RequestHeader>
0218    <BatchItem>
0219      <Operation type="Enumeration" value="Destroy"/>
0220      <RequestPayload>
0221        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0222      </RequestPayload>
0223    </BatchItem>
0224  </RequestMessage>
0225  <ResponseMessage>
0226    <ResponseHeader>
0227      <ProtocolVersion>
0228        <ProtocolVersionMajor type="Integer" value="1"/>
0229        <ProtocolVersionMinor type="Integer" value="0"/>
0230      </ProtocolVersion>
0231      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0232      <BatchCount type="Integer" value="1"/>
0233    </ResponseHeader>
0234    <BatchItem>
0235      <Operation type="Enumeration" value="Destroy"/>
0236      <ResultStatus type="Enumeration" value="OperationFailed"/>
0237      <ResultReason type="Enumeration" value="PermissionDenied"/>
0238      <ResultMessage type="TextString" value="DENIED"/>
0239    </BatchItem>
0240  </ResponseMessage>
      # TIME 5
0241  <RequestMessage>
0242    <RequestHeader>
0243      <ProtocolVersion>
0244        <ProtocolVersionMajor type="Integer" value="1"/>
0245        <ProtocolVersionMinor type="Integer" value="0"/>
0246      </ProtocolVersion>
0247      <BatchCount type="Integer" value="1"/>
0248    </RequestHeader>
0249    <BatchItem>
0250      <Operation type="Enumeration" value="Revoke"/>
0251      <RequestPayload>
0252        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0253        <RevocationReason>
0254          <RevocationReasonCode type="Enumeration"
      value="KeyCompromise"/>
0255        </RevocationReason>
0256        <CompromiseOccurrenceDate type="DateTime" value="1970-01-
      01T00:00:06+00:00"/>
0257      </RequestPayload>
0258    </BatchItem>
0259  </RequestMessage>
0260  <ResponseMessage>
0261    <ResponseHeader>
```

```
0262        <ProtocolVersion>
0263          <ProtocolVersionMajor type="Integer" value="1"/>
0264          <ProtocolVersionMinor type="Integer" value="0"/>
0265        </ProtocolVersion>
0266        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0267        <BatchCount type="Integer" value="1"/>
0268      </ResponseHeader>
0269      <BatchItem>
0270        <Operation type="Enumeration" value="Revoke"/>
0271        <ResultStatus type="Enumeration" value="Success"/>
0272        <ResponsePayload>
0273          <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0274        </ResponsePayload>
0275      </BatchItem>
0276    </ResponseMessage>
```

```
    # TIME 6
0277    <RequestMessage>
0278      <RequestHeader>
0279        <ProtocolVersion>
0280          <ProtocolVersionMajor type="Integer" value="1"/>
0281          <ProtocolVersionMinor type="Integer" value="0"/>
0282        </ProtocolVersion>
0283        <BatchCount type="Integer" value="1"/>
0284      </RequestHeader>
0285      <BatchItem>
0286        <Operation type="Enumeration" value="GetAttributes"/>
0287        <RequestPayload>
0288          <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0289          <AttributeName type="TextString" value="State"/>
0290        </RequestPayload>
0291      </BatchItem>
0292    </RequestMessage>
```

```
0293    <ResponseMessage>
0294      <ResponseHeader>
0295        <ProtocolVersion>
0296          <ProtocolVersionMajor type="Integer" value="1"/>
0297          <ProtocolVersionMinor type="Integer" value="0"/>
0298        </ProtocolVersion>
0299        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0300        <BatchCount type="Integer" value="1"/>
0301      </ResponseHeader>
0302      <BatchItem>
0303        <Operation type="Enumeration" value="GetAttributes"/>
0304        <ResultStatus type="Enumeration" value="Success"/>
0305        <ResponsePayload>
0306          <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0307          <Attribute>
0308            <AttributeName type="TextString" value="State"/>
0309            <AttributeValue type="Enumeration" value="Compromised"/>
0310          </Attribute>
0311        </ResponsePayload>
0312      </BatchItem>
0313    </ResponseMessage>
```

```
    # TIME 7
0314    <RequestMessage>
```

```
0315    <RequestHeader>
0316      <ProtocolVersion>
0317        <ProtocolVersionMajor type="Integer" value="1"/>
0318        <ProtocolVersionMinor type="Integer" value="0"/>
0319      </ProtocolVersion>
0320      <BatchCount type="Integer" value="1"/>
0321    </RequestHeader>
0322    <BatchItem>
0323      <Operation type="Enumeration" value="Destroy"/>
0324      <RequestPayload>
0325        <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0326      </RequestPayload>
0327    </BatchItem>
0328  </RequestMessage>
```

```
0329  <ResponseMessage>
0330    <ResponseHeader>
0331      <ProtocolVersion>
0332        <ProtocolVersionMajor type="Integer" value="1"/>
0333        <ProtocolVersionMinor type="Integer" value="0"/>
0334      </ProtocolVersion>
0335      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0336      <BatchCount type="Integer" value="1"/>
0337    </ResponseHeader>
0338    <BatchItem>
0339      <Operation type="Enumeration" value="Destroy"/>
0340      <ResultStatus type="Enumeration" value="Success"/>
0341      <ResponsePayload>
0342        <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0343      </ResponsePayload>
0344    </BatchItem>
0345  </ResponseMessage>
```

135

136 3.1.3 SKLC-M-3-10

137 Create, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```
      # 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="Create"/>
0011      <RequestPayload>
0012        <ObjectType type="Enumeration" value="SymmetricKey"/>
0013        <TemplateAttribute>
0014          <Attribute>
0015            <AttributeName type="TextString" value="Cryptographic
        Algorithm"/>
0016            <AttributeValue type="Enumeration" value="AES"/>
0017          </Attribute>
```

```
0018          <Attribute>
0019            <AttributeName type="TextString" value="Cryptographic
      Length"/>
0020            <AttributeValue type="Integer" value="256"/>
0021          </Attribute>
0022          <Attribute>
0023            <AttributeName type="TextString" value="Cryptographic
      Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-M-3-10"/>
0030              <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
```

```
0037  <ResponseMessage>
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="0"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
      # TIME 1
0055  <RequestMessage>
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="0"/>
0060      </ProtocolVersion>
0061      <BatchCount type="Integer" value="1"/>
0062    </RequestHeader>
0063    <BatchItem>
0064      <Operation type="Enumeration" value="GetAttributes"/>
0065      <RequestPayload>
0066        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0067        <AttributeName type="TextString" value="State"/>
0068        <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
```

```
0069        <AttributeName type="TextString" value="Unique Identifier"/>
0070        <AttributeName type="TextString" value="Object Type"/>
0071        <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0072        <AttributeName type="TextString" value="Cryptographic
      Length"/>
0073        <AttributeName type="TextString" value="Digest"/>
0074        <AttributeName type="TextString" value="Initial Date"/>
0075        <AttributeName type="TextString" value="Last Change Date"/>
0076      </RequestPayload>
0077    </BatchItem>
0078  </RequestMessage>
```

```
0079  <ResponseMessage>
0080    <ResponseHeader>
0081      <ProtocolVersion>
0082        <ProtocolVersionMajor type="Integer" value="1"/>
0083        <ProtocolVersionMinor type="Integer" value="0"/>
0084      </ProtocolVersion>
0085      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0086      <BatchCount type="Integer" value="1"/>
0087    </ResponseHeader>
0088    <BatchItem>
0089      <Operation type="Enumeration" value="GetAttributes"/>
0090      <ResultStatus type="Enumeration" value="Success"/>
0091      <ResponsePayload>
0092        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0093        <Attribute>
0094          <AttributeName type="TextString" value="State"/>
0095          <AttributeValue type="Enumeration" value="PreActive"/>
0096        </Attribute>
0097        <Attribute>
0098          <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0099          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0100        </Attribute>
0101        <Attribute>
0102          <AttributeName type="TextString" value="Unique Identifier"/>
0103          <AttributeValue type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0104        </Attribute>
0105        <Attribute>
0106          <AttributeName type="TextString" value="Object Type"/>
0107          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0108        </Attribute>
0109        <Attribute>
0110          <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0111          <AttributeValue type="Enumeration" value="AES"/>
0112        </Attribute>
0113        <Attribute>
0114          <AttributeName type="TextString" value="Cryptographic
      Length"/>
0115          <AttributeValue type="Integer" value="256"/>
0116        </Attribute>
0117        <Attribute>
0118          <AttributeName type="TextString" value="Digest"/>
0119          <AttributeValue>
```

```
0120            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0121            <DigestValue type="ByteString"
value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
f29"/>
0122          </AttributeValue>
0123        </Attribute>
0124        <Attribute>
0125          <AttributeName type="TextString" value="Initial Date"/>
0126          <AttributeValue type="DateTime" value="2013-01-
10T23:33:21+00:00"/>
0127        </Attribute>
0128        <Attribute>
0129          <AttributeName type="TextString" value="Last Change Date"/>
0130          <AttributeValue type="DateTime" value="2013-01-
10T23:33:21+00:00"/>
0131        </Attribute>
0132      </ResponsePayload>
0133    </BatchItem>
0134  </ResponseMessage>
```

```
      # TIME 2
0135  <RequestMessage>
0136    <RequestHeader>
0137      <ProtocolVersion>
0138        <ProtocolVersionMajor type="Integer" value="1"/>
0139        <ProtocolVersionMinor type="Integer" value="0"/>
0140      </ProtocolVersion>
0141      <BatchCount type="Integer" value="1"/>
0142    </RequestHeader>
0143    <BatchItem>
0144      <Operation type="Enumeration" value="Activate"/>
0145      <RequestPayload>
0146        <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0147      </RequestPayload>
0148    </BatchItem>
0149  </RequestMessage>
```

```
0150  <ResponseMessage>
0151    <ResponseHeader>
0152      <ProtocolVersion>
0153        <ProtocolVersionMajor type="Integer" value="1"/>
0154        <ProtocolVersionMinor type="Integer" value="0"/>
0155      </ProtocolVersion>
0156      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0157      <BatchCount type="Integer" value="1"/>
0158    </ResponseHeader>
0159    <BatchItem>
0160      <Operation type="Enumeration" value="Activate"/>
0161      <ResultStatus type="Enumeration" value="Success"/>
0162      <ResponsePayload>
0163        <UniqueIdentifier type="TextString"
value="$UNIQUE IDENTIFIER 0"/>
0164      </ResponsePayload>
0165    </BatchItem>
0166  </ResponseMessage>
```

```
      # TIME 3
0167  <RequestMessage>
0168    <RequestHeader>
0169      <ProtocolVersion>
```

```
0170        <ProtocolVersionMajor type="Integer" value="1"/>
0171        <ProtocolVersionMinor type="Integer" value="0"/>
0172      </ProtocolVersion>
0173      <BatchCount type="Integer" value="1"/>
0174    </RequestHeader>
0175    <BatchItem>
0176      <Operation type="Enumeration" value="GetAttributes"/>
0177      <RequestPayload>
0178        <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0179        <AttributeName type="TextString" value="State"/>
0180        <AttributeName type="TextString" value="Activation Date"/>
0181        <AttributeName type="TextString" value="Deactivation Date"/>
0182      </RequestPayload>
0183    </BatchItem>
0184  </RequestMessage>
0185  <ResponseMessage>
0186    <ResponseHeader>
0187      <ProtocolVersion>
0188        <ProtocolVersionMajor type="Integer" value="1"/>
0189        <ProtocolVersionMinor type="Integer" value="0"/>
0190      </ProtocolVersion>
0191      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0192      <BatchCount type="Integer" value="1"/>
0193    </ResponseHeader>
0194    <BatchItem>
0195      <Operation type="Enumeration" value="GetAttributes"/>
0196      <ResultStatus type="Enumeration" value="Success"/>
0197      <ResponsePayload>
0198        <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0199        <Attribute>
0200          <AttributeName type="TextString" value="State"/>
0201          <AttributeValue type="Enumeration" value="Active"/>
0202        </Attribute>
0203        <Attribute>
0204          <AttributeName type="TextString" value="Activation Date"/>
0205          <AttributeValue type="DateTime" value="2013-01-
10T23:36:01+00:00"/>
0206        </Attribute>
0207      </ResponsePayload>
0208    </BatchItem>
0209  </ResponseMessage>
      # TIME 4
0210  <RequestMessage>
0211    <RequestHeader>
0212      <ProtocolVersion>
0213        <ProtocolVersionMajor type="Integer" value="1"/>
0214        <ProtocolVersionMinor type="Integer" value="0"/>
0215      </ProtocolVersion>
0216      <BatchCount type="Integer" value="1"/>
0217    </RequestHeader>
0218    <BatchItem>
0219      <Operation type="Enumeration" value="ModifyAttribute"/>
0220      <UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0221      <RequestPayload>
0222        <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
```

```
0223        <Attribute>
0224          <AttributeName type="TextString" value="Activation Date"/>
0225          <AttributeValue type="DateTime" value="$NOW"/>
0226        </Attribute>
0227      </RequestPayload>
0228    </BatchItem>
0229  </RequestMessage>
0230  <ResponseMessage>
0231    <ResponseHeader>
0232      <ProtocolVersion>
0233        <ProtocolVersionMajor type="Integer" value="1"/>
0234        <ProtocolVersionMinor type="Integer" value="0"/>
0235      </ProtocolVersion>
0236      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0237      <BatchCount type="Integer" value="1"/>
0238    </ResponseHeader>
0239    <BatchItem>
0240      <Operation type="Enumeration" value="ModifyAttribute"/>
0241      <UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0242      <ResultStatus type="Enumeration" value="OperationFailed"/>
0243      <ResultReason type="Enumeration" value="PermissionDenied"/>
0244      <ResultMessage type="TextString" value="DENIED"/>
0245    </BatchItem>
0246  </ResponseMessage>
      # TIME 5
0247  <RequestMessage>
0248    <RequestHeader>
0249      <ProtocolVersion>
0250        <ProtocolVersionMajor type="Integer" value="1"/>
0251        <ProtocolVersionMinor type="Integer" value="0"/>
0252      </ProtocolVersion>
0253      <BatchCount type="Integer" value="1"/>
0254    </RequestHeader>
0255    <BatchItem>
0256      <Operation type="Enumeration" value="Revoke"/>
0257      <RequestPayload>
0258        <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0259        <RevocationReason>
0260          <RevocationReasonCode type="Enumeration"
    value="KeyCompromise"/>
0261        </RevocationReason>
0262        <CompromiseOccurrenceDate type="DateTime" value="1970-01-
    01T00:00:06+00:00"/>
0263      </RequestPayload>
0264    </BatchItem>
0265  </RequestMessage>
0266  <ResponseMessage>
0267    <ResponseHeader>
0268      <ProtocolVersion>
0269        <ProtocolVersionMajor type="Integer" value="1"/>
0270        <ProtocolVersionMinor type="Integer" value="0"/>
0271      </ProtocolVersion>
0272      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0273      <BatchCount type="Integer" value="1"/>
0274    </ResponseHeader>
0275    <BatchItem>
0276      <Operation type="Enumeration" value="Revoke"/>
```

```
0277      <ResultStatus type="Enumeration" value="Success"/>
0278      <ResponsePayload>
0279        <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0280      </ResponsePayload>
0281    </BatchItem>
0282  </ResponseMessage>
```

```
          # TIME 6
0283  <RequestMessage>
0284    <RequestHeader>
0285      <ProtocolVersion>
0286        <ProtocolVersionMajor type="Integer" value="1"/>
0287        <ProtocolVersionMinor type="Integer" value="0"/>
0288      </ProtocolVersion>
0289      <BatchCount type="Integer" value="1"/>
0290    </RequestHeader>
0291    <BatchItem>
0292      <Operation type="Enumeration" value="GetAttributes"/>
0293      <RequestPayload>
0294        <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0295        <AttributeName type="TextString" value="State"/>
0296      </RequestPayload>
0297    </BatchItem>
0298  </RequestMessage>
```

```
0299  <ResponseMessage>
0300    <ResponseHeader>
0301      <ProtocolVersion>
0302        <ProtocolVersionMajor type="Integer" value="1"/>
0303        <ProtocolVersionMinor type="Integer" value="0"/>
0304      </ProtocolVersion>
0305      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0306      <BatchCount type="Integer" value="1"/>
0307    </ResponseHeader>
0308    <BatchItem>
0309      <Operation type="Enumeration" value="GetAttributes"/>
0310      <ResultStatus type="Enumeration" value="Success"/>
0311      <ResponsePayload>
0312        <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0313        <Attribute>
0314          <AttributeName type="TextString" value="State"/>
0315          <AttributeValue type="Enumeration" value="Compromised"/>
0316        </Attribute>
0317      </ResponsePayload>
0318    </BatchItem>
0319  </ResponseMessage>
```

```
          # TIME 7
0320  <RequestMessage>
0321    <RequestHeader>
0322      <ProtocolVersion>
0323        <ProtocolVersionMajor type="Integer" value="1"/>
0324        <ProtocolVersionMinor type="Integer" value="0"/>
0325      </ProtocolVersion>
0326      <BatchCount type="Integer" value="1"/>
0327    </RequestHeader>
0328    <BatchItem>
0329      <Operation type="Enumeration" value="Destroy"/>
```

```
0330      <RequestPayload>
0331        <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0332      </RequestPayload>
0333    </BatchItem>
0334  </RequestMessage>
```

```
0335  <ResponseMessage>
0336    <ResponseHeader>
0337      <ProtocolVersion>
0338        <ProtocolVersionMajor type="Integer" value="1"/>
0339        <ProtocolVersionMinor type="Integer" value="0"/>
0340      </ProtocolVersion>
0341      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0342      <BatchCount type="Integer" value="1"/>
0343    </ResponseHeader>
0344    <BatchItem>
0345      <Operation type="Enumeration" value="Destroy"/>
0346      <ResultStatus type="Enumeration" value="Success"/>
0347      <ResponsePayload>
0348        <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0349      </ResponsePayload>
0350    </BatchItem>
0351  </ResponseMessage>
```

