



# KMIP Asymmetric Key Lifecycle Profile Version 1.0

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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 asymmetric 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>).

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# 1 Introduction

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

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

This profile defines the necessary KMIP functionality that a KMIP [server implementation](#) 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–~~

45 ~~[KMIP-UG-1\_1] — Key Management Interoperability Protocol Usage Guide Version 1.1.~~  
46 ~~Committee Note 01, 27 July 2012.~~  
47 ~~[KMIP-UG-1\_2] — Key Management Interoperability Protocol Usage Guide Version 1.2.~~  
48 ~~Committee Note Draft, DD MMM YYYY.~~  
49  
50 ~~[KMIP-TC-1\_1] — Key Management Interoperability Protocol Test Cases Version 1.1., Committee~~  
51 ~~Note 01, 27 July 2012.~~  
52 ~~[KMIP-TC-1\_2] — Key Management Interoperability Protocol Test Cases Version 1.2.~~  
53 ~~, Committee Note Draft, DD MMM YYYY.~~  
54 ~~[KMIP-UC] — Key Management Interoperability Protocol Use Cases Version 1.0., Committee~~  
55 ~~Specification, 15 June 2010.~~  
56

---

## 2 Asymmetric Key Lifecycle Profile

The Asymmetric Key Lifecycle Profile is a KMIP server performing asymmetric 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 Asymmetric Key Lifecycle - Client~~

~~KMIP clients 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 Client Clause* (section 5.12) of [KMIP-PROF-1\_1]~~

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

~~4.3. SHALL conform to the *Baseline Client profile* in (section 5.2) of [KMIP-PROF] and [KMIP-SPEC-1\_2]~~

~~KMIP clients conformant to this profile:~~

~~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 Asymmetric Key Lifecycle - Server~~

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

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

~~KMIP servers conformant to this profile under [KMIP-SPEC-1\_1]:~~

~~4.2. SHALL conform to the *Baseline Server profile* in *Clause of* [KMIP-PROF] and [KMIP-SPEC] and *1\_1*~~

~~KMIP servers conformant to this profile under [KMIP-SPEC-1\_2]:~~

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

~~KMIP servers conformant to this profile:~~

~~2.4. SHALL support the following *Objects* [KMIP-SPEC]~~

- a. *Public Key* [KMIP-SPEC]
- b. *Private Key* [KMIP-SPEC]
- c. *Key Format Type* [KMIP-SPEC]

~~3.5. SHALL support the following *Attributes* [KMIP-SPEC]~~

- a. *Cryptographic Algorithm* [KMIP-SPEC]
- b. *Object Type* [KMIP-SPEC]
- c. *Process Start Date* [KMIP-SPEC]

- 95                   d. *Process Stop Date* [KMIP-SPEC]
- 96                   ~~1. SHALL support the following *Client-to-Server* [KMIP-SPEC] operations:~~
- 97                   ~~a. *Create Key Pair* [KMIP-SPEC]~~
- 98                   ~~4.6.~~ SHALL support the following *Message Encoding* [KMIP-SPEC]:
- 99                   a. *Cryptographic Algorithm* [KMIP-SPEC] with values:
- 100                   i. RSA
- 101                   b. *Object Type* [KMIP-SPEC] with value:
- 102                   i. Public Key
- 103                   ii. Private Key
- 104                   c. *Key Format Type* [KMIP-SPEC] with value:
- 105                   i. PKCS#1
- 106                   ii. PKCS#8
- 107                   iii. Transparent RSA Public Key
- 108                   iv. Transparent RSA Private Key
- 109                   ~~2. SHALL support all *Mandatory Test Cases*, returning results in accordance with the test cases.~~
- 110                   ~~5.7.~~ MAY support any clause within [KMIP-SPEC] provided it does not conflict with any other clause
- 111                   within this section ~~2.32.2~~
- 112                   ~~6.8.~~ MAY support extensions outside the scope of this standard (e.g., vendor extensions,
- 113                   conformance clauses) that do not contradict any KMIP requirements.



## 3 Asymmetric Key Lifecycle Profile - Test Cases

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

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. Actual values from a real client or server system ~~will~~ may vary as specified in section 4.7-.

### 3.1 Mandatory Test Cases KMIP 4v1.0

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

#### 3.1.1 AKLC-M-1-10

CreateKeyPair, GetAttributes, 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="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015           <AttributeValue type="Enumeration" value="RSA"/>
0016         </Attribute>
0017         <Attribute>
0018           <AttributeName type="TextString" value="Cryptographic
Length"/>
0019           <AttributeValue type="Integer" value="2048"/>
0020         </Attribute>
0021       </CommonTemplateAttribute>
0022       <PrivateKeyTemplateAttribute>
0023         <Attribute>
0024           <AttributeName type="TextString" value="Name"/>
```

0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-1-10-private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-1-10-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="0"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1
0070	<RequestMessage>
0071	<RequestHeader>
0072	<ProtocolVersion>
0073	<ProtocolVersionMajor type="Integer" value="1"/>
	<ProtocolVersionMinor type="Integer" value="0"/>

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

```

0125     <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0126     <AttributeValue type="Enumeration" value="RSA"/>
0127     </Attribute>
0128     <Attribute>
0129     <AttributeName type="TextString" value="Cryptographic
Length"/>
0130     <AttributeValue type="Integer" value="2048"/>
0131     </Attribute>
0132     <Attribute>
0133     <AttributeName type="TextString" value="Digest"/>
0134     <AttributeValue>
0135     <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0136     <DigestValue type="ByteString"
value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
230"/>
0137     </AttributeValue>
0138     </Attribute>
0139     <Attribute>
0140     <AttributeName type="TextString" value="Initial Date"/>
0141     <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0142     </Attribute>
0143     <Attribute>
0144     <AttributeName type="TextString" value="Last Change Date"/>
0145     <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0146     </Attribute>
0147     </ResponsePayload>
0148     </BatchItem>
0149     </ResponseMessage>
# TIME 2
0150 <RequestMessage>
0151 <RequestHeader>
0152 <ProtocolVersion>
0153 <ProtocolVersionMajor type="Integer" value="1"/>
0154 <ProtocolVersionMinor type="Integer" value="0"/>
0155 </ProtocolVersion>
0156 <BatchCount type="Integer" value="1"/>
0157 </RequestHeader>
0158 <BatchItem>
0159 <Operation type="Enumeration" value="GetAttributes"/>
0160 <RequestPayload>
0161 <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0162 <AttributeName type="TextString" value="State"/>
0163 <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0164 <AttributeName type="TextString" value="Unique Identifier"/>
0165 <AttributeName type="TextString" value="Object Type"/>
0166 <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0167 <AttributeName type="TextString" value="Cryptographic
Length"/>
0168 <AttributeName type="TextString" value="Digest"/>
0169 <AttributeName type="TextString" value="Initial Date"/>
0170 <AttributeName type="TextString" value="Last Change Date"/>
0171 <AttributeName type="TextString" value="Activation Date"/>

```

0172	</RequestPayload>
0173	</BatchItem>
0174	</RequestMessage>
0175	<ResponseMessage>
0176	<ResponseHeader>
0177	<ProtocolVersion>
0178	<ProtocolVersionMajor type="Integer" value="1"/>
0179	<ProtocolVersionMinor type="Integer" value="0"/>
0180	</ProtocolVersion>
0181	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0182	<BatchCount type="Integer" value="1"/>
0183	</ResponseHeader>
0184	<BatchItem>
0185	<Operation type="Enumeration" value="GetAttributes"/>
0186	<ResultStatus type="Enumeration" value="Success"/>
0187	<ResponsePayload>
0188	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0189	<Attribute>
0190	<AttributeName type="TextString" value="State"/>
0191	<AttributeValue type="Enumeration" value="PreActive"/>
0192	</Attribute>
0193	<Attribute>
0194	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0195	<AttributeValue type="Integer" value="Verify"/>
0196	</Attribute>
0197	<Attribute>
0198	<AttributeName type="TextString" value="Unique Identifier"/>
0199	<AttributeValue type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0200	</Attribute>
0201	<Attribute>
0202	<AttributeName type="TextString" value="Object Type"/>
0203	<AttributeValue type="Enumeration" value="PublicKey"/>
0204	</Attribute>
0205	<Attribute>
0206	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0207	<AttributeValue type="Enumeration" value="RSA"/>
0208	</Attribute>
0209	<Attribute>
0210	<AttributeName type="TextString" value="Cryptographic Length"/>
0211	<AttributeValue type="Integer" value="2048"/>
0212	</Attribute>
0213	<Attribute>
0214	<AttributeName type="TextString" value="Digest"/>
0215	<AttributeValue>
0216	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0217	<DigestValue type="ByteString" value="82bcff8afab753809db804e654013ded708c3996a50c6ce9313f9b3915442ce9"/>
0218	</AttributeValue>
0219	</Attribute>
0220	<Attribute>
0221	<AttributeName type="TextString" value="Initial Date"/>
0222	<AttributeValue type="DateTime" value="2013-01-

0223	11T08:19:49+00:00"/>
0224	</Attribute>
0225	<Attribute>
0226	<AttributeName type="TextString" value="Last Change Date"/>
0227	<AttributeValue type="DateTime" value="2013-01-11T08:19:49+00:00"/>
0228	</Attribute>
0229	</ResponsePayload>
0230	</BatchItem>
0231	</ResponseMessage>
0231	# TIME 3
0232	<RequestMessage>
0233	<RequestHeader>
0234	<ProtocolVersion>
0235	<ProtocolVersionMajor type="Integer" value="1"/>
0236	<ProtocolVersionMinor type="Integer" value="0"/>
0237	</ProtocolVersion>
0238	<BatchCount type="Integer" value="1"/>
0239	</RequestHeader>
0240	<BatchItem>
0241	<Operation type="Enumeration" value="Destroy"/>
0242	<RequestPayload>
0243	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0244	</RequestPayload>
0245	</BatchItem>
0246	</RequestMessage>
0246	<ResponseMessage>
0247	<ResponseHeader>
0248	<ProtocolVersion>
0249	<ProtocolVersionMajor type="Integer" value="1"/>
0250	<ProtocolVersionMinor type="Integer" value="0"/>
0251	</ProtocolVersion>
0252	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0253	<BatchCount type="Integer" value="1"/>
0254	</ResponseHeader>
0255	<BatchItem>
0256	<Operation type="Enumeration" value="Destroy"/>
0257	<ResultStatus type="Enumeration" value="Success"/>
0258	<ResponsePayload>
0259	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0260	</ResponsePayload>
0261	</BatchItem>
0262	</ResponseMessage>
0263	# TIME 4
0264	<RequestMessage>
0265	<RequestHeader>
0266	<ProtocolVersion>
0267	<ProtocolVersionMajor type="Integer" value="1"/>
0268	<ProtocolVersionMinor type="Integer" value="0"/>
0269	</ProtocolVersion>
0270	<BatchCount type="Integer" value="1"/>
0271	</RequestHeader>
0272	<BatchItem>
0273	<Operation type="Enumeration" value="Destroy"/>
0274	<RequestPayload>
0275	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>

```

0275     value="$UNIQUE_IDENTIFIER_1"/>
0276     </RequestPayload>
0277 </BatchItem>
0278 </RequestMessage>
0279 <ResponseMessage>
0280   <ResponseHeader>
0281     <ProtocolVersion>
0282       <ProtocolVersionMajor type="Integer" value="1"/>
0283       <ProtocolVersionMinor type="Integer" value="0"/>
0284     </ProtocolVersion>
0285     <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0286     <BatchCount type="Integer" value="1"/>
0287   </ResponseHeader>
0288   <BatchItem>
0289     <Operation type="Enumeration" value="Destroy"/>
0290     <ResultStatus type="Enumeration" value="Success"/>
0291     <ResponsePayload>
0292       <UniqueIdentifier type="TextString"
0293         value="$UNIQUE_IDENTIFIER_1"/>
0294     </ResponsePayload>
0295   </BatchItem>
0296 </ResponseMessage>

```

135

### 136 3.1.2 AKLC-M-2-10

137 CreateKeyPair, 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="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
0015 Algorithm"/>
0016           <AttributeValue type="Enumeration" value="RSA"/>
0017         </Attribute>
0018         <Attribute>
0019           <AttributeName type="TextString" value="Cryptographic
0020 Length"/>
0021           <AttributeValue type="Integer" value="2048"/>
0022         </Attribute>
0023       </CommonTemplateAttribute>
0024       <PrivateKeyTemplateAttribute>
0025         <Attribute>
0026           <AttributeName type="TextString" value="Name"/>
0027           <AttributeValue>
0028             <NameValue type="TextString" value="AKLC-M-2-10-
0029 private"/>

```

0027	<pre>                 &lt;NameType type="Enumeration" value="UninterpretedTextString"/&gt; 0028         &lt;/AttributeValue&gt; 0029         &lt;/Attribute&gt; 0030         &lt;Attribute&gt; 0031         &lt;AttributeName type="TextString" value="Cryptographic Usage Mask"/&gt; 0032         &lt;AttributeValue type="Integer" value="Sign"/&gt; 0033         &lt;/Attribute&gt; 0034     &lt;/PrivateKeyTemplateAttribute&gt; 0035     &lt;PublicKeyTemplateAttribute&gt; 0036     &lt;Attribute&gt; 0037     &lt;AttributeName type="TextString" value="Name"/&gt; 0038     &lt;AttributeValue&gt; 0039     &lt;NameValue type="TextString" value="AKLC-M-2-10- public"/&gt; 0040     &lt;NameType type="Enumeration" value="UninterpretedTextString"/&gt; 0041     &lt;/AttributeValue&gt; 0042     &lt;/Attribute&gt; 0043     &lt;Attribute&gt; 0044     &lt;AttributeName type="TextString" value="Cryptographic Usage Mask"/&gt; 0045     &lt;AttributeValue type="Integer" value="Verify"/&gt; 0046     &lt;/Attribute&gt; 0047     &lt;/PublicKeyTemplateAttribute&gt; 0048 &lt;/RequestPayload&gt; 0049 &lt;/BatchItem&gt; 0050 &lt;/RequestMessage&gt; </pre>
0051	<pre> &lt;ResponseMessage&gt; 0052 &lt;ResponseHeader&gt; 0053 &lt;ProtocolVersion&gt; 0054 &lt;ProtocolVersionMajor type="Integer" value="1"/&gt; 0055 &lt;ProtocolVersionMinor type="Integer" value="0"/&gt; 0056 &lt;/ProtocolVersion&gt; 0057 &lt;TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/&gt; 0058 &lt;BatchCount type="Integer" value="1"/&gt; 0059 &lt;/ResponseHeader&gt; 0060 &lt;BatchItem&gt; 0061 &lt;Operation type="Enumeration" value="CreateKeyPair"/&gt; 0062 &lt;ResultStatus type="Enumeration" value="Success"/&gt; 0063 &lt;ResponsePayload&gt; 0064 &lt;PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/&gt; 0065 &lt;PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/&gt; 0066 &lt;/ResponsePayload&gt; 0067 &lt;/BatchItem&gt; 0068 &lt;/ResponseMessage&gt; </pre>
0069	<pre> # TIME 1 &lt;RequestMessage&gt; 0070 &lt;RequestHeader&gt; 0071 &lt;ProtocolVersion&gt; 0072 &lt;ProtocolVersionMajor type="Integer" value="1"/&gt; 0073 &lt;ProtocolVersionMinor type="Integer" value="0"/&gt; 0074 &lt;/ProtocolVersion&gt; 0075 &lt;BatchCount type="Integer" value="1"/&gt; 0076 &lt;/RequestHeader&gt; </pre>



```

0077     <BatchItem>
0078         <Operation type="Enumeration" value="GetAttributes"/>
0079         <RequestPayload>
0080             <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0081             <AttributeName type="TextString" value="State"/>
0082             <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0083             <AttributeName type="TextString" value="Unique Identifier"/>
0084             <AttributeName type="TextString" value="Object Type"/>
0085             <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0086             <AttributeName type="TextString" value="Cryptographic
Length"/>
0087             <AttributeName type="TextString" value="Digest"/>
0088             <AttributeName type="TextString" value="Initial Date"/>
0089             <AttributeName type="TextString" value="Last Change Date"/>
0090         </RequestPayload>
0091     </BatchItem>
0092 </RequestMessage>
0093 <ResponseMessage>
0094     <ResponseHeader>
0095         <ProtocolVersion>
0096             <ProtocolVersionMajor type="Integer" value="1"/>
0097             <ProtocolVersionMinor type="Integer" value="0"/>
0098         </ProtocolVersion>
0099         <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0100         <BatchCount type="Integer" value="1"/>
0101     </ResponseHeader>
0102     <BatchItem>
0103         <Operation type="Enumeration" value="GetAttributes"/>
0104         <ResultStatus type="Enumeration" value="Success"/>
0105         <ResponsePayload>
0106             <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0107             <Attribute>
0108                 <AttributeName type="TextString" value="State"/>
0109                 <AttributeValue type="Enumeration" value="PreActive"/>
0110             </Attribute>
0111             <Attribute>
0112                 <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0113                 <AttributeValue type="Integer" value="Sign"/>
0114             </Attribute>
0115             <Attribute>
0116                 <AttributeName type="TextString" value="Unique Identifier"/>
0117                 <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0118             </Attribute>
0119             <Attribute>
0120                 <AttributeName type="TextString" value="Object Type"/>
0121                 <AttributeValue type="Enumeration" value="PrivateKey"/>
0122             </Attribute>
0123             <Attribute>
0124                 <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0125                 <AttributeValue type="Enumeration" value="RSA"/>
0126             </Attribute>

```

0127	<Attribute>
0128	<AttributeName type="TextString" value="Cryptographic Length"/>
0129	<AttributeValue type="Integer" value="2048"/>
0130	</Attribute>
0131	<Attribute>
0132	<AttributeName type="TextString" value="Digest"/>
0133	<AttributeValue>
0134	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0135	<DigestValue type="ByteString" value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9230"/>
0136	</AttributeValue>
0137	</Attribute>
0138	<Attribute>
0139	<AttributeName type="TextString" value="Initial Date"/>
0140	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0141	</Attribute>
0142	<Attribute>
0143	<AttributeName type="TextString" value="Last Change Date"/>
0144	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0145	</Attribute>
0146	</ResponsePayload>
0147	</BatchItem>
0148	</ResponseMessage>
# TIME 2	
0149	<RequestMessage>
0150	<RequestHeader>
0151	<ProtocolVersion>
0152	<ProtocolVersionMajor type="Integer" value="1"/>
0153	<ProtocolVersionMinor type="Integer" value="0"/>
0154	</ProtocolVersion>
0155	<BatchCount type="Integer" value="1"/>
0156	</RequestHeader>
0157	<BatchItem>
0158	<Operation type="Enumeration" value="Activate"/>
0159	<RequestPayload>
0160	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0161	</RequestPayload>
0162	</BatchItem>
0163	</RequestMessage>
0164	<ResponseMessage>
0165	<ResponseHeader>
0166	<ProtocolVersion>
0167	<ProtocolVersionMajor type="Integer" value="1"/>
0168	<ProtocolVersionMinor type="Integer" value="0"/>
0169	</ProtocolVersion>
0170	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0171	<BatchCount type="Integer" value="1"/>
0172	</ResponseHeader>
0173	<BatchItem>
0174	<Operation type="Enumeration" value="Activate"/>
0175	<ResultStatus type="Enumeration" value="Success"/>
0176	<ResponsePayload>
0177	<UniqueIdentifier type="TextString"

0178	value="\$UNIQUE_IDENTIFIER_0"/>
0179	</ResponsePayload>
0180	</BatchItem>
	</ResponseMessage>
	# TIME 3
0181	<RequestMessage>
0182	<RequestHeader>
0183	<ProtocolVersion>
0184	<ProtocolVersionMajor type="Integer" value="1"/>
0185	<ProtocolVersionMinor type="Integer" value="0"/>
0186	</ProtocolVersion>
0187	<BatchCount type="Integer" value="1"/>
0188	</RequestHeader>
0189	<BatchItem>
0190	<Operation type="Enumeration" value="GetAttributes"/>
0191	<RequestPayload>
0192	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0193	<AttributeName type="TextString" value="State"/>
0194	<AttributeName type="TextString" value="Activation Date"/>
0195	<AttributeName type="TextString" value="Deactivation Date"/>
0196	</RequestPayload>
0197	</BatchItem>
0198	</RequestMessage>
0199	<ResponseMessage>
0200	<ResponseHeader>
0201	<ProtocolVersion>
0202	<ProtocolVersionMajor type="Integer" value="1"/>
0203	<ProtocolVersionMinor type="Integer" value="0"/>
0204	</ProtocolVersion>
0205	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0206	<BatchCount type="Integer" value="1"/>
0207	</ResponseHeader>
0208	<BatchItem>
0209	<Operation type="Enumeration" value="GetAttributes"/>
0210	<ResultStatus type="Enumeration" value="Success"/>
0211	<ResponsePayload>
0212	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0213	<Attribute>
0214	<AttributeName type="TextString" value="State"/>
0215	<AttributeValue type="Enumeration" value="Active"/>
0216	</Attribute>
0217	<Attribute>
0218	<AttributeName type="TextString" value="Activation Date"/>
0219	<AttributeValue type="DateTime" value="2013-01-
	10T23:36:01+00:00"/>
0220	</Attribute>
0221	</ResponsePayload>
0222	</BatchItem>
0223	</ResponseMessage>
	# TIME 4
0224	<RequestMessage>
0225	<RequestHeader>
0226	<ProtocolVersion>
0227	<ProtocolVersionMajor type="Integer" value="1"/>
0228	<ProtocolVersionMinor type="Integer" value="0"/>
0229	</ProtocolVersion>

0230	<BatchCount type="Integer" value="1"/>
0231	</RequestHeader>
0232	<BatchItem>
0233	<Operation type="Enumeration" value="GetAttributes"/>
0234	<RequestPayload>
0235	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0236	<AttributeName type="TextString" value="State"/>
0237	<AttributeName type="TextString" value="Activation Date"/>
0238	<AttributeName type="TextString" value="Deactivation Date"/>
0239	</RequestPayload>
0240	</BatchItem>
0241	</RequestMessage>
0242	<ResponseMessage>
0243	<ResponseHeader>
0244	<ProtocolVersion>
0245	<ProtocolVersionMajor type="Integer" value="1"/>
0246	<ProtocolVersionMinor type="Integer" value="0"/>
0247	</ProtocolVersion>
0248	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0249	<BatchCount type="Integer" value="1"/>
0250	</ResponseHeader>
0251	<BatchItem>
0252	<Operation type="Enumeration" value="GetAttributes"/>
0253	<ResultStatus type="Enumeration" value="Success"/>
0254	<ResponsePayload>
0255	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0256	<Attribute>
0257	<AttributeName type="TextString" value="State"/>
0258	<AttributeValue type="Enumeration" value="PreActive"/>
0259	</Attribute>
0260	</ResponsePayload>
0261	</BatchItem>
0262	</ResponseMessage>
	<i># TIME 5</i>
0263	<RequestMessage>
0264	<RequestHeader>
0265	<ProtocolVersion>
0266	<ProtocolVersionMajor type="Integer" value="1"/>
0267	<ProtocolVersionMinor type="Integer" value="0"/>
0268	</ProtocolVersion>
0269	<BatchCount type="Integer" value="1"/>
0270	</RequestHeader>
0271	<BatchItem>
0272	<Operation type="Enumeration" value="Destroy"/>
0273	<RequestPayload>
0274	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0275	</RequestPayload>
0276	</BatchItem>
0277	</RequestMessage>
0278	<ResponseMessage>
0279	<ResponseHeader>
0280	<ProtocolVersion>
0281	<ProtocolVersionMajor type="Integer" value="1"/>
0282	<ProtocolVersionMinor type="Integer" value="0"/>
0283	</ProtocolVersion>

