



# KMIP Asymmetric Key Lifecycle Profile Version 1.0

Candidate OASIS Standard 01

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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. Latest version: <http://docs.oasis-open.org/kmip/profiles/v1.0/kmip-profiles-1.0.html>.
- *Key Management Interoperability Protocol Profiles Version 1.1*. Edited by Robert Griffin and Subhash Sankuratripati. Latest version: <http://docs.oasis-open.org/kmip/profiles/v1.1/kmip-profiles-v1.1.html>.

- *Key Management Interoperability Protocol Profiles Version 1.2*. Edited by Tim Hudson and Robert Lockhart. Latest version: <http://docs.oasis-open.org/kmip/profiles/v1.2/kmip-profiles-v1.2.html>.
- *Key Management Interoperability Protocol Specification Version 1.1*. Edited by Robert Haas and Indra Fitzgerald. Latest version: <http://docs.oasis-open.org/kmip/spec/v1.1/kmip-spec-v1.1.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>.
- *Key Management Interoperability Protocol Test Cases Version 1.2*. Edited by Tim Hudson and Faisal Faruqi. Latest version: <http://docs.oasis-open.org/kmip/testcases/v1.2/kmip-testcases-v1.2.html>.
- *Key Management Interoperability Protocol Usage Guide Version 1.2*. Edited by Indra Fitzgerald and Judith Furlong. Latest version: <http://docs.oasis-open.org/kmip/ug/v1.2/kmip-ug-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. Any other numbered Versions and other technical work produced by the Technical Committee (TC) are listed at [https://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=kmip#technical](https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=kmip#technical).

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/>.

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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].

This profile defines the necessary KMIP functionality that a KMIP 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*. Edited by Tim Hudson. Latest version: <http://docs.oasis-open.org/kmip/kmip-addtl-msg-enc/v1.0/kmip-addtl-msg-enc-v1.0.doc>.
- [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*. Edited by Kiran Thota and Kelley Burgin. Latest version: <http://docs.oasis-open.org/kmip/spec/v1.2/kmip-spec-v1.2.doc>.
- [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 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 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 Profiles Version 1.2*. Edited by Tim Hudson and Robert Lockhart. Latest version: <http://docs.oasis-open.org/kmip/profiles/v1.2/kmip-profiles-v1.2.doc>.

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## 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 [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 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]:

3. SHALL conform to the *Baseline Client* (section 5.2) of [KMIP-PROF-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 2.2
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]:

2. SHALL conform to the *Baseline Server Clause* of [KMIP-PROF-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:

4. SHALL support the following *Objects* [KMIP-SPEC]
  - a. *Public Key* [KMIP-SPEC]
  - b. *Private Key* [KMIP-SPEC]
  - c. *Key Format Type* [KMIP-SPEC]
5. SHALL support the following *Attributes* [KMIP-SPEC]
  - a. *Cryptographic Algorithm* [KMIP-SPEC]
  - b. *Object Type* [KMIP-SPEC]
  - c. *Process Start Date* [KMIP-SPEC]
  - d. *Process Stop Date* [KMIP-SPEC]
6. SHALL support the following *Message Encoding* [KMIP-SPEC]:
  - a. *Cryptographic Algorithm* [KMIP-SPEC] with values:

- 74                   i. RSA
- 75           b. *Object Type* [KMIP-SPEC] with value:
- 76                   i. Public Key
- 77                   ii. Private Key
- 78           c. *Key Format Type* [KMIP-SPEC] with value:
- 79                   i. PKCS#1
- 80                   ii. PKCS#8
- 81                   iii. Transparent RSA Public Key
- 82                   iv. Transparent RSA Private Key
- 83   7. MAY support any clause within [KMIP-SPEC] provided it does not conflict with any other clause
- 84      within this section 2.3
- 85   8. MAY support extensions outside the scope of this standard (e.g., vendor extensions,
- 86      conformance clauses) that do not contradict any KMIP requirements.

## 3 Asymmetric Key Lifecycle Profile - Test Cases

The test cases define a number of request-response pairs for KMIP operations. Each test case is provided in the XML format specified in [KMIP-ENCODE] intended to be both human-readable and usable by automated tools. The time sequence (starting from 0) for each request-response pair is noted and line numbers are provided for ease of cross-reference for a given test sequence.