138

139 3.2 Mandatory Test Cases KMIP ~~1~~v1.1

140 ~~This section documents the test cases that a client or server conformant to the Symmetric Key Lifecycle~~
141 ~~Profile SHALL support under KMIP Specification 1.1.~~

142 3.2.1 SKLC-M-1-11

143 Create, GetAttributes, Destroy

```
      # 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="Create"/>
0011      <RequestPayload>
0012        <ObjectType type="Enumeration" value="SymmetricKey"/>
0013        <TemplateAttribute>
0014          <Attribute>
0015            <AttributeName type="TextString" value="Cryptographic
          Algorithm"/>
0016            <AttributeValue type="Enumeration" value="AES"/>
0017          </Attribute>
0018          <Attribute>
0019            <AttributeName type="TextString" value="Cryptographic
          Length"/>
0020            <AttributeValue type="Integer" value="256"/>
```

```
0021          </Attribute>
0022          <Attribute>
0023            <AttributeName type="TextString" value="Cryptographic
      Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-M-1-11"/>
0030              <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
```

```
0037  <ResponseMessage>
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="1"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE IDENTIFIER 0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
      # TIME 1
0055  <RequestMessage>
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="1"/>
0060      </ProtocolVersion>
0061      <BatchCount type="Integer" value="1"/>
0062    </RequestHeader>
0063    <BatchItem>
0064      <Operation type="Enumeration" value="GetAttributes"/>
0065      <RequestPayload>
0066        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0067        <AttributeName type="TextString" value="State"/>
0068        <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0069        <AttributeName type="TextString" value="Unique Identifier"/>
0070        <AttributeName type="TextString" value="Object Type"/>
0071        <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
```

```
0072        <AttributeName type="TextString" value="Cryptographic
    Length"/>
0073        <AttributeName type="TextString" value="Digest"/>
0074        <AttributeName type="TextString" value="Initial Date"/>
0075        <AttributeName type="TextString" value="Last Change Date"/>
0076        <AttributeName type="TextString" value="Activation Date"/>
0077      </RequestPayload>
0078    </BatchItem>
0079  </RequestMessage>
0080  <ResponseMessage>
0081    <ResponseHeader>
0082      <ProtocolVersion>
0083        <ProtocolVersionMajor type="Integer" value="1"/>
0084        <ProtocolVersionMinor type="Integer" value="1"/>
0085      </ProtocolVersion>
0086      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0087      <BatchCount type="Integer" value="1"/>
0088    </ResponseHeader>
0089    <BatchItem>
0090      <Operation type="Enumeration" value="GetAttributes"/>
0091      <ResultStatus type="Enumeration" value="Success"/>
0092      <ResponsePayload>
0093        <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0094        <Attribute>
0095          <AttributeName type="TextString" value="State"/>
0096          <AttributeValue type="Enumeration" value="PreActive"/>
0097        </Attribute>
0098        <Attribute>
0099          <AttributeName type="TextString" value="Cryptographic Usage
    Mask"/>
0100          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0101        </Attribute>
0102        <Attribute>
0103          <AttributeName type="TextString" value="Unique Identifier"/>
0104          <AttributeValue type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0105        </Attribute>
0106        <Attribute>
0107          <AttributeName type="TextString" value="Object Type"/>
0108          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0109        </Attribute>
0110        <Attribute>
0111          <AttributeName type="TextString" value="Cryptographic
    Algorithm"/>
0112          <AttributeValue type="Enumeration" value="AES"/>
0113        </Attribute>
0114        <Attribute>
0115          <AttributeName type="TextString" value="Cryptographic
    Length"/>
0116          <AttributeValue type="Integer" value="256"/>
0117        </Attribute>
0118        <Attribute>
0119          <AttributeName type="TextString" value="Digest"/>
0120          <AttributeValue>
0121            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0122            <DigestValue type="ByteString"
    value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
```

```
f29"/>
0123            <KeyFormatType type="Enumeration" value="Raw"/>
0124          </AttributeValue>
0125        </Attribute>
0126        <Attribute>
0127          <AttributeName type="TextString" value="Initial Date"/>
0128          <AttributeValue type="DateTime" value="2013-01-
10T23:33:21+00:00"/>
0129        </Attribute>
0130        <Attribute>
0131          <AttributeName type="TextString" value="Last Change Date"/>
0132          <AttributeValue type="DateTime" value="2013-01-
10T23:33:21+00:00"/>
0133        </Attribute>
0134      </ResponsePayload>
0135    </BatchItem>
0136  </ResponseMessage>
```

```
# TIME 2
0137  <RequestMessage>
0138    <RequestHeader>
0139      <ProtocolVersion>
0140        <ProtocolVersionMajor type="Integer" value="1"/>
0141        <ProtocolVersionMinor type="Integer" value="1"/>
0142      </ProtocolVersion>
0143      <BatchCount type="Integer" value="1"/>
0144    </RequestHeader>
0145    <BatchItem>
0146      <Operation type="Enumeration" value="Destroy"/>
0147      <RequestPayload>
0148        <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0149      </RequestPayload>
0150    </BatchItem>
0151  </RequestMessage>
```

```
0152  <ResponseMessage>
0153    <ResponseHeader>
0154      <ProtocolVersion>
0155        <ProtocolVersionMajor type="Integer" value="1"/>
0156        <ProtocolVersionMinor type="Integer" value="1"/>
0157      </ProtocolVersion>
0158      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0159      <BatchCount type="Integer" value="1"/>
0160    </ResponseHeader>
0161    <BatchItem>
0162      <Operation type="Enumeration" value="Destroy"/>
0163      <ResultStatus type="Enumeration" value="Success"/>
0164      <ResponsePayload>
0165        <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0166      </ResponsePayload>
0167    </BatchItem>
0168  </ResponseMessage>
```

144

145 3.2.2 SKLC-M-2-11

146 Create, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```
      # 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="Create"/>
0011      <RequestPayload>
0012        <ObjectType type="Enumeration" value="SymmetricKey"/>
0013        <TemplateAttribute>
0014          <Attribute>
0015            <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0016            <AttributeValue type="Enumeration" value="AES"/>
0017          </Attribute>
0018          <Attribute>
0019            <AttributeName type="TextString" value="Cryptographic
      Length"/>
0020            <AttributeValue type="Integer" value="256"/>
0021          </Attribute>
0022          <Attribute>
0023            <AttributeName type="TextString" value="Cryptographic
      Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-M-2-11"/>
0030              <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
```

```
0037  <ResponseMessage>
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="1"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
```

```
0053      </BatchItem>
0054    </ResponseMessage>
```

```
        # TIME 1
0055    <RequestMessage>
0056      <RequestHeader>
0057        <ProtocolVersion>
0058          <ProtocolVersionMajor type="Integer" value="1"/>
0059          <ProtocolVersionMinor type="Integer" value="1"/>
0060        </ProtocolVersion>
0061        <BatchCount type="Integer" value="1"/>
0062      </RequestHeader>
0063      <BatchItem>
0064        <Operation type="Enumeration" value="GetAttributes"/>
0065        <RequestPayload>
0066          <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0067          <AttributeName type="TextString" value="State"/>
0068          <AttributeName type="TextString" value="Cryptographic Usage
          Mask"/>
0069          <AttributeName type="TextString" value="Unique Identifier"/>
0070          <AttributeName type="TextString" value="Object Type"/>
0071          <AttributeName type="TextString" value="Cryptographic
          Algorithm"/>
0072          <AttributeName type="TextString" value="Cryptographic
          Length"/>
0073          <AttributeName type="TextString" value="Digest"/>
0074          <AttributeName type="TextString" value="Initial Date"/>
0075          <AttributeName type="TextString" value="Last Change Date"/>
0076        </RequestPayload>
0077      </BatchItem>
0078    </RequestMessage>
```

```
0079    <ResponseMessage>
0080      <ResponseHeader>
0081        <ProtocolVersion>
0082          <ProtocolVersionMajor type="Integer" value="1"/>
0083          <ProtocolVersionMinor type="Integer" value="1"/>
0084        </ProtocolVersion>
0085        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0086        <BatchCount type="Integer" value="1"/>
0087      </ResponseHeader>
0088      <BatchItem>
0089        <Operation type="Enumeration" value="GetAttributes"/>
0090        <ResultStatus type="Enumeration" value="Success"/>
0091        <ResponsePayload>
0092          <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0093          <Attribute>
0094            <AttributeName type="TextString" value="State"/>
0095            <AttributeValue type="Enumeration" value="PreActive"/>
0096          </Attribute>
0097          <Attribute>
0098            <AttributeName type="TextString" value="Cryptographic Usage
          Mask"/>
0099            <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0100          </Attribute>
0101          <Attribute>
0102            <AttributeName type="TextString" value="Unique Identifier"/>
0103            <AttributeValue type="TextString"
```

```
      value="$UNIQUE_IDENTIFIER_0"/>
0104        </Attribute>
0105        <Attribute>
0106          <AttributeName type="TextString" value="Object Type"/>
0107          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0108        </Attribute>
0109        <Attribute>
0110          <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0111          <AttributeValue type="Enumeration" value="AES"/>
0112        </Attribute>
0113        <Attribute>
0114          <AttributeName type="TextString" value="Cryptographic
      Length"/>
0115          <AttributeValue type="Integer" value="256"/>
0116        </Attribute>
0117        <Attribute>
0118          <AttributeName type="TextString" value="Digest"/>
0119          <AttributeValue>
0120            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0121            <DigestValue type="ByteString"
      value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
      f29"/>
0122            <KeyFormatType type="Enumeration" value="Raw"/>
0123          </AttributeValue>
0124        </Attribute>
0125        <Attribute>
0126          <AttributeName type="TextString" value="Initial Date"/>
0127          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0128        </Attribute>
0129        <Attribute>
0130          <AttributeName type="TextString" value="Last Change Date"/>
0131          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0132        </Attribute>
0133      </ResponsePayload>
0134    </BatchItem>
0135  </ResponseMessage>
```

```
      # TIME 2
0136  <RequestMessage>
0137    <RequestHeader>
0138      <ProtocolVersion>
0139        <ProtocolVersionMajor type="Integer" value="1"/>
0140        <ProtocolVersionMinor type="Integer" value="1"/>
0141      </ProtocolVersion>
0142      <BatchCount type="Integer" value="1"/>
0143    </RequestHeader>
0144    <BatchItem>
0145      <Operation type="Enumeration" value="Activate"/>
0146      <RequestPayload>
0147        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0148      </RequestPayload>
0149    </BatchItem>
0150  </RequestMessage>
```

```
0151  <ResponseMessage>
0152    <ResponseHeader>
```

```
0153      <ProtocolVersion>
0154        <ProtocolVersionMajor type="Integer" value="1"/>
0155        <ProtocolVersionMinor type="Integer" value="1"/>
0156      </ProtocolVersion>
0157      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0158      <BatchCount type="Integer" value="1"/>
0159    </ResponseHeader>
0160    <BatchItem>
0161      <Operation type="Enumeration" value="Activate"/>
0162      <ResultStatus type="Enumeration" value="Success"/>
0163      <ResponsePayload>
0164        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0165      </ResponsePayload>
0166    </BatchItem>
0167  </ResponseMessage>
```