0284	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0285	<BatchCount type="Integer" value="1"/>
0286	</ResponseHeader>
0287	<BatchItem>
0288	<Operation type="Enumeration" value="Destroy"/>
0289	<ResultStatus type="Enumeration" value="OperationFailed"/>
0290	<ResultReason type="Enumeration" value="PermissionDenied"/>
0291	<ResultMessage type="TextString" value="DENIED"/>
0292	</BatchItem>
0293	</ResponseMessage>
# TIME 6	
0294	<RequestMessage>
0295	<RequestHeader>
0296	<ProtocolVersion>
0297	<ProtocolVersionMajor type="Integer" value="1"/>
0298	<ProtocolVersionMinor type="Integer" value="0"/>
0299	</ProtocolVersion>
0300	<BatchCount type="Integer" value="1"/>
0301	</RequestHeader>
0302	<BatchItem>
0303	<Operation type="Enumeration" value="Destroy"/>
0304	<RequestPayload>
0305	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0306	</RequestPayload>
0307	</BatchItem>
0308	</RequestMessage>
0309	<ResponseMessage>
0310	<ResponseHeader>
0311	<ProtocolVersion>
0312	<ProtocolVersionMajor type="Integer" value="1"/>
0313	<ProtocolVersionMinor type="Integer" value="0"/>
0314	</ProtocolVersion>
0315	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0316	<BatchCount type="Integer" value="1"/>
0317	</ResponseHeader>
0318	<BatchItem>
0319	<Operation type="Enumeration" value="Destroy"/>
0320	<ResultStatus type="Enumeration" value="Success"/>
0321	<ResponsePayload>
0322	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0323	</ResponsePayload>
0324	</BatchItem>
0325	</ResponseMessage>
# TIME 7	
0326	<RequestMessage>
0327	<RequestHeader>
0328	<ProtocolVersion>
0329	<ProtocolVersionMajor type="Integer" value="1"/>
0330	<ProtocolVersionMinor type="Integer" value="0"/>
0331	</ProtocolVersion>
0332	<BatchCount type="Integer" value="1"/>
0333	</RequestHeader>
0334	<BatchItem>
0335	<Operation type="Enumeration" value="Revoke"/>
0336	<RequestPayload>
0337	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>

0338	value="\$UNIQUE_IDENTIFIER_0"/>
0339	<RevocationReason>
0340	<RevocationReasonCode type="Enumeration"
0341	value="KeyCompromise"/>
0342	</RevocationReason>
0343	<CompromiseOccurrenceDate type="DateTime" value="1970-01-01T00:00:06+00:00"/>
0344	</RequestPayload>
0345	</BatchItem>
0346	</RequestMessage>
0347	<ResponseMessage>
0348	<ResponseHeader>
0349	<ProtocolVersion>
0350	<ProtocolVersionMajor type="Integer" value="1"/>
0351	<ProtocolVersionMinor type="Integer" value="0"/>
0352	</ProtocolVersion>
0353	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0354	<BatchCount type="Integer" value="1"/>
0355	</ResponseHeader>
0356	<BatchItem>
0357	<Operation type="Enumeration" value="Revoke"/>
0358	<ResultStatus type="Enumeration" value="Success"/>
0359	<ResponsePayload>
0360	<UniqueIdentifier type="TextString"
0361	value="\$UNIQUE_IDENTIFIER_0"/>
0362	</ResponsePayload>
0363	</BatchItem>
0364	</ResponseMessage>
0365	# TIME 8
0366	<RequestMessage>
0367	<RequestHeader>
0368	<ProtocolVersion>
0369	<ProtocolVersionMajor type="Integer" value="1"/>
0370	<ProtocolVersionMinor type="Integer" value="0"/>
0371	</ProtocolVersion>
0372	<BatchCount type="Integer" value="1"/>
0373	</RequestHeader>
0374	<BatchItem>
0375	<Operation type="Enumeration" value="GetAttributes"/>
0376	<RequestPayload>
0377	<UniqueIdentifier type="TextString"
0378	value="\$UNIQUE_IDENTIFIER_0"/>
0379	<AttributeName type="TextString" value="State"/>
0380	</RequestPayload>
0381	</BatchItem>
0382	</RequestMessage>
0383	<ResponseMessage>
0384	<ResponseHeader>
0385	<ProtocolVersion>
0386	<ProtocolVersionMajor type="Integer" value="1"/>
0387	<ProtocolVersionMinor type="Integer" value="0"/>
0388	</ProtocolVersion>
0389	<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"/>

0390	<ResponsePayload>
0391	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0392	<Attribute>
0393	<AttributeName type="TextString" value="State"/>
0394	<AttributeValue type="Enumeration" value="Compromised"/>
0395	</Attribute>
0396	</ResponsePayload>
0397	</BatchItem>
0398	</ResponseMessage>
# TIME 9	
0399	<RequestMessage>
0400	<RequestHeader>
0401	<ProtocolVersion>
0402	<ProtocolVersionMajor type="Integer" value="1"/>
0403	<ProtocolVersionMinor type="Integer" value="0"/>
0404	</ProtocolVersion>
0405	<BatchCount type="Integer" value="1"/>
0406	</RequestHeader>
0407	<BatchItem>
0408	<Operation type="Enumeration" value="Destroy"/>
0409	<RequestPayload>
0410	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0411	</RequestPayload>
0412	</BatchItem>
0413	</RequestMessage>
0414	<ResponseMessage>
0415	<ResponseHeader>
0416	<ProtocolVersion>
0417	<ProtocolVersionMajor type="Integer" value="1"/>
0418	<ProtocolVersionMinor type="Integer" value="0"/>
0419	</ProtocolVersion>
0420	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0421	<BatchCount type="Integer" value="1"/>
0422	</ResponseHeader>
0423	<BatchItem>
0424	<Operation type="Enumeration" value="Destroy"/>
0425	<ResultStatus type="Enumeration" value="Success"/>
0426	<ResponsePayload>
0427	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0428	</ResponsePayload>
0429	</BatchItem>
0430	</ResponseMessage>

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### 139 3.1.3 AKLC-M-3-10

140 CreateKeyPair, 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="CreateKeyPair"/>
0011	<RequestPayload>
0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-3-10- private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-3-10- public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="0"/>
0056	</ProtocolVersion>



0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1 <RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="0"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	</RequestPayload>
0091	</BatchItem>
0092	</RequestMessage>
0093	<ResponseMessage>
0094	<ResponseHeader>
0095	<ProtocolVersion>
0096	<ProtocolVersionMajor type="Integer" value="1"/>
0097	<ProtocolVersionMinor type="Integer" value="0"/>
0098	</ProtocolVersion>
0099	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0100	<BatchCount type="Integer" value="1"/>
0101	</ResponseHeader>
0102	<BatchItem>
0103	<Operation type="Enumeration" value="GetAttributes"/>
0104	<ResultStatus type="Enumeration" value="Success"/>
0105	<ResponsePayload>
0106	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>

```

0107     <Attribute>
0108         <AttributeName type="TextString" value="State"/>
0109         <AttributeValue type="Enumeration" value="PreActive"/>
0110     </Attribute>
0111     <Attribute>
0112         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0113         <AttributeValue type="Integer" value="Sign"/>
0114     </Attribute>
0115     <Attribute>
0116         <AttributeName type="TextString" value="Unique Identifier"/>
0117         <AttributeValue type="TextString"
value=":$UNIQUE_IDENTIFIER_0"/>
0118     </Attribute>
0119     <Attribute>
0120         <AttributeName type="TextString" value="Object Type"/>
0121         <AttributeValue type="Enumeration" value="PrivateKey"/>
0122     </Attribute>
0123     <Attribute>
0124         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0125         <AttributeValue type="Enumeration" value="RSA"/>
0126     </Attribute>
0127     <Attribute>
0128         <AttributeName type="TextString" value="Cryptographic
Length"/>
0129         <AttributeValue type="Integer" value="2048"/>
0130     </Attribute>
0131     <Attribute>
0132         <AttributeName type="TextString" value="Digest"/>
0133         <AttributeValue>
0134             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0135             <DigestValue type="ByteString"
value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
230"/>
0136         </AttributeValue>
0137     </Attribute>
0138     <Attribute>
0139         <AttributeName type="TextString" value="Initial Date"/>
0140         <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0141     </Attribute>
0142     <Attribute>
0143         <AttributeName type="TextString" value="Last Change Date"/>
0144         <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0145     </Attribute>
0146 </ResponsePayload>
0147 </BatchItem>
0148 </ResponseMessage>
# TIME 2
0149 <RequestMessage>
0150     <RequestHeader>
0151         <ProtocolVersion>
0152             <ProtocolVersionMajor type="Integer" value="1"/>
0153             <ProtocolVersionMinor type="Integer" value="0"/>
0154         </ProtocolVersion>
0155         <BatchCount type="Integer" value="1"/>

```

0156	</RequestHeader>
0157	<BatchItem>
0158	<Operation type="Enumeration" value="Activate"/>
0159	<RequestPayload>
0160	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0161	</RequestPayload>
0162	</BatchItem>
0163	</RequestMessage>
0164	<ResponseMessage>
0165	<ResponseHeader>
0166	<ProtocolVersion>
0167	<ProtocolVersionMajor type="Integer" value="1"/>
0168	<ProtocolVersionMinor type="Integer" value="0"/>
0169	</ProtocolVersion>
0170	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0171	<BatchCount type="Integer" value="1"/>
0172	</ResponseHeader>
0173	<BatchItem>
0174	<Operation type="Enumeration" value="Activate"/>
0175	<ResultStatus type="Enumeration" value="Success"/>
0176	<ResponsePayload>
0177	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0178	</ResponsePayload>
0179	</BatchItem>
0180	</ResponseMessage>
	# TIME 3
0181	<RequestMessage>
0182	<RequestHeader>
0183	<ProtocolVersion>
0184	<ProtocolVersionMajor type="Integer" value="1"/>
0185	<ProtocolVersionMinor type="Integer" value="0"/>
0186	</ProtocolVersion>
0187	<BatchCount type="Integer" value="1"/>
0188	</RequestHeader>
0189	<BatchItem>
0190	<Operation type="Enumeration" value="GetAttributes"/>
0191	<RequestPayload>
0192	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0193	<AttributeName type="TextString" value="State"/>
0194	<AttributeName type="TextString" value="Activation Date"/>
0195	<AttributeName type="TextString" value="Deactivation Date"/>
0196	</RequestPayload>
0197	</BatchItem>
0198	</RequestMessage>
0199	<ResponseMessage>
0200	<ResponseHeader>
0201	<ProtocolVersion>
0202	<ProtocolVersionMajor type="Integer" value="1"/>
0203	<ProtocolVersionMinor type="Integer" value="0"/>
0204	</ProtocolVersion>
0205	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0206	<BatchCount type="Integer" value="1"/>
0207	</ResponseHeader>
0208	<BatchItem>
0209	<Operation type="Enumeration" value="GetAttributes"/>

0210	<ResultStatus type="Enumeration" value="Success"/>
0211	<ResponsePayload>
0212	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0213	<Attribute>
0214	<AttributeName type="TextString" value="State"/>
0215	<AttributeValue type="Enumeration" value="Active"/>
0216	</Attribute>
0217	<Attribute>
0218	<AttributeName type="TextString" value="Activation Date"/>
0219	<AttributeValue type="DateTime" value="2013-01- 10T23:36:01+00:00"/>
0220	</Attribute>
0221	</ResponsePayload>
0222	</BatchItem>
0223	</ResponseMessage>
	# TIME 4
0224	<RequestMessage>
0225	<RequestHeader>
0226	<ProtocolVersion>
0227	<ProtocolVersionMajor type="Integer" value="1"/>
0228	<ProtocolVersionMinor type="Integer" value="0"/>
0229	</ProtocolVersion>
0230	<BatchCount type="Integer" value="1"/>
0231	</RequestHeader>
0232	<BatchItem>
0233	<Operation type="Enumeration" value="ModifyAttribute"/>
0234	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0235	<RequestPayload>
0236	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0237	<Attribute>
0238	<AttributeName type="TextString" value="Activation Date"/>
0239	<AttributeValue type="DateTime" value="\$NOW"/>
0240	</Attribute>
0241	</RequestPayload>
0242	</BatchItem>
0243	</RequestMessage>
0244	<ResponseMessage>
0245	<ResponseHeader>
0246	<ProtocolVersion>
0247	<ProtocolVersionMajor type="Integer" value="1"/>
0248	<ProtocolVersionMinor type="Integer" value="0"/>
0249	</ProtocolVersion>
0250	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0251	<BatchCount type="Integer" value="1"/>
0252	</ResponseHeader>
0253	<BatchItem>
0254	<Operation type="Enumeration" value="ModifyAttribute"/>
0255	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0256	<ResultStatus type="Enumeration" value="OperationFailed"/>
0257	<ResultReason type="Enumeration" value="PermissionDenied"/>
0258	<ResultMessage type="TextString" value="DENIED"/>
0259	</BatchItem>
0260	</ResponseMessage>
	# TIME 5
0261	<RequestMessage>
0262	<RequestHeader>

0263	<ProtocolVersion>
0264	<ProtocolVersionMajor type="Integer" value="1"/>
0265	<ProtocolVersionMinor type="Integer" value="0"/>
0266	</ProtocolVersion>
0267	<BatchCount type="Integer" value="1"/>
0268	</RequestHeader>
0269	<BatchItem>
0270	<Operation type="Enumeration" value="Revoke"/>
0271	<RequestPayload>
0272	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0273	<RevocationReason>
0274	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>
0275	</RevocationReason>
0276	<CompromiseOccurrenceDate type="DateTime" value="1970-01-
	01T00:00:06+00:00"/>
0277	</RequestPayload>
0278	</BatchItem>
0279	</RequestMessage>
0280	<ResponseMessage>
0281	<ResponseHeader>
0282	<ProtocolVersion>
0283	<ProtocolVersionMajor type="Integer" value="1"/>
0284	<ProtocolVersionMinor type="Integer" value="0"/>
0285	</ProtocolVersion>
0286	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0287	<BatchCount type="Integer" value="1"/>
0288	</ResponseHeader>
0289	<BatchItem>
0290	<Operation type="Enumeration" value="Revoke"/>
0291	<ResultStatus type="Enumeration" value="Success"/>
0292	<ResponsePayload>
0293	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0294	</ResponsePayload>
0295	</BatchItem>
0296	</ResponseMessage>
0297	# TIME 6 <RequestMessage>
0298	<RequestHeader>
0299	<ProtocolVersion>
0300	<ProtocolVersionMajor type="Integer" value="1"/>
0301	<ProtocolVersionMinor type="Integer" value="0"/>
0302	</ProtocolVersion>
0303	<BatchCount type="Integer" value="1"/>
0304	</RequestHeader>
0305	<BatchItem>
0306	<Operation type="Enumeration" value="GetAttributes"/>
0307	<RequestPayload>
0308	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0309	<AttributeName type="TextString" value="State"/>
0310	</RequestPayload>
0311	</BatchItem>
0312	</RequestMessage>
0313	<ResponseMessage>
0314	<ResponseHeader>

0315	<ProtocolVersion>
0316	<ProtocolVersionMajor type="Integer" value="1"/>
0317	<ProtocolVersionMinor type="Integer" value="0"/>
0318	</ProtocolVersion>
0319	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0320	<BatchCount type="Integer" value="1"/>
0321	</ResponseHeader>
0322	<BatchItem>
0323	<Operation type="Enumeration" value="GetAttributes"/>
0324	<ResultStatus type="Enumeration" value="Success"/>
0325	<ResponsePayload>
0326	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0327	<Attribute>
0328	<AttributeName type="TextString" value="State"/>
0329	<AttributeValue type="Enumeration" value="Compromised"/>
0330	</Attribute>
0331	</ResponsePayload>
0332	</BatchItem>
0333	</ResponseMessage>
	# TIME 7
0334	<RequestMessage>
0335	<RequestHeader>
0336	<ProtocolVersion>
0337	<ProtocolVersionMajor type="Integer" value="1"/>
0338	<ProtocolVersionMinor type="Integer" value="0"/>
0339	</ProtocolVersion>
0340	<BatchCount type="Integer" value="1"/>
0341	</RequestHeader>
0342	<BatchItem>
0343	<Operation type="Enumeration" value="GetAttributes"/>
0344	<RequestPayload>
0345	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0346	<AttributeName type="TextString" value="State"/>
0347	</RequestPayload>
0348	</BatchItem>
0349	</RequestMessage>
0350	<ResponseMessage>
0351	<ResponseHeader>
0352	<ProtocolVersion>
0353	<ProtocolVersionMajor type="Integer" value="1"/>
0354	<ProtocolVersionMinor type="Integer" value="0"/>
0355	</ProtocolVersion>
0356	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0357	<BatchCount type="Integer" value="1"/>
0358	</ResponseHeader>
0359	<BatchItem>
0360	<Operation type="Enumeration" value="GetAttributes"/>
0361	<ResultStatus type="Enumeration" value="Success"/>
0362	<ResponsePayload>
0363	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0364	<Attribute>
0365	<AttributeName type="TextString" value="State"/>
0366	<AttributeValue type="Enumeration" value="PreActive"/>
0367	</Attribute>
0368	</ResponsePayload>

0369	</BatchItem>
0370	</ResponseMessage>
	# TIME 8
0371	<RequestMessage>
0372	<RequestHeader>
0373	<ProtocolVersion>
0374	<ProtocolVersionMajor type="Integer" value="1"/>
0375	<ProtocolVersionMinor type="Integer" value="0"/>
0376	</ProtocolVersion>
0377	<BatchCount type="Integer" value="1"/>
0378	</RequestHeader>
0379	<BatchItem>
0380	<Operation type="Enumeration" value="Destroy"/>
0381	<RequestPayload>
0382	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0383	</RequestPayload>
0384	</BatchItem>
0385	</RequestMessage>
0386	<ResponseMessage>
0387	<ResponseHeader>
0388	<ProtocolVersion>
0389	<ProtocolVersionMajor type="Integer" value="1"/>
0390	<ProtocolVersionMinor type="Integer" value="0"/>
0391	</ProtocolVersion>
0392	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0393	<BatchCount type="Integer" value="1"/>
0394	</ResponseHeader>
0395	<BatchItem>
0396	<Operation type="Enumeration" value="Destroy"/>
0397	<ResultStatus type="Enumeration" value="Success"/>
0398	<ResponsePayload>
0399	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0400	</ResponsePayload>
0401	</BatchItem>
0402	</ResponseMessage>
	# TIME 9
0403	<RequestMessage>
0404	<RequestHeader>
0405	<ProtocolVersion>
0406	<ProtocolVersionMajor type="Integer" value="1"/>
0407	<ProtocolVersionMinor type="Integer" value="0"/>
0408	</ProtocolVersion>
0409	<BatchCount type="Integer" value="1"/>
0410	</RequestHeader>
0411	<BatchItem>
0412	<Operation type="Enumeration" value="Destroy"/>
0413	<RequestPayload>
0414	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0415	</RequestPayload>
0416	</BatchItem>
0417	</RequestMessage>
0418	<ResponseMessage>
0419	<ResponseHeader>
0420	<ProtocolVersion>
0421	<ProtocolVersionMajor type="Integer" value="1"/>

```

0422     <ProtocolVersionMinor type="Integer" value="0"/>
0423     </ProtocolVersion>
0424     <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0425     <BatchCount type="Integer" value="1"/>
0426     </ResponseHeader>
0427     <BatchItem>
0428         <Operation type="Enumeration" value="Destroy"/>
0429         <ResultStatus type="Enumeration" value="Success"/>
0430         <ResponsePayload>
0431             <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0432         </ResponsePayload>
0433     </BatchItem>
0434 </ResponseMessage>

```

141

## 142 3.2 Mandatory Test Cases KMIP 4v1.1

143 ~~This section documents the mandatory test cases that a client or server conformant to the Asymmetric~~  
144 ~~Key Lifecycle Profile SHALL support under KMIP Specification 1.1.~~

### 145 3.2.1 AKLC-M-1-11

146 CreateKeyPair, GetAttributes, 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="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015           <AttributeValue type="Enumeration" value="RSA"/>
0016         </Attribute>
0017         <Attribute>
0018           <AttributeName type="TextString" value="Cryptographic
Length"/>
0019           <AttributeValue type="Integer" value="2048"/>
0020         </Attribute>
0021       </CommonTemplateAttribute>
0022       <PrivateKeyTemplateAttribute>
0023         <Attribute>
0024           <AttributeName type="TextString" value="Name"/>
0025           <AttributeValue>
0026             <NameValue type="TextString" value="AKLC-M-1-11-
private"/>
0027             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0028           </AttributeValue>

```



0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-1-11-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="1"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	<i># TIME 1</i> <RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="1"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>