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

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

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

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

### 3.1 Mandatory Test Cases KMIP v1.0

#### 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 <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="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9230"/>
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="82bcff8afab753809db804e654013ded708c3996a50c6ce9313f9b3915442
ce9"/>
0218             </AttributeValue>
0219         </Attribute>
0220         <Attribute>
0221             <AttributeName type="TextString" value="Initial Date"/>
0222             <AttributeValue type="DateTime" value="2013-01-
11T08:19:49+00:00"/>
0223         </Attribute>
0224         <Attribute>
0225             <AttributeName type="TextString" value="Last Change Date"/>
0226             <AttributeValue type="DateTime" value="2013-01-

```

0227	11T08:19:49+00:00"/>
0228	</Attribute>
0229	</ResponsePayload>
0230	</BatchItem>
	</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	</BatchCount>
0240	<BatchItem>
0241	<Operation type="Enumeration" value="Destroy"/>
0242	<RequestPayload>
0243	<UniqueIdentifier type="TextString"
0244	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="0"/>
0253	</ProtocolVersion>
0254	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0255	<BatchCount type="Integer" value="1"/>
0256	</BatchCount>
0257	<ResponseHeader>
0258	<BatchItem>
0259	<Operation type="Enumeration" value="Destroy"/>
0260	<ResultStatus type="Enumeration" value="Success"/>
0261	<ResponsePayload>
0262	<UniqueIdentifier type="TextString"
0263	value="\$UNIQUE_IDENTIFIER_0"/>
0264	</ResponsePayload>
0265	</BatchItem>
0266	</ResponseMessage>
0267	# TIME 4
0268	<RequestMessage>
0269	<RequestHeader>
0270	<ProtocolVersion>
0271	<ProtocolVersionMajor type="Integer" value="1"/>
0272	<ProtocolVersionMinor type="Integer" value="0"/>
0273	</ProtocolVersion>
0274	<BatchCount type="Integer" value="1"/>
0275	</BatchCount>
0276	<BatchItem>
0277	<Operation type="Enumeration" value="Destroy"/>
0278	<RequestPayload>
0279	<UniqueIdentifier type="TextString"
0280	value="\$UNIQUE_IDENTIFIER_1"/>
0281	</RequestPayload>
0282	</BatchItem>
0283	</RequestMessage>
0284	<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="Success"/>
0290   <ResponsePayload>
0291     <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0292   </ResponsePayload>
0293 </BatchItem>
0294 </ResponseMessage>

```

104

### 105 3.1.2 AKLC-M-2-10

106 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-2-10-
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-2-10-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="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>
	# TIME 5
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"
0306	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="0"/>
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"
0324	value="\$UNIQUE_IDENTIFIER_1"/>
0325	</ResponsePayload>
0326	</BatchItem>
0327	</ResponseMessage>
# TIME 7	
0328	<RequestMessage>
0329	<RequestHeader>
0330	<ProtocolVersion>
0331	<ProtocolVersionMajor type="Integer" value="1"/>
0332	<ProtocolVersionMinor type="Integer" value="0"/>
0333	</ProtocolVersion>
0334	<BatchCount type="Integer" value="1"/>
0335	</RequestHeader>
0336	<BatchItem>
0337	<Operation type="Enumeration" value="Revoke"/>
0338	<RequestPayload>
0339	<UniqueIdentifier type="TextString"
0340	value="\$UNIQUE_IDENTIFIER_0"/>
	<RevocationReason>
	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>
	</RevocationReason>