```
      # TIME 3
0168  <RequestMessage>
0169    <RequestHeader>
0170      <ProtocolVersion>
0171        <ProtocolVersionMajor type="Integer" value="1"/>
0172        <ProtocolVersionMinor type="Integer" value="1"/>
0173      </ProtocolVersion>
0174      <BatchCount type="Integer" value="1"/>
0175    </RequestHeader>
0176    <BatchItem>
0177      <Operation type="Enumeration" value="GetAttributes"/>
0178      <RequestPayload>
0179        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0180        <AttributeName type="TextString" value="State"/>
0181        <AttributeName type="TextString" value="Activation Date"/>
0182        <AttributeName type="TextString" value="Deactivation Date"/>
0183      </RequestPayload>
0184    </BatchItem>
0185  </RequestMessage>
```

```
0186  <ResponseMessage>
0187    <ResponseHeader>
0188      <ProtocolVersion>
0189        <ProtocolVersionMajor type="Integer" value="1"/>
0190        <ProtocolVersionMinor type="Integer" value="1"/>
0191      </ProtocolVersion>
0192      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0193      <BatchCount type="Integer" value="1"/>
0194    </ResponseHeader>
0195    <BatchItem>
0196      <Operation type="Enumeration" value="GetAttributes"/>
0197      <ResultStatus type="Enumeration" value="Success"/>
0198      <ResponsePayload>
0199        <UniqueIdentifier type="TextString"
      value="$UNIQUE IDENTIFIER 0"/>
0200        <Attribute>
0201          <AttributeName type="TextString" value="State"/>
0202          <AttributeValue type="Enumeration" value="Active"/>
0203        </Attribute>
0204        <Attribute>
0205          <AttributeName type="TextString" value="Activation Date"/>
0206          <AttributeValue type="DateTime" value="2013-01-
```

```
10T23:36:01+00:00"/>
      </Attribute>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>
```

```
# TIME 4
<RequestMessage>
  <RequestHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="1"/>
    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <RequestPayload>
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
```

```
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="1"/>
    </ProtocolVersion>
    <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <ResultStatus type="Enumeration" value="OperationFailed"/>
    <ResultReason type="Enumeration" value="PermissionDenied"/>
    <ResultMessage type="TextString" value="DENIED"/>
  </BatchItem>
</ResponseMessage>
```

```
# TIME 5
<RequestMessage>
  <RequestHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="1"/>
    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <RequestPayload>
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
      <RevocationReason>
        <RevocationReasonCode type="Enumeration"
value="KeyCompromise"/>
      </RevocationReason>
      <CompromiseOccurrenceDate type="DateTime" value="1970-01-
01T00:00:06+00:00"/>
```

```
0258        </RequestPayload>
0259      </BatchItem>
0260    </RequestMessage>
0261    <ResponseMessage>
0262      <ResponseHeader>
0263        <ProtocolVersion>
0264          <ProtocolVersionMajor type="Integer" value="1"/>
0265          <ProtocolVersionMinor type="Integer" value="1"/>
0266        </ProtocolVersion>
0267        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0268        <BatchCount type="Integer" value="1"/>
0269      </ResponseHeader>
0270      <BatchItem>
0271        <Operation type="Enumeration" value="Revoke"/>
0272        <ResultStatus type="Enumeration" value="Success"/>
0273        <ResponsePayload>
0274          <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0275        </ResponsePayload>
0276      </BatchItem>
0277    </ResponseMessage>
          # TIME 6
0278    <RequestMessage>
0279      <RequestHeader>
0280        <ProtocolVersion>
0281          <ProtocolVersionMajor type="Integer" value="1"/>
0282          <ProtocolVersionMinor type="Integer" value="1"/>
0283        </ProtocolVersion>
0284        <BatchCount type="Integer" value="1"/>
0285      </RequestHeader>
0286      <BatchItem>
0287        <Operation type="Enumeration" value="GetAttributes"/>
0288        <RequestPayload>
0289          <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0290          <AttributeName type="TextString" value="State"/>
0291        </RequestPayload>
0292      </BatchItem>
0293    </RequestMessage>
0294    <ResponseMessage>
0295      <ResponseHeader>
0296        <ProtocolVersion>
0297          <ProtocolVersionMajor type="Integer" value="1"/>
0298          <ProtocolVersionMinor type="Integer" value="1"/>
0299        </ProtocolVersion>
0300        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0301        <BatchCount type="Integer" value="1"/>
0302      </ResponseHeader>
0303      <BatchItem>
0304        <Operation type="Enumeration" value="GetAttributes"/>
0305        <ResultStatus type="Enumeration" value="Success"/>
0306        <ResponsePayload>
0307          <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0308          <Attribute>
0309            <AttributeName type="TextString" value="State"/>
0310            <AttributeValue type="Enumeration" value="Compromised"/>
0311          </Attribute>
```

```
0312        </ResponsePayload>
0313      </BatchItem>
0314    </ResponseMessage>
```

```
        # TIME 7
0315    <RequestMessage>
0316      <RequestHeader>
0317        <ProtocolVersion>
0318          <ProtocolVersionMajor type="Integer" value="1"/>
0319          <ProtocolVersionMinor type="Integer" value="1"/>
0320        </ProtocolVersion>
0321        <BatchCount type="Integer" value="1"/>
0322      </RequestHeader>
0323      <BatchItem>
0324        <Operation type="Enumeration" value="Destroy"/>
0325        <RequestPayload>
0326          <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0327        </RequestPayload>
0328      </BatchItem>
0329    </RequestMessage>
```

```
0330    <ResponseMessage>
0331      <ResponseHeader>
0332        <ProtocolVersion>
0333          <ProtocolVersionMajor type="Integer" value="1"/>
0334          <ProtocolVersionMinor type="Integer" value="1"/>
0335        </ProtocolVersion>
0336        <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0337        <BatchCount type="Integer" value="1"/>
0338      </ResponseHeader>
0339      <BatchItem>
0340        <Operation type="Enumeration" value="Destroy"/>
0341        <ResultStatus type="Enumeration" value="Success"/>
0342        <ResponsePayload>
0343          <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0344        </ResponsePayload>
0345      </BatchItem>
0346    </ResponseMessage>
```

147

148 ### 3.2.3 SKLC-M-3-11

149 Create, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```
        # 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="Create"/>
0011        <RequestPayload>
0012          <ObjectType type="Enumeration" value="SymmetricKey"/>
0013          <TemplateAttribute>
```

```
0014          <Attribute>
0015            <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0016            <AttributeValue type="Enumeration" value="AES"/>
0017          </Attribute>
0018          <Attribute>
0019            <AttributeName type="TextString" value="Cryptographic
      Length"/>
0020            <AttributeValue type="Integer" value="256"/>
0021          </Attribute>
0022          <Attribute>
0023            <AttributeName type="TextString" value="Cryptographic
      Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-M-3-11"/>
0030              <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
```

```
0037  <ResponseMessage>
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="1"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
      # TIME 1
0055  <RequestMessage>
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="1"/>
0060      </ProtocolVersion>
0061      <BatchCount type="Integer" value="1"/>
0062    </RequestHeader>
0063    <BatchItem>
0064      <Operation type="Enumeration" value="GetAttributes"/>
0065      <RequestPayload>
```

```
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
      <AttributeName type="TextString" value="State"/>
      <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
      <AttributeName type="TextString" value="Unique Identifier"/>
      <AttributeName type="TextString" value="Object Type"/>
      <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
      <AttributeName type="TextString" value="Cryptographic
Length"/>
      <AttributeName type="TextString" value="Digest"/>
      <AttributeName type="TextString" value="Initial Date"/>
      <AttributeName type="TextString" value="Last Change Date"/>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
```

```
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="1"/>
    </ProtocolVersion>
    <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="GetAttributes"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
      <Attribute>
        <AttributeName type="TextString" value="State"/>
        <AttributeValue type="Enumeration" value="PreActive"/>
      </Attribute>
      <Attribute>
        <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
        <AttributeValue type="Integer" value="Decrypt Encrypt"/>
      </Attribute>
      <Attribute>
        <AttributeName type="TextString" value="Unique Identifier"/>
        <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
      </Attribute>
      <Attribute>
        <AttributeName type="TextString" value="Object Type"/>
        <AttributeValue type="Enumeration" value="SymmetricKey"/>
      </Attribute>
      <Attribute>
        <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
        <AttributeValue type="Enumeration" value="AES"/>
      </Attribute>
      <Attribute>
        <AttributeName type="TextString" value="Cryptographic
Length"/>
```

```
0115          <AttributeValue type="Integer" value="256"/>
0116        </Attribute>
0117        <Attribute>
0118          <AttributeName type="TextString" value="Digest"/>
0119          <AttributeValue>
0120            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0121            <DigestValue type="ByteString"
      value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
      f29"/>
0122            <KeyFormatType type="Enumeration" value="Raw"/>
0123          </AttributeValue>
0124        </Attribute>
0125        <Attribute>
0126          <AttributeName type="TextString" value="Initial Date"/>
0127          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0128        </Attribute>
0129        <Attribute>
0130          <AttributeName type="TextString" value="Last Change Date"/>
0131          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0132        </Attribute>
0133      </ResponsePayload>
0134    </BatchItem>
0135  </ResponseMessage>
```

```
      # TIME 2
0136  <RequestMessage>
0137    <RequestHeader>
0138      <ProtocolVersion>
0139        <ProtocolVersionMajor type="Integer" value="1"/>
0140        <ProtocolVersionMinor type="Integer" value="1"/>
0141      </ProtocolVersion>
0142      <BatchCount type="Integer" value="1"/>
0143    </RequestHeader>
0144    <BatchItem>
0145      <Operation type="Enumeration" value="Activate"/>
0146      <RequestPayload>
0147        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0148      </RequestPayload>
0149    </BatchItem>
0150  </RequestMessage>
```

```
0151  <ResponseMessage>
0152    <ResponseHeader>
0153      <ProtocolVersion>
0154        <ProtocolVersionMajor type="Integer" value="1"/>
0155        <ProtocolVersionMinor type="Integer" value="1"/>
0156      </ProtocolVersion>
0157      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0158      <BatchCount type="Integer" value="1"/>
0159    </ResponseHeader>
0160    <BatchItem>
0161      <Operation type="Enumeration" value="Activate"/>
0162      <ResultStatus type="Enumeration" value="Success"/>
0163      <ResponsePayload>
0164        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0165      </ResponsePayload>
```

```
0166      </BatchItem>
0167    </ResponseMessage>
```

```
        # TIME 3
0168    <RequestMessage>
0169      <RequestHeader>
0170        <ProtocolVersion>
0171          <ProtocolVersionMajor type="Integer" value="1"/>
0172          <ProtocolVersionMinor type="Integer" value="1"/>
0173        </ProtocolVersion>
0174        <BatchCount type="Integer" value="1"/>
0175      </RequestHeader>
0176      <BatchItem>
0177        <Operation type="Enumeration" value="GetAttributes"/>
0178        <RequestPayload>
0179          <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0180          <AttributeName type="TextString" value="State"/>
0181          <AttributeName type="TextString" value="Activation Date"/>
0182          <AttributeName type="TextString" value="Deactivation Date"/>
0183        </RequestPayload>
0184      </BatchItem>
0185    </RequestMessage>
```

```
0186    <ResponseMessage>
0187      <ResponseHeader>
0188        <ProtocolVersion>
0189          <ProtocolVersionMajor type="Integer" value="1"/>
0190          <ProtocolVersionMinor type="Integer" value="1"/>
0191        </ProtocolVersion>
0192        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0193        <BatchCount type="Integer" value="1"/>
0194      </ResponseHeader>
0195      <BatchItem>
0196        <Operation type="Enumeration" value="GetAttributes"/>
0197        <ResultStatus type="Enumeration" value="Success"/>
0198        <ResponsePayload>
0199          <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0200          <Attribute>
0201            <AttributeName type="TextString" value="State"/>
0202            <AttributeValue type="Enumeration" value="Active"/>
0203          </Attribute>
0204          <Attribute>
0205            <AttributeName type="TextString" value="Activation Date"/>
0206            <AttributeValue type="DateTime" value="2013-01-
        10T23:36:01+00:00"/>
0207          </Attribute>
0208        </ResponsePayload>
0209      </BatchItem>
0210    </ResponseMessage>
```

```
        # TIME 4
0211    <RequestMessage>
0212      <RequestHeader>
0213        <ProtocolVersion>
0214          <ProtocolVersionMajor type="Integer" value="1"/>
0215          <ProtocolVersionMinor type="Integer" value="1"/>
0216        </ProtocolVersion>
0217        <BatchCount type="Integer" value="1"/>
0218      </RequestHeader>
```

```
0219    <BatchItem>
0220      <Operation type="Enumeration" value="ModifyAttribute"/>
0221      <UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0222      <RequestPayload>
0223        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0224        <Attribute>
0225          <AttributeName type="TextString" value="Activation Date"/>
0226          <AttributeValue type="DateTime" value="$NOW"/>
0227        </Attribute>
0228      </RequestPayload>
0229    </BatchItem>
0230  </RequestMessage>
```

```
0231  <ResponseMessage>
0232    <ResponseHeader>
0233      <ProtocolVersion>
0234        <ProtocolVersionMajor type="Integer" value="1"/>
0235        <ProtocolVersionMinor type="Integer" value="1"/>
0236      </ProtocolVersion>
0237      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0238      <BatchCount type="Integer" value="1"/>
0239    </ResponseHeader>
0240    <BatchItem>
0241      <Operation type="Enumeration" value="ModifyAttribute"/>
0242      <UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0243      <ResultStatus type="Enumeration" value="OperationFailed"/>
0244      <ResultReason type="Enumeration" value="PermissionDenied"/>
0245      <ResultMessage type="TextString" value="DENIED"/>
0246    </BatchItem>
0247  </ResponseMessage>
```

```
      # TIME 5
0248  <RequestMessage>
0249    <RequestHeader>
0250      <ProtocolVersion>
0251        <ProtocolVersionMajor type="Integer" value="1"/>
0252        <ProtocolVersionMinor type="Integer" value="1"/>
0253      </ProtocolVersion>
0254      <BatchCount type="Integer" value="1"/>
0255    </RequestHeader>
0256    <BatchItem>
0257      <Operation type="Enumeration" value="Revoke"/>
0258      <RequestPayload>
0259        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0260        <RevocationReason>
0261          <RevocationReasonCode type="Enumeration"
      value="KeyCompromise"/>
0262        </RevocationReason>
0263        <CompromiseOccurrenceDate type="DateTime" value="1970-01-
      01T00:00:06+00:00"/>
0264      </RequestPayload>
0265    </BatchItem>
0266  </RequestMessage>
```

```
0267  <ResponseMessage>
0268    <ResponseHeader>
0269      <ProtocolVersion>
0270        <ProtocolVersionMajor type="Integer" value="1"/>
0271        <ProtocolVersionMinor type="Integer" value="1"/>
```

```
0272      </ProtocolVersion>
0273      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0274      <BatchCount type="Integer" value="1"/>
0275    </ResponseHeader>
0276    <BatchItem>
0277      <Operation type="Enumeration" value="Revoke"/>
0278      <ResultStatus type="Enumeration" value="Success"/>
0279      <ResponsePayload>
0280        <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0281      </ResponsePayload>
0282    </BatchItem>
0283  </ResponseMessage>
```

```
      # TIME 6
0284  <RequestMessage>
0285    <RequestHeader>
0286      <ProtocolVersion>
0287        <ProtocolVersionMajor type="Integer" value="1"/>
0288        <ProtocolVersionMinor type="Integer" value="1"/>
0289      </ProtocolVersion>
0290      <BatchCount type="Integer" value="1"/>
0291    </RequestHeader>
0292    <BatchItem>
0293      <Operation type="Enumeration" value="GetAttributes"/>
0294      <RequestPayload>
0295        <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0296        <AttributeName type="TextString" value="State"/>
0297      </RequestPayload>
0298    </BatchItem>
0299  </RequestMessage>
```

```
0300  <ResponseMessage>
0301    <ResponseHeader>
0302      <ProtocolVersion>
0303        <ProtocolVersionMajor type="Integer" value="1"/>
0304        <ProtocolVersionMinor type="Integer" value="1"/>
0305      </ProtocolVersion>
0306      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0307      <BatchCount type="Integer" value="1"/>
0308    </ResponseHeader>
0309    <BatchItem>
0310      <Operation type="Enumeration" value="GetAttributes"/>
0311      <ResultStatus type="Enumeration" value="Success"/>
0312      <ResponsePayload>
0313        <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0314        <Attribute>
0315          <AttributeName type="TextString" value="State"/>
0316          <AttributeValue type="Enumeration" value="Compromised"/>
0317        </Attribute>
0318      </ResponsePayload>
0319    </BatchItem>
0320  </ResponseMessage>
```

```
      # TIME 7
0321  <RequestMessage>
0322    <RequestHeader>
0323      <ProtocolVersion>
0324        <ProtocolVersionMajor type="Integer" value="1"/>
```

```
0325        <ProtocolVersionMinor type="Integer" value="1"/>
0326      </ProtocolVersion>
0327      <BatchCount type="Integer" value="1"/>
0328    </RequestHeader>
0329    <BatchItem>
0330      <Operation type="Enumeration" value="Destroy"/>
0331      <RequestPayload>
0332        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0333      </RequestPayload>
0334    </BatchItem>
0335  </RequestMessage>
```

```
0336  <ResponseMessage>
0337    <ResponseHeader>
0338      <ProtocolVersion>
0339        <ProtocolVersionMajor type="Integer" value="1"/>
0340        <ProtocolVersionMinor type="Integer" value="1"/>
0341      </ProtocolVersion>
0342      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0343      <BatchCount type="Integer" value="1"/>
0344    </ResponseHeader>
0345    <BatchItem>
0346      <Operation type="Enumeration" value="Destroy"/>
0347      <ResultStatus type="Enumeration" value="Success"/>
0348      <ResponsePayload>
0349        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0350      </ResponsePayload>
0351    </BatchItem>
0352  </ResponseMessage>
```