```

0080     <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0081     <AttributeName type="TextString" value="State"/>
0082     <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0083     <AttributeName type="TextString" value="Unique Identifier"/>
0084     <AttributeName type="TextString" value="Object Type"/>
0085     <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0086     <AttributeName type="TextString" value="Cryptographic
Length"/>
0087     <AttributeName type="TextString" value="Digest"/>
0088     <AttributeName type="TextString" value="Initial Date"/>
0089     <AttributeName type="TextString" value="Last Change Date"/>
0090     <AttributeName type="TextString" value="Activation Date"/>
0091     </RequestPayload>
0092 </BatchItem>
0093 </RequestMessage>
0094 <ResponseMessage>
0095   <ResponseHeader>
0096     <ProtocolVersion>
0097       <ProtocolVersionMajor type="Integer" value="1"/>
0098       <ProtocolVersionMinor type="Integer" value="1"/>
0099     </ProtocolVersion>
0100     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101     <BatchCount type="Integer" value="1"/>
0102   </ResponseHeader>
0103   <BatchItem>
0104     <Operation type="Enumeration" value="GetAttributes"/>
0105     <ResultStatus type="Enumeration" value="Success"/>
0106     <ResponsePayload>
0107       <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0108       <Attribute>
0109         <AttributeName type="TextString" value="State"/>
0110         <AttributeValue type="Enumeration" value="PreActive"/>
0111       </Attribute>
0112       <Attribute>
0113         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0114         <AttributeValue type="Integer" value="Sign"/>
0115       </Attribute>
0116       <Attribute>
0117         <AttributeName type="TextString" value="Unique Identifier"/>
0118         <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0119       </Attribute>
0120       <Attribute>
0121         <AttributeName type="TextString" value="Object Type"/>
0122         <AttributeValue type="Enumeration" value="PrivateKey"/>
0123       </Attribute>
0124       <Attribute>
0125         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0126         <AttributeValue type="Enumeration" value="RSA"/>
0127       </Attribute>
0128       <Attribute>
0129         <AttributeName type="TextString" value="Cryptographic

```

0130	Length"/>
0131	<AttributeValue type="Integer" value="2048"/>
0132	</Attribute>
0133	<Attribute>
0134	<AttributeName type="TextString" value="Digest"/>
0135	<AttributeValue>
0136	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
	<DigestValue type="ByteString"
	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
	230"/>
0137	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0138	</AttributeValue>
0139	</Attribute>
0140	<Attribute>
0141	<AttributeName type="TextString" value="Initial Date"/>
0142	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0143	</Attribute>
0144	<Attribute>
0145	<AttributeName type="TextString" value="Last Change Date"/>
0146	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0147	</Attribute>
0148	</ResponsePayload>
0149	</BatchItem>
0150	</ResponseMessage>
	# TIME 2
0151	<RequestMessage>
0152	<RequestHeader>
0153	<ProtocolVersion>
0154	<ProtocolVersionMajor type="Integer" value="1"/>
0155	<ProtocolVersionMinor type="Integer" value="1"/>
0156	</ProtocolVersion>
0157	<BatchCount type="Integer" value="1"/>
0158	</RequestHeader>
0159	<BatchItem>
0160	<Operation type="Enumeration" value="GetAttributes"/>
0161	<RequestPayload>
0162	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0163	<AttributeName type="TextString" value="State"/>
0164	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0165	<AttributeName type="TextString" value="Unique Identifier"/>
0166	<AttributeName type="TextString" value="Object Type"/>
0167	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0168	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0169	<AttributeName type="TextString" value="Digest"/>
0170	<AttributeName type="TextString" value="Initial Date"/>
0171	<AttributeName type="TextString" value="Last Change Date"/>
0172	<AttributeName type="TextString" value="Activation Date"/>
0173	</RequestPayload>
0174	</BatchItem>
0175	</RequestMessage>
0176	<ResponseMessage>
0177	<ResponseHeader>

```

0178     <ProtocolVersion>
0179         <ProtocolVersionMajor type="Integer" value="1"/>
0180         <ProtocolVersionMinor type="Integer" value="1"/>
0181     </ProtocolVersion>
0182     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0183     <BatchCount type="Integer" value="1"/>
0184 </ResponseHeader>
0185 <BatchItem>
0186     <Operation type="Enumeration" value="GetAttributes"/>
0187     <ResultStatus type="Enumeration" value="Success"/>
0188     <ResponsePayload>
0189         <UniqueIdentifier type="TextString"
0190 value="$UNIQUE_IDENTIFIER_1"/>
0191         <Attribute>
0192             <AttributeName type="TextString" value="State"/>
0193             <AttributeValue type="Enumeration" value="PreActive"/>
0194         </Attribute>
0195         <Attribute>
0196             <AttributeName type="TextString" value="Cryptographic Usage
0197 Mask"/>
0198             <AttributeValue type="Integer" value="Verify"/>
0199         </Attribute>
0200         <Attribute>
0201             <AttributeName type="TextString" value="Unique Identifier"/>
0202             <AttributeValue type="TextString"
0203 value="$UNIQUE_IDENTIFIER_1"/>
0204         </Attribute>
0205         <Attribute>
0206             <AttributeName type="TextString" value="Object Type"/>
0207             <AttributeValue type="Enumeration" value="PublicKey"/>
0208         </Attribute>
0209         <Attribute>
0210             <AttributeName type="TextString" value="Cryptographic
0211 Algorithm"/>
0212             <AttributeValue type="Enumeration" value="RSA"/>
0213         </Attribute>
0214         <Attribute>
0215             <AttributeName type="TextString" value="Cryptographic
0216 Length"/>
0217             <AttributeValue type="Integer" value="2048"/>
0218         </Attribute>
0219         <Attribute>
0220             <AttributeName type="TextString" value="Digest"/>
0221             <AttributeValue>
0222                 <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0223                 <DigestValue type="ByteString"
0224 value="82bcff8afab753809db804e654013ded708c3996a50c6ce9313f9b3915442
0225 ce9"/>
0226             </AttributeValue>
0227             <KeyFormatType type="Enumeration" value="PKCS_1"/>
0228         </Attribute>
0229         <Attribute>
0230             <AttributeName type="TextString" value="Initial Date"/>
0231             <AttributeValue type="DateTime" value="2013-01-
0232 11T08:19:49+00:00"/>
0233         </Attribute>
0234         <Attribute>
0235             <AttributeName type="TextString" value="Last Change Date"/>

```

0228	<AttributeValue type="DateTime" value="2013-01-11T08:19:49+00:00"/>
0229	</Attribute>
0230	</ResponsePayload>
0231	</BatchItem>
0232	</ResponseMessage>
	# TIME 3
0233	<RequestMessage>
0234	<RequestHeader>
0235	<ProtocolVersion>
0236	<ProtocolVersionMajor type="Integer" value="1"/>
0237	<ProtocolVersionMinor type="Integer" value="1"/>
0238	</ProtocolVersion>
0239	<BatchCount type="Integer" value="1"/>
0240	</RequestHeader>
0241	<BatchItem>
0242	<Operation type="Enumeration" value="Destroy"/>
0243	<RequestPayload>
0244	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0245	</RequestPayload>
0246	</BatchItem>
0247	</RequestMessage>
0248	<ResponseMessage>
0249	<ResponseHeader>
0250	<ProtocolVersion>
0251	<ProtocolVersionMajor type="Integer" value="1"/>
0252	<ProtocolVersionMinor type="Integer" value="1"/>
0253	</ProtocolVersion>
0254	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0255	<BatchCount type="Integer" value="1"/>
0256	</ResponseHeader>
0257	<BatchItem>
0258	<Operation type="Enumeration" value="Destroy"/>
0259	<ResultStatus type="Enumeration" value="Success"/>
0260	<ResponsePayload>
0261	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0262	</ResponsePayload>
0263	</BatchItem>
0264	</ResponseMessage>
	# TIME 4
0265	<RequestMessage>
0266	<RequestHeader>
0267	<ProtocolVersion>
0268	<ProtocolVersionMajor type="Integer" value="1"/>
0269	<ProtocolVersionMinor type="Integer" value="1"/>
0270	</ProtocolVersion>
0271	<BatchCount type="Integer" value="1"/>
0272	</RequestHeader>
0273	<BatchItem>
0274	<Operation type="Enumeration" value="Destroy"/>
0275	<RequestPayload>
0276	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0277	</RequestPayload>
0278	</BatchItem>
0279	</RequestMessage>

```

0280 <ResponseMessage>
0281   <ResponseHeader>
0282     <ProtocolVersion>
0283       <ProtocolVersionMajor type="Integer" value="1"/>
0284       <ProtocolVersionMinor type="Integer" value="1"/>
0285     </ProtocolVersion>
0286     <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0287     <BatchCount type="Integer" value="1"/>
0288   </ResponseHeader>
0289   <BatchItem>
0290     <Operation type="Enumeration" value="Destroy"/>
0291     <ResultStatus type="Enumeration" value="Success"/>
0292     <ResponsePayload>
0293       <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0294     </ResponsePayload>
0295   </BatchItem>
0296 </ResponseMessage>

```

147

### 148 3.2.2 AKLC-M-2-11

149 CreateKeyPair, 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="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015           <AttributeValue type="Enumeration" value="RSA"/>
0016         </Attribute>
0017         <Attribute>
0018           <AttributeName type="TextString" value="Cryptographic
Length"/>
0019           <AttributeValue type="Integer" value="2048"/>
0020         </Attribute>
0021       </CommonTemplateAttribute>
0022       <PrivateKeyTemplateAttribute>
0023         <Attribute>
0024           <AttributeName type="TextString" value="Name"/>
0025           <AttributeValue>
0026             <NameValue type="TextString" value="AKLC-M-2-11-
private"/>
0027             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0028           </AttributeValue>
0029         </Attribute>

```

0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-2-11-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="1"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1 <RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="1"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"

```

0081     value="$UNIQUE_IDENTIFIER_0"/>
0082     <AttributeName type="TextString" value="State"/>
0083     <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0084     <AttributeName type="TextString" value="Unique Identifier"/>
0085     <AttributeName type="TextString" value="Object Type"/>
0086     <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0087     <AttributeName type="TextString" value="Cryptographic
Length"/>
0088     <AttributeName type="TextString" value="Digest"/>
0089     <AttributeName type="TextString" value="Initial Date"/>
0090     <AttributeName type="TextString" value="Last Change Date"/>
0091 </RequestPayload>
0092 </BatchItem>
0093 </RequestMessage>
0094 <ResponseMessage>
0095 <ResponseHeader>
0096 <ProtocolVersion>
0097 <ProtocolVersionMajor type="Integer" value="1"/>
0098 <ProtocolVersionMinor type="Integer" value="1"/>
0099 </ProtocolVersion>
0100 <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101 <BatchCount type="Integer" value="1"/>
0102 </ResponseHeader>
0103 <BatchItem>
0104 <Operation type="Enumeration" value="GetAttributes"/>
0105 <ResultStatus type="Enumeration" value="Success"/>
0106 <ResponsePayload>
0107 <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0108 <Attribute>
0109 <AttributeName type="TextString" value="State"/>
0110 <AttributeValue type="Enumeration" value="PreActive"/>
0111 </Attribute>
0112 <Attribute>
0113 <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0114 <AttributeValue type="Integer" value="Sign"/>
0115 </Attribute>
0116 <Attribute>
0117 <AttributeName type="TextString" value="Unique Identifier"/>
0118 <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0119 </Attribute>
0120 <Attribute>
0121 <AttributeName type="TextString" value="Object Type"/>
0122 <AttributeValue type="Enumeration" value="PrivateKey"/>
0123 </Attribute>
0124 <Attribute>
0125 <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0126 <AttributeValue type="Enumeration" value="RSA"/>
0127 </Attribute>
0128 <Attribute>
0129 <AttributeName type="TextString" value="Cryptographic
Length"/>
0130 <AttributeValue type="Integer" value="2048"/>

```



0130	</Attribute>
0131	<Attribute>
0132	<AttributeName type="TextString" value="Digest"/>
0133	<AttributeValue>
0134	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0135	<DigestValue type="ByteString"
	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
	230"/>
0136	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0137	</AttributeValue>
0138	</Attribute>
0139	<Attribute>
0140	<AttributeName type="TextString" value="Initial Date"/>
0141	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0142	</Attribute>
0143	<Attribute>
0144	<AttributeName type="TextString" value="Last Change Date"/>
0145	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0146	</Attribute>
0147	</ResponsePayload>
0148	</BatchItem>
0149	</ResponseMessage>
	# TIME 2
0150	<RequestMessage>
0151	<RequestHeader>
0152	<ProtocolVersion>
0153	<ProtocolVersionMajor type="Integer" value="1"/>
0154	<ProtocolVersionMinor type="Integer" value="1"/>
0155	</ProtocolVersion>
0156	<BatchCount type="Integer" value="1"/>
0157	</RequestHeader>
0158	<BatchItem>
0159	<Operation type="Enumeration" value="Activate"/>
0160	<RequestPayload>
0161	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0162	</RequestPayload>
0163	</BatchItem>
0164	</RequestMessage>
0165	<ResponseMessage>
0166	<ResponseHeader>
0167	<ProtocolVersion>
0168	<ProtocolVersionMajor type="Integer" value="1"/>
0169	<ProtocolVersionMinor type="Integer" value="1"/>
0170	</ProtocolVersion>
0171	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0172	<BatchCount type="Integer" value="1"/>
0173	</ResponseHeader>
0174	<BatchItem>
0175	<Operation type="Enumeration" value="Activate"/>
0176	<ResultStatus type="Enumeration" value="Success"/>
0177	<ResponsePayload>
0178	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0179	</ResponsePayload>
0180	</BatchItem>

0181	</ResponseMessage>
	# TIME 3
0182	<RequestMessage>
0183	<RequestHeader>
0184	<ProtocolVersion>
0185	<ProtocolVersionMajor type="Integer" value="1"/>
0186	<ProtocolVersionMinor type="Integer" value="1"/>
0187	</ProtocolVersion>
0188	<BatchCount type="Integer" value="1"/>
0189	</RequestHeader>
0190	<BatchItem>
0191	<Operation type="Enumeration" value="GetAttributes"/>
0192	<RequestPayload>
0193	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0194	<AttributeName type="TextString" value="State"/>
0195	<AttributeName type="TextString" value="Activation Date"/>
0196	<AttributeName type="TextString" value="Deactivation Date"/>
0197	</RequestPayload>
0198	</BatchItem>
0199	</RequestMessage>
0200	<ResponseMessage>
0201	<ResponseHeader>
0202	<ProtocolVersion>
0203	<ProtocolVersionMajor type="Integer" value="1"/>
0204	<ProtocolVersionMinor type="Integer" value="1"/>
0205	</ProtocolVersion>
0206	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0207	<BatchCount type="Integer" value="1"/>
0208	</ResponseHeader>
0209	<BatchItem>
0210	<Operation type="Enumeration" value="GetAttributes"/>
0211	<ResultStatus type="Enumeration" value="Success"/>
0212	<ResponsePayload>
0213	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0214	<Attribute>
0215	<AttributeName type="TextString" value="State"/>
0216	<AttributeValue type="Enumeration" value="Active"/>
0217	</Attribute>
0218	<Attribute>
0219	<AttributeName type="TextString" value="Activation Date"/>
0220	<AttributeValue type="DateTime" value="2013-01-10T23:36:01+00:00"/>
0221	</Attribute>
0222	</ResponsePayload>
0223	</BatchItem>
0224	</ResponseMessage>
	# TIME 4
0225	<RequestMessage>
0226	<RequestHeader>
0227	<ProtocolVersion>
0228	<ProtocolVersionMajor type="Integer" value="1"/>
0229	<ProtocolVersionMinor type="Integer" value="1"/>
0230	</ProtocolVersion>
0231	<BatchCount type="Integer" value="1"/>
0232	</RequestHeader>
0233	<BatchItem>

0234	<Operation type="Enumeration" value="GetAttributes"/>
0235	<RequestPayload>
0236	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0237	<AttributeName type="TextString" value="State"/>
0238	<AttributeName type="TextString" value="Activation Date"/>
0239	<AttributeName type="TextString" value="Deactivation Date"/>
0240	</RequestPayload>
0241	</BatchItem>
0242	</RequestMessage>
0243	<ResponseMessage>
0244	<ResponseHeader>
0245	<ProtocolVersion>
0246	<ProtocolVersionMajor type="Integer" value="1"/>
0247	<ProtocolVersionMinor type="Integer" value="1"/>
0248	</ProtocolVersion>
0249	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0250	<BatchCount type="Integer" value="1"/>
0251	</ResponseHeader>
0252	<BatchItem>
0253	<Operation type="Enumeration" value="GetAttributes"/>
0254	<ResultStatus type="Enumeration" value="Success"/>
0255	<ResponsePayload>
0256	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0257	<Attribute>
0258	<AttributeName type="TextString" value="State"/>
0259	<AttributeValue type="Enumeration" value="PreActive"/>
0260	</Attribute>
0261	</ResponsePayload>
0262	</BatchItem>
0263	</ResponseMessage>
	# TIME 5
0264	<RequestMessage>
0265	<RequestHeader>
0266	<ProtocolVersion>
0267	<ProtocolVersionMajor type="Integer" value="1"/>
0268	<ProtocolVersionMinor type="Integer" value="1"/>
0269	</ProtocolVersion>
0270	<BatchCount type="Integer" value="1"/>
0271	</RequestHeader>
0272	<BatchItem>
0273	<Operation type="Enumeration" value="Destroy"/>
0274	<RequestPayload>
0275	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0276	</RequestPayload>
0277	</BatchItem>
0278	</RequestMessage>
0279	<ResponseMessage>
0280	<ResponseHeader>
0281	<ProtocolVersion>
0282	<ProtocolVersionMajor type="Integer" value="1"/>
0283	<ProtocolVersionMinor type="Integer" value="1"/>
0284	</ProtocolVersion>
0285	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0286	<BatchCount type="Integer" value="1"/>
0287	</ResponseHeader>

0288	<BatchItem>
0289	<Operation type="Enumeration" value="Destroy"/>
0290	<ResultStatus type="Enumeration" value="OperationFailed"/>
0291	<ResultReason type="Enumeration" value="PermissionDenied"/>
0292	<ResultMessage type="TextString" value="DENIED"/>
0293	</BatchItem>
0294	</ResponseMessage>
# TIME 6	
0295	<RequestMessage>
0296	<RequestHeader>
0297	<ProtocolVersion>
0298	<ProtocolVersionMajor type="Integer" value="1"/>
0299	<ProtocolVersionMinor type="Integer" value="1"/>
0300	</ProtocolVersion>
0301	<BatchCount type="Integer" value="1"/>
0302	</RequestHeader>
0303	<BatchItem>
0304	<Operation type="Enumeration" value="Destroy"/>
0305	<RequestPayload>
0306	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0307	</RequestPayload>
0308	</BatchItem>
0309	</RequestMessage>
0310	<ResponseMessage>
0311	<ResponseHeader>
0312	<ProtocolVersion>
0313	<ProtocolVersionMajor type="Integer" value="1"/>
0314	<ProtocolVersionMinor type="Integer" value="1"/>
0315	</ProtocolVersion>
0316	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0317	<BatchCount type="Integer" value="1"/>
0318	</ResponseHeader>
0319	<BatchItem>
0320	<Operation type="Enumeration" value="Destroy"/>
0321	<ResultStatus type="Enumeration" value="Success"/>
0322	<ResponsePayload>
0323	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0324	</ResponsePayload>
0325	</BatchItem>
0326	</ResponseMessage>
# TIME 7	
0327	<RequestMessage>
0328	<RequestHeader>
0329	<ProtocolVersion>
0330	<ProtocolVersionMajor type="Integer" value="1"/>
0331	<ProtocolVersionMinor type="Integer" value="1"/>
0332	</ProtocolVersion>
0333	<BatchCount type="Integer" value="1"/>
0334	</RequestHeader>
0335	<BatchItem>
0336	<Operation type="Enumeration" value="Revoke"/>
0337	<RequestPayload>
0338	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0339	<RevocationReason>
0340	<RevocationReasonCode type="Enumeration"

0341	value="KeyCompromise"/>
0342	</RevocationReason>
0343	<CompromiseOccurrenceDate type="DateTime" value="1970-01-01T00:00:06+00:00"/>
0344	</RequestPayload>
0345	</BatchItem>
0346	</RequestMessage>
0346	<ResponseMessage>
0347	<ResponseHeader>
0348	<ProtocolVersion>
0349	<ProtocolVersionMajor type="Integer" value="1"/>
0350	<ProtocolVersionMinor type="Integer" value="1"/>
0351	</ProtocolVersion>
0352	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0353	<BatchCount type="Integer" value="1"/>
0354	</ResponseHeader>
0355	<BatchItem>
0356	<Operation type="Enumeration" value="Revoke"/>
0357	<ResultStatus type="Enumeration" value="Success"/>
0358	<ResponsePayload>
0359	<UniqueIdentifier type="TextString"
0360	value="\$UNIQUE_IDENTIFIER_0"/>
0361	</ResponsePayload>
0362	</BatchItem>
0362	</ResponseMessage>
0363	# TIME 8
0363	<RequestMessage>
0364	<RequestHeader>
0365	<ProtocolVersion>
0366	<ProtocolVersionMajor type="Integer" value="1"/>
0367	<ProtocolVersionMinor type="Integer" value="1"/>
0368	</ProtocolVersion>
0369	<BatchCount type="Integer" value="1"/>
0370	</RequestHeader>
0371	<BatchItem>
0372	<Operation type="Enumeration" value="GetAttributes"/>
0373	<RequestPayload>
0374	<UniqueIdentifier type="TextString"
0375	value="\$UNIQUE_IDENTIFIER_0"/>
0376	<AttributeName type="TextString" value="State"/>
0377	</RequestPayload>
0378	</BatchItem>
0378	</RequestMessage>
0379	<ResponseMessage>
0380	<ResponseHeader>
0381	<ProtocolVersion>
0382	<ProtocolVersionMajor type="Integer" value="1"/>
0383	<ProtocolVersionMinor type="Integer" value="1"/>
0384	</ProtocolVersion>
0385	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0386	<BatchCount type="Integer" value="1"/>
0387	</ResponseHeader>
0388	<BatchItem>
0389	<Operation type="Enumeration" value="GetAttributes"/>
0390	<ResultStatus type="Enumeration" value="Success"/>
0391	<ResponsePayload>
0392	<UniqueIdentifier type="TextString"
0392	value="\$UNIQUE_IDENTIFIER_0"/>

0393	<Attribute>
0394	<AttributeName type="TextString" value="State"/>
0395	<AttributeValue type="Enumeration" value="Compromised"/>
0396	</Attribute>
0397	</ResponsePayload>
0398	</BatchItem>
0399	</ResponseMessage>
# TIME 9	
0400	<RequestMessage>
0401	<RequestHeader>
0402	<ProtocolVersion>
0403	<ProtocolVersionMajor type="Integer" value="1"/>
0404	<ProtocolVersionMinor type="Integer" value="1"/>
0405	</ProtocolVersion>
0406	<BatchCount type="Integer" value="1"/>
0407	</RequestHeader>
0408	<BatchItem>
0409	<Operation type="Enumeration" value="Destroy"/>
0410	<RequestPayload>
0411	<UniqueIdentifier type="TextString"
0412	value="\$UNIQUE_IDENTIFIER_0"/>
0413	</RequestPayload>
0414	</BatchItem>
0415	</RequestMessage>
0416	<ResponseMessage>
0417	<ResponseHeader>
0418	<ProtocolVersion>
0419	<ProtocolVersionMajor type="Integer" value="1"/>
0420	<ProtocolVersionMinor type="Integer" value="1"/>
0421	</ProtocolVersion>
0422	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0423	<BatchCount type="Integer" value="1"/>
0424	</ResponseHeader>
0425	<BatchItem>
0426	<Operation type="Enumeration" value="Destroy"/>
0427	<ResultStatus type="Enumeration" value="Success"/>
0428	<ResponsePayload>
0429	<UniqueIdentifier type="TextString"
0430	value="\$UNIQUE_IDENTIFIER_0"/>
0431	</ResponsePayload>
	</BatchItem>
	</ResponseMessage>

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### 151 3.2.3 AKLC-M-3-11

152 CreateKeyPair, 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="CreateKeyPair"/>
0011	<RequestPayload>
0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-3-11- private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-3-11- public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="1"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>