0341	<CompromiseOccurrenceDate type="DateTime" value="1970-01-01T00:00:06+00:00"/>
0342	</RequestPayload>
0343	</BatchItem>
0344	</RequestMessage>
0345	<ResponseMessage>
0346	<ResponseHeader>
0347	<ProtocolVersion>
0348	<ProtocolVersionMajor type="Integer" value="1"/>
0349	<ProtocolVersionMinor type="Integer" value="0"/>
0350	</ProtocolVersion>
0351	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0352	<BatchCount type="Integer" value="1"/>
0353	</ResponseHeader>
0354	<BatchItem>
0355	<Operation type="Enumeration" value="Revoke"/>
0356	<ResultStatus type="Enumeration" value="Success"/>
0357	<ResponsePayload>
0358	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0359	</ResponsePayload>
0360	</BatchItem>
0361	</ResponseMessage>
# TIME 8	
0362	<RequestMessage>
0363	<RequestHeader>
0364	<ProtocolVersion>
0365	<ProtocolVersionMajor type="Integer" value="1"/>
0366	<ProtocolVersionMinor type="Integer" value="0"/>
0367	</ProtocolVersion>
0368	<BatchCount type="Integer" value="1"/>
0369	</RequestHeader>
0370	<BatchItem>
0371	<Operation type="Enumeration" value="GetAttributes"/>
0372	<RequestPayload>
0373	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0374	<AttributeName type="TextString" value="State"/>
0375	</RequestPayload>
0376	</BatchItem>
0377	</RequestMessage>
0378	<ResponseMessage>
0379	<ResponseHeader>
0380	<ProtocolVersion>
0381	<ProtocolVersionMajor type="Integer" value="1"/>
0382	<ProtocolVersionMinor type="Integer" value="0"/>
0383	</ProtocolVersion>
0384	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0385	<BatchCount type="Integer" value="1"/>
0386	</ResponseHeader>
0387	<BatchItem>
0388	<Operation type="Enumeration" value="GetAttributes"/>
0389	<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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### 108 3.1.3 AKLC-M-3-10

109 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>
# 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	</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"

0161	value="\$UNIQUE_IDENTIFIER_0"/>
0162	</RequestPayload>
0163	</BatchItem>
0164	</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>
0180	</ResponseMessage>
0181	# 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"
0193	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>
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"
0213	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>
	# TIME 6
0297	<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"/>
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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>

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## 111 3.2 Mandatory Test Cases KMIP v1.1

### 112 3.2.1 AKLC-M-1-11

113 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>
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0051	<ResponseMessage>
0052	<ResponseHeader>
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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



0086	Algorithm"/>
0087	<AttributeName type="TextString" value="Cryptographic
0088	Length"/>
0089	<AttributeName type="TextString" value="Digest"/>
0090	<AttributeName type="TextString" value="Initial Date"/>
0091	<AttributeName type="TextString" value="Last Change Date"/>
0092	<AttributeName type="TextString" value="Activation Date"/>
0093	</RequestPayload>
0094	</BatchItem>
0095	</RequestMessage>
0096	<ResponseMessage>
0097	<ResponseHeader>
0098	<ProtocolVersion>
0099	<ProtocolVersionMajor type="Integer" value="1"/>
0100	<ProtocolVersionMinor type="Integer" value="1"/>
0101	</ProtocolVersion>
0102	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0103	<BatchCount type="Integer" value="1"/>
0104	</ResponseHeader>
0105	<BatchItem>
0106	<Operation type="Enumeration" value="GetAttributes"/>
0107	<ResultStatus type="Enumeration" value="Success"/>
0108	<ResponsePayload>
0109	<UniqueIdentifier type="TextString"
0110	value="\$UNIQUE_IDENTIFIER_0"/>
0111	<Attribute>
0112	<AttributeName type="TextString" value="State"/>
0113	<AttributeValue type="Enumeration" value="PreActive"/>
0114	</Attribute>
0115	<Attribute>
0116	<AttributeName type="TextString" value="Cryptographic Usage
0117	Mask"/>
0118	<AttributeValue type="Integer" value="Sign"/>
0119	</Attribute>
0120	<Attribute>
0121	<AttributeName type="TextString" value="Unique Identifier"/>
0122	<AttributeValue type="TextString"
0123	value="\$UNIQUE_IDENTIFIER_0"/>
0124	</Attribute>
0125	<Attribute>
0126	<AttributeName type="TextString" value="Object Type"/>
0127	<AttributeValue type="Enumeration" value="PrivateKey"/>
0128	</Attribute>
0129	<Attribute>
0130	<AttributeName type="TextString" value="Cryptographic
0131	Algorithm"/>
0132	<AttributeValue type="Enumeration" value="RSA"/>
0133	</Attribute>
0134	<Attribute>
0135	<AttributeName type="TextString" value="Cryptographic
0136	Length"/>
	<AttributeValue type="Integer" value="2048"/>
	</Attribute>
	<Attribute>
	<AttributeName type="TextString" value="Digest"/>
	<AttributeValue>
	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
	<DigestValue type="ByteString"