150

151 3.3 Mandatory Test Cases KMIP ~~1~~v1.2

152 ~~This section documents the test cases that a client or server conformant to the Symmetric Key Lifecycle~~
153 ~~Profile SHALL support under KMIP Specification 1.2.~~

154 3.3.1 SKLC-M-1-12

155 Create, GetAttributes, Destroy

```
      # 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="Create"/>
0011      <RequestPayload>
0012        <ObjectType type="Enumeration" value="SymmetricKey"/>
0013        <TemplateAttribute>
0014          <Attribute>
0015            <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
```

```
0016            <AttributeValue type="Enumeration" value="AES"/>
0017          </Attribute>
0018          <Attribute>
0019            <AttributeName type="TextString" value="Cryptographic
      Length"/>
0020            <AttributeValue type="Integer" value="256"/>
0021          </Attribute>
0022          <Attribute>
0023            <AttributeName type="TextString" value="Cryptographic
      Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-M-1-12"/>
0030              <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
```

```
0037  <ResponseMessage>
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="2"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
      # TIME 1
0055  <RequestMessage>
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="2"/>
0060      </ProtocolVersion>
0061      <BatchCount type="Integer" value="1"/>
0062    </RequestHeader>
0063    <BatchItem>
0064      <Operation type="Enumeration" value="GetAttributes"/>
0065      <RequestPayload>
0066        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0067        <AttributeName type="TextString" value="State"/>
```

```
0068        <AttributeName type="TextString" value="Cryptographic Usage
    Mask"/>
0069        <AttributeName type="TextString" value="Unique Identifier"/>
0070        <AttributeName type="TextString" value="Object Type"/>
0071        <AttributeName type="TextString" value="Cryptographic
    Algorithm"/>
0072        <AttributeName type="TextString" value="Cryptographic
    Length"/>
0073        <AttributeName type="TextString" value="Digest"/>
0074        <AttributeName type="TextString" value="Initial Date"/>
0075        <AttributeName type="TextString" value="Last Change Date"/>
0076        <AttributeName type="TextString" value="Activation Date"/>
0077      </RequestPayload>
0078    </BatchItem>
0079  </RequestMessage>
```

```
0080  <ResponseMessage>
0081    <ResponseHeader>
0082      <ProtocolVersion>
0083        <ProtocolVersionMajor type="Integer" value="1"/>
0084        <ProtocolVersionMinor type="Integer" value="2"/>
0085      </ProtocolVersion>
0086      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0087      <BatchCount type="Integer" value="1"/>
0088    </ResponseHeader>
0089    <BatchItem>
0090      <Operation type="Enumeration" value="GetAttributes"/>
0091      <ResultStatus type="Enumeration" value="Success"/>
0092      <ResponsePayload>
0093        <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0094        <Attribute>
0095          <AttributeName type="TextString" value="State"/>
0096          <AttributeValue type="Enumeration" value="PreActive"/>
0097        </Attribute>
0098        <Attribute>
0099          <AttributeName type="TextString" value="Cryptographic Usage
    Mask"/>
0100          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0101        </Attribute>
0102        <Attribute>
0103          <AttributeName type="TextString" value="Unique Identifier"/>
0104          <AttributeValue type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0105        </Attribute>
0106        <Attribute>
0107          <AttributeName type="TextString" value="Object Type"/>
0108          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0109        </Attribute>
0110        <Attribute>
0111          <AttributeName type="TextString" value="Cryptographic
    Algorithm"/>
0112          <AttributeValue type="Enumeration" value="AES"/>
0113        </Attribute>
0114        <Attribute>
0115          <AttributeName type="TextString" value="Cryptographic
    Length"/>
0116          <AttributeValue type="Integer" value="256"/>
0117        </Attribute>
```

```
0118        <Attribute>
0119          <AttributeName type="TextString" value="Digest"/>
0120          <AttributeValue>
0121            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0122            <DigestValue type="ByteString"
      value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
      f29"/>
0123            <KeyFormatType type="Enumeration" value="Raw"/>
0124          </AttributeValue>
0125        </Attribute>
0126        <Attribute>
0127          <AttributeName type="TextString" value="Initial Date"/>
0128          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0129        </Attribute>
0130        <Attribute>
0131          <AttributeName type="TextString" value="Last Change Date"/>
0132          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0133        </Attribute>
0134      </ResponsePayload>
0135    </BatchItem>
0136  </ResponseMessage>
```

```
      # TIME 2
0137  <RequestMessage>
0138    <RequestHeader>
0139      <ProtocolVersion>
0140        <ProtocolVersionMajor type="Integer" value="1"/>
0141        <ProtocolVersionMinor type="Integer" value="2"/>
0142      </ProtocolVersion>
0143      <BatchCount type="Integer" value="1"/>
0144    </RequestHeader>
0145    <BatchItem>
0146      <Operation type="Enumeration" value="Destroy"/>
0147      <RequestPayload>
0148        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0149      </RequestPayload>
0150    </BatchItem>
0151  </RequestMessage>
```

```
0152  <ResponseMessage>
0153    <ResponseHeader>
0154      <ProtocolVersion>
0155        <ProtocolVersionMajor type="Integer" value="1"/>
0156        <ProtocolVersionMinor type="Integer" value="2"/>
0157      </ProtocolVersion>
0158      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0159      <BatchCount type="Integer" value="1"/>
0160    </ResponseHeader>
0161    <BatchItem>
0162      <Operation type="Enumeration" value="Destroy"/>
0163      <ResultStatus type="Enumeration" value="Success"/>
0164      <ResponsePayload>
0165        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0166      </ResponsePayload>
0167    </BatchItem>
0168  </ResponseMessage>
```

3.3.2 SKLC-M-2-12

Create, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```
# TIME 0
<RequestMessage>
  <RequestHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="2"/>
    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Create"/>
    <RequestPayload>
      <ObjectType type="Enumeration" value="SymmetricKey"/>
      <TemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
          <AttributeValue type="Enumeration" value="AES"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic
Length"/>
          <AttributeValue type="Integer" value="256"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic
Usage Mask"/>
          <AttributeValue type="Integer" value="Encrypt Decrypt"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Name"/>
          <AttributeValue>
            <NameValue type="TextString" value="SKLC-M-2-12"/>
            <NameType type="Enumeration"
value="UninterpretedTextString"/>
          </AttributeValue>
        </Attribute>
      </TemplateAttribute>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="2"/>
    </ProtocolVersion>
    <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Create"/>
```

```
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
      # TIME 1
0055  <RequestMessage>
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="2"/>
0060      </ProtocolVersion>
0061      <BatchCount type="Integer" value="1"/>
0062    </RequestHeader>
0063    <BatchItem>
0064      <Operation type="Enumeration" value="GetAttributes"/>
0065      <RequestPayload>
0066        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0067        <AttributeName type="TextString" value="State"/>
0068        <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0069        <AttributeName type="TextString" value="Unique Identifier"/>
0070        <AttributeName type="TextString" value="Object Type"/>
0071        <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0072        <AttributeName type="TextString" value="Cryptographic
      Length"/>
0073        <AttributeName type="TextString" value="Digest"/>
0074        <AttributeName type="TextString" value="Initial Date"/>
0075        <AttributeName type="TextString" value="Last Change Date"/>
0076      </RequestPayload>
0077    </BatchItem>
0078  </RequestMessage>
```

```
0079  <ResponseMessage>
0080    <ResponseHeader>
0081      <ProtocolVersion>
0082        <ProtocolVersionMajor type="Integer" value="1"/>
0083        <ProtocolVersionMinor type="Integer" value="2"/>
0084      </ProtocolVersion>
0085      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0086      <BatchCount type="Integer" value="1"/>
0087    </ResponseHeader>
0088    <BatchItem>
0089      <Operation type="Enumeration" value="GetAttributes"/>
0090      <ResultStatus type="Enumeration" value="Success"/>
0091      <ResponsePayload>
0092        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0093        <Attribute>
0094          <AttributeName type="TextString" value="State"/>
0095          <AttributeValue type="Enumeration" value="PreActive"/>
0096        </Attribute>
0097        <Attribute>
0098          <AttributeName type="TextString" value="Cryptographic Usage
```

```
Mask"/>
0099          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0100        </Attribute>
0101        <Attribute>
0102          <AttributeName type="TextString" value="Unique Identifier"/>
0103          <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0104        </Attribute>
0105        <Attribute>
0106          <AttributeName type="TextString" value="Object Type"/>
0107          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0108        </Attribute>
0109        <Attribute>
0110          <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0111          <AttributeValue type="Enumeration" value="AES"/>
0112        </Attribute>
0113        <Attribute>
0114          <AttributeName type="TextString" value="Cryptographic
Length"/>
0115          <AttributeValue type="Integer" value="256"/>
0116        </Attribute>
0117        <Attribute>
0118          <AttributeName type="TextString" value="Digest"/>
0119          <AttributeValue>
0120            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0121            <DigestValue type="ByteString"
value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
f29"/>
0122            <KeyFormatType type="Enumeration" value="Raw"/>
0123          </AttributeValue>
0124        </Attribute>
0125        <Attribute>
0126          <AttributeName type="TextString" value="Initial Date"/>
0127          <AttributeValue type="DateTime" value="2013-01-
10T23:33:21+00:00"/>
0128        </Attribute>
0129        <Attribute>
0130          <AttributeName type="TextString" value="Last Change Date"/>
0131          <AttributeValue type="DateTime" value="2013-01-
10T23:33:21+00:00"/>
0132        </Attribute>
0133      </ResponsePayload>
0134    </BatchItem>
0135  </ResponseMessage>
```

```
# TIME 2
0136  <RequestMessage>
0137    <RequestHeader>
0138      <ProtocolVersion>
0139        <ProtocolVersionMajor type="Integer" value="1"/>
0140        <ProtocolVersionMinor type="Integer" value="2"/>
0141      </ProtocolVersion>
0142      <BatchCount type="Integer" value="1"/>
0143    </RequestHeader>
0144    <BatchItem>
0145      <Operation type="Enumeration" value="Activate"/>
0146      <RequestPayload>
0147        <UniqueIdentifier type="TextString"
```