0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
	# TIME 1
0069	<RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="1"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	</RequestPayload>
0091	</BatchItem>
0092	</RequestMessage>
0093	<ResponseMessage>
0094	<ResponseHeader>
0095	<ProtocolVersion>
0096	<ProtocolVersionMajor type="Integer" value="1"/>
0097	<ProtocolVersionMinor type="Integer" value="1"/>
0098	</ProtocolVersion>
0099	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0100	<BatchCount type="Integer" value="1"/>
0101	</ResponseHeader>
0102	<BatchItem>
0103	<Operation type="Enumeration" value="GetAttributes"/>
0104	<ResultStatus type="Enumeration" value="Success"/>
0105	<ResponsePayload>
0106	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0107	<Attribute>
0108	<AttributeName type="TextString" value="State"/>
0109	<AttributeValue type="Enumeration" value="PreActive"/>



```

0110     </Attribute>
0111     <Attribute>
0112         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0113         <AttributeValue type="Integer" value="Sign"/>
0114     </Attribute>
0115     <Attribute>
0116         <AttributeName type="TextString" value="Unique Identifier"/>
0117         <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0118     </Attribute>
0119     <Attribute>
0120         <AttributeName type="TextString" value="Object Type"/>
0121         <AttributeValue type="Enumeration" value="PrivateKey"/>
0122     </Attribute>
0123     <Attribute>
0124         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0125         <AttributeValue type="Enumeration" value="RSA"/>
0126     </Attribute>
0127     <Attribute>
0128         <AttributeName type="TextString" value="Cryptographic
Length"/>
0129         <AttributeValue type="Integer" value="2048"/>
0130     </Attribute>
0131     <Attribute>
0132         <AttributeName type="TextString" value="Digest"/>
0133         <AttributeValue>
0134             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0135             <DigestValue type="ByteString"
value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
230"/>
0136         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0137     </AttributeValue>
0138 </Attribute>
0139 <Attribute>
0140     <AttributeName type="TextString" value="Initial Date"/>
0141     <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0142 </Attribute>
0143 <Attribute>
0144     <AttributeName type="TextString" value="Last Change Date"/>
0145     <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0146 </Attribute>
0147 </ResponsePayload>
0148 </BatchItem>
0149 </ResponseMessage>
# TIME 2
0150 <RequestMessage>
0151 <RequestHeader>
0152     <ProtocolVersion>
0153         <ProtocolVersionMajor type="Integer" value="1"/>
0154         <ProtocolVersionMinor type="Integer" value="1"/>
0155     </ProtocolVersion>
0156     <BatchCount type="Integer" value="1"/>
0157 </RequestHeader>
0158 <BatchItem>

```

0159	<Operation type="Enumeration" value="Activate"/>
0160	<RequestPayload>
0161	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0162	</RequestPayload>
0163	</BatchItem>
0164	</RequestMessage>
0165	<ResponseMessage>
0166	<ResponseHeader>
0167	<ProtocolVersion>
0168	<ProtocolVersionMajor type="Integer" value="1"/>
0169	<ProtocolVersionMinor type="Integer" value="1"/>
0170	</ProtocolVersion>
0171	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0172	<BatchCount type="Integer" value="1"/>
0173	</ResponseHeader>
0174	<BatchItem>
0175	<Operation type="Enumeration" value="Activate"/>
0176	<ResultStatus type="Enumeration" value="Success"/>
0177	<ResponsePayload>
0178	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0179	</ResponsePayload>
0180	</BatchItem>
0181	</ResponseMessage>
0182	# TIME 3
0183	<RequestMessage>
0184	<RequestHeader>
0185	<ProtocolVersion>
0186	<ProtocolVersionMajor type="Integer" value="1"/>
0187	<ProtocolVersionMinor type="Integer" value="1"/>
0188	</ProtocolVersion>
0189	<BatchCount type="Integer" value="1"/>
0190	</RequestHeader>
0191	<BatchItem>
0192	<Operation type="Enumeration" value="GetAttributes"/>
0193	<RequestPayload>
0194	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0195	<AttributeName type="TextString" value="State"/>
0196	<AttributeName type="TextString" value="Activation Date"/>
0197	<AttributeName type="TextString" value="Deactivation Date"/>
0198	</RequestPayload>
0199	</BatchItem>
0200	</RequestMessage>
0201	<ResponseMessage>
0202	<ResponseHeader>
0203	<ProtocolVersion>
0204	<ProtocolVersionMajor type="Integer" value="1"/>
0205	<ProtocolVersionMinor type="Integer" value="1"/>
0206	</ProtocolVersion>
0207	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0208	<BatchCount type="Integer" value="1"/>
0209	</ResponseHeader>
0210	<BatchItem>
0211	<Operation type="Enumeration" value="GetAttributes"/>
0212	<ResultStatus type="Enumeration" value="Success"/>
	<ResponsePayload>

0213	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0214	<Attribute>
0215	<AttributeName type="TextString" value="State"/>
0216	<AttributeValue type="Enumeration" value="Active"/>
0217	</Attribute>
0218	<Attribute>
0219	<AttributeName type="TextString" value="Activation Date"/>
0220	<AttributeValue type="DateTime" value="2013-01- 10T23:36:01+00:00"/>
0221	</Attribute>
0222	</ResponsePayload>
0223	</BatchItem>
0224	</ResponseMessage>
	# TIME 4
0225	<RequestMessage>
0226	<RequestHeader>
0227	<ProtocolVersion>
0228	<ProtocolVersionMajor type="Integer" value="1"/>
0229	<ProtocolVersionMinor type="Integer" value="1"/>
0230	</ProtocolVersion>
0231	<BatchCount type="Integer" value="1"/>
0232	</RequestHeader>
0233	<BatchItem>
0234	<Operation type="Enumeration" value="ModifyAttribute"/>
0235	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0236	<RequestPayload>
0237	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0238	<Attribute>
0239	<AttributeName type="TextString" value="Activation Date"/>
0240	<AttributeValue type="DateTime" value="\$NOW"/>
0241	</Attribute>
0242	</RequestPayload>
0243	</BatchItem>
0244	</RequestMessage>
0245	<ResponseMessage>
0246	<ResponseHeader>
0247	<ProtocolVersion>
0248	<ProtocolVersionMajor type="Integer" value="1"/>
0249	<ProtocolVersionMinor type="Integer" value="1"/>
0250	</ProtocolVersion>
0251	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0252	<BatchCount type="Integer" value="1"/>
0253	</ResponseHeader>
0254	<BatchItem>
0255	<Operation type="Enumeration" value="ModifyAttribute"/>
0256	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0257	<ResultStatus type="Enumeration" value="OperationFailed"/>
0258	<ResultReason type="Enumeration" value="PermissionDenied"/>
0259	<ResultMessage type="TextString" value="DENIED"/>
0260	</BatchItem>
0261	</ResponseMessage>
	# TIME 5
0262	<RequestMessage>
0263	<RequestHeader>
0264	<ProtocolVersion>
0265	<ProtocolVersionMajor type="Integer" value="1"/>

0266	<ProtocolVersionMinor type="Integer" value="1"/>
0267	</ProtocolVersion>
0268	<BatchCount type="Integer" value="1"/>
0269	</RequestHeader>
0270	<BatchItem>
0271	<Operation type="Enumeration" value="Revoke"/>
0272	<RequestPayload>
0273	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0274	<RevocationReason>
0275	<RevocationReasonCode type="Enumeration" value="KeyCompromise"/>
0276	</RevocationReason>
0277	<CompromiseOccurrenceDate type="DateTime" value="1970-01- 01T00:00:06+00:00"/>
0278	</RequestPayload>
0279	</BatchItem>
0280	</RequestMessage>
0281	<ResponseMessage>
0282	<ResponseHeader>
0283	<ProtocolVersion>
0284	<ProtocolVersionMajor type="Integer" value="1"/>
0285	<ProtocolVersionMinor type="Integer" value="1"/>
0286	</ProtocolVersion>
0287	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0288	<BatchCount type="Integer" value="1"/>
0289	</ResponseHeader>
0290	<BatchItem>
0291	<Operation type="Enumeration" value="Revoke"/>
0292	<ResultStatus type="Enumeration" value="Success"/>
0293	<ResponsePayload>
0294	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0295	</ResponsePayload>
0296	</BatchItem>
0297	</ResponseMessage>
0298	# TIME 6 <RequestMessage>
0299	<RequestHeader>
0300	<ProtocolVersion>
0301	<ProtocolVersionMajor type="Integer" value="1"/>
0302	<ProtocolVersionMinor type="Integer" value="1"/>
0303	</ProtocolVersion>
0304	<BatchCount type="Integer" value="1"/>
0305	</RequestHeader>
0306	<BatchItem>
0307	<Operation type="Enumeration" value="GetAttributes"/>
0308	<RequestPayload>
0309	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0310	<AttributeName type="TextString" value="State"/>
0311	</RequestPayload>
0312	</BatchItem>
0313	</RequestMessage>
0314	<ResponseMessage>
0315	<ResponseHeader>
0316	<ProtocolVersion>
0317	<ProtocolVersionMajor type="Integer" value="1"/>

0318	<ProtocolVersionMinor type="Integer" value="1"/>
0319	</ProtocolVersion>
0320	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0321	<BatchCount type="Integer" value="1"/>
0322	</ResponseHeader>
0323	<BatchItem>
0324	<Operation type="Enumeration" value="GetAttributes"/>
0325	<ResultStatus type="Enumeration" value="Success"/>
0326	<ResponsePayload>
0327	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0328	<Attribute>
0329	<AttributeName type="TextString" value="State"/>
0330	<AttributeValue type="Enumeration" value="Compromised"/>
0331	</Attribute>
0332	</ResponsePayload>
0333	</BatchItem>
0334	</ResponseMessage>
	# TIME 7
0335	<RequestMessage>
0336	<RequestHeader>
0337	<ProtocolVersion>
0338	<ProtocolVersionMajor type="Integer" value="1"/>
0339	<ProtocolVersionMinor type="Integer" value="1"/>
0340	</ProtocolVersion>
0341	<BatchCount type="Integer" value="1"/>
0342	</RequestHeader>
0343	<BatchItem>
0344	<Operation type="Enumeration" value="GetAttributes"/>
0345	<RequestPayload>
0346	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0347	<AttributeName type="TextString" value="State"/>
0348	</RequestPayload>
0349	</BatchItem>
0350	</RequestMessage>
0351	<ResponseMessage>
0352	<ResponseHeader>
0353	<ProtocolVersion>
0354	<ProtocolVersionMajor type="Integer" value="1"/>
0355	<ProtocolVersionMinor type="Integer" value="1"/>
0356	</ProtocolVersion>
0357	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0358	<BatchCount type="Integer" value="1"/>
0359	</ResponseHeader>
0360	<BatchItem>
0361	<Operation type="Enumeration" value="GetAttributes"/>
0362	<ResultStatus type="Enumeration" value="Success"/>
0363	<ResponsePayload>
0364	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER 1"/>
0365	<Attribute>
0366	<AttributeName type="TextString" value="State"/>
0367	<AttributeValue type="Enumeration" value="PreActive"/>
0368	</Attribute>
0369	</ResponsePayload>
0370	</BatchItem>
0371	</ResponseMessage>

0372	# TIME 8
0372	<RequestMessage>
0373	<RequestHeader>
0374	<ProtocolVersion>
0375	<ProtocolVersionMajor type="Integer" value="1"/>
0376	<ProtocolVersionMinor type="Integer" value="1"/>
0377	</ProtocolVersion>
0378	<BatchCount type="Integer" value="1"/>
0379	</RequestHeader>
0380	<BatchItem>
0381	<Operation type="Enumeration" value="Destroy"/>
0382	<RequestPayload>
0383	<UniqueIdentifier type="TextString"
0384	value="\$UNIQUE_IDENTIFIER_0"/>
0385	</RequestPayload>
0386	</BatchItem>
0387	</RequestMessage>
0387	<ResponseMessage>
0388	<ResponseHeader>
0389	<ProtocolVersion>
0390	<ProtocolVersionMajor type="Integer" value="1"/>
0391	<ProtocolVersionMinor type="Integer" value="1"/>
0392	</ProtocolVersion>
0393	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0394	<BatchCount type="Integer" value="1"/>
0395	</ResponseHeader>
0396	<BatchItem>
0397	<Operation type="Enumeration" value="Destroy"/>
0398	<ResultStatus type="Enumeration" value="Success"/>
0399	<ResponsePayload>
0400	<UniqueIdentifier type="TextString"
0401	value="\$UNIQUE_IDENTIFIER_0"/>
0402	</ResponsePayload>
0403	</BatchItem>
0404	</ResponseMessage>
0404	# TIME 9
0404	<RequestMessage>
0405	<RequestHeader>
0406	<ProtocolVersion>
0407	<ProtocolVersionMajor type="Integer" value="1"/>
0408	<ProtocolVersionMinor type="Integer" value="1"/>
0409	</ProtocolVersion>
0410	<BatchCount type="Integer" value="1"/>
0411	</RequestHeader>
0412	<BatchItem>
0413	<Operation type="Enumeration" value="Destroy"/>
0414	<RequestPayload>
0415	<UniqueIdentifier type="TextString"
0416	value="\$UNIQUE_IDENTIFIER_1"/>
0417	</RequestPayload>
0418	</BatchItem>
0419	</RequestMessage>
0419	<ResponseMessage>
0420	<ResponseHeader>
0421	<ProtocolVersion>
0422	<ProtocolVersionMajor type="Integer" value="1"/>
0423	<ProtocolVersionMinor type="Integer" value="1"/>
0424	</ProtocolVersion>

```

0425     <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0426     <BatchCount type="Integer" value="1"/>
0427 </ResponseHeader>
0428 <BatchItem>
0429     <Operation type="Enumeration" value="Destroy"/>
0430     <ResultStatus type="Enumeration" value="Success"/>
0431     <ResponsePayload>
0432         <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0433     </ResponsePayload>
0434 </BatchItem>
0435 </ResponseMessage>

```

153

### 154 3.3 Mandatory Test Cases KMIP 1v1.2

155 ~~This section documents the mandatory test cases that a client or server conformant to the Asymmetric~~  
156 ~~Key Lifecycle Profile SHALL support under KMIP Specification 1.2.~~

#### 157 3.3.1 AKLC-M-1-12

158 CreateKeyPair, GetAttributes, 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="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015           <AttributeValue type="Enumeration" value="RSA"/>
0016         </Attribute>
0017         <Attribute>
0018           <AttributeName type="TextString" value="Cryptographic
Length"/>
0019           <AttributeValue type="Integer" value="2048"/>
0020         </Attribute>
0021       </CommonTemplateAttribute>
0022       <PrivateKeyTemplateAttribute>
0023         <Attribute>
0024           <AttributeName type="TextString" value="Name"/>
0025           <AttributeValue>
0026             <NameValue type="TextString" value="AKLC-M-1-12-
private"/>
0027             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0028           </AttributeValue>
0029         </Attribute>
0030       </Attribute>

```

0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-1-12-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="2"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1 <RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="2"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>



```

0081     <AttributeName type="TextString" value="State"/>
0082     <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0083     <AttributeName type="TextString" value="Unique Identifier"/>
0084     <AttributeName type="TextString" value="Object Type"/>
0085     <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0086     <AttributeName type="TextString" value="Cryptographic
Length"/>
0087     <AttributeName type="TextString" value="Digest"/>
0088     <AttributeName type="TextString" value="Initial Date"/>
0089     <AttributeName type="TextString" value="Last Change Date"/>
0090     <AttributeName type="TextString" value="Activation Date"/>
0091     <AttributeName type="TextString" value="Original Creation
Date"/>
0092     </RequestPayload>
0093     </BatchItem>
0094 </RequestMessage>
0095 <ResponseMessage>
0096   <ResponseHeader>
0097     <ProtocolVersion>
0098       <ProtocolVersionMajor type="Integer" value="1"/>
0099       <ProtocolVersionMinor type="Integer" value="2"/>
0100     </ProtocolVersion>
0101     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0102     <BatchCount type="Integer" value="1"/>
0103   </ResponseHeader>
0104   <BatchItem>
0105     <Operation type="Enumeration" value="GetAttributes"/>
0106     <ResultStatus type="Enumeration" value="Success"/>
0107     <ResponsePayload>
0108       <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0109       <Attribute>
0110         <AttributeName type="TextString" value="State"/>
0111         <AttributeValue type="Enumeration" value="PreActive"/>
0112       </Attribute>
0113       <Attribute>
0114         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0115         <AttributeValue type="Integer" value="Sign"/>
0116       </Attribute>
0117       <Attribute>
0118         <AttributeName type="TextString" value="Unique Identifier"/>
0119         <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0120       </Attribute>
0121       <Attribute>
0122         <AttributeName type="TextString" value="Object Type"/>
0123         <AttributeValue type="Enumeration" value="PrivateKey"/>
0124       </Attribute>
0125       <Attribute>
0126         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0127         <AttributeValue type="Enumeration" value="RSA"/>
0128       </Attribute>
0129       <Attribute>
0130         <AttributeName type="TextString" value="Cryptographic

```

```

Length"/>
0131     <AttributeValue type="Integer" value="2048"/>
0132     </Attribute>
0133     <Attribute>
0134         <AttributeName type="TextString" value="Digest"/>
0135         <AttributeValue>
0136             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0137             <DigestValue type="ByteString"
value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
230"/>
0138         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0139         </AttributeValue>
0140     </Attribute>
0141     <Attribute>
0142         <AttributeName type="TextString" value="Initial Date"/>
0143         <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0144     </Attribute>
0145     <Attribute>
0146         <AttributeName type="TextString" value="Last Change Date"/>
0147         <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0148     </Attribute>
0149     <Attribute>
0150         <AttributeName type="TextString" value="Original Creation
Date"/>
0151         <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0152     </Attribute>
0153 </ResponsePayload>
0154 </BatchItem>
0155 </ResponseMessage>