	<pre> value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9 230"/&gt; 0137         &lt;KeyFormatType type="Enumeration" value="PKCS_1"/&gt; 0138         &lt;/AttributeValue&gt; 0139     &lt;/Attribute&gt; 0140 &lt;/Attribute&gt; 0141         &lt;AttributeName type="TextString" value="Initial Date"/&gt; 0142         &lt;AttributeValue type="DateTime" value="2013-01- 11T08:18:21+00:00"/&gt; 0143     &lt;/Attribute&gt; 0144 &lt;/Attribute&gt; 0145         &lt;AttributeName type="TextString" value="Last Change Date"/&gt; 0146         &lt;AttributeValue type="DateTime" value="2013-01- 11T08:18:21+00:00"/&gt; 0147     &lt;/Attribute&gt; 0148 &lt;/ResponsePayload&gt; 0149 &lt;/BatchItem&gt; 0150 &lt;/ResponseMessage&gt; </pre>
<pre> 0151 &lt;RequestMessage&gt; 0152     &lt;RequestHeader&gt; 0153         &lt;ProtocolVersion&gt; 0154             &lt;ProtocolVersionMajor type="Integer" value="1"/&gt; 0155             &lt;ProtocolVersionMinor type="Integer" value="1"/&gt; 0156         &lt;/ProtocolVersion&gt; 0157         &lt;BatchCount type="Integer" value="1"/&gt; 0158     &lt;/RequestHeader&gt; 0159 &lt;/BatchItem&gt; 0160     &lt;Operation type="Enumeration" value="GetAttributes"/&gt; 0161 &lt;/RequestPayload&gt; 0162     &lt;UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/&gt; 0163     &lt;AttributeName type="TextString" value="State"/&gt; 0164     &lt;AttributeName type="TextString" value="Cryptographic Usage Mask"/&gt; 0165     &lt;AttributeName type="TextString" value="Unique Identifier"/&gt; 0166     &lt;AttributeName type="TextString" value="Object Type"/&gt; 0167     &lt;AttributeName type="TextString" value="Cryptographic Algorithm"/&gt; 0168     &lt;AttributeName type="TextString" value="Cryptographic Length"/&gt; 0169     &lt;AttributeName type="TextString" value="Digest"/&gt; 0170     &lt;AttributeName type="TextString" value="Initial Date"/&gt; 0171     &lt;AttributeName type="TextString" value="Last Change Date"/&gt; 0172     &lt;AttributeName type="TextString" value="Activation Date"/&gt; 0173 &lt;/RequestPayload&gt; 0174 &lt;/BatchItem&gt; 0175 &lt;/RequestMessage&gt; </pre>	<pre> # TIME 2 0151 &lt;RequestMessage&gt; 0152     &lt;RequestHeader&gt; 0153         &lt;ProtocolVersion&gt; 0154             &lt;ProtocolVersionMajor type="Integer" value="1"/&gt; 0155             &lt;ProtocolVersionMinor type="Integer" value="1"/&gt; 0156         &lt;/ProtocolVersion&gt; 0157         &lt;BatchCount type="Integer" value="1"/&gt; 0158     &lt;/RequestHeader&gt; 0159 &lt;/BatchItem&gt; 0160     &lt;Operation type="Enumeration" value="GetAttributes"/&gt; 0161 &lt;/RequestPayload&gt; 0162     &lt;UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/&gt; 0163     &lt;AttributeName type="TextString" value="State"/&gt; 0164     &lt;AttributeName type="TextString" value="Cryptographic Usage Mask"/&gt; 0165     &lt;AttributeName type="TextString" value="Unique Identifier"/&gt; 0166     &lt;AttributeName type="TextString" value="Object Type"/&gt; 0167     &lt;AttributeName type="TextString" value="Cryptographic Algorithm"/&gt; 0168     &lt;AttributeName type="TextString" value="Cryptographic Length"/&gt; 0169     &lt;AttributeName type="TextString" value="Digest"/&gt; 0170     &lt;AttributeName type="TextString" value="Initial Date"/&gt; 0171     &lt;AttributeName type="TextString" value="Last Change Date"/&gt; 0172     &lt;AttributeName type="TextString" value="Activation Date"/&gt; 0173 &lt;/RequestPayload&gt; 0174 &lt;/BatchItem&gt; 0175 &lt;/RequestMessage&gt; </pre>
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0192	<AttributeValue type="Enumeration" value="PreActive"/>
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0194	<Attribute>
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	Mask"/>
0196	<AttributeValue type="Integer" value="Verify"/>
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0203	<AttributeName type="TextString" value="Object Type"/>
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0206	<Attribute>
0207	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0208	<AttributeValue type="Enumeration" value="RSA"/>
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0210	<Attribute>
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	Length"/>
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0214	<Attribute>
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	ce9"/>
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0225	</Attribute>
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0229	</Attribute>
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0231	</BatchItem>
0232	</ResponseMessage>
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	<RequestMessage>