```
value="$UNIQUE_IDENTIFIER_0"/>
0148        </RequestPayload>
0149      </BatchItem>
0150    </RequestMessage>
0151    <ResponseMessage>
0152      <ResponseHeader>
0153        <ProtocolVersion>
0154          <ProtocolVersionMajor type="Integer" value="1"/>
0155          <ProtocolVersionMinor type="Integer" value="2"/>
0156        </ProtocolVersion>
0157        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0158        <BatchCount type="Integer" value="1"/>
0159      </ResponseHeader>
0160      <BatchItem>
0161        <Operation type="Enumeration" value="Activate"/>
0162        <ResultStatus type="Enumeration" value="Success"/>
0163        <ResponsePayload>
0164          <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0165        </ResponsePayload>
0166      </BatchItem>
0167    </ResponseMessage>
    # TIME 3
0168    <RequestMessage>
0169      <RequestHeader>
0170        <ProtocolVersion>
0171          <ProtocolVersionMajor type="Integer" value="1"/>
0172          <ProtocolVersionMinor type="Integer" value="2"/>
0173        </ProtocolVersion>
0174        <BatchCount type="Integer" value="1"/>
0175      </RequestHeader>
0176      <BatchItem>
0177        <Operation type="Enumeration" value="GetAttributes"/>
0178        <RequestPayload>
0179          <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0180          <AttributeName type="TextString" value="State"/>
0181          <AttributeName type="TextString" value="Activation Date"/>
0182          <AttributeName type="TextString" value="Deactivation Date"/>
0183        </RequestPayload>
0184      </BatchItem>
0185    </RequestMessage>
0186    <ResponseMessage>
0187      <ResponseHeader>
0188        <ProtocolVersion>
0189          <ProtocolVersionMajor type="Integer" value="1"/>
0190          <ProtocolVersionMinor type="Integer" value="2"/>
0191        </ProtocolVersion>
0192        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0193        <BatchCount type="Integer" value="1"/>
0194      </ResponseHeader>
0195      <BatchItem>
0196        <Operation type="Enumeration" value="GetAttributes"/>
0197        <ResultStatus type="Enumeration" value="Success"/>
0198        <ResponsePayload>
0199          <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0200          <Attribute>
```

```
0201          <AttributeName type="TextString" value="State"/>
0202          <AttributeValue type="Enumeration" value="Active"/>
0203        </Attribute>
0204        <Attribute>
0205          <AttributeName type="TextString" value="Activation Date"/>
0206          <AttributeValue type="DateTime" value="2013-01-
      10T23:36:01+00:00"/>
0207        </Attribute>
0208      </ResponsePayload>
0209    </BatchItem>
0210  </ResponseMessage>
```

```
      # TIME 4
0211  <RequestMessage>
0212    <RequestHeader>
0213      <ProtocolVersion>
0214        <ProtocolVersionMajor type="Integer" value="1"/>
0215        <ProtocolVersionMinor type="Integer" value="2"/>
0216      </ProtocolVersion>
0217      <BatchCount type="Integer" value="1"/>
0218    </RequestHeader>
0219    <BatchItem>
0220      <Operation type="Enumeration" value="Destroy"/>
0221      <RequestPayload>
0222        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0223      </RequestPayload>
0224    </BatchItem>
0225  </RequestMessage>
```

```
0226  <ResponseMessage>
0227    <ResponseHeader>
0228      <ProtocolVersion>
0229        <ProtocolVersionMajor type="Integer" value="1"/>
0230        <ProtocolVersionMinor type="Integer" value="2"/>
0231      </ProtocolVersion>
0232      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0233      <BatchCount type="Integer" value="1"/>
0234    </ResponseHeader>
0235    <BatchItem>
0236      <Operation type="Enumeration" value="Destroy"/>
0237      <ResultStatus type="Enumeration" value="OperationFailed"/>
0238      <ResultReason type="Enumeration" value="PermissionDenied"/>
0239      <ResultMessage type="TextString" value="DENIED"/>
0240    </BatchItem>
0241  </ResponseMessage>
```

```
      # TIME 5
0242  <RequestMessage>
0243    <RequestHeader>
0244      <ProtocolVersion>
0245        <ProtocolVersionMajor type="Integer" value="1"/>
0246        <ProtocolVersionMinor type="Integer" value="2"/>
0247      </ProtocolVersion>
0248      <BatchCount type="Integer" value="1"/>
0249    </RequestHeader>
0250    <BatchItem>
0251      <Operation type="Enumeration" value="Revoke"/>
0252      <RequestPayload>
0253        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
```

```
0254        <RevocationReason>
0255          <RevocationReasonCode type="Enumeration"
      value="KeyCompromise"/>
0256        </RevocationReason>
0257        <CompromiseOccurrenceDate type="DateTime" value="1970-01-
      01T00:00:06+00:00"/>
0258      </RequestPayload>
0259    </BatchItem>
0260  </RequestMessage>
0261  <ResponseMessage>
0262    <ResponseHeader>
0263      <ProtocolVersion>
0264        <ProtocolVersionMajor type="Integer" value="1"/>
0265        <ProtocolVersionMinor type="Integer" value="2"/>
0266      </ProtocolVersion>
0267      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0268      <BatchCount type="Integer" value="1"/>
0269    </ResponseHeader>
0270    <BatchItem>
0271      <Operation type="Enumeration" value="Revoke"/>
0272      <ResultStatus type="Enumeration" value="Success"/>
0273      <ResponsePayload>
0274        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0275      </ResponsePayload>
0276    </BatchItem>
0277  </ResponseMessage>
      # TIME 6
0278  <RequestMessage>
0279    <RequestHeader>
0280      <ProtocolVersion>
0281        <ProtocolVersionMajor type="Integer" value="1"/>
0282        <ProtocolVersionMinor type="Integer" value="2"/>
0283      </ProtocolVersion>
0284      <BatchCount type="Integer" value="1"/>
0285    </RequestHeader>
0286    <BatchItem>
0287      <Operation type="Enumeration" value="GetAttributes"/>
0288      <RequestPayload>
0289        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0290        <AttributeName type="TextString" value="State"/>
0291      </RequestPayload>
0292    </BatchItem>
0293  </RequestMessage>
0294  <ResponseMessage>
0295    <ResponseHeader>
0296      <ProtocolVersion>
0297        <ProtocolVersionMajor type="Integer" value="1"/>
0298        <ProtocolVersionMinor type="Integer" value="2"/>
0299      </ProtocolVersion>
0300      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0301      <BatchCount type="Integer" value="1"/>
0302    </ResponseHeader>
0303    <BatchItem>
0304      <Operation type="Enumeration" value="GetAttributes"/>
0305      <ResultStatus type="Enumeration" value="Success"/>
0306      <ResponsePayload>
```

```
0307        <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0308        <Attribute>
0309          <AttributeName type="TextString" value="State"/>
0310          <AttributeValue type="Enumeration" value="Compromised"/>
0311        </Attribute>
0312      </ResponsePayload>
0313    </BatchItem>
0314  </ResponseMessage>
```

```
    # TIME 7
0315  <RequestMessage>
0316    <RequestHeader>
0317      <ProtocolVersion>
0318        <ProtocolVersionMajor type="Integer" value="1"/>
0319        <ProtocolVersionMinor type="Integer" value="2"/>
0320      </ProtocolVersion>
0321      <BatchCount type="Integer" value="1"/>
0322    </RequestHeader>
0323    <BatchItem>
0324      <Operation type="Enumeration" value="Destroy"/>
0325      <RequestPayload>
0326        <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0327      </RequestPayload>
0328    </BatchItem>
0329  </RequestMessage>
```

```
0330  <ResponseMessage>
0331    <ResponseHeader>
0332      <ProtocolVersion>
0333        <ProtocolVersionMajor type="Integer" value="1"/>
0334        <ProtocolVersionMinor type="Integer" value="2"/>
0335      </ProtocolVersion>
0336      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0337      <BatchCount type="Integer" value="1"/>
0338    </ResponseHeader>
0339    <BatchItem>
0340      <Operation type="Enumeration" value="Destroy"/>
0341      <ResultStatus type="Enumeration" value="Success"/>
0342      <ResponsePayload>
0343        <UniqueIdentifier type="TextString"
    value="$UNIQUE_IDENTIFIER_0"/>
0344      </ResponsePayload>
0345    </BatchItem>
0346  </ResponseMessage>
```

159

160 ### 3.3.3 SKLC-M-3-12

161 Create, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```
    # 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="Create"/>
0011      <RequestPayload>
0012        <ObjectType type="Enumeration" value="SymmetricKey"/>
0013        <TemplateAttribute>
0014          <Attribute>
0015            <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0016            <AttributeValue type="Enumeration" value="AES"/>
0017          </Attribute>
0018          <Attribute>
0019            <AttributeName type="TextString" value="Cryptographic
      Length"/>
0020            <AttributeValue type="Integer" value="256"/>
0021          </Attribute>
0022          <Attribute>
0023            <AttributeName type="TextString" value="Cryptographic
      Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-M-3-12"/>
0030              <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
```

```
0037  <ResponseMessage>
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="2"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
      # TIME 1
0055  <RequestMessage>
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="2"/>
```

```
0060        </ProtocolVersion>
0061        <BatchCount type="Integer" value="1"/>
0062      </RequestHeader>
0063      <BatchItem>
0064        <Operation type="Enumeration" value="GetAttributes"/>
0065        <RequestPayload>
0066          <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0067          <AttributeName type="TextString" value="State"/>
0068          <AttributeName type="TextString" value="Cryptographic Usage
          Mask"/>
0069          <AttributeName type="TextString" value="Unique Identifier"/>
0070          <AttributeName type="TextString" value="Object Type"/>
0071          <AttributeName type="TextString" value="Cryptographic
          Algorithm"/>
0072          <AttributeName type="TextString" value="Cryptographic
          Length"/>
0073          <AttributeName type="TextString" value="Digest"/>
0074          <AttributeName type="TextString" value="Initial Date"/>
0075          <AttributeName type="TextString" value="Last Change Date"/>
0076        </RequestPayload>
0077      </BatchItem>
0078    </RequestMessage>
```

```
0079    <ResponseMessage>
0080      <ResponseHeader>
0081        <ProtocolVersion>
0082          <ProtocolVersionMajor type="Integer" value="1"/>
0083          <ProtocolVersionMinor type="Integer" value="2"/>
0084        </ProtocolVersion>
0085        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0086        <BatchCount type="Integer" value="1"/>
0087      </ResponseHeader>
0088      <BatchItem>
0089        <Operation type="Enumeration" value="GetAttributes"/>
0090        <ResultStatus type="Enumeration" value="Success"/>
0091        <ResponsePayload>
0092          <UniqueIdentifier type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0093          <Attribute>
0094            <AttributeName type="TextString" value="State"/>
0095            <AttributeValue type="Enumeration" value="PreActive"/>
0096          </Attribute>
0097          <Attribute>
0098            <AttributeName type="TextString" value="Cryptographic Usage
          Mask"/>
0099            <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0100          </Attribute>
0101          <Attribute>
0102            <AttributeName type="TextString" value="Unique Identifier"/>
0103            <AttributeValue type="TextString"
          value="$UNIQUE_IDENTIFIER_0"/>
0104          </Attribute>
0105          <Attribute>
0106            <AttributeName type="TextString" value="Object Type"/>
0107            <AttributeValue type="Enumeration" value="SymmetricKey"/>
0108          </Attribute>
0109          <Attribute>
0110            <AttributeName type="TextString" value="Cryptographic
```

```
Algorithm"/>
0111          <AttributeValue type="Enumeration" value="AES"/>
0112        </Attribute>
0113        <Attribute>
0114          <AttributeName type="TextString" value="Cryptographic
Length"/>
0115          <AttributeValue type="Integer" value="256"/>
0116        </Attribute>
0117        <Attribute>
0118          <AttributeName type="TextString" value="Digest"/>
0119          <AttributeValue>
0120            <HashingAlgorithm type="Enumeration" value="SHA 256"/>
0121            <DigestValue type="ByteString"
value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
f29"/>
0122            <KeyFormatType type="Enumeration" value="Raw"/>
0123          </AttributeValue>
0124        </Attribute>
0125        <Attribute>
0126          <AttributeName type="TextString" value="Initial Date"/>
0127          <AttributeValue type="DateTime" value="2013-01-
10T23:33:21+00:00"/>
0128        </Attribute>
0129        <Attribute>
0130          <AttributeName type="TextString" value="Last Change Date"/>
0131          <AttributeValue type="DateTime" value="2013-01-
10T23:33:21+00:00"/>
0132        </Attribute>
0133      </ResponsePayload>
0134    </BatchItem>
0135  </ResponseMessage>
```

```
      # TIME 2
0136  <RequestMessage>
0137    <RequestHeader>
0138      <ProtocolVersion>
0139        <ProtocolVersionMajor type="Integer" value="1"/>
0140        <ProtocolVersionMinor type="Integer" value="2"/>
0141      </ProtocolVersion>
0142      <BatchCount type="Integer" value="1"/>
0143    </RequestHeader>
0144    <BatchItem>
0145      <Operation type="Enumeration" value="Activate"/>
0146      <RequestPayload>
0147        <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0148      </RequestPayload>
0149    </BatchItem>
0150  </RequestMessage>
```

```
0151  <ResponseMessage>
0152    <ResponseHeader>
0153      <ProtocolVersion>
0154        <ProtocolVersionMajor type="Integer" value="1"/>
0155        <ProtocolVersionMinor type="Integer" value="2"/>
0156      </ProtocolVersion>
0157      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0158      <BatchCount type="Integer" value="1"/>
0159    </ResponseHeader>
0160    <BatchItem>
```

```
0161        <Operation type="Enumeration" value="Activate"/>
0162        <ResultStatus type="Enumeration" value="Success"/>
0163        <ResponsePayload>
0164          <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0165        </ResponsePayload>
0166      </BatchItem>
0167    </ResponseMessage>
```

```
      # TIME 3
0168  <RequestMessage>
0169    <RequestHeader>
0170      <ProtocolVersion>
0171        <ProtocolVersionMajor type="Integer" value="1"/>
0172        <ProtocolVersionMinor type="Integer" value="2"/>
0173      </ProtocolVersion>
0174      <BatchCount type="Integer" value="1"/>
0175    </RequestHeader>
0176    <BatchItem>
0177      <Operation type="Enumeration" value="GetAttributes"/>
0178      <RequestPayload>
0179        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0180        <AttributeName type="TextString" value="State"/>
0181        <AttributeName type="TextString" value="Activation Date"/>
0182        <AttributeName type="TextString" value="Deactivation Date"/>
0183      </RequestPayload>
0184    </BatchItem>
0185  </RequestMessage>
```

```
0186  <ResponseMessage>
0187    <ResponseHeader>
0188      <ProtocolVersion>
0189        <ProtocolVersionMajor type="Integer" value="1"/>
0190        <ProtocolVersionMinor type="Integer" value="2"/>
0191      </ProtocolVersion>
0192      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0193      <BatchCount type="Integer" value="1"/>
0194    </ResponseHeader>
0195    <BatchItem>
0196      <Operation type="Enumeration" value="GetAttributes"/>
0197      <ResultStatus type="Enumeration" value="Success"/>
0198      <ResponsePayload>
0199        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0200        <Attribute>
0201          <AttributeName type="TextString" value="State"/>
0202          <AttributeValue type="Enumeration" value="Active"/>
0203        </Attribute>
0204        <Attribute>
0205          <AttributeName type="TextString" value="Activation Date"/>
0206          <AttributeValue type="DateTime" value="2013-01-
      10T23:36:01+00:00"/>
0207        </Attribute>
0208      </ResponsePayload>
0209    </BatchItem>
0210  </ResponseMessage>
```

```
      # TIME 4
0211  <RequestMessage>
0212    <RequestHeader>
```

```
0213      <ProtocolVersion>
0214        <ProtocolVersionMajor type="Integer" value="1"/>
0215        <ProtocolVersionMinor type="Integer" value="2"/>
0216      </ProtocolVersion>
0217      <BatchCount type="Integer" value="1"/>
0218    </RequestHeader>
0219    <BatchItem>
0220      <Operation type="Enumeration" value="ModifyAttribute"/>
0221      <UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0222      <RequestPayload>
0223        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0224        <Attribute>
0225          <AttributeName type="TextString" value="Activation Date"/>
0226          <AttributeValue type="DateTime" value="$NOW"/>
0227        </Attribute>
0228      </RequestPayload>
0229    </BatchItem>
0230  </RequestMessage>
0231  <ResponseMessage>
0232    <ResponseHeader>
0233      <ProtocolVersion>
0234        <ProtocolVersionMajor type="Integer" value="1"/>
0235        <ProtocolVersionMinor type="Integer" value="2"/>
0236      </ProtocolVersion>
0237      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0238      <BatchCount type="Integer" value="1"/>
0239    </ResponseHeader>
0240    <BatchItem>
0241      <Operation type="Enumeration" value="ModifyAttribute"/>
0242      <UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0243      <ResultStatus type="Enumeration" value="OperationFailed"/>
0244      <ResultReason type="Enumeration" value="PermissionDenied"/>
0245      <ResultMessage type="TextString" value="DENIED"/>
0246    </BatchItem>
0247  </ResponseMessage>
      # TIME 5
0248  <RequestMessage>
0249    <RequestHeader>
0250      <ProtocolVersion>
0251        <ProtocolVersionMajor type="Integer" value="1"/>
0252        <ProtocolVersionMinor type="Integer" value="2"/>
0253      </ProtocolVersion>
0254      <BatchCount type="Integer" value="1"/>
0255    </RequestHeader>
0256    <BatchItem>
0257      <Operation type="Enumeration" value="Revoke"/>
0258      <RequestPayload>
0259        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0260        <RevocationReason>
0261          <RevocationReasonCode type="Enumeration"
      value="KeyCompromise"/>
0262        </RevocationReason>
0263        <CompromiseOccurrenceDate type="DateTime" value="1970-01-
      01T00:00:06+00:00"/>
0264      </RequestPayload>
0265    </BatchItem>
```

```
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="2"/>
    </ProtocolVersion>
    <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>
# TIME 6
<RequestMessage>
  <RequestHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="2"/>
    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="GetAttributes"/>
    <RequestPayload>
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
      <AttributeName type="TextString" value="State"/>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="2"/>
    </ProtocolVersion>
    <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="GetAttributes"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
      <Attribute>
        <AttributeName type="TextString" value="State"/>
        <AttributeValue type="Enumeration" value="Compromised"/>
      </Attribute>
    </ResponsePayload>
  </BatchItem>
```

```
0320  </ResponseMessage>
      # TIME 7
0321  <RequestMessage>
0322    <RequestHeader>
0323      <ProtocolVersion>
0324        <ProtocolVersionMajor type="Integer" value="1"/>
0325        <ProtocolVersionMinor type="Integer" value="2"/>
0326      </ProtocolVersion>
0327      <BatchCount type="Integer" value="1"/>
0328    </RequestHeader>
0329    <BatchItem>
0330      <Operation type="Enumeration" value="Destroy"/>
0331      <RequestPayload>
0332        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0333      </RequestPayload>
0334    </BatchItem>
0335  </RequestMessage>
0336  <ResponseMessage>
0337    <ResponseHeader>
0338      <ProtocolVersion>
0339        <ProtocolVersionMajor type="Integer" value="1"/>
0340        <ProtocolVersionMinor type="Integer" value="2"/>
0341      </ProtocolVersion>
0342      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0343      <BatchCount type="Integer" value="1"/>
0344    </ResponseHeader>
0345    <BatchItem>
0346      <Operation type="Enumeration" value="Destroy"/>
0347      <ResultStatus type="Enumeration" value="Success"/>
0348      <ResponsePayload>
0349        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0350      </ResponsePayload>
0351    </BatchItem>
0352  </ResponseMessage>
```