# TIME 2
0156 <RequestMessage>
0157     <RequestHeader>
0158         <ProtocolVersion>
0159             <ProtocolVersionMajor type="Integer" value="1"/>
0160             <ProtocolVersionMinor type="Integer" value="2"/>
0161         </ProtocolVersion>
0162         <BatchCount type="Integer" value="1"/>
0163     </RequestHeader>
0164     <BatchItem>
0165         <Operation type="Enumeration" value="GetAttributes"/>
0166         <RequestPayload>
0167             <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0168             <AttributeName type="TextString" value="State"/>
0169             <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0170             <AttributeName type="TextString" value="Unique Identifier"/>
0171             <AttributeName type="TextString" value="Object Type"/>
0172             <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0173             <AttributeName type="TextString" value="Cryptographic
Length"/>
0174             <AttributeName type="TextString" value="Digest"/>
0175             <AttributeName type="TextString" value="Initial Date"/>
0176             <AttributeName type="TextString" value="Last Change Date"/>

```

0177	<AttributeName type="TextString" value="Activation Date"/>
0178	<AttributeName type="TextString" value="Original Creation Date"/>
0179	</RequestPayload>
0180	</BatchItem>
0181	</RequestMessage>
0182	<ResponseMessage>
0183	<ResponseHeader>
0184	<ProtocolVersion>
0185	<ProtocolVersionMajor type="Integer" value="1"/>
0186	<ProtocolVersionMinor type="Integer" value="2"/>
0187	</ProtocolVersion>
0188	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0189	<BatchCount type="Integer" value="1"/>
0190	</ResponseHeader>
0191	<BatchItem>
0192	<Operation type="Enumeration" value="GetAttributes"/>
0193	<ResultStatus type="Enumeration" value="Success"/>
0194	<ResponsePayload>
0195	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0196	<Attribute>
0197	<AttributeName type="TextString" value="State"/>
0198	<AttributeValue type="Enumeration" value="PreActive"/>
0199	</Attribute>
0200	<Attribute>
0201	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0202	<AttributeValue type="Integer" value="Verify"/>
0203	</Attribute>
0204	<Attribute>
0205	<AttributeName type="TextString" value="Unique Identifier"/>
0206	<AttributeValue type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0207	</Attribute>
0208	<Attribute>
0209	<AttributeName type="TextString" value="Object Type"/>
0210	<AttributeValue type="Enumeration" value="PublicKey"/>
0211	</Attribute>
0212	<Attribute>
0213	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0214	<AttributeValue type="Enumeration" value="RSA"/>
0215	</Attribute>
0216	<Attribute>
0217	<AttributeName type="TextString" value="Cryptographic Length"/>
0218	<AttributeValue type="Integer" value="2048"/>
0219	</Attribute>
0220	<Attribute>
0221	<AttributeName type="TextString" value="Digest"/>
0222	<AttributeValue>
0223	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0224	<DigestValue type="ByteString" value="82bcff8afab753809db804e654013ded708c3996a50c6ce9313f9b3915442ce9"/>
0225	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0226	</AttributeValue>

0227	</Attribute>
0228	<Attribute>
0229	<AttributeName type="TextString" value="Initial Date"/>
0230	<AttributeValue type="DateTime" value="2013-01-11T08:19:49+00:00"/>
0231	</Attribute>
0232	<Attribute>
0233	<AttributeName type="TextString" value="Last Change Date"/>
0234	<AttributeValue type="DateTime" value="2013-01-11T08:19:49+00:00"/>
0235	</Attribute>
0236	<Attribute>
0237	<AttributeName type="TextString" value="Original Creation Date"/>
0238	<AttributeValue type="DateTime" value="2013-01-11T08:19:49+00:00"/>
0239	</Attribute>
0240	</ResponsePayload>
0241	</BatchItem>
0242	</ResponseMessage>
0243	# TIME 3 <RequestMessage>
0244	<RequestHeader>
0245	<ProtocolVersion>
0246	<ProtocolVersionMajor type="Integer" value="1"/>
0247	<ProtocolVersionMinor type="Integer" value="2"/>
0248	</ProtocolVersion>
0249	<BatchCount type="Integer" value="1"/>
0250	</RequestHeader>
0251	<BatchItem>
0252	<Operation type="Enumeration" value="Destroy"/>
0253	<RequestPayload>
0254	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0255	</RequestPayload>
0256	</BatchItem>
0257	</RequestMessage>
0258	<ResponseMessage>
0259	<ResponseHeader>
0260	<ProtocolVersion>
0261	<ProtocolVersionMajor type="Integer" value="1"/>
0262	<ProtocolVersionMinor type="Integer" value="2"/>
0263	</ProtocolVersion>
0264	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0265	<BatchCount type="Integer" value="1"/>
0266	</ResponseHeader>
0267	<BatchItem>
0268	<Operation type="Enumeration" value="Destroy"/>
0269	<ResultStatus type="Enumeration" value="Success"/>
0270	<ResponsePayload>
0271	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0272	</ResponsePayload>
0273	</BatchItem>
0274	</ResponseMessage>
0275	# TIME 4 <RequestMessage>
0276	<RequestHeader>

0277	<ProtocolVersion>
0278	<ProtocolVersionMajor type="Integer" value="1"/>
0279	<ProtocolVersionMinor type="Integer" value="2"/>
0280	</ProtocolVersion>
0281	<BatchCount type="Integer" value="1"/>
0282	</RequestHeader>
0283	<BatchItem>
0284	<Operation type="Enumeration" value="Destroy"/>
0285	<RequestPayload>
0286	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0287	</RequestPayload>
0288	</BatchItem>
0289	</RequestMessage>
0290	<ResponseMessage>
0291	<ResponseHeader>
0292	<ProtocolVersion>
0293	<ProtocolVersionMajor type="Integer" value="1"/>
0294	<ProtocolVersionMinor type="Integer" value="2"/>
0295	</ProtocolVersion>
0296	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0297	<BatchCount type="Integer" value="1"/>
0298	</ResponseHeader>
0299	<BatchItem>
0300	<Operation type="Enumeration" value="Destroy"/>
0301	<ResultStatus type="Enumeration" value="Success"/>
0302	<ResponsePayload>
0303	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER 1"/>
0304	</ResponsePayload>
0305	</BatchItem>
0306	</ResponseMessage>

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### 160 3.3.2 AKLC-M-2-12

161 CreateKeyPair, 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="CreateKeyPair"/>
0011	<RequestPayload>
0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic

0019	Length"/>
0020	<AttributeValue type="Integer" value="2048"/>
0021	</Attribute>
0022	</CommonTemplateAttribute>
0023	<PrivateKeyTemplateAttribute>
0024	<Attribute>
0025	<AttributeName type="TextString" value="Name"/>
0026	<AttributeValue>
0027	<NameValue type="TextString" value="AKLC-M-2-12-private"/>
0028	<NameType type="Enumeration" value="UninterpretedTextString"/>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-2-12-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</Attribute>
0042	<Attribute>
0043	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0044	<AttributeValue type="Integer" value="Verify"/>
0045	</Attribute>
0046	</PublicKeyTemplateAttribute>
0047	</RequestPayload>
0048	</BatchItem>
0049	</RequestMessage>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="2"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>

0068	</ResponseMessage>
	# TIME 1
0069	<RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="2"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Original Creation
	Date"/>
0091	</RequestPayload>
0092	</BatchItem>
0093	</RequestMessage>
0094	<ResponseMessage>
0095	<ResponseHeader>
0096	<ProtocolVersion>
0097	<ProtocolVersionMajor type="Integer" value="1"/>
0098	<ProtocolVersionMinor type="Integer" value="2"/>
0099	</ProtocolVersion>
0100	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101	<BatchCount type="Integer" value="1"/>
0102	</ResponseHeader>
0103	<BatchItem>
0104	<Operation type="Enumeration" value="GetAttributes"/>
0105	<ResultStatus type="Enumeration" value="Success"/>
0106	<ResponsePayload>
0107	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0108	<Attribute>
0109	<AttributeName type="TextString" value="State"/>
0110	<AttributeValue type="Enumeration" value="PreActive"/>
0111	</Attribute>
0112	<Attribute>
0113	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0114	<AttributeValue type="Integer" value="Sign"/>
0115	</Attribute>
0116	<Attribute>
0117	<AttributeName type="TextString" value="Unique Identifier"/>

0118	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0119	</Attribute>
0120	<Attribute>
0121	<AttributeName type="TextString" value="Object Type"/>
0122	<AttributeValue type="Enumeration" value="PrivateKey"/>
0123	</Attribute>
0124	<Attribute>
0125	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0126	<AttributeValue type="Enumeration" value="RSA"/>
0127	</Attribute>
0128	<Attribute>
0129	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0130	<AttributeValue type="Integer" value="2048"/>
0131	</Attribute>
0132	<Attribute>
0133	<AttributeName type="TextString" value="Digest"/>
0134	<AttributeValue>
0135	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0136	<DigestValue type="ByteString"
	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
	230"/>
0137	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0138	</AttributeValue>
0139	</Attribute>
0140	<Attribute>
0141	<AttributeName type="TextString" value="Initial Date"/>
0142	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0143	</Attribute>
0144	<Attribute>
0145	<AttributeName type="TextString" value="Last Change Date"/>
0146	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0147	</Attribute>
0148	<Attribute>
0149	<AttributeName type="TextString" value="Original Creation
	Date"/>
0150	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0151	</Attribute>
0152	</ResponsePayload>
0153	</BatchItem>
0154	</ResponseMessage>
0155	# TIME 2
0155	<RequestMessage>
0156	<RequestHeader>
0157	<ProtocolVersion>
0158	<ProtocolVersionMajor type="Integer" value="1"/>
0159	<ProtocolVersionMinor type="Integer" value="2"/>
0160	</ProtocolVersion>
0161	<BatchCount type="Integer" value="1"/>
0162	</RequestHeader>
0163	<BatchItem>
0164	<Operation type="Enumeration" value="Activate"/>
0165	<RequestPayload>



0166	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0167	</RequestPayload>
0168	</BatchItem>
0169	</RequestMessage>
0170	<ResponseMessage>
0171	<ResponseHeader>
0172	<ProtocolVersion>
0173	<ProtocolVersionMajor type="Integer" value="1"/>
0174	<ProtocolVersionMinor type="Integer" value="2"/>
0175	</ProtocolVersion>
0176	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0177	<BatchCount type="Integer" value="1"/>
0178	</ResponseHeader>
0179	<BatchItem>
0180	<Operation type="Enumeration" value="Activate"/>
0181	<ResultStatus type="Enumeration" value="Success"/>
0182	<ResponsePayload>
0183	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0184	</ResponsePayload>
0185	</BatchItem>
0186	</ResponseMessage>
0187	# TIME 3 <RequestMessage>
0188	<RequestHeader>
0189	<ProtocolVersion>
0190	<ProtocolVersionMajor type="Integer" value="1"/>
0191	<ProtocolVersionMinor type="Integer" value="2"/>
0192	</ProtocolVersion>
0193	<BatchCount type="Integer" value="1"/>
0194	</RequestHeader>
0195	<BatchItem>
0196	<Operation type="Enumeration" value="GetAttributes"/>
0197	<RequestPayload>
0198	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0199	<AttributeName type="TextString" value="State"/>
0200	<AttributeName type="TextString" value="Activation Date"/>
0201	<AttributeName type="TextString" value="Deactivation Date"/>
0202	</RequestPayload>
0203	</BatchItem>
0204	</RequestMessage>
0205	<ResponseMessage>
0206	<ResponseHeader>
0207	<ProtocolVersion>
0208	<ProtocolVersionMajor type="Integer" value="1"/>
0209	<ProtocolVersionMinor type="Integer" value="2"/>
0210	</ProtocolVersion>
0211	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0212	<BatchCount type="Integer" value="1"/>
0213	</ResponseHeader>
0214	<BatchItem>
0215	<Operation type="Enumeration" value="GetAttributes"/>
0216	<ResultStatus type="Enumeration" value="Success"/>
0217	<ResponsePayload>
0218	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>

0219	<Attribute>
0220	<AttributeName type="TextString" value="State"/>
0221	<AttributeValue type="Enumeration" value="Active"/>
0222	</Attribute>
0223	<Attribute>
0224	<AttributeName type="TextString" value="Activation Date"/>
0225	<AttributeValue type="DateTime" value="2013-01-10T23:36:01+00:00"/>
0226	</Attribute>
0227	</ResponsePayload>
0228	</BatchItem>
0229	</ResponseMessage>
	<i># TIME 4</i>
0230	<RequestMessage>
0231	<RequestHeader>
0232	<ProtocolVersion>
0233	<ProtocolVersionMajor type="Integer" value="1"/>
0234	<ProtocolVersionMinor type="Integer" value="2"/>
0235	</ProtocolVersion>
0236	<BatchCount type="Integer" value="1"/>
0237	</RequestHeader>
0238	<BatchItem>
0239	<Operation type="Enumeration" value="GetAttributes"/>
0240	<RequestPayload>
0241	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0242	<AttributeName type="TextString" value="State"/>
0243	<AttributeName type="TextString" value="Activation Date"/>
0244	<AttributeName type="TextString" value="Deactivation Date"/>
0245	</RequestPayload>
0246	</BatchItem>
0247	</RequestMessage>
0248	<ResponseMessage>
0249	<ResponseHeader>
0250	<ProtocolVersion>
0251	<ProtocolVersionMajor type="Integer" value="1"/>
0252	<ProtocolVersionMinor type="Integer" value="2"/>
0253	</ProtocolVersion>
0254	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0255	<BatchCount type="Integer" value="1"/>
0256	</ResponseHeader>
0257	<BatchItem>
0258	<Operation type="Enumeration" value="GetAttributes"/>
0259	<ResultStatus type="Enumeration" value="Success"/>
0260	<ResponsePayload>
0261	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0262	<Attribute>
0263	<AttributeName type="TextString" value="State"/>
0264	<AttributeValue type="Enumeration" value="PreActive"/>
0265	</Attribute>
0266	</ResponsePayload>
0267	</BatchItem>
0268	</ResponseMessage>
	<i># TIME 5</i>
0269	<RequestMessage>
0270	<RequestHeader>
0271	<ProtocolVersion>

0272	<ProtocolVersionMajor type="Integer" value="1"/>
0273	<ProtocolVersionMinor type="Integer" value="2"/>
0274	</ProtocolVersion>
0275	<BatchCount type="Integer" value="1"/>
0276	</RequestHeader>
0277	<BatchItem>
0278	<Operation type="Enumeration" value="Destroy"/>
0279	<RequestPayload>
0280	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0281	</RequestPayload>
0282	</BatchItem>
0283	</RequestMessage>
0284	<ResponseMessage>
0285	<ResponseHeader>
0286	<ProtocolVersion>
0287	<ProtocolVersionMajor type="Integer" value="1"/>
0288	<ProtocolVersionMinor type="Integer" value="2"/>
0289	</ProtocolVersion>
0290	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0291	<BatchCount type="Integer" value="1"/>
0292	</ResponseHeader>
0293	<BatchItem>
0294	<Operation type="Enumeration" value="Destroy"/>
0295	<ResultStatus type="Enumeration" value="OperationFailed"/>
0296	<ResultReason type="Enumeration" value="PermissionDenied"/>
0297	<ResultMessage type="TextString" value="DENIED"/>
0298	</BatchItem>
0299	</ResponseMessage>
0300	<i># TIME 6</i>
0300	<RequestMessage>
0301	<RequestHeader>
0302	<ProtocolVersion>
0303	<ProtocolVersionMajor type="Integer" value="1"/>
0304	<ProtocolVersionMinor type="Integer" value="2"/>
0305	</ProtocolVersion>
0306	<BatchCount type="Integer" value="1"/>
0307	</RequestHeader>
0308	<BatchItem>
0309	<Operation type="Enumeration" value="Destroy"/>
0310	<RequestPayload>
0311	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0312	</RequestPayload>
0313	</BatchItem>
0314	</RequestMessage>
0315	<ResponseMessage>
0316	<ResponseHeader>
0317	<ProtocolVersion>
0318	<ProtocolVersionMajor type="Integer" value="1"/>
0319	<ProtocolVersionMinor type="Integer" value="2"/>
0320	</ProtocolVersion>
0321	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0322	<BatchCount type="Integer" value="1"/>
0323	</ResponseHeader>
0324	<BatchItem>
0325	<Operation type="Enumeration" value="Destroy"/>
0326	<ResultStatus type="Enumeration" value="Success"/>

0327	<ResponsePayload>
0328	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0329	</ResponsePayload>
0330	</BatchItem>
0331	</ResponseMessage>
# TIME 7	
0332	<RequestMessage>
0333	<RequestHeader>
0334	<ProtocolVersion>
0335	<ProtocolVersionMajor type="Integer" value="1"/>
0336	<ProtocolVersionMinor type="Integer" value="2"/>
0337	</ProtocolVersion>
0338	<BatchCount type="Integer" value="1"/>
0339	</RequestHeader>
0340	<BatchItem>
0341	<Operation type="Enumeration" value="Revoke"/>
0342	<RequestPayload>
0343	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0344	<RevocationReason>
0345	<RevocationReasonCode type="Enumeration" value="KeyCompromise"/>
0346	</RevocationReason>
0347	<CompromiseOccurrenceDate type="DateTime" value="1970-01- 01T00:00:06+00:00"/>
0348	</RequestPayload>
0349	</BatchItem>
0350	</RequestMessage>
0351	<ResponseMessage>
0352	<ResponseHeader>
0353	<ProtocolVersion>
0354	<ProtocolVersionMajor type="Integer" value="1"/>
0355	<ProtocolVersionMinor type="Integer" value="2"/>
0356	</ProtocolVersion>
0357	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0358	<BatchCount type="Integer" value="1"/>
0359	</ResponseHeader>
0360	<BatchItem>
0361	<Operation type="Enumeration" value="Revoke"/>
0362	<ResultStatus type="Enumeration" value="Success"/>
0363	<ResponsePayload>
0364	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0365	</ResponsePayload>
0366	</BatchItem>
0367	</ResponseMessage>
# TIME 8	
0368	<RequestMessage>
0369	<RequestHeader>
0370	<ProtocolVersion>
0371	<ProtocolVersionMajor type="Integer" value="1"/>
0372	<ProtocolVersionMinor type="Integer" value="2"/>
0373	</ProtocolVersion>
0374	<BatchCount type="Integer" value="1"/>
0375	</RequestHeader>
0376	<BatchItem>
0377	<Operation type="Enumeration" value="GetAttributes"/>

0378	<RequestPayload>
0379	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0380	<AttributeName type="TextString" value="State"/>
0381	</RequestPayload>
0382	</BatchItem>
0383	</RequestMessage>
0384	<ResponseMessage>
0385	<ResponseHeader>
0386	<ProtocolVersion>
0387	<ProtocolVersionMajor type="Integer" value="1"/>
0388	<ProtocolVersionMinor type="Integer" value="2"/>
0389	</ProtocolVersion>
0390	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0391	<BatchCount type="Integer" value="1"/>
0392	</ResponseHeader>
0393	<BatchItem>
0394	<Operation type="Enumeration" value="GetAttributes"/>
0395	<ResultStatus type="Enumeration" value="Success"/>
0396	<ResponsePayload>
0397	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0398	<Attribute>
0399	<AttributeName type="TextString" value="State"/>
0400	<AttributeValue type="Enumeration" value="Compromised"/>
0401	</Attribute>
0402	</ResponsePayload>
0403	</BatchItem>
0404	</ResponseMessage>
0405	# TIME 9 <RequestMessage>
0406	<RequestHeader>
0407	<ProtocolVersion>
0408	<ProtocolVersionMajor type="Integer" value="1"/>
0409	<ProtocolVersionMinor type="Integer" value="2"/>
0410	</ProtocolVersion>
0411	<BatchCount type="Integer" value="1"/>
0412	</RequestHeader>
0413	<BatchItem>
0414	<Operation type="Enumeration" value="Destroy"/>
0415	<RequestPayload>
0416	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0417	</RequestPayload>
0418	</BatchItem>
0419	</RequestMessage>
0420	<ResponseMessage>
0421	<ResponseHeader>
0422	<ProtocolVersion>
0423	<ProtocolVersionMajor type="Integer" value="1"/>
0424	<ProtocolVersionMinor type="Integer" value="2"/>
0425	</ProtocolVersion>
0426	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0427	<BatchCount type="Integer" value="1"/>
0428	</ResponseHeader>
0429	<BatchItem>
0430	<Operation type="Enumeration" value="Destroy"/>
0431	<ResultStatus type="Enumeration" value="Success"/>

0432	<ResponsePayload>
0433	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0434	</ResponsePayload>
0435	</BatchItem>
0436	</ResponseMessage>

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### 163 3.3.3 AKLC-M-3-12

164 CreateKeyPair, 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="CreateKeyPair"/>
0011	<RequestPayload>
0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-3-12- private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-3-12- public"/>

0040	<NameType type="Enumeration"
0041	value="UninterpretedTextString"/>
0042	</AttributeValue>
0043	</Attribute>
0044	<AttributeName type="TextString" value="Cryptographic
0045	Usage Mask"/>
0046	<AttributeValue type="Integer" value="Verify"/>
0047	</Attribute>
0048	</PublicKeyTemplateAttribute>
0049	</RequestPayload>
0050	</BatchItem>
0051	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="2"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString"
0065	value="\$UNIQUE_IDENTIFIER_0"/>
0066	<PublicKeyUniqueIdentifier type="TextString"
0067	value="\$UNIQUE_IDENTIFIER_1"/>
0068	</ResponsePayload>
0069	</BatchItem>
0070	</ResponseMessage>
0069	# TIME 1
0070	<RequestMessage>
0071	<RequestHeader>
0072	<ProtocolVersion>
0073	<ProtocolVersionMajor type="Integer" value="1"/>
0074	<ProtocolVersionMinor type="Integer" value="2"/>
0075	</ProtocolVersion>
0076	<BatchCount type="Integer" value="1"/>
0077	</RequestHeader>
0078	<BatchItem>
0079	<Operation type="Enumeration" value="GetAttributes"/>
0080	<RequestPayload>
0081	<UniqueIdentifier type="TextString"
0082	value="\$UNIQUE_IDENTIFIER_0"/>
0083	<AttributeName type="TextString" value="State"/>
0084	<AttributeName type="TextString" value="Cryptographic Usage
0085	Mask"/>
0086	<AttributeName type="TextString" value="Unique Identifier"/>
0087	<AttributeName type="TextString" value="Object Type"/>
0088	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
	<AttributeName type="TextString" value="Cryptographic
	Length"/>
	<AttributeName type="TextString" value="Digest"/>
	<AttributeName type="TextString" value="Initial Date"/>

0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Original Creation
0091	Date"/>
0092	</RequestPayload>
0093	</BatchItem>
0094	</RequestMessage>
0094	<ResponseMessage>
0095	<ResponseHeader>
0096	<ProtocolVersion>
0097	<ProtocolVersionMajor type="Integer" value="1"/>
0098	<ProtocolVersionMinor type="Integer" value="2"/>
0099	</ProtocolVersion>
0100	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101	<BatchCount type="Integer" value="1"/>
0102	</ResponseHeader>
0103	<BatchItem>
0104	<Operation type="Enumeration" value="GetAttributes"/>
0105	<ResultStatus type="Enumeration" value="Success"/>
0106	<ResponsePayload>
0107	<UniqueIdentifier type="TextString"
0108	value="\$UNIQUE_IDENTIFIER_0"/>
0109	<Attribute>
0110	<AttributeName type="TextString" value="State"/>
0111	<AttributeValue type="Enumeration" value="PreActive"/>
0112	</Attribute>
0113	<Attribute>
0114	<AttributeName type="TextString" value="Cryptographic Usage
0115	Mask"/>
0116	<AttributeValue type="Integer" value="Sign"/>
0117	</Attribute>
0118	<Attribute>
0119	<AttributeName type="TextString" value="Unique Identifier"/>
0120	<AttributeValue type="TextString"
0121	value="\$UNIQUE_IDENTIFIER_0"/>
0122	</Attribute>
0123	<Attribute>
0124	<AttributeName type="TextString" value="Object Type"/>
0125	<AttributeValue type="Enumeration" value="PrivateKey"/>
0126	</Attribute>
0127	<Attribute>
0128	<AttributeName type="TextString" value="Cryptographic
0129	Algorithm"/>
0130	<AttributeValue type="Enumeration" value="RSA"/>
0131	</Attribute>
0132	<Attribute>
0133	<AttributeName type="TextString" value="Cryptographic
0134	Length"/>
0135	<AttributeValue type="Integer" value="2048"/>
0136	</Attribute>
0137	<Attribute>
0138	<AttributeName type="TextString" value="Digest"/>
	<AttributeValue>
	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
	<DigestValue type="ByteString"
	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
	230"/>
	<KeyFormatType type="Enumeration" value="PKCS_1"/>
	</AttributeValue>



0139	</Attribute>
0140	<Attribute>
0141	<AttributeName type="TextString" value="Initial Date"/>
0142	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0143	</Attribute>
0144	<Attribute>
0145	<AttributeName type="TextString" value="Last Change Date"/>
0146	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0147	</Attribute>
0148	<Attribute>
0149	<AttributeName type="TextString" value="Original Creation Date"/>
0150	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0151	</Attribute>
0152	</ResponsePayload>
0153	</BatchItem>
0154	</ResponseMessage>
0155	# TIME 2 <RequestMessage>
0156	<RequestHeader>
0157	<ProtocolVersion>
0158	<ProtocolVersionMajor type="Integer" value="1"/>
0159	<ProtocolVersionMinor type="Integer" value="2"/>
0160	</ProtocolVersion>
0161	<BatchCount type="Integer" value="1"/>
0162	</RequestHeader>
0163	<BatchItem>
0164	<Operation type="Enumeration" value="Activate"/>
0165	<RequestPayload>
0166	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0167	</RequestPayload>
0168	</BatchItem>
0169	</RequestMessage>
0170	<ResponseMessage>
0171	<ResponseHeader>
0172	<ProtocolVersion>
0173	<ProtocolVersionMajor type="Integer" value="1"/>
0174	<ProtocolVersionMinor type="Integer" value="2"/>
0175	</ProtocolVersion>
0176	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0177	<BatchCount type="Integer" value="1"/>
0178	</ResponseHeader>
0179	<BatchItem>
0180	<Operation type="Enumeration" value="Activate"/>
0181	<ResultStatus type="Enumeration" value="Success"/>
0182	<ResponsePayload>
0183	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0184	</ResponsePayload>
0185	</BatchItem>
0186	</ResponseMessage>
0187	# TIME 3 <RequestMessage>
0188	<RequestHeader>

0189	<ProtocolVersion>
0190	<ProtocolVersionMajor type="Integer" value="1"/>
0191	<ProtocolVersionMinor type="Integer" value="2"/>
0192	</ProtocolVersion>
0193	<BatchCount type="Integer" value="1"/>
0194	</RequestHeader>
0195	<BatchItem>
0196	<Operation type="Enumeration" value="GetAttributes"/>
0197	<RequestPayload>
0198	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0199	<AttributeName type="TextString" value="State"/>
0200	<AttributeName type="TextString" value="Activation Date"/>
0201	<AttributeName type="TextString" value="Deactivation Date"/>
0202	</RequestPayload>
0203	</BatchItem>
0204	</RequestMessage>
0205	<ResponseMessage>
0206	<ResponseHeader>
0207	<ProtocolVersion>
0208	<ProtocolVersionMajor type="Integer" value="1"/>
0209	<ProtocolVersionMinor type="Integer" value="2"/>
0210	</ProtocolVersion>
0211	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0212	<BatchCount type="Integer" value="1"/>
0213	</ResponseHeader>
0214	<BatchItem>
0215	<Operation type="Enumeration" value="GetAttributes"/>
0216	<ResultStatus type="Enumeration" value="Success"/>
0217	<ResponsePayload>
0218	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0219	<Attribute>
0220	<AttributeName type="TextString" value="State"/>
0221	<AttributeValue type="Enumeration" value="Active"/>
0222	</Attribute>
0223	<Attribute>
0224	<AttributeName type="TextString" value="Activation Date"/>
0225	<AttributeValue type="DateTime" value="2013-01-
	10T23:36:01+00:00"/>
0226	</Attribute>
0227	</ResponsePayload>
0228	</BatchItem>
0229	</ResponseMessage>
	# TIME 4
0230	<RequestMessage>
0231	<RequestHeader>
0232	<ProtocolVersion>
0233	<ProtocolVersionMajor type="Integer" value="1"/>
0234	<ProtocolVersionMinor type="Integer" value="2"/>
0235	</ProtocolVersion>
0236	<BatchCount type="Integer" value="1"/>
0237	</RequestHeader>
0238	<BatchItem>
0239	<Operation type="Enumeration" value="ModifyAttribute"/>
0240	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0241	<RequestPayload>
0242	<UniqueIdentifier type="TextString"

0243	value="\$UNIQUE_IDENTIFIER_0"/>
0244	<AttributeName type="TextString" value="Activation Date"/>
0245	<AttributeValue type="DateTime" value="\$NOW"/>
0246	</Attribute>
0247	</RequestPayload>
0248	</BatchItem>
0249	</RequestMessage>
0250	<ResponseMessage>
0251	<ResponseHeader>
0252	<ProtocolVersion>
0253	<ProtocolVersionMajor type="Integer" value="1"/>
0254	<ProtocolVersionMinor type="Integer" value="2"/>
0255	</ProtocolVersion>
0256	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0257	<BatchCount type="Integer" value="1"/>
0258	</ResponseHeader>
0259	<BatchItem>
0260	<Operation type="Enumeration" value="ModifyAttribute"/>
0261	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0262	<ResultStatus type="Enumeration" value="OperationFailed"/>
0263	<ResultReason type="Enumeration" value="PermissionDenied"/>
0264	<ResultMessage type="TextString" value="DENIED"/>
0265	</BatchItem>
0266	</ResponseMessage>
0267	# TIME 5
0268	<RequestMessage>
0269	<RequestHeader>
0270	<ProtocolVersion>
0271	<ProtocolVersionMajor type="Integer" value="1"/>
0272	<ProtocolVersionMinor type="Integer" value="2"/>
0273	</ProtocolVersion>
0274	<BatchCount type="Integer" value="1"/>
0275	</RequestHeader>
0276	<BatchItem>
0277	<Operation type="Enumeration" value="Revoke"/>
0278	<RequestPayload>
0279	<UniqueIdentifier type="TextString"
0280	value="\$UNIQUE_IDENTIFIER_0"/>
0281	<RevocationReason>
0282	<RevocationReasonCode type="Enumeration"
0283	value="KeyCompromise"/>
0284	</RevocationReason>
0285	<CompromiseOccurrenceDate type="DateTime" value="1970-01-
0286	01T00:00:06+00:00"/>
0287	</RequestPayload>
0288	</BatchItem>
0289	</RequestMessage>
0290	<ResponseMessage>
0291	<ResponseHeader>
0292	<ProtocolVersion>
0293	<ProtocolVersionMajor type="Integer" value="1"/>
0294	<ProtocolVersionMinor type="Integer" value="2"/>
0295	</ProtocolVersion>
0296	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0297	<BatchCount type="Integer" value="1"/>
0298	</ResponseHeader>
0299	<BatchItem>

0296	<Operation type="Enumeration" value="Revoke"/>
0297	<ResultStatus type="Enumeration" value="Success"/>
0298	<ResponsePayload>
0299	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0300	</ResponsePayload>
0301	</BatchItem>
0302	</ResponseMessage>
	# TIME 6
0303	<RequestMessage>
0304	<RequestHeader>
0305	<ProtocolVersion>
0306	<ProtocolVersionMajor type="Integer" value="1"/>
0307	<ProtocolVersionMinor type="Integer" value="2"/>
0308	</ProtocolVersion>
0309	<BatchCount type="Integer" value="1"/>
0310	</RequestHeader>
0311	<BatchItem>
0312	<Operation type="Enumeration" value="GetAttributes"/>
0313	<RequestPayload>
0314	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0315	<AttributeName type="TextString" value="State"/>
0316	</RequestPayload>
0317	</BatchItem>
0318	</RequestMessage>
0319	<ResponseMessage>
0320	<ResponseHeader>
0321	<ProtocolVersion>
0322	<ProtocolVersionMajor type="Integer" value="1"/>
0323	<ProtocolVersionMinor type="Integer" value="2"/>
0324	</ProtocolVersion>
0325	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0326	<BatchCount type="Integer" value="1"/>
0327	</ResponseHeader>
0328	<BatchItem>
0329	<Operation type="Enumeration" value="GetAttributes"/>
0330	<ResultStatus type="Enumeration" value="Success"/>
0331	<ResponsePayload>
0332	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0333	<Attribute>
0334	<AttributeName type="TextString" value="State"/>
0335	<AttributeValue type="Enumeration" value="Compromised"/>
0336	</Attribute>
0337	</ResponsePayload>
0338	</BatchItem>
0339	</ResponseMessage>
	# TIME 7
0340	<RequestMessage>
0341	<RequestHeader>
0342	<ProtocolVersion>
0343	<ProtocolVersionMajor type="Integer" value="1"/>
0344	<ProtocolVersionMinor type="Integer" value="2"/>
0345	</ProtocolVersion>
0346	<BatchCount type="Integer" value="1"/>
0347	</RequestHeader>
0348	<BatchItem>

0349	<Operation type="Enumeration" value="GetAttributes"/>
0350	<RequestPayload>
0351	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0352	<AttributeName type="TextString" value="State"/>
0353	</RequestPayload>
0354	</BatchItem>
0355	</RequestMessage>
0356	<ResponseMessage>
0357	<ResponseHeader>
0358	<ProtocolVersion>
0359	<ProtocolVersionMajor type="Integer" value="1"/>
0360	<ProtocolVersionMinor type="Integer" value="2"/>
0361	</ProtocolVersion>
0362	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0363	<BatchCount type="Integer" value="1"/>
0364	</ResponseHeader>
0365	<BatchItem>
0366	<Operation type="Enumeration" value="GetAttributes"/>
0367	<ResultStatus type="Enumeration" value="Success"/>
0368	<ResponsePayload>
0369	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0370	<Attribute>
0371	<AttributeName type="TextString" value="State"/>
0372	<AttributeValue type="Enumeration" value="PreActive"/>
0373	</Attribute>
0374	</ResponsePayload>
0375	</BatchItem>
0376	</ResponseMessage>
	# TIME 8
0377	<RequestMessage>
0378	<RequestHeader>
0379	<ProtocolVersion>
0380	<ProtocolVersionMajor type="Integer" value="1"/>
0381	<ProtocolVersionMinor type="Integer" value="2"/>
0382	</ProtocolVersion>
0383	<BatchCount type="Integer" value="1"/>
0384	</RequestHeader>
0385	<BatchItem>
0386	<Operation type="Enumeration" value="Destroy"/>
0387	<RequestPayload>
0388	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0389	</RequestPayload>
0390	</BatchItem>
0391	</RequestMessage>
0392	<ResponseMessage>
0393	<ResponseHeader>
0394	<ProtocolVersion>
0395	<ProtocolVersionMajor type="Integer" value="1"/>
0396	<ProtocolVersionMinor type="Integer" value="2"/>
0397	</ProtocolVersion>
0398	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0399	<BatchCount type="Integer" value="1"/>
0400	</ResponseHeader>
0401	<BatchItem>
0402	<Operation type="Enumeration" value="Destroy"/>

0403	<ResultStatus type="Enumeration" value="Success"/>
0404	<ResponsePayload>
0405	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0406	</ResponsePayload>
0407	</BatchItem>
0408	</ResponseMessage>
	# TIME 9
0409	<RequestMessage>
0410	<RequestHeader>
0411	<ProtocolVersion>
0412	<ProtocolVersionMajor type="Integer" value="1"/>
0413	<ProtocolVersionMinor type="Integer" value="2"/>
0414	</ProtocolVersion>
0415	<BatchCount type="Integer" value="1"/>
0416	</RequestHeader>
0417	<BatchItem>
0418	<Operation type="Enumeration" value="Destroy"/>
0419	<RequestPayload>
0420	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0421	</RequestPayload>
0422	</BatchItem>
0423	</RequestMessage>
0424	<ResponseMessage>
0425	<ResponseHeader>
0426	<ProtocolVersion>
0427	<ProtocolVersionMajor type="Integer" value="1"/>
0428	<ProtocolVersionMinor type="Integer" value="2"/>
0429	</ProtocolVersion>
0430	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0431	<BatchCount type="Integer" value="1"/>
0432	</ResponseHeader>
0433	<BatchItem>
0434	<Operation type="Enumeration" value="Destroy"/>
0435	<ResultStatus type="Enumeration" value="Success"/>
0436	<ResponsePayload>
0437	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0438	</ResponsePayload>
0439	</BatchItem>
0440	</ResponseMessage>

165

## 166 3.4 Optional Test Cases KMIP 4v1.0

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

### 169 3.4.1 AKLC-O-1-10

170 CreateKeyPair, 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="CreateKeyPair"/>
0011	<RequestPayload>
0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-O-1-10- private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-O-1-10- public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>

0055	<ProtocolVersionMinor type="Integer" value="0"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2013-01-11T08:32:04+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
	# TIME 1
0069	<RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="0"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Activation Date"/>
0091	</RequestPayload>
0092	</BatchItem>
0093	</RequestMessage>
0094	<ResponseMessage>
0095	<ResponseHeader>
0096	<ProtocolVersion>
0097	<ProtocolVersionMajor type="Integer" value="1"/>
0098	<ProtocolVersionMinor type="Integer" value="0"/>
0099	</ProtocolVersion>
0100	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101	<BatchCount type="Integer" value="1"/>
0102	</ResponseHeader>
0103	<BatchItem>
0104	<Operation type="Enumeration" value="GetAttributes"/>
0105	<ResultStatus type="Enumeration" value="Success"/>



0106	<ResponsePayload>
0107	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0108	<Attribute>
0109	<AttributeName type="TextString" value="State"/>
0110	<AttributeValue type="Enumeration" value="PreActive"/>
0111	</Attribute>
0112	<Attribute>
0113	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0114	<AttributeValue type="Integer" value="Sign"/>
0115	</Attribute>
0116	<Attribute>
0117	<AttributeName type="TextString" value="Unique Identifier"/>
0118	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0119	</Attribute>
0120	<Attribute>
0121	<AttributeName type="TextString" value="Object Type"/>
0122	<AttributeValue type="Enumeration" value="PrivateKey"/>
0123	</Attribute>
0124	<Attribute>
0125	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0126	<AttributeValue type="Enumeration" value="RSA"/>
0127	</Attribute>
0128	<Attribute>
0129	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0130	<AttributeValue type="Integer" value="2048"/>
0131	</Attribute>
0132	<Attribute>
0133	<AttributeName type="TextString" value="Digest"/>
0134	<AttributeValue>
0135	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0136	<DigestValue type="ByteString"
	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
	230"/>
0137	</AttributeValue>
0138	</Attribute>
0139	<Attribute>
0140	<AttributeName type="TextString" value="Initial Date"/>
0141	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0142	</Attribute>
0143	<Attribute>
0144	<AttributeName type="TextString" value="Last Change Date"/>
0145	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0146	</Attribute>
0147	</ResponsePayload>
0148	</BatchItem>
0149	</ResponseMessage>
	# TIME 2
0150	<RequestMessage>
0151	<RequestHeader>
0152	<ProtocolVersion>
0153	<ProtocolVersionMajor type="Integer" value="1"/>

0154	<ProtocolVersionMinor type="Integer" value="0"/>
0155	</ProtocolVersion>
0156	<BatchCount type="Integer" value="1"/>
0157	</RequestHeader>
0158	<BatchItem>
0159	<Operation type="Enumeration" value="Destroy"/>
0160	<RequestPayload>
0161	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0162	</RequestPayload>
0163	</BatchItem>
0164	</RequestMessage>
0165	<ResponseMessage>
0166	<ResponseHeader>
0167	<ProtocolVersion>
0168	<ProtocolVersionMajor type="Integer" value="1"/>
0169	<ProtocolVersionMinor type="Integer" value="0"/>
0170	</ProtocolVersion>
0171	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0172	<BatchCount type="Integer" value="1"/>
0173	</ResponseHeader>
0174	<BatchItem>
0175	<Operation type="Enumeration" value="Destroy"/>
0176	<ResultStatus type="Enumeration" value="Success"/>
0177	<ResponsePayload>
0178	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0179	</ResponsePayload>
0180	</BatchItem>
0181	</ResponseMessage>
0182	# TIME 3 <RequestMessage>
0183	<RequestHeader>
0184	<ProtocolVersion>
0185	<ProtocolVersionMajor type="Integer" value="1"/>
0186	<ProtocolVersionMinor type="Integer" value="0"/>
0187	</ProtocolVersion>
0188	<BatchCount type="Integer" value="1"/>
0189	</RequestHeader>
0190	<BatchItem>
0191	<Operation type="Enumeration" value="GetAttributes"/>
0192	<RequestPayload>
0193	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0194	</RequestPayload>
0195	</BatchItem>
0196	</RequestMessage>
0197	<ResponseMessage>
0198	<ResponseHeader>
0199	<ProtocolVersion>
0200	<ProtocolVersionMajor type="Integer" value="1"/>
0201	<ProtocolVersionMinor type="Integer" value="0"/>
0202	</ProtocolVersion>
0203	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0204	<BatchCount type="Integer" value="1"/>
0205	</ResponseHeader>
0206	<BatchItem>
0207	<Operation type="Enumeration" value="GetAttributes"/>

```

0208     <ResponseStatus type="Enumeration" value="Success"/>
0209     <ResponsePayload>
0210         <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0211         <Attribute>
0212             <AttributeName type="TextString" value="Unique Identifier"/>
0213             <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0214         </Attribute>
0215         <Attribute>
0216             <AttributeName type="TextString" value="Object Type"/>
0217             <AttributeValue type="Enumeration" value="PrivateKey"/>
0218         </Attribute>
0219         <Attribute>
0220             <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0221             <AttributeValue type="Enumeration" value="RSA"/>
0222         </Attribute>
0223         <Attribute>
0224             <AttributeName type="TextString" value="Cryptographic
Length"/>
0225             <AttributeValue type="Integer" value="2048"/>
0226         </Attribute>
0227         <Attribute>
0228             <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0229             <AttributeValue type="Integer" value="Sign"/>
0230         </Attribute>
0231         <Attribute>
0232             <AttributeName type="TextString" value="Destroy Date"/>
0233             <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0234         </Attribute>
0235         <Attribute>
0236             <AttributeName type="TextString" value="Digest"/>
0237             <AttributeValue>
0238                 <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0239                 <DigestValue type="ByteString"
value="4abc48c2ba00a6bba22cb6fc2827b46107354968872b395edb31354e78878
be6"/>
0240             </AttributeValue>
0241         </Attribute>
0242         <Attribute>
0243             <AttributeName type="TextString" value="Initial Date"/>
0244             <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0245         </Attribute>
0246         <Attribute>
0247             <AttributeName type="TextString" value="Last Change Date"/>
0248             <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0249         </Attribute>
0250         <Attribute>
0251             <AttributeName type="TextString" value="Lease Time"/>
0252             <AttributeValue type="Interval" value="3600"/>
0253         </Attribute>
0254         <Attribute>
0255             <AttributeName type="TextString" value="Link"/>

```

0256	<AttributeValue>
0257	<LinkType type="Enumeration" value="PublicKeyLink"/>
0258	<LinkedObjectIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0259	</AttributeValue>
0260	</Attribute>
0261	<Attribute>
0262	<AttributeName type="TextString" value="Name"/>
0263	<AttributeValue>
0264	<NameValue type="TextString" value="AKLC-O-1-10-private"/>
0265	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0266	</AttributeValue>
0267	</Attribute>
0268	<Attribute>
0269	<AttributeName type="TextString" value="State"/>
0270	<AttributeValue type="Enumeration" value="Destroyed"/>
0271	</Attribute>
0272	</ResponsePayload>
0273	</BatchItem>
0274	</ResponseMessage>
	# TIME 4
0275	<RequestMessage>
0276	<RequestHeader>
0277	<ProtocolVersion>
0278	<ProtocolVersionMajor type="Integer" value="1"/>
0279	<ProtocolVersionMinor type="Integer" value="0"/>
0280	</ProtocolVersion>
0281	<BatchCount type="Integer" value="1"/>
0282	</RequestHeader>
0283	<BatchItem>
0284	<Operation type="Enumeration" value="GetAttributes"/>
0285	<RequestPayload>
0286	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0287	</RequestPayload>
0288	</BatchItem>
0289	</RequestMessage>
0290	<ResponseMessage>
0291	<ResponseHeader>
0292	<ProtocolVersion>
0293	<ProtocolVersionMajor type="Integer" value="1"/>
0294	<ProtocolVersionMinor type="Integer" value="0"/>
0295	</ProtocolVersion>
0296	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0297	<BatchCount type="Integer" value="1"/>
0298	</ResponseHeader>
0299	<BatchItem>
0300	<Operation type="Enumeration" value="GetAttributes"/>
0301	<ResultStatus type="Enumeration" value="Success"/>
0302	<ResponsePayload>
0303	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0304	<Attribute>
0305	<AttributeName type="TextString" value="Unique Identifier"/>
0306	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0307	</Attribute>

```

0308     <Attribute>
0309         <AttributeName type="TextString" value="Object Type"/>
0310         <AttributeValue type="Enumeration" value="PublicKey"/>
0311     </Attribute>
0312     <Attribute>
0313         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0314         <AttributeValue type="Enumeration" value="RSA"/>
0315     </Attribute>
0316     <Attribute>
0317         <AttributeName type="TextString" value="Cryptographic
Length"/>
0318         <AttributeValue type="Integer" value="2048"/>
0319     </Attribute>
0320     <Attribute>
0321         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0322         <AttributeValue type="Integer" value="Verify"/>
0323     </Attribute>
0324     <Attribute>
0325         <AttributeName type="TextString" value="Digest"/>
0326         <AttributeValue>
0327             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0328             <DigestValue type="ByteString"
value="330306b0e337e32dd1b5acf92cb96fd39adb802f305e7406062248324816f
445"/>
0329         </AttributeValue>
0330     </Attribute>
0331     <Attribute>
0332         <AttributeName type="TextString" value="Initial Date"/>
0333         <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0334     </Attribute>
0335     <Attribute>
0336         <AttributeName type="TextString" value="Last Change Date"/>
0337         <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0338     </Attribute>
0339     <Attribute>
0340         <AttributeName type="TextString" value="Lease Time"/>
0341         <AttributeValue type="Interval" value="3600"/>
0342     </Attribute>
0343     <Attribute>
0344         <AttributeName type="TextString" value="Link"/>
0345         <AttributeValue>
0346             <LinkType type="Enumeration" value="PrivateKeyLink"/>
0347             <LinkedObjectIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0348         </AttributeValue>
0349     </Attribute>
0350     <Attribute>
0351         <AttributeName type="TextString" value="Name"/>
0352         <AttributeValue>
0353             <NameValue type="TextString" value="AKLC-O-1-10-public"/>
0354             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0355         </AttributeValue>
0356     </Attribute>

```

0357	<Attribute>
0358	<AttributeName type="TextString" value="State"/>
0359	<AttributeValue type="Enumeration" value="PreActive"/>
0360	</Attribute>
0361	</ResponsePayload>
0362	</BatchItem>
0363	</ResponseMessage>
# TIME 5	
0364	<RequestMessage>
0365	<RequestHeader>
0366	<ProtocolVersion>
0367	<ProtocolVersionMajor type="Integer" value="1"/>
0368	<ProtocolVersionMinor type="Integer" value="0"/>
0369	</ProtocolVersion>
0370	<BatchCount type="Integer" value="1"/>
0371	</RequestHeader>
0372	<BatchItem>
0373	<Operation type="Enumeration" value="Destroy"/>
0374	<RequestPayload>
0375	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0376	</RequestPayload>
0377	</BatchItem>
0378	</RequestMessage>
0379	<ResponseMessage>
0380	<ResponseHeader>
0381	<ProtocolVersion>
0382	<ProtocolVersionMajor type="Integer" value="1"/>
0383	<ProtocolVersionMinor type="Integer" value="0"/>
0384	</ProtocolVersion>
0385	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0386	<BatchCount type="Integer" value="1"/>
0387	</ResponseHeader>
0388	<BatchItem>
0389	<Operation type="Enumeration" value="Destroy"/>
0390	<ResultStatus type="Enumeration" value="Success"/>
0391	<ResponsePayload>
0392	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0393	</ResponsePayload>
0394	</BatchItem>
0395	</ResponseMessage>
# TIME 6	
0396	<RequestMessage>
0397	<RequestHeader>
0398	<ProtocolVersion>
0399	<ProtocolVersionMajor type="Integer" value="1"/>
0400	<ProtocolVersionMinor type="Integer" value="0"/>
0401	</ProtocolVersion>
0402	<BatchCount type="Integer" value="1"/>
0403	</RequestHeader>
0404	<BatchItem>
0405	<Operation type="Enumeration" value="GetAttributes"/>
0406	<RequestPayload>
0407	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0408	</RequestPayload>
0409	</BatchItem>

```

0410 </RequestMessage>
0411 <ResponseMessage>
0412   <ResponseHeader>
0413     <ProtocolVersion>
0414       <ProtocolVersionMajor type="Integer" value="1"/>
0415       <ProtocolVersionMinor type="Integer" value="0"/>
0416     </ProtocolVersion>
0417     <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0418     <BatchCount type="Integer" value="1"/>
0419   </ResponseHeader>
0420   <BatchItem>
0421     <Operation type="Enumeration" value="GetAttributes"/>
0422     <ResultStatus type="Enumeration" value="Success"/>
0423     <ResponsePayload>
0424       <UniqueIdentifier type="TextString"
0425 value="$UNIQUE_IDENTIFIER_1"/>
0426       <Attribute>
0427         <AttributeName type="TextString" value="Unique Identifier"/>
0428         <AttributeValue type="TextString"
0429 value="$UNIQUE_IDENTIFIER_1"/>
0430       </Attribute>
0431       <Attribute>
0432         <AttributeName type="TextString" value="Object Type"/>
0433         <AttributeValue type="Enumeration" value="PublicKey"/>
0434       </Attribute>
0435       <Attribute>
0436         <AttributeName type="TextString" value="Cryptographic
0437 Algorithm"/>
0438         <AttributeValue type="Enumeration" value="RSA"/>
0439       </Attribute>
0440       <Attribute>
0441         <AttributeName type="TextString" value="Cryptographic
0442 Length"/>
0443         <AttributeValue type="Integer" value="2048"/>
0444       </Attribute>
0445       <Attribute>
0446         <AttributeName type="TextString" value="Cryptographic Usage
0447 Mask"/>
0448         <AttributeValue type="Integer" value="Verify"/>
0449       </Attribute>
0450       <Attribute>
0451         <AttributeName type="TextString" value="Destroy Date"/>
0452         <AttributeValue type="DateTime" value="2013-01-
0453 11T08:38:18+00:00"/>
0454       </Attribute>
0455       <Attribute>
0456         <AttributeName type="TextString" value="Digest"/>
0457         <AttributeValue>
0458           <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0459           <DigestValue type="ByteString"
0460 value="b06f3e3d107a282adb5fe316356d13679d7cf7429d14a6f20665f45ba4d28
0461 83c"/>
0462         </AttributeValue>
0463       </Attribute>
0464       <Attribute>
0465         <AttributeName type="TextString" value="Initial Date"/>
0466         <AttributeValue type="DateTime" value="2013-01-
0467 11T08:38:18+00:00"/>

```