162

163 3.4 Optional Test Cases KMIP ~~1~~v1.0

164 ~~This section documents the test cases that a client or server conformant to the Symmetric Key Lifecycle~~
165 ~~Profile MAY support under KMIP Specification 1.0.~~

166 3.4.1 SKLC-O-1-10

167 Create, GetAttributes, Destroy, GetAttributes

```
      # 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="Create"/>
```

```
0011      <RequestPayload>
0012        <ObjectType type="Enumeration" value="SymmetricKey"/>
0013        <TemplateAttribute>
0014          <Attribute>
0015            <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0016            <AttributeValue type="Enumeration" value="AES"/>
0017          </Attribute>
0018          <Attribute>
0019            <AttributeName type="TextString" value="Cryptographic
      Length"/>
0020            <AttributeValue type="Integer" value="256"/>
0021          </Attribute>
0022          <Attribute>
0023            <AttributeName type="TextString" value="Cryptographic
      Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-O-1-10"/>
0030              <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
```

```
0037  <ResponseMessage>
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="0"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
      # TIME 1
0055  <RequestMessage>
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="0"/>
0060      </ProtocolVersion>
0061      <BatchCount type="Integer" value="1"/>
0062    </RequestHeader>
```

```
0063    <BatchItem>
0064      <Operation type="Enumeration" value="GetAttributes"/>
0065      <RequestPayload>
0066        <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0067        <AttributeName type="TextString" value="State"/>
0068        <AttributeName type="TextString" value="Cryptographic Usage
        Mask"/>
0069        <AttributeName type="TextString" value="Unique Identifier"/>
0070        <AttributeName type="TextString" value="Object Type"/>
0071        <AttributeName type="TextString" value="Cryptographic
        Algorithm"/>
0072        <AttributeName type="TextString" value="Cryptographic
        Length"/>
0073        <AttributeName type="TextString" value="Digest"/>
0074        <AttributeName type="TextString" value="Initial Date"/>
0075        <AttributeName type="TextString" value="Last Change Date"/>
0076        <AttributeName type="TextString" value="Activation Date"/>
0077      </RequestPayload>
0078    </BatchItem>
0079  </RequestMessage>
```

```
0080  <ResponseMessage>
0081    <ResponseHeader>
0082      <ProtocolVersion>
0083        <ProtocolVersionMajor type="Integer" value="1"/>
0084        <ProtocolVersionMinor type="Integer" value="0"/>
0085      </ProtocolVersion>
0086      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0087      <BatchCount type="Integer" value="1"/>
0088    </ResponseHeader>
0089    <BatchItem>
0090      <Operation type="Enumeration" value="GetAttributes"/>
0091      <ResultStatus type="Enumeration" value="Success"/>
0092      <ResponsePayload>
0093        <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0094        <Attribute>
0095          <AttributeName type="TextString" value="State"/>
0096          <AttributeValue type="Enumeration" value="PreActive"/>
0097        </Attribute>
0098        <Attribute>
0099          <AttributeName type="TextString" value="Cryptographic Usage
        Mask"/>
0100          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0101        </Attribute>
0102        <Attribute>
0103          <AttributeName type="TextString" value="Unique Identifier"/>
0104          <AttributeValue type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0105        </Attribute>
0106        <Attribute>
0107          <AttributeName type="TextString" value="Object Type"/>
0108          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0109        </Attribute>
0110        <Attribute>
0111          <AttributeName type="TextString" value="Cryptographic
        Algorithm"/>
0112          <AttributeValue type="Enumeration" value="AES"/>
```

```
0113        </Attribute>
0114        <Attribute>
0115          <AttributeName type="TextString" value="Cryptographic
      Length"/>
0116          <AttributeValue type="Integer" value="256"/>
0117        </Attribute>
0118        <Attribute>
0119          <AttributeName type="TextString" value="Digest"/>
0120          <AttributeValue>
0121            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0122            <DigestValue type="ByteString"
      value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
      f29"/>
0123          </AttributeValue>
0124        </Attribute>
0125        <Attribute>
0126          <AttributeName type="TextString" value="Initial Date"/>
0127          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0128        </Attribute>
0129        <Attribute>
0130          <AttributeName type="TextString" value="Last Change Date"/>
0131          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0132        </Attribute>
0133      </ResponsePayload>
0134    </BatchItem>
0135  </ResponseMessage>
```

```
      # TIME 2
0136  <RequestMessage>
0137    <RequestHeader>
0138      <ProtocolVersion>
0139        <ProtocolVersionMajor type="Integer" value="1"/>
0140        <ProtocolVersionMinor type="Integer" value="0"/>
0141      </ProtocolVersion>
0142      <BatchCount type="Integer" value="1"/>
0143    </RequestHeader>
0144    <BatchItem>
0145      <Operation type="Enumeration" value="Destroy"/>
0146      <RequestPayload>
0147        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0148      </RequestPayload>
0149    </BatchItem>
0150  </RequestMessage>
```

```
0151  <ResponseMessage>
0152    <ResponseHeader>
0153      <ProtocolVersion>
0154        <ProtocolVersionMajor type="Integer" value="1"/>
0155        <ProtocolVersionMinor type="Integer" value="0"/>
0156      </ProtocolVersion>
0157      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0158      <BatchCount type="Integer" value="1"/>
0159    </ResponseHeader>
0160    <BatchItem>
0161      <Operation type="Enumeration" value="Destroy"/>
0162      <ResultStatus type="Enumeration" value="Success"/>
0163      <ResponsePayload>
```

```
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>
```

```
# TIME 3
<RequestMessage>
  <RequestHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="0"/>
    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="GetAttributes"/>
    <RequestPayload>
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
```

```
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="0"/>
    </ProtocolVersion>
    <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="GetAttributes"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
      <Attribute>
        <AttributeName type="TextString" value="Unique Identifier"/>
        <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
      </Attribute>
      <Attribute>
        <AttributeName type="TextString" value="Object Type"/>
        <AttributeValue type="Enumeration" value="SymmetricKey"/>
      </Attribute>
      <Attribute>
        <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
        <AttributeValue type="Enumeration" value="AES"/>
      </Attribute>
      <Attribute>
        <AttributeName type="TextString" value="Cryptographic
Length"/>
        <AttributeValue type="Integer" value="256"/>
      </Attribute>
      <Attribute>
        <AttributeName type="TextString" value="Cryptographic Usage
```

```
Mask"/>
0215          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0216        </Attribute>
0217        <Attribute>
0218          <AttributeName type="TextString" value="Destroy Date"/>
0219          <AttributeValue type="DateTime" value="2013-01-
11T00:39:11+00:00"/>
0220        </Attribute>
0221        <Attribute>
0222          <AttributeName type="TextString" value="Digest"/>
0223          <AttributeValue>
0224            <HashingAlgorithm type="Enumeration" value="SHA 256"/>
0225            <DigestValue type="ByteString"
value="bf60cac2a3f82e6added839c87b0bdbc386d6280c14c8f09ca96e098365f7
fe3"/>
0226          </AttributeValue>
0227        </Attribute>
0228        <Attribute>
0229          <AttributeName type="TextString" value="Initial Date"/>
0230          <AttributeValue type="DateTime" value="2013-01-
11T00:39:11+00:00"/>
0231        </Attribute>
0232        <Attribute>
0233          <AttributeName type="TextString" value="Last Change Date"/>
0234          <AttributeValue type="DateTime" value="2013-01-
11T00:39:11+00:00"/>
0235        </Attribute>
0236        <Attribute>
0237          <AttributeName type="TextString" value="Lease Time"/>
0238          <AttributeValue type="Interval" value="3600"/>
0239        </Attribute>
0240        <Attribute>
0241          <AttributeName type="TextString" value="Name"/>
0242          <AttributeValue>
0243            <NameValue type="TextString" value="SKLC-O-1-10"/>
0244            <NameType type="Enumeration"
value="UninterpretedTextString"/>
0245          </AttributeValue>
0246        </Attribute>
0247        <Attribute>
0248          <AttributeName type="TextString" value="State"/>
0249          <AttributeValue type="Enumeration" value="Destroyed"/>
0250        </Attribute>
0251      </ResponsePayload>
0252    </BatchItem>
0253  </ResponseMessage>
```

168

169 3.5 Optional Test Cases KMIP v1.1~~.1~~

170 ~~This section documents the test cases that a client or server conformant to the Symmetric Key Lifecycle~~
171 ~~Profile SHALL support under KMIP Specification 1.1.~~