```

0459     </Attribute>
0460     <Attribute>
0461         <AttributeName type="TextString" value="Last Change Date"/>
0462         <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0463     </Attribute>
0464     <Attribute>
0465         <AttributeName type="TextString" value="Lease Time"/>
0466         <AttributeValue type="Interval" value="3600"/>
0467     </Attribute>
0468     <Attribute>
0469         <AttributeName type="TextString" value="Link"/>
0470         <AttributeValue>
0471             <LinkType type="Enumeration" value="PrivateKeyLink"/>
0472             <LinkedObjectIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0473         </AttributeValue>
0474     </Attribute>
0475     <Attribute>
0476         <AttributeName type="TextString" value="Name"/>
0477         <AttributeValue>
0478             <NameValue type="TextString" value="AKLC-O-1-10-public"/>
0479             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0480         </AttributeValue>
0481     </Attribute>
0482     <Attribute>
0483         <AttributeName type="TextString" value="State"/>
0484         <AttributeValue type="Enumeration" value="Destroyed"/>
0485     </Attribute>
0486 </ResponsePayload>
0487 </BatchItem>
0488 </ResponseMessage>

```

171

## 172 3.5 Optional Test Cases KMIP 4v1.1

173 ~~This section documents the optional test cases that a client or server conformant to the Asymmetric Key~~  
174 ~~Lifecycle Profile SHALL support under KMIP Specification 1.1.~~

### 175 3.5.1 AKLC-O-1-11

176 CreateKeyPair, 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="CreateKeyPair"/>
0011 <RequestPayload>
0012     <CommonTemplateAttribute>
0013         <Attribute>

```



```

0014     <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015     <AttributeValue type="Enumeration" value="RSA"/>
0016     </Attribute>
0017     <Attribute>
0018     <AttributeName type="TextString" value="Cryptographic
Length"/>
0019     <AttributeValue type="Integer" value="2048"/>
0020     </Attribute>
0021     </CommonTemplateAttribute>
0022     <PrivateKeyTemplateAttribute>
0023     <Attribute>
0024     <AttributeName type="TextString" value="Name"/>
0025     <AttributeValue>
0026     <NameValue type="TextString" value="AKLC-O-1-11-
private"/>
0027     <NameType type="Enumeration"
value="UninterpretedTextString"/>
0028     </AttributeValue>
0029     </Attribute>
0030     <Attribute>
0031     <AttributeName type="TextString" value="Cryptographic
Usage Mask"/>
0032     <AttributeValue type="Integer" value="Sign"/>
0033     </Attribute>
0034     </PrivateKeyTemplateAttribute>
0035     <PublicKeyTemplateAttribute>
0036     <Attribute>
0037     <AttributeName type="TextString" value="Name"/>
0038     <AttributeValue>
0039     <NameValue type="TextString" value="AKLC-O-1-11-
public"/>
0040     <NameType type="Enumeration"
value="UninterpretedTextString"/>
0041     </AttributeValue>
0042     </Attribute>
0043     <Attribute>
0044     <AttributeName type="TextString" value="Cryptographic
Usage Mask"/>
0045     <AttributeValue type="Integer" value="Verify"/>
0046     </Attribute>
0047     </PublicKeyTemplateAttribute>
0048     </RequestPayload>
0049     </BatchItem>
0050 </RequestMessage>
0051 <ResponseMessage>
0052 <ResponseHeader>
0053 <ProtocolVersion>
0054 <ProtocolVersionMajor type="Integer" value="1"/>
0055 <ProtocolVersionMinor type="Integer" value="1"/>
0056 </ProtocolVersion>
0057 <TimeStamp type="DateTime" value="2013-01-11T08:32:04+00:00"/>
0058 <BatchCount type="Integer" value="1"/>
0059 </ResponseHeader>
0060 <BatchItem>
0061 <Operation type="Enumeration" value="CreateKeyPair"/>
0062 <ResultStatus type="Enumeration" value="Success"/>
0063 <ResponsePayload>

```

0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
	# TIME 1
0069	<RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="1"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Activation Date"/>
0091	</RequestPayload>
0092	</BatchItem>
0093	</RequestMessage>
0094	<ResponseMessage>
0095	<ResponseHeader>
0096	<ProtocolVersion>
0097	<ProtocolVersionMajor type="Integer" value="1"/>
0098	<ProtocolVersionMinor type="Integer" value="1"/>
0099	</ProtocolVersion>
0100	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101	<BatchCount type="Integer" value="1"/>
0102	</ResponseHeader>
0103	<BatchItem>
0104	<Operation type="Enumeration" value="GetAttributes"/>
0105	<ResultStatus type="Enumeration" value="Success"/>
0106	<ResponsePayload>
0107	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0108	<Attribute>
0109	<AttributeName type="TextString" value="State"/>
0110	<AttributeValue type="Enumeration" value="PreActive"/>
0111	</Attribute>
0112	<Attribute>
0113	<AttributeName type="TextString" value="Cryptographic Usage

0114	Mask"/>
0115	<AttributeValue type="Integer" value="Sign"/>
0116	</Attribute>
0117	<AttributeName type="TextString" value="Unique Identifier"/>
0118	<AttributeValue type="TextString"
0119	value="\$UNIQUE_IDENTIFIER_0"/>
0120	</Attribute>
0121	<AttributeName type="TextString" value="Object Type"/>
0122	<AttributeValue type="Enumeration" value="PrivateKey"/>
0123	</Attribute>
0124	<AttributeName type="TextString" value="Cryptographic
0125	Algorithm"/>
0126	<AttributeValue type="Enumeration" value="RSA"/>
0127	</Attribute>
0128	<AttributeName type="TextString" value="Cryptographic
0129	Length"/>
0130	<AttributeValue type="Integer" value="2048"/>
0131	</Attribute>
0132	<AttributeName type="TextString" value="Digest"/>
0133	<AttributeValue type="Enumeration" value="SHA_256"/>
0134	<DigestValue type="ByteString"
0135	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
0136	230"/>
0137	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0138	</AttributeValue>
0139	</Attribute>
0140	<AttributeName type="TextString" value="Initial Date"/>
0141	<AttributeValue type="DateTime" value="2013-01-
0142	11T08:18:21+00:00"/>
0143	</Attribute>
0144	<AttributeName type="TextString" value="Last Change Date"/>
0145	<AttributeValue type="DateTime" value="2013-01-
0146	11T08:18:21+00:00"/>
0147	</Attribute>
0148	</ResponsePayload>
0149	</BatchItem>
0150	</ResponseMessage>
0151	# TIME 2
0152	<RequestMessage>
0153	<RequestHeader>
0154	<ProtocolVersion>
0155	<ProtocolVersionMajor type="Integer" value="1"/>
0156	<ProtocolVersionMinor type="Integer" value="1"/>
0157	</ProtocolVersion>
0158	<BatchCount type="Integer" value="1"/>
0159	</RequestHeader>
0160	<BatchItem>
0161	<Operation type="Enumeration" value="Destroy"/>
0162	<RequestPayload>
0163	<UniqueIdentifier type="TextString"

0163	value="\$UNIQUE_IDENTIFIER_0"/>
0164	</RequestPayload>
0165	</BatchItem>
0166	</RequestMessage>
0166	<ResponseMessage>
0167	<ResponseHeader>
0168	<ProtocolVersion>
0169	<ProtocolVersionMajor type="Integer" value="1"/>
0170	<ProtocolVersionMinor type="Integer" value="1"/>
0171	</ProtocolVersion>
0172	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0173	<BatchCount type="Integer" value="1"/>
0174	</ResponseHeader>
0175	<BatchItem>
0176	<Operation type="Enumeration" value="Destroy"/>
0177	<ResultStatus type="Enumeration" value="Success"/>
0178	<ResponsePayload>
0179	<UniqueIdentifier type="TextString"
0180	value="\$UNIQUE_IDENTIFIER_0"/>
0181	</ResponsePayload>
0182	</BatchItem>
0182	</ResponseMessage>
0183	# TIME 3
0183	<RequestMessage>
0184	<RequestHeader>
0185	<ProtocolVersion>
0186	<ProtocolVersionMajor type="Integer" value="1"/>
0187	<ProtocolVersionMinor type="Integer" value="1"/>
0188	</ProtocolVersion>
0189	<BatchCount type="Integer" value="1"/>
0190	</RequestHeader>
0191	<BatchItem>
0192	<Operation type="Enumeration" value="GetAttributes"/>
0193	<RequestPayload>
0194	<UniqueIdentifier type="TextString"
0195	value="\$UNIQUE_IDENTIFIER_0"/>
0196	</RequestPayload>
0197	</BatchItem>
0197	</RequestMessage>
0198	<ResponseMessage>
0199	<ResponseHeader>
0200	<ProtocolVersion>
0201	<ProtocolVersionMajor type="Integer" value="1"/>
0202	<ProtocolVersionMinor type="Integer" value="1"/>
0203	</ProtocolVersion>
0204	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0205	<BatchCount type="Integer" value="1"/>
0206	</ResponseHeader>
0207	<BatchItem>
0208	<Operation type="Enumeration" value="GetAttributes"/>
0209	<ResultStatus type="Enumeration" value="Success"/>
0210	<ResponsePayload>
0211	<UniqueIdentifier type="TextString"
0212	value="\$UNIQUE_IDENTIFIER_0"/>
0212	<Attribute>
0213	<AttributeName type="TextString" value="Unique Identifier"/>
0214	<AttributeValue type="TextString"
0214	value="\$UNIQUE_IDENTIFIER_0"/>

```

0215     </Attribute>
0216     <Attribute>
0217         <AttributeName type="TextString" value="Object Type"/>
0218         <AttributeValue type="Enumeration" value="PrivateKey"/>
0219     </Attribute>
0220     <Attribute>
0221         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0222         <AttributeValue type="Enumeration" value="RSA"/>
0223     </Attribute>
0224     <Attribute>
0225         <AttributeName type="TextString" value="Cryptographic
Length"/>
0226         <AttributeValue type="Integer" value="2048"/>
0227     </Attribute>
0228     <Attribute>
0229         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0230         <AttributeValue type="Integer" value="Sign"/>
0231     </Attribute>
0232     <Attribute>
0233         <AttributeName type="TextString" value="Destroy Date"/>
0234         <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0235     </Attribute>
0236     <Attribute>
0237         <AttributeName type="TextString" value="Digest"/>
0238         <AttributeValue>
0239             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0240             <DigestValue type="ByteString"
value="4abc48c2ba00a6bba22cb6fc2827b46107354968872b395edb31354e78878
be6"/>
0241         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0242     </AttributeValue>
0243 </Attribute>
0244 <Attribute>
0245     <AttributeName type="TextString" value="Fresh"/>
0246     <AttributeValue type="Boolean" value="true"/>
0247 </Attribute>
0248 <Attribute>
0249     <AttributeName type="TextString" value="Initial Date"/>
0250     <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0251 </Attribute>
0252 <Attribute>
0253     <AttributeName type="TextString" value="Last Change Date"/>
0254     <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0255 </Attribute>
0256 <Attribute>
0257     <AttributeName type="TextString" value="Lease Time"/>
0258     <AttributeValue type="Interval" value="3600"/>
0259 </Attribute>
0260 <Attribute>
0261     <AttributeName type="TextString" value="Link"/>
0262     <AttributeValue>
0263         <LinkType type="Enumeration" value="PublicKeyLink"/>
0264         <LinkedObjectIdentifier type="TextString"

```

```

0265     value="$UNIQUE_IDENTIFIER_1"/>
0266         </AttributeValue>
0267     </Attribute>
0268     <Attribute>
0269         <AttributeName type="TextString" value="Name"/>
0270         <AttributeValue>
0271             <NameValue type="TextString" value="AKLC-O-1-11-private"/>
0272             <NameType type="Enumeration"
0273 value="UninterpretedTextString"/>
0274         </AttributeValue>
0275     </Attribute>
0276     <Attribute>
0277         <AttributeName type="TextString" value="State"/>
0278         <AttributeValue type="Enumeration" value="Destroyed"/>
0279     </Attribute>
0280 </ResponsePayload>
</BatchItem>
</ResponseMessage>

# TIME 4
0281 <RequestMessage>
0282     <RequestHeader>
0283         <ProtocolVersion>
0284             <ProtocolVersionMajor type="Integer" value="1"/>
0285             <ProtocolVersionMinor type="Integer" value="1"/>
0286         </ProtocolVersion>
0287         <BatchCount type="Integer" value="1"/>
0288     </RequestHeader>
0289     <BatchItem>
0290         <Operation type="Enumeration" value="GetAttributes"/>
0291         <RequestPayload>
0292             <UniqueIdentifier type="TextString"
0293 value="$UNIQUE_IDENTIFIER_1"/>
0294         </RequestPayload>
0295     </BatchItem>
</RequestMessage>

0296 <ResponseMessage>
0297     <ResponseHeader>
0298         <ProtocolVersion>
0299             <ProtocolVersionMajor type="Integer" value="1"/>
0300             <ProtocolVersionMinor type="Integer" value="1"/>
0301         </ProtocolVersion>
0302         <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0303         <BatchCount type="Integer" value="1"/>
0304     </ResponseHeader>
0305     <BatchItem>
0306         <Operation type="Enumeration" value="GetAttributes"/>
0307         <ResultStatus type="Enumeration" value="Success"/>
0308         <ResponsePayload>
0309             <UniqueIdentifier type="TextString"
0310 value="$UNIQUE_IDENTIFIER_1"/>
0311             <Attribute>
0312                 <AttributeName type="TextString" value="Unique Identifier"/>
0313                 <AttributeValue type="TextString"
0314 value="$UNIQUE_IDENTIFIER_1"/>
0315             </Attribute>
0316             <Attribute>
0317                 <AttributeName type="TextString" value="Object Type"/>
0318                 <AttributeValue type="Enumeration" value="PublicKey"/>

```

```

0317     </Attribute>
0318     <Attribute>
0319         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0320         <AttributeValue type="Enumeration" value="RSA"/>
0321     </Attribute>
0322     <Attribute>
0323         <AttributeName type="TextString" value="Cryptographic
Length"/>
0324         <AttributeValue type="Integer" value="2048"/>
0325     </Attribute>
0326     <Attribute>
0327         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0328         <AttributeValue type="Integer" value="Verify"/>
0329     </Attribute>
0330     <Attribute>
0331         <AttributeName type="TextString" value="Digest"/>
0332         <AttributeValue>
0333             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0334             <DigestValue type="ByteString"
value="330306b0e337e32dd1b5acf92cb96fd39adb802f305e7406062248324816f
445"/>
0335         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0336     </AttributeValue>
0337 </Attribute>
0338 <Attribute>
0339     <AttributeName type="TextString" value="Fresh"/>
0340     <AttributeValue type="Boolean" value="true"/>
0341 </Attribute>
0342 <Attribute>
0343     <AttributeName type="TextString" value="Initial Date"/>
0344     <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0345 </Attribute>
0346 <Attribute>
0347     <AttributeName type="TextString" value="Last Change Date"/>
0348     <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0349 </Attribute>
0350 <Attribute>
0351     <AttributeName type="TextString" value="Lease Time"/>
0352     <AttributeValue type="Interval" value="3600"/>
0353 </Attribute>
0354 <Attribute>
0355     <AttributeName type="TextString" value="Link"/>
0356     <AttributeValue>
0357         <LinkType type="Enumeration" value="PrivateKeyLink"/>
0358         <LinkedObjectIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0359     </AttributeValue>
0360 </Attribute>
0361 <Attribute>
0362     <AttributeName type="TextString" value="Name"/>
0363     <AttributeValue>
0364         <NameValue type="TextString" value="AKLC-O-1-11-public"/>
0365         <NameType type="Enumeration"
value="UninterpretedTextString"/>

```

0366	</AttributeValue>
0367	</Attribute>
0368	<Attribute>
0369	<AttributeName type="TextString" value="State"/>
0370	<AttributeValue type="Enumeration" value="PreActive"/>
0371	</Attribute>
0372	</ResponsePayload>
0373	</BatchItem>
0374	</ResponseMessage>
	# TIME 5
0375	<RequestMessage>
0376	<RequestHeader>
0377	<ProtocolVersion>
0378	<ProtocolVersionMajor type="Integer" value="1"/>
0379	<ProtocolVersionMinor type="Integer" value="1"/>
0380	</ProtocolVersion>
0381	<BatchCount type="Integer" value="1"/>
0382	</RequestHeader>
0383	<BatchItem>
0384	<Operation type="Enumeration" value="Destroy"/>
0385	<RequestPayload>
0386	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0387	</RequestPayload>
0388	</BatchItem>
0389	</RequestMessage>
0390	<ResponseMessage>
0391	<ResponseHeader>
0392	<ProtocolVersion>
0393	<ProtocolVersionMajor type="Integer" value="1"/>
0394	<ProtocolVersionMinor type="Integer" value="1"/>
0395	</ProtocolVersion>
0396	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0397	<BatchCount type="Integer" value="1"/>
0398	</ResponseHeader>
0399	<BatchItem>
0400	<Operation type="Enumeration" value="Destroy"/>
0401	<ResultStatus type="Enumeration" value="Success"/>
0402	<ResponsePayload>
0403	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0404	</ResponsePayload>
0405	</BatchItem>
0406	</ResponseMessage>
	# TIME 6
0407	<RequestMessage>
0408	<RequestHeader>
0409	<ProtocolVersion>
0410	<ProtocolVersionMajor type="Integer" value="1"/>
0411	<ProtocolVersionMinor type="Integer" value="1"/>
0412	</ProtocolVersion>
0413	<BatchCount type="Integer" value="1"/>
0414	</RequestHeader>
0415	<BatchItem>
0416	<Operation type="Enumeration" value="GetAttributes"/>
0417	<RequestPayload>
0418	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>



0419	</RequestPayload>
0420	</BatchItem>
0421	</RequestMessage>
0422	<ResponseMessage>
0423	<ResponseHeader>
0424	<ProtocolVersion>
0425	<ProtocolVersionMajor type="Integer" value="1"/>
0426	<ProtocolVersionMinor type="Integer" value="1"/>
0427	</ProtocolVersion>
0428	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0429	<BatchCount type="Integer" value="1"/>
0430	</ResponseHeader>
0431	<BatchItem>
0432	<Operation type="Enumeration" value="GetAttributes"/>
0433	<ResultStatus type="Enumeration" value="Success"/>
0434	<ResponsePayload>
0435	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0436	<Attribute>
0437	<AttributeName type="TextString" value="Unique Identifier"/>
0438	<AttributeValue type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0439	</Attribute>
0440	<Attribute>
0441	<AttributeName type="TextString" value="Object Type"/>
0442	<AttributeValue type="Enumeration" value="PublicKey"/>
0443	</Attribute>
0444	<Attribute>
0445	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0446	<AttributeValue type="Enumeration" value="RSA"/>
0447	</Attribute>
0448	<Attribute>
0449	<AttributeName type="TextString" value="Cryptographic Length"/>
0450	<AttributeValue type="Integer" value="2048"/>
0451	</Attribute>
0452	<Attribute>
0453	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0454	<AttributeValue type="Integer" value="Verify"/>
0455	</Attribute>
0456	<Attribute>
0457	<AttributeName type="TextString" value="Destroy Date"/>
0458	<AttributeValue type="DateTime" value="2013-01-11T08:38:18+00:00"/>
0459	</Attribute>
0460	<Attribute>
0461	<AttributeName type="TextString" value="Digest"/>
0462	<AttributeValue>
0463	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0464	<DigestValue type="ByteString" value="b06f3e3d107a282adb5fe316356d13679d7cf7429d14a6f20665f45ba4d2883c"/>
0465	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0466	</AttributeValue>
0467	</Attribute>
0468	</Attribute>

```

0469     <AttributeName type="TextString" value="Fresh"/>
0470     <AttributeValue type="Boolean" value="true"/>
0471   </Attribute>
0472   <Attribute>
0473     <AttributeName type="TextString" value="Initial Date"/>
0474     <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0475   </Attribute>
0476   <Attribute>
0477     <AttributeName type="TextString" value="Last Change Date"/>
0478     <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0479   </Attribute>
0480   <Attribute>
0481     <AttributeName type="TextString" value="Lease Time"/>
0482     <AttributeValue type="Interval" value="3600"/>
0483   </Attribute>
0484   <Attribute>
0485     <AttributeName type="TextString" value="Link"/>
0486     <AttributeValue>
0487       <LinkType type="Enumeration" value="PrivateKeyLink"/>
0488       <LinkedObjectIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0489     </AttributeValue>
0490   </Attribute>
0491   <Attribute>
0492     <AttributeName type="TextString" value="Name"/>
0493     <AttributeValue>
0494       <NameValue type="TextString" value="AKLC-O-1-11-public"/>
0495       <NameType type="Enumeration"
value="UninterpretedTextString"/>
0496     </AttributeValue>
0497   </Attribute>
0498   <Attribute>
0499     <AttributeName type="TextString" value="State"/>
0500     <AttributeValue type="Enumeration" value="Destroyed"/>
0501   </Attribute>
0502 </ResponsePayload>
0503 </BatchItem>
0504 </ResponseMessage>

```

177

## 178 3.6 Optional Test Cases KMIP 4v1.2

179 ~~This section documents the optional test cases that a client or server conformant to the Asymmetric Key~~  
180 ~~Lifecycle Profile SHALL support under KMIP Specification 1.2.~~

### 181 3.6.1 AKLC-O-1-12

182 CreateKeyPair, GetAttributes, Destroy, GetAttributes

```

0001 # 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="CreateKeyPair"/>
0011	<RequestPayload>
0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-O-1-12- private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-O-1-12- public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="2"/>
0056	</ProtocolVersion>

0057	<TimeStamp type="DateTime" value="2013-01-11T08:32:04+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
	# TIME 1
0069	<RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="2"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Activation Date"/>
0091	<AttributeName type="TextString" value="Original Creation
	Date"/>
0092	</RequestPayload>
0093	</BatchItem>
0094	</RequestMessage>
0095	<ResponseMessage>
0096	<ResponseHeader>
0097	<ProtocolVersion>
0098	<ProtocolVersionMajor type="Integer" value="1"/>
0099	<ProtocolVersionMinor type="Integer" value="2"/>
0100	</ProtocolVersion>
0101	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0102	<BatchCount type="Integer" value="1"/>
0103	</ResponseHeader>
0104	<BatchItem>
0105	<Operation type="Enumeration" value="GetAttributes"/>
0106	<ResultStatus type="Enumeration" value="Success"/>

```

0107     <ResponsePayload>
0108     <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0109     <Attribute>
0110         <AttributeName type="TextString" value="State"/>
0111         <AttributeValue type="Enumeration" value="PreActive"/>
0112     </Attribute>
0113     <Attribute>
0114         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0115         <AttributeValue type="Integer" value="Sign"/>
0116     </Attribute>
0117     <Attribute>
0118         <AttributeName type="TextString" value="Unique Identifier"/>
0119         <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0120     </Attribute>
0121     <Attribute>
0122         <AttributeName type="TextString" value="Object Type"/>
0123         <AttributeValue type="Enumeration" value="PrivateKey"/>
0124     </Attribute>
0125     <Attribute>
0126         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0127         <AttributeValue type="Enumeration" value="RSA"/>
0128     </Attribute>
0129     <Attribute>
0130         <AttributeName type="TextString" value="Cryptographic
Length"/>
0131         <AttributeValue type="Integer" value="2048"/>
0132     </Attribute>
0133     <Attribute>
0134         <AttributeName type="TextString" value="Digest"/>
0135         <AttributeValue>
0136             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0137             <DigestValue type="ByteString"
value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
230"/>
0138         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0139     </AttributeValue>
0140 </Attribute>
0141 <Attribute>
0142     <AttributeName type="TextString" value="Initial Date"/>
0143     <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0144 </Attribute>
0145 <Attribute>
0146     <AttributeName type="TextString" value="Last Change Date"/>
0147     <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0148 </Attribute>
0149 <Attribute>
0150     <AttributeName type="TextString" value="Original Creation
Date"/>
0151     <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0152 </Attribute>
0153 </ResponsePayload>

```

0154	</BatchItem>
0155	</ResponseMessage>
0156	# TIME 2
0156	<RequestMessage>
0157	<RequestHeader>
0158	<ProtocolVersion>
0159	<ProtocolVersionMajor type="Integer" value="1"/>
0160	<ProtocolVersionMinor type="Integer" value="2"/>
0161	</ProtocolVersion>
0162	<BatchCount type="Integer" value="1"/>
0163	</RequestHeader>
0164	<BatchItem>
0165	<Operation type="Enumeration" value="Destroy"/>
0166	<RequestPayload>
0167	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0168	</RequestPayload>
0169	</BatchItem>
0170	</RequestMessage>
0171	<ResponseMessage>
0172	<ResponseHeader>
0173	<ProtocolVersion>
0174	<ProtocolVersionMajor type="Integer" value="1"/>
0175	<ProtocolVersionMinor type="Integer" value="2"/>
0176	</ProtocolVersion>
0177	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0178	<BatchCount type="Integer" value="1"/>
0179	</ResponseHeader>
0180	<BatchItem>
0181	<Operation type="Enumeration" value="Destroy"/>
0182	<ResultStatus type="Enumeration" value="Success"/>
0183	<ResponsePayload>
0184	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0185	</ResponsePayload>
0186	</BatchItem>
0187	</ResponseMessage>
0188	# TIME 3
0188	<RequestMessage>
0189	<RequestHeader>
0190	<ProtocolVersion>
0191	<ProtocolVersionMajor type="Integer" value="1"/>
0192	<ProtocolVersionMinor type="Integer" value="2"/>
0193	</ProtocolVersion>
0194	<BatchCount type="Integer" value="1"/>
0195	</RequestHeader>
0196	<BatchItem>
0197	<Operation type="Enumeration" value="GetAttributes"/>
0198	<RequestPayload>
0199	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0200	</RequestPayload>
0201	</BatchItem>
0202	</RequestMessage>
0203	<ResponseMessage>
0204	<ResponseHeader>
0205	<ProtocolVersion>
0206	<ProtocolVersionMajor type="Integer" value="1"/>

```

0207     <ProtocolVersionMinor type="Integer" value="2"/>
0208     </ProtocolVersion>
0209     <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0210     <BatchCount type="Integer" value="1"/>
0211     </ResponseHeader>
0212     <BatchItem>
0213         <Operation type="Enumeration" value="GetAttributes"/>
0214         <ResultStatus type="Enumeration" value="Success"/>
0215         <ResponsePayload>
0216             <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0217             <Attribute>
0218                 <AttributeName type="TextString" value="Unique Identifier"/>
0219                 <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0220             </Attribute>
0221             <Attribute>
0222                 <AttributeName type="TextString" value="Object Type"/>
0223                 <AttributeValue type="Enumeration" value="PrivateKey"/>
0224             </Attribute>
0225             <Attribute>
0226                 <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0227                 <AttributeValue type="Enumeration" value="RSA"/>
0228             </Attribute>
0229             <Attribute>
0230                 <AttributeName type="TextString" value="Cryptographic
Length"/>
0231                 <AttributeValue type="Integer" value="2048"/>
0232             </Attribute>
0233             <Attribute>
0234                 <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0235                 <AttributeValue type="Integer" value="Sign"/>
0236             </Attribute>
0237             <Attribute>
0238                 <AttributeName type="TextString" value="Destroy Date"/>
0239                 <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0240             </Attribute>
0241             <Attribute>
0242                 <AttributeName type="TextString" value="Digest"/>
0243                 <AttributeValue>
0244                     <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0245                     <DigestValue type="ByteString"
value="4abc48c2ba00a6bba22cb6fc2827b46107354968872b395edb31354e78878
be6"/>
0246                 <KeyFormatType type="Enumeration" value="PKCS_1"/>
0247             </AttributeValue>
0248             </Attribute>
0249             <Attribute>
0250                 <AttributeName type="TextString" value="Fresh"/>
0251                 <AttributeValue type="Boolean" value="true"/>
0252             </Attribute>
0253             <Attribute>
0254                 <AttributeName type="TextString" value="Initial Date"/>
0255                 <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>

```

0256	</Attribute>
0257	<Attribute>
0258	<AttributeName type="TextString" value="Last Change Date"/>
0259	<AttributeValue type="DateTime" value="2013-01-11T08:40:05+00:00"/>
0260	</Attribute>
0261	<Attribute>
0262	<AttributeName type="TextString" value="Lease Time"/>
0263	<AttributeValue type="Interval" value="3600"/>
0264	</Attribute>
0265	<Attribute>
0266	<AttributeName type="TextString" value="Link"/>
0267	<AttributeValue>
0268	<LinkType type="Enumeration" value="PublicKeyLink"/>
0269	<LinkedObjectIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0270	</AttributeValue>
0271	</Attribute>
0272	<Attribute>
0273	<AttributeName type="TextString" value="Name"/>
0274	<AttributeValue>
0275	<NameValue type="TextString" value="AKLC-O-1-12-private"/>
0276	<NameType type="Enumeration" value="UninterpretedTextString"/>
0277	</AttributeValue>
0278	</Attribute>
0279	<Attribute>
0280	<AttributeName type="TextString" value="Original Creation Date"/>
0281	<AttributeValue type="DateTime" value="2013-01-11T08:40:05+00:00"/>
0282	</Attribute>
0283	<Attribute>
0284	<AttributeName type="TextString" value="State"/>
0285	<AttributeValue type="Enumeration" value="Destroyed"/>
0286	</Attribute>
0287	</ResponsePayload>
0288	</BatchItem>
0289	</ResponseMessage>
0290	# TIME 4 <RequestMessage>
0291	<RequestHeader>
0292	<ProtocolVersion>
0293	<ProtocolVersionMajor type="Integer" value="1"/>
0294	<ProtocolVersionMinor type="Integer" value="2"/>
0295	</ProtocolVersion>
0296	<BatchCount type="Integer" value="1"/>
0297	</RequestHeader>
0298	<BatchItem>
0299	<Operation type="Enumeration" value="GetAttributes"/>
0300	<RequestPayload>
0301	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0302	</RequestPayload>
0303	</BatchItem>
0304	</RequestMessage>
0305	<ResponseMessage>
0306	<ResponseHeader>



```

0307     <ProtocolVersion>
0308         <ProtocolVersionMajor type="Integer" value="1"/>
0309         <ProtocolVersionMinor type="Integer" value="2"/>
0310     </ProtocolVersion>
0311     <TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0312     <BatchCount type="Integer" value="1"/>
0313 </ResponseHeader>
0314 <BatchItem>
0315     <Operation type="Enumeration" value="GetAttributes"/>
0316     <ResultStatus type="Enumeration" value="Success"/>
0317     <ResponsePayload>
0318         <UniqueIdentifier type="TextString"
0319 value="$UNIQUE_IDENTIFIER_1"/>
0320         <Attribute>
0321             <AttributeName type="TextString" value="Unique Identifier"/>
0322             <AttributeValue type="TextString"
0323 value="$UNIQUE_IDENTIFIER_1"/>
0324         </Attribute>
0325         <Attribute>
0326             <AttributeName type="TextString" value="Object Type"/>
0327             <AttributeValue type="Enumeration" value="PublicKey"/>
0328         </Attribute>
0329         <Attribute>
0330             <AttributeName type="TextString" value="Cryptographic
0331 Algorithm"/>
0332             <AttributeValue type="Enumeration" value="RSA"/>
0333         </Attribute>
0334         <Attribute>
0335             <AttributeName type="TextString" value="Cryptographic
0336 Length"/>
0337             <AttributeValue type="Integer" value="2048"/>
0338         </Attribute>
0339         <Attribute>
0340             <AttributeName type="TextString" value="Cryptographic Usage
0341 Mask"/>
0342             <AttributeValue type="Integer" value="Verify"/>
0343         </Attribute>
0344         <Attribute>
0345             <AttributeName type="TextString" value="Digest"/>
0346             <AttributeValue>
0347                 <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0348                 <DigestValue type="ByteString"
0349 value="330306b0e337e32dd1b5acf92cb96fd39adb802f305e7406062248324816f
0350 445"/>
0351             </AttributeValue>
0352             <KeyFormatType type="Enumeration" value="PKCS_1"/>
0353         </Attribute>
0354         <Attribute>
0355             <AttributeName type="TextString" value="Fresh"/>
0356             <AttributeValue type="Boolean" value="true"/>
0357         </Attribute>
0358         <Attribute>
0359             <AttributeName type="TextString" value="Initial Date"/>
0360             <AttributeValue type="DateTime" value="2013-01-
0361 11T08:37:43+00:00"/>
0362         </Attribute>
0363         <Attribute>
0364             <AttributeName type="TextString" value="Last Change Date"/>

```

0357	<AttributeValue type="DateTime" value="2013-01-11T08:37:43+00:00"/>
0358	</Attribute>
0359	<Attribute>
0360	<AttributeName type="TextString" value="Lease Time"/>
0361	<AttributeValue type="Interval" value="3600"/>
0362	</Attribute>
0363	<Attribute>
0364	<AttributeName type="TextString" value="Link"/>
0365	<AttributeValue>
0366	<LinkType type="Enumeration" value="PrivateKeyLink"/>
0367	<LinkedObjectIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0368	</AttributeValue>
0369	</Attribute>
0370	<Attribute>
0371	<AttributeName type="TextString" value="Name"/>
0372	<AttributeValue>
0373	<NameValue type="TextString" value="AKLC-O-1-12-public"/>
0374	<NameType type="Enumeration" value="UninterpretedTextString"/>
0375	</AttributeValue>
0376	</Attribute>
0377	<Attribute>
0378	<AttributeName type="TextString" value="Original Creation Date"/>
0379	<AttributeValue type="DateTime" value="2013-01-11T08:37:43+00:00"/>
0380	</Attribute>
0381	<Attribute>
0382	<AttributeName type="TextString" value="State"/>
0383	<AttributeValue type="Enumeration" value="PreActive"/>
0384	</Attribute>
0385	</ResponsePayload>
0386	</BatchItem>
0387	</ResponseMessage>
0388	# TIME 5 <RequestMessage>
0389	<RequestHeader>
0390	<ProtocolVersion>
0391	<ProtocolVersionMajor type="Integer" value="1"/>
0392	<ProtocolVersionMinor type="Integer" value="2"/>
0393	</ProtocolVersion>
0394	<BatchCount type="Integer" value="1"/>
0395	</RequestHeader>
0396	<BatchItem>
0397	<Operation type="Enumeration" value="Destroy"/>
0398	<RequestPayload>
0399	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0400	</RequestPayload>
0401	</BatchItem>
0402	</RequestMessage>
0403	<ResponseMessage>
0404	<ResponseHeader>
0405	<ProtocolVersion>
0406	<ProtocolVersionMajor type="Integer" value="1"/>
0407	<ProtocolVersionMinor type="Integer" value="2"/>

0408	</ProtocolVersion>
0409	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0410	<BatchCount type="Integer" value="1"/>
0411	</ResponseHeader>
0412	<BatchItem>
0413	<Operation type="Enumeration" value="Destroy"/>
0414	<ResultStatus type="Enumeration" value="Success"/>
0415	<ResponsePayload>
0416	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0417	</ResponsePayload>
0418	</BatchItem>
0419	</ResponseMessage>
0420	# TIME 6 <RequestMessage>
0421	<RequestHeader>
0422	<ProtocolVersion>
0423	<ProtocolVersionMajor type="Integer" value="1"/>
0424	<ProtocolVersionMinor type="Integer" value="2"/>
0425	</ProtocolVersion>
0426	<BatchCount type="Integer" value="1"/>
0427	</RequestHeader>
0428	<BatchItem>
0429	<Operation type="Enumeration" value="GetAttributes"/>
0430	<RequestPayload>
0431	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0432	</RequestPayload>
0433	</BatchItem>
0434	</RequestMessage>
0435	<ResponseMessage>
0436	<ResponseHeader>
0437	<ProtocolVersion>
0438	<ProtocolVersionMajor type="Integer" value="1"/>
0439	<ProtocolVersionMinor type="Integer" value="2"/>
0440	</ProtocolVersion>
0441	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0442	<BatchCount type="Integer" value="1"/>
0443	</ResponseHeader>
0444	<BatchItem>
0445	<Operation type="Enumeration" value="GetAttributes"/>
0446	<ResultStatus type="Enumeration" value="Success"/>
0447	<ResponsePayload>
0448	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0449	<Attribute>
0450	<AttributeName type="TextString" value="Unique Identifier"/>
0451	<AttributeValue type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0452	</Attribute>
0453	<Attribute>
0454	<AttributeName type="TextString" value="Object Type"/>
0455	<AttributeValue type="Enumeration" value="PublicKey"/>
0456	</Attribute>
0457	<Attribute>
0458	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0459	<AttributeValue type="Enumeration" value="RSA"/>

```

0460     </Attribute>
0461     <Attribute>
0462         <AttributeName type="TextString" value="Cryptographic
Length"/>
0463         <AttributeValue type="Integer" value="2048"/>
0464     </Attribute>
0465     <Attribute>
0466         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0467         <AttributeValue type="Integer" value="Verify"/>
0468     </Attribute>
0469     <Attribute>
0470         <AttributeName type="TextString" value="Destroy Date"/>
0471         <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0472     </Attribute>
0473     <Attribute>
0474         <AttributeName type="TextString" value="Digest"/>
0475         <AttributeValue>
0476             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0477             <DigestValue type="ByteString"
value="b06f3e3d107a282adb5fe316356d13679d7cf7429d14a6f20665f45ba4d28
83c"/>
0478             <KeyFormatType type="Enumeration" value="PKCS_1"/>
0479         </AttributeValue>
0480     </Attribute>
0481     <Attribute>
0482         <AttributeName type="TextString" value="Fresh"/>
0483         <AttributeValue type="Boolean" value="true"/>
0484     </Attribute>
0485     <Attribute>
0486         <AttributeName type="TextString" value="Initial Date"/>
0487         <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0488     </Attribute>
0489     <Attribute>
0490         <AttributeName type="TextString" value="Last Change Date"/>
0491         <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0492     </Attribute>
0493     <Attribute>
0494         <AttributeName type="TextString" value="Lease Time"/>
0495         <AttributeValue type="Interval" value="3600"/>
0496     </Attribute>
0497     <Attribute>
0498         <AttributeName type="TextString" value="Link"/>
0499         <AttributeValue>
0500             <LinkType type="Enumeration" value="PrivateKeyLink"/>
0501             <LinkedObjectIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0502         </AttributeValue>
0503     </Attribute>
0504     <Attribute>
0505         <AttributeName type="TextString" value="Name"/>
0506         <AttributeValue>
0507             <NameValue type="TextString" value="AKLC-O-1-12-public"/>
0508             <NameType type="Enumeration"
value="UninterpretedTextString"/>

```

```
0509         </AttributeValue>
0510     </Attribute>
0511     <Attribute>
0512         <AttributeName type="TextString" value="Original Creation
Date"/>
0513         <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0514     </Attribute>
0515     <Attribute>
0516         <AttributeName type="TextString" value="State"/>
0517         <AttributeValue type="Enumeration" value="Destroyed"/>
0518     </Attribute>
0519 </ResponsePayload>
0520 </BatchItem>
0521 </ResponseMessage>
```

183

## 184 4 Conformance

### 185 **4.1 Asymmetric Key Lifecycle Client KMIP v1.0 Profile Conformance** 186 **Statement**

187 KMIP client implementations conformant to this profile:

- 188 1. SHALL support the Authentication Suite conditions (2.1) and;
- 189 2. SHALL support the conditions (1.1) and;
- 190 3. SHALL support all Mandatory Test Cases KMIP v1.0 (3.1)

### 191 **4.2 Asymmetric Key Lifecycle Client KMIP v1.1 Profile Conformance**

192 KMIP client implementations conformant to this profile:

- 193 1. SHALL support the Authentication Suite conditions (2.1) and;
- 194 2. SHALL support the conditions (1.1) and;
- 195 3. SHALL support all Mandatory Test Cases KMIP v1.1 (3.2-server)

### 196 **4.3 Asymmetric Key Lifecycle Client KMIP v1.2 Profile Conformance**

197 KMIP client implementations conformant to this profile:

- 198 1. SHALL support the Authentication Suite conditions (2.1) and;
- 199 2. SHALL support the conditions (1.1) and;
- 200 3. SHALL support all Mandatory Test Cases KMIP v1.2 (3.3)

### 201 **4.4 Asymmetric Key Lifecycle Client KMIP v1.0 Profile Conformance**

202 KMIP server implementations conformant to this profile:

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

### 206 **4.5 Asymmetric Key Lifecycle Client KMIP v1.1 Profile Conformance**

207 KMIP server implementations conformant to this profile:

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

### 212 **4.6 Asymmetric Key Lifecycle Client KMIP v1.2 Profile Conformance**

213 KMIP server implementations conformant to this profile:

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

## 217 **4.24.7 Permitted Test Case Variations**

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

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

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

### 223 **4.2.14.7.1 Variable Items**

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

- 225 1. UniqueIdentifier
- 226 2. PrivateKeyUniqueIdentifier
- 227 3. PublicKeyUniqueIdentifier
- 228 4. UniqueBatchItemIdentifier
- 229 5. AsynchronousCorrelationValue
- 230 6. TimeStamp
- 231 7. KeyValue / KeyMaterial including:
  - 232 a. key material content returned for managed cryptographic objects which are generated by  
233 the server
  - 234 b. wrapped versions of keys where the wrapping key is dynamic or the wrapping contains  
235 variable output for each wrap operation
- 236 8. For response containing the output of cryptographic operation in Data / SignatureData/ MACData  
237 / IVCounterNonce where:
  - 238 a. the managed object is generated by the server; or
  - 239 b. the operation inherently contains variable output
- 240 9. For the following DateTime attributes where the value is not specified in the request as a fixed  
241 DateTime value:
  - 242 a. ActivationDate
  - 243 b. ArchiveDate
  - 244 c. CompromiseDate
  - 245 d. CompromiseOccurrenceDate
  - 246 e. DeactivationDate
  - 247 f. DestroyDate
  - 248 g. InitialDate
  - 249 h. LastChangeDate
  - 250 i. ProtectStartDate
  - 251 j. ProcessStopDate
  - 252 k. ValidityDate
  - 253 l. OriginalCreationDate
- 254 10. LinkedObjectIdentifier
- 255 11. DigestValue
  - 256 a. For those managed cryptographic objects which are dynamically generated
- 257 12. KeyFormatType
  - 258 a. The key format type selected by the server when it creates managed objects
- 259 13. Digest

- 260           a. The HashingAlgorithm selected by the server when it calculates the digest for a managed  
261           object for which it has access to the key material  
262           b. The Digest Value  
263 14. Extensions reported in Query for ExtensionList and ExtensionMap  
264 15. Application Namespaces reported in Query  
265 16. Object Types reported in Query other than those noted as required in this profile  
266 17. Operation Types reported in Query other than those noted as required in this profile (or any  
267       referenced profile documents)  
268 18. For TextString attribute values containing test identifiers:  
269       a. Additional vendor or application prefixes  
270 19. Additional attributes beyond those noted in the response  
271

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

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

#### 288 **4.2.24.7.2 Variable behavior**

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

- 290 1. A test **mayMAY** omit the clean-up requests and responses (containing Revoke and/or Destroy) at  
291       the end of the test provided there is a separate mechanism to remove the created objects during  
292       testing.  
293 2. A test **mayMAY** omit the test identifiers if the client is unable to include them in requests. This  
294       includes the following attributes:  
295       a. Name; and  
296       b. x-ID  
297 3. A test MAY perform requests with multiple batch items or as multiple requests with a single batch  
298       item provided the sequence of operations are equivalent  
299 4. A request MAY contain an optional *Authentication* [KMIP\_SPEC] structure within each request  
300



---

## Appendix A. Acknowledgments

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### Participants:

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408 Michael Yoder, Vormetric. Inc.  
409 Magda Zdunkiewicz, Cryptsoft  
410 Peter Zelechowski, Election Systems & Software

## Appendix B. KMIP Specification Cross Reference

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

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

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

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

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

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## Appendix C. Revision History

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Revision	Date	Editor	Changes Made
wd01	26-June-2013	Tim Hudson / Bob Lockhart	Updated conformance wording style. Updated test case style. Included test cases for 1.0, 1.1 and 1.2. Applied new OASIS template.
wd02	6-August-2013	Tim Hudson / Bob Lockhart	Updated to include Permitted Test Case Variations and updated Test Cases based on July 2013 Interop
wd03	10-August-2013	Tim Hudson	Updated Permitted Test Case Variations
wd03a	24-October-2013	Tim Hudson	Editorial update to include VendorIdentification in the list of allowed variations as per TC motion.
<a href="#">pr01update</a>	<a href="#">11-June-2014</a>	<a href="#">Tim Hudson</a>	<a href="#">Updated following Public Review</a>

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