172 3.5.1 SKLC-O-1-11

173 Create, GetAttributes, Destroy, GetAttributes

```
# 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="Create"/>
0011     <RequestPayload>
0012       <ObjectType type="Enumeration" value="SymmetricKey"/>
0013       <TemplateAttribute>
0014         <Attribute>
0015           <AttributeName type="TextString" value="Cryptographic
     Algorithm"/>
0016           <AttributeValue type="Enumeration" value="AES"/>
0017         </Attribute>
0018         <Attribute>
0019           <AttributeName type="TextString" value="Cryptographic
     Length"/>
0020           <AttributeValue type="Integer" value="256"/>
0021         </Attribute>
0022         <Attribute>
0023           <AttributeName type="TextString" value="Cryptographic
     Usage Mask"/>
0024           <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025         </Attribute>
0026         <Attribute>
0027           <AttributeName type="TextString" value="Name"/>
0028           <AttributeValue>
0029             <NameValue type="TextString" value="SKLC-O-1-11"/>
0030             <NameType type="Enumeration"
     value="UninterpretedTextString"/>
0031           </AttributeValue>
0032         </Attribute>
0033       </TemplateAttribute>
0034     </RequestPayload>
0035   </BatchItem>
0036 </RequestMessage>
```

```
0037 <ResponseMessage>
0038   <ResponseHeader>
0039     <ProtocolVersion>
0040       <ProtocolVersionMajor type="Integer" value="1"/>
0041       <ProtocolVersionMinor type="Integer" value="1"/>
0042     </ProtocolVersion>
0043     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044     <BatchCount type="Integer" value="1"/>
0045   </ResponseHeader>
0046   <BatchItem>
0047     <Operation type="Enumeration" value="Create"/>
0048     <ResultStatus type="Enumeration" value="Success"/>
0049     <ResponsePayload>
0050       <ObjectType type="Enumeration" value="SymmetricKey"/>
0051       <UniqueIdentifier type="TextString"
     value="$UNIQUE_IDENTIFIER_0"/>
0052     </ResponsePayload>
0053   </BatchItem>
```

```
0054  </ResponseMessage>
      # TIME 1
0055  <RequestMessage>
0056    <RequestHeader>
0057      <ProtocolVersion>
0058        <ProtocolVersionMajor type="Integer" value="1"/>
0059        <ProtocolVersionMinor type="Integer" value="1"/>
0060      </ProtocolVersion>
0061      <BatchCount type="Integer" value="1"/>
0062    </RequestHeader>
0063    <BatchItem>
0064      <Operation type="Enumeration" value="GetAttributes"/>
0065      <RequestPayload>
0066        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0067        <AttributeName type="TextString" value="State"/>
0068        <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0069        <AttributeName type="TextString" value="Unique Identifier"/>
0070        <AttributeName type="TextString" value="Object Type"/>
0071        <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0072        <AttributeName type="TextString" value="Cryptographic
      Length"/>
0073        <AttributeName type="TextString" value="Digest"/>
0074        <AttributeName type="TextString" value="Initial Date"/>
0075        <AttributeName type="TextString" value="Last Change Date"/>
0076        <AttributeName type="TextString" value="Activation Date"/>
0077      </RequestPayload>
0078    </BatchItem>
0079  </RequestMessage>
0080  <ResponseMessage>
0081    <ResponseHeader>
0082      <ProtocolVersion>
0083        <ProtocolVersionMajor type="Integer" value="1"/>
0084        <ProtocolVersionMinor type="Integer" value="1"/>
0085      </ProtocolVersion>
0086      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0087      <BatchCount type="Integer" value="1"/>
0088    </ResponseHeader>
0089    <BatchItem>
0090      <Operation type="Enumeration" value="GetAttributes"/>
0091      <ResultStatus type="Enumeration" value="Success"/>
0092      <ResponsePayload>
0093        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0094        <Attribute>
0095          <AttributeName type="TextString" value="State"/>
0096          <AttributeValue type="Enumeration" value="PreActive"/>
0097        </Attribute>
0098        <Attribute>
0099          <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0100          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0101        </Attribute>
0102        <Attribute>
0103          <AttributeName type="TextString" value="Unique Identifier"/>
0104          <AttributeValue type="TextString"
```

```
      value="$UNIQUE_IDENTIFIER_0"/>
0105        </Attribute>
0106        <Attribute>
0107          <AttributeName type="TextString" value="Object Type"/>
0108          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0109        </Attribute>
0110        <Attribute>
0111          <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0112          <AttributeValue type="Enumeration" value="AES"/>
0113        </Attribute>
0114        <Attribute>
0115          <AttributeName type="TextString" value="Cryptographic
      Length"/>
0116          <AttributeValue type="Integer" value="256"/>
0117        </Attribute>
0118        <Attribute>
0119          <AttributeName type="TextString" value="Digest"/>
0120          <AttributeValue>
0121            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0122            <DigestValue type="ByteString"
      value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
      f29"/>
0123            <KeyFormatType type="Enumeration" value="Raw"/>
0124          </AttributeValue>
0125        </Attribute>
0126        <Attribute>
0127          <AttributeName type="TextString" value="Initial Date"/>
0128          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0129        </Attribute>
0130        <Attribute>
0131          <AttributeName type="TextString" value="Last Change Date"/>
0132          <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0133        </Attribute>
0134      </ResponsePayload>
0135    </BatchItem>
0136  </ResponseMessage>
```

```
      # TIME 2
0137  <RequestMessage>
0138    <RequestHeader>
0139      <ProtocolVersion>
0140        <ProtocolVersionMajor type="Integer" value="1"/>
0141        <ProtocolVersionMinor type="Integer" value="1"/>
0142      </ProtocolVersion>
0143      <BatchCount type="Integer" value="1"/>
0144    </RequestHeader>
0145    <BatchItem>
0146      <Operation type="Enumeration" value="Destroy"/>
0147      <RequestPayload>
0148        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0149      </RequestPayload>
0150    </BatchItem>
0151  </RequestMessage>
```

```
0152  <ResponseMessage>
0153    <ResponseHeader>
```

```
0154        <ProtocolVersion>
0155          <ProtocolVersionMajor type="Integer" value="1"/>
0156          <ProtocolVersionMinor type="Integer" value="1"/>
0157        </ProtocolVersion>
0158        <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0159        <BatchCount type="Integer" value="1"/>
0160      </ResponseHeader>
0161      <BatchItem>
0162        <Operation type="Enumeration" value="Destroy"/>
0163        <ResultStatus type="Enumeration" value="Success"/>
0164        <ResponsePayload>
0165          <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0166        </ResponsePayload>
0167      </BatchItem>
0168    </ResponseMessage>
```

```
      # TIME 3
0169  <RequestMessage>
0170    <RequestHeader>
0171      <ProtocolVersion>
0172        <ProtocolVersionMajor type="Integer" value="1"/>
0173        <ProtocolVersionMinor type="Integer" value="1"/>
0174      </ProtocolVersion>
0175      <BatchCount type="Integer" value="1"/>
0176    </RequestHeader>
0177    <BatchItem>
0178      <Operation type="Enumeration" value="GetAttributes"/>
0179      <RequestPayload>
0180        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0181      </RequestPayload>
0182    </BatchItem>
0183  </RequestMessage>
```

```
0184  <ResponseMessage>
0185    <ResponseHeader>
0186      <ProtocolVersion>
0187        <ProtocolVersionMajor type="Integer" value="1"/>
0188        <ProtocolVersionMinor type="Integer" value="1"/>
0189      </ProtocolVersion>
0190      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0191      <BatchCount type="Integer" value="1"/>
0192    </ResponseHeader>
0193    <BatchItem>
0194      <Operation type="Enumeration" value="GetAttributes"/>
0195      <ResultStatus type="Enumeration" value="Success"/>
0196      <ResponsePayload>
0197        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0198        <Attribute>
0199          <AttributeName type="TextString" value="Unique Identifier"/>
0200          <AttributeValue type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0201        </Attribute>
0202        <Attribute>
0203          <AttributeName type="TextString" value="Object Type"/>
0204          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0205        </Attribute>
0206        <Attribute>
```

```
0207          <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0208          <AttributeValue type="Enumeration" value="AES"/>
0209        </Attribute>
0210        <Attribute>
0211          <AttributeName type="TextString" value="Cryptographic
      Length"/>
0212          <AttributeValue type="Integer" value="256"/>
0213        </Attribute>
0214        <Attribute>
0215          <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0216          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0217        </Attribute>
0218        <Attribute>
0219          <AttributeName type="TextString" value="Destroy Date"/>
0220          <AttributeValue type="DateTime" value="2013-01-
      11T00:39:11+00:00"/>
0221        </Attribute>
0222        <Attribute>
0223          <AttributeName type="TextString" value="Digest"/>
0224          <AttributeValue>
0225            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0226            <DigestValue type="ByteString"
      value="bf60cac2a3f82e6added839c87b0bdbc386d6280c14c8f09ca96e098365f7
      fe3"/>
0227            <KeyFormatType type="Enumeration" value="Raw"/>
0228          </AttributeValue>
0229        </Attribute>
0230        <Attribute>
0231          <AttributeName type="TextString" value="Fresh"/>
0232          <AttributeValue type="Boolean" value="true"/>
0233        </Attribute>
0234        <Attribute>
0235          <AttributeName type="TextString" value="Initial Date"/>
0236          <AttributeValue type="DateTime" value="2013-01-
      11T00:39:11+00:00"/>
0237        </Attribute>
0238        <Attribute>
0239          <AttributeName type="TextString" value="Last Change Date"/>
0240          <AttributeValue type="DateTime" value="2013-01-
      11T00:39:11+00:00"/>
0241        </Attribute>
0242        <Attribute>
0243          <AttributeName type="TextString" value="Lease Time"/>
0244          <AttributeValue type="Interval" value="3600"/>
0245        </Attribute>
0246        <Attribute>
0247          <AttributeName type="TextString" value="Name"/>
0248          <AttributeValue>
0249            <NameValue type="TextString" value="SKLC-O-1-11"/>
0250            <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0251          </AttributeValue>
0252        </Attribute>
0253        <Attribute>
0254          <AttributeName type="TextString" value="State"/>
0255          <AttributeValue type="Enumeration" value="Destroyed"/>
```

```
0256        </Attribute>
0257      </ResponsePayload>
0258    </BatchItem>
0259  </ResponseMessage>
```

3.6 Optional Test Cases KMIP ~~1~~v1.2

~~This section documents the test cases that a client or server conformant to the Symmetric Key Lifecycle Profile MAY support under KMIP Specification 1.2.~~

3.6.1 SKLC-O-1-12

Create, GetAttributes, Destroy, GetAttributes

```
      # 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="Create"/>
0011      <RequestPayload>
0012        <ObjectType type="Enumeration" value="SymmetricKey"/>
0013        <TemplateAttribute>
0014          <Attribute>
0015            <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0016            <AttributeValue type="Enumeration" value="AES"/>
0017          </Attribute>
0018          <Attribute>
0019            <AttributeName type="TextString" value="Cryptographic
      Length"/>
0020            <AttributeValue type="Integer" value="256"/>
0021          </Attribute>
0022          <Attribute>
0023            <AttributeName type="TextString" value="Cryptographic
      Usage Mask"/>
0024            <AttributeValue type="Integer" value="Encrypt Decrypt"/>
0025          </Attribute>
0026          <Attribute>
0027            <AttributeName type="TextString" value="Name"/>
0028            <AttributeValue>
0029              <NameValue type="TextString" value="SKLC-O-1-12"/>
0030              <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0031            </AttributeValue>
0032          </Attribute>
0033        </TemplateAttribute>
0034      </RequestPayload>
0035    </BatchItem>
0036  </RequestMessage>
0037  <ResponseMessage>
```

```
0038    <ResponseHeader>
0039      <ProtocolVersion>
0040        <ProtocolVersionMajor type="Integer" value="1"/>
0041        <ProtocolVersionMinor type="Integer" value="2"/>
0042      </ProtocolVersion>
0043      <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0044      <BatchCount type="Integer" value="1"/>
0045    </ResponseHeader>
0046    <BatchItem>
0047      <Operation type="Enumeration" value="Create"/>
0048      <ResultStatus type="Enumeration" value="Success"/>
0049      <ResponsePayload>
0050        <ObjectType type="Enumeration" value="SymmetricKey"/>
0051        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0052      </ResponsePayload>
0053    </BatchItem>
0054  </ResponseMessage>
```

```
        # TIME 1
0055    <RequestMessage>
0056      <RequestHeader>
0057        <ProtocolVersion>
0058          <ProtocolVersionMajor type="Integer" value="1"/>
0059          <ProtocolVersionMinor type="Integer" value="2"/>
0060        </ProtocolVersion>
0061        <BatchCount type="Integer" value="1"/>
0062      </RequestHeader>
0063      <BatchItem>
0064        <Operation type="Enumeration" value="GetAttributes"/>
0065        <RequestPayload>
0066          <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0067          <AttributeName type="TextString" value="State"/>
0068          <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0069          <AttributeName type="TextString" value="Unique Identifier"/>
0070          <AttributeName type="TextString" value="Object Type"/>
0071          <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0072          <AttributeName type="TextString" value="Cryptographic
      Length"/>
0073          <AttributeName type="TextString" value="Digest"/>
0074          <AttributeName type="TextString" value="Initial Date"/>
0075          <AttributeName type="TextString" value="Last Change Date"/>
0076          <AttributeName type="TextString" value="Activation Date"/>
0077        </RequestPayload>
0078      </BatchItem>
0079    </RequestMessage>
```

```
0080    <ResponseMessage>
0081      <ResponseHeader>
0082        <ProtocolVersion>
0083          <ProtocolVersionMajor type="Integer" value="1"/>
0084          <ProtocolVersionMinor type="Integer" value="2"/>
0085        </ProtocolVersion>
0086        <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0087        <BatchCount type="Integer" value="1"/>
0088      </ResponseHeader>
0089      <BatchItem>
```

```
0090        <Operation type="Enumeration" value="GetAttributes"/>
0091        <ResultStatus type="Enumeration" value="Success"/>
0092        <ResponsePayload>
0093          <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0094          <Attribute>
0095            <AttributeName type="TextString" value="State"/>
0096            <AttributeValue type="Enumeration" value="PreActive"/>
0097          </Attribute>
0098          <Attribute>
0099            <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0100            <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0101          </Attribute>
0102          <Attribute>
0103            <AttributeName type="TextString" value="Unique Identifier"/>
0104            <AttributeValue type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0105          </Attribute>
0106          <Attribute>
0107            <AttributeName type="TextString" value="Object Type"/>
0108            <AttributeValue type="Enumeration" value="SymmetricKey"/>
0109          </Attribute>
0110          <Attribute>
0111            <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0112            <AttributeValue type="Enumeration" value="AES"/>
0113          </Attribute>
0114          <Attribute>
0115            <AttributeName type="TextString" value="Cryptographic
      Length"/>
0116            <AttributeValue type="Integer" value="256"/>
0117          </Attribute>
0118          <Attribute>
0119            <AttributeName type="TextString" value="Digest"/>
0120            <AttributeValue>
0121              <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0122              <DigestValue type="ByteString"
      value="bc12861408b8ac72cdb3b2748ad342b7dc519bd109046a1b931fdaed73591
      f29"/>
0123              <KeyFormatType type="Enumeration" value="Raw"/>
0124            </AttributeValue>
0125          </Attribute>
0126          <Attribute>
0127            <AttributeName type="TextString" value="Initial Date"/>
0128            <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0129          </Attribute>
0130          <Attribute>
0131            <AttributeName type="TextString" value="Last Change Date"/>
0132            <AttributeValue type="DateTime" value="2013-01-
      10T23:33:21+00:00"/>
0133          </Attribute>
0134        </ResponsePayload>
0135      </BatchItem>
0136    </ResponseMessage>
```

```
        # TIME 2
0137    <RequestMessage>
```

```
0138    <RequestHeader>
0139      <ProtocolVersion>
0140        <ProtocolVersionMajor type="Integer" value="1"/>
0141        <ProtocolVersionMinor type="Integer" value="2"/>
0142      </ProtocolVersion>
0143      <BatchCount type="Integer" value="1"/>
0144    </RequestHeader>
0145    <BatchItem>
0146      <Operation type="Enumeration" value="Destroy"/>
0147      <RequestPayload>
0148        <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0149      </RequestPayload>
0150    </BatchItem>
0151  </RequestMessage>
```

```
0152  <ResponseMessage>
0153    <ResponseHeader>
0154      <ProtocolVersion>
0155        <ProtocolVersionMajor type="Integer" value="1"/>
0156        <ProtocolVersionMinor type="Integer" value="2"/>
0157      </ProtocolVersion>
0158      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0159      <BatchCount type="Integer" value="1"/>
0160    </ResponseHeader>
0161    <BatchItem>
0162      <Operation type="Enumeration" value="Destroy"/>
0163      <ResultStatus type="Enumeration" value="Success"/>
0164      <ResponsePayload>
0165        <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0166      </ResponsePayload>
0167    </BatchItem>
0168  </ResponseMessage>
```

```
        # TIME 3
0169  <RequestMessage>
0170    <RequestHeader>
0171      <ProtocolVersion>
0172        <ProtocolVersionMajor type="Integer" value="1"/>
0173        <ProtocolVersionMinor type="Integer" value="2"/>
0174      </ProtocolVersion>
0175      <BatchCount type="Integer" value="1"/>
0176    </RequestHeader>
0177    <BatchItem>
0178      <Operation type="Enumeration" value="GetAttributes"/>
0179      <RequestPayload>
0180        <UniqueIdentifier type="TextString"
        value="$UNIQUE_IDENTIFIER_0"/>
0181      </RequestPayload>
0182    </BatchItem>
0183  </RequestMessage>
```

```
0184  <ResponseMessage>
0185    <ResponseHeader>
0186      <ProtocolVersion>
0187        <ProtocolVersionMajor type="Integer" value="1"/>
0188        <ProtocolVersionMinor type="Integer" value="2"/>
0189      </ProtocolVersion>
0190      <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0191      <BatchCount type="Integer" value="1"/>
```

```
0192    </ResponseHeader>
0193    <BatchItem>
0194      <Operation type="Enumeration" value="GetAttributes"/>
0195      <ResultStatus type="Enumeration" value="Success"/>
0196      <ResponsePayload>
0197        <UniqueIdentifier type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0198        <Attribute>
0199          <AttributeName type="TextString" value="Unique Identifier"/>
0200          <AttributeValue type="TextString"
      value="$UNIQUE_IDENTIFIER_0"/>
0201        </Attribute>
0202        <Attribute>
0203          <AttributeName type="TextString" value="Object Type"/>
0204          <AttributeValue type="Enumeration" value="SymmetricKey"/>
0205        </Attribute>
0206        <Attribute>
0207          <AttributeName type="TextString" value="Cryptographic
      Algorithm"/>
0208          <AttributeValue type="Enumeration" value="AES"/>
0209        </Attribute>
0210        <Attribute>
0211          <AttributeName type="TextString" value="Cryptographic
      Length"/>
0212          <AttributeValue type="Integer" value="256"/>
0213        </Attribute>
0214        <Attribute>
0215          <AttributeName type="TextString" value="Cryptographic Usage
      Mask"/>
0216          <AttributeValue type="Integer" value="Decrypt Encrypt"/>
0217        </Attribute>
0218        <Attribute>
0219          <AttributeName type="TextString" value="Destroy Date"/>
0220          <AttributeValue type="DateTime" value="2013-01-
      11T00:39:11+00:00"/>
0221        </Attribute>
0222        <Attribute>
0223          <AttributeName type="TextString" value="Digest"/>
0224          <AttributeValue>
0225            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0226            <DigestValue type="ByteString"
      value="bf60cac2a3f82e6added839c87b0bdbc386d6280c14c8f09ca96e098365f7
      fe3"/>
0227            <KeyFormatType type="Enumeration" value="Raw"/>
0228          </AttributeValue>
0229        </Attribute>
0230        <Attribute>
0231          <AttributeName type="TextString" value="Fresh"/>
0232          <AttributeValue type="Boolean" value="true"/>
0233        </Attribute>
0234        <Attribute>
0235          <AttributeName type="TextString" value="Initial Date"/>
0236          <AttributeValue type="DateTime" value="2013-01-
      11T00:39:11+00:00"/>
0237        </Attribute>
0238        <Attribute>
0239          <AttributeName type="TextString" value="Last Change Date"/>
0240          <AttributeValue type="DateTime" value="2013-01-
```

```
      11T00:39:11+00:00"/>
0241        </Attribute>
0242        <Attribute>
0243          <AttributeName type="TextString" value="Lease Time"/>
0244          <AttributeValue type="Interval" value="3600"/>
0245        </Attribute>
0246        <Attribute>
0247          <AttributeName type="TextString" value="Name"/>
0248          <AttributeValue>
0249            <NameValue type="TextString" value="SKLC-O-1-12"/>
0250            <NameType type="Enumeration"
      value="UninterpretedTextString"/>
0251          </AttributeValue>
0252        </Attribute>
0253        <Attribute>
0254          <AttributeName type="TextString" value="Original Creation
      Date"/>
0255          <AttributeValue type="DateTime" value="2013-01-
      11T00:39:11+00:00"/>
0256        </Attribute>
0257        <Attribute>
0258          <AttributeName type="TextString" value="State"/>
0259          <AttributeValue type="Enumeration" value="Destroyed"/>
0260        </Attribute>
0261      </ResponsePayload>
0262    </BatchItem>
0263  </ResponseMessage>
```

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4 Conformance

~~4~~ Symmetric Key Lifecycle Client KMIP v1.0 Profile - ~~Test Cases~~

~~This section documents the test cases for a KMIP server performing symmetric key lifecycle operations based on requests received from a KMIP client.~~

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

~~4.1 Mandatory Test Cases~~

~~This section documents the test cases that a client or server conformant to the Symmetric Key Lifecycle Profile SHALL support.~~

~~5 Conformance~~

~~5.1~~4.1 Conformance ~~Statement~~

KMIP client ~~and server~~ implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the Symmetric Key Lifecycle - Client conditions (1.1) and;
3. SHALL support all Mandatory Test Cases KMIP v1.0 (3.1).

4.2 Symmetric Key Lifecycle Client KMIP v1.1 Profile Conformance

KMIP client implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the Symmetric Key Lifecycle - Client conditions (1.1) and;
3. SHALL support all Mandatory Test Cases KMIP v1.1 (3.2).

4.3 Symmetric Key Lifecycle Client KMIP v1.2 Profile Conformance

KMIP client implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
~~1.~~2. SHALL support the Symmetric Key Lifecycle - Client conditions (1.1) and;
3. SHALL support all Mandatory Test Cases KMIP v1.2 (3.3).

4.4 Symmetric Key Lifecycle Server KMIP v1.0 Profile Conformance

KMIP server implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1~~Mandatory Test Cases ()~~ and;
2. SHALL support the Symmetric Key Lifecycle - Server conditions (2.3) and;
3. SHALL support all Mandatory Test Cases KMIP v1.0 (3.1).

4.5 Symmetric Key Lifecycle Server KMIP v1.1 Profile Conformance

KMIP server implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1~~), for each supported protocol version (major)~~ and ~~minor), returning results in accordance with the test cases.~~;
2. SHALL support the Symmetric Key Lifecycle - Server conditions (2.3) and;
3. SHALL support all Mandatory Test Cases KMIP v1.1 (3.2).

4.6 Symmetric Key Lifecycle Server KMIP v1.2 Profile Conformance

KMIP server implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the Symmetric Key Lifecycle - Server conditions (2.3) and;
3. SHALL support all Mandatory Test Cases KMIP v1.2 (3.3).

~~5.24~~.7 Permitted Test Case Variations

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

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

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

~~5.2.14~~.7.1 Variable Items

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

1. UniqueIdentifier
2. PrivateKeyUniqueIdentifier
3. PublicKeyUniqueIdentifier
4. UniqueBatchItemIdentifier
5. AsynchronousCorrelationValue
6. TimeStamp
7. KeyValue / KeyMaterial including:
    a. key material content returned for managed cryptographic objects which are generated by the server
    b. wrapped versions of keys where the wrapping key is dynamic or the wrapping contains variable output for each wrap operation
8. For response containing the output of cryptographic operation in Data / SignatureData/ MACData / IVCounterNonce where:
    a. the managed object is generated by the server; or
    b. the operation inherently contains variable output
9. For the following DateTime attributes where the value is not specified in the request as a fixed DateTime value:
    a. ActivationDate
    b. ArchiveDate
    c. CompromiseDate
    d. CompromiseOccurrenceDate
    e. DeactivationDate
    f. DestroyDate
    g. InitialDate
    h. LastChangeDate
    i. ProtectStartDate
    j. ProcessStopDate
    k. ValidityDate
    l. OriginalCreationDate
10. LinkedObjectIdentifier
11. DigestValue
    a. For those managed cryptographic objects which are dynamically generated
12. KeyFormatType
    a. The key format type selected by the server when it creates managed objects
13. Digest

a. The HashingAlgorithm selected by the server when it calculates the digest for a managed object for which it has access to the key material
b. The Digest Value

14. Extensions reported in Query for ExtensionList and ExtensionMap
15. Application Namespaces reported in Query
16. Object Types reported in Query other than those noted as required in this profile
17. Operation Types reported in Query other than those noted as required in this profile (or any referenced profile documents)
18. For TextString attribute values containing test identifiers:
    a. Additional vendor or application prefixes
19. Additional attributes beyond those noted in the response

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

20. Object Group values – May or may not return one or more Object Group values not included in the requests
21. y-CustomAttributes – May or may not include additional server-specific associated attributes not included in requests
22. Message Extensions – May or may not include additional (non-critical) vendor extensions
23. TemplateAttribute – May or may not be included in responses where the Template Attribute response is noted as optional in [KMIP-SPEC]
24. AttributeIndex – May or may not include Attribute Index value where the Attribute Index value is 0 for Protocol Versions 1.1 and above.
25. ResultMessage – May or may not be included in responses and the value (if included) may vary from the text contained within the test case.
26. The list of Protocol Versions returned in a DiscoverVersion response may include additional protocol versions if the request has not specified a list of client supported Protocol Versions.
27. VendorIdentification - The value (if included) may vary from the text contained within the test case.

~~5.2.2~~4.7.2 Variable behavior

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

1. A test may omit the clean-up requests and responses (containing Revoke and/or Destroy) at the end of the test provided there is a separate mechanism to remove the created objects during testing.
2. A test may omit the test identifiers if the client is unable to include them in requests. This includes the following attributes:
    a. Name; and
    b. x-ID
3. A test MAY perform requests with multiple batch items or as multiple requests with a single batch item provided the sequence of operations are equivalent
4. A request MAY contain an optional *Authentication* [KMIP_SPEC] structure within each request

Appendix A. Acknowledgments

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

Participants:

Hal Aldridge, Sypris Electronics
Mike Allen, Symantec
Gordon Arnold, IBM
Todd Arnold, IBM
Richard Austin, Hewlett-Packard
Lars Bagnert, PrimeKey
Elaine Barker, NIST
Peter Bartok, Venafi, Inc.
Tom Benjamin, IBM
Anthony Berglas, Cryptsoft
Mathias Björkqvist, IBM
Kevin Bocket, Venafi
Anne Bolgert, IBM
Alan Brown, Thales e-Security
Tim Bruce, CA Technologies
Chris Burchett, Credant Technologies, Inc.
Kelley Burgin, National Security Agency
Robert Burns, Thales e-Security
Chuck Castleton, Venafi
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John Clark, Hewlett-Packard
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Stan Feather, Hewlett-Packard
David Finkelstein, Symantec Corp.
James Fitzgerald, SafeNet, Inc.
Indra Fitzgerald, Hewlett-Packard
Judith Furlong, EMC Corporation
Susan Gleeson, Oracle
Robert Griffin, EMC Corporation
Paul Grojean, Individual
Robert Haas, IBM
Thomas Hardjono, M.I.T.
ChengDong He, Huawei Technologies Co., Ltd.
Steve He, Vormetric
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Jishnu Mukeri, Hewlett-Packard
Bryan Olson, Hewlett-Packard
John Peck, IBM
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Bruce Rich, IBM
Christina Richards, American Express CCoE
Warren Robbins, Dell
Peter Robinson, EMC Corporation
Scott Rotondo, Oracle
Saikat Saha, SafeNet, Inc.
Anil Saldhana, Red Hat
Subhash Sankuratripati, NetApp
Boris Schumperli, Cryptomathic
Greg Singh, QuintessenceLabs
David Smith, Venafi, Inc
Brian Spector, Certivox
Terence Spies, Voltage Security
Deborah Steckroth, RouteOne LLC
Michael Stevens, QuintessenceLabs
Marcus Streets, Thales e-Security
Satish Sundar, IBM
Kiran Thota, VMware
Somanchi Trinath, Freescale Semiconductor, Inc.
Nathan Turajski, Thales e-Security
Sean Turner, IECA, Inc.
Paul Turner, Venafi, Inc.
Rod Wideman, Quantum Corporation
Steven Wierenga, Hewlett-Packard
Jin Wong, QuintessenceLabs
Sameer Yami, Thales e-Security
Peter Yee, EMC Corporation
Krishna Yellepeddy, IBM
Catherine Ying, SafeNet, Inc.
Tatu Ylonen, SSH Communications Security (Tectia Corp)

Michael Yoder, Vormetric. Inc.
Magda Zdunkiewicz, Cryptsoft
Peter Zelechoski, Election Systems & Software

Appendix B. KMIP Specification Cross Reference

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

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

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

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

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

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Appendix C. Revision History

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 and corrected Protect Stop Date typographic error in 2.2
wd03a	24-October-2013	Tim Hudson	Editorial update to include VendorIdentification in the list of allowed variations as per TC motion.
pr01update	11-June-2014	Tim Hudson	Updated following Public Review