0234	<RequestHeader>
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0246	</BatchItem>
0247	</RequestMessage>
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0255	<BatchCount type="Integer" value="1"/>
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0264	</ResponseMessage>
# TIME 4	
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0287	<BatchCount type="Integer" value="1"/>

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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>

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114

### 115 3.2.2 AKLC-M-2-11

116 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```

# TIME 0
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0005       <ProtocolVersionMinor type="Integer" value="1"/>
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0008   </RequestHeader>
0009   <BatchItem>
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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"/>
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0040	public"/>
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0042	value="UninterpretedTextString"/>
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0044	</Attribute>
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0046	Usage Mask"/>
0047	<AttributeValue type="Integer" value="Verify"/>
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0067	value="\$UNIQUE_IDENTIFIER_0"/>
0068	<PublicKeyUniqueIdentifier type="TextString"
0069	value="\$UNIQUE_IDENTIFIER_1"/>
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0088	<AttributeName type="TextString" value="Cryptographic Usage
0089	Mask"/>
0090	<AttributeName type="TextString" value="Unique Identifier"/>
0091	<AttributeName type="TextString" value="Object Type"/>
0092	<AttributeName type="TextString" value="Cryptographic
0093	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"/>
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0111	<Attribute>
0112	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0113	<AttributeValue type="Integer" value="Sign"/>
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0145	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
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0195	<AttributeName type="TextString" value="Activation Date"/>
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	# TIME 4
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	# TIME 5
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0292	<ResultMessage type="TextString" value="DENIED"/>
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	# TIME 6

0295	<RequestMessage>
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0317	<BatchCount type="Integer" value="1"/>
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0323	<UniqueIdentifier type="TextString"
0324	value="\$UNIQUE_IDENTIFIER_1"/>
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0327	</ResponseMessage>
0327	# TIME 7
0327	<RequestMessage>
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0342	value="KeyCompromise"/>
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0362	</ResponseMessage>
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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"
	value="\$UNIQUE_IDENTIFIER_0"/>
0375	<AttributeName type="TextString" value="State"/>
0376	</RequestPayload>
0377	</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"
	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>
0415	<ResponseMessage>
0416	<ResponseHeader>
0417	<ProtocolVersion>
0418	<ProtocolVersionMajor type="Integer" value="1"/>
0419	<ProtocolVersionMinor type="Integer" value="1"/>
0420	</ProtocolVersion>
0421	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0422	<BatchCount type="Integer" value="1"/>
0423	</ResponseHeader>
0424	<BatchItem>
0425	<Operation type="Enumeration" value="Destroy"/>
0426	<ResultStatus type="Enumeration" value="Success"/>
0427	<ResponsePayload>
0428	<UniqueIdentifier type="TextString"
0429	value="\$UNIQUE_IDENTIFIER_0"/>
0430	</ResponsePayload>
0431	</BatchItem>
0431	</ResponseMessage>

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### 118 3.2.3 AKLC-M-3-11

119 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"
0015	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>
0069	# TIME 1
0070	<RequestMessage>
0071	<RequestHeader>
0072	<ProtocolVersion>
0073	<ProtocolVersionMajor type="Integer" value="1"/>
0074	<ProtocolVersionMinor type="Integer" value="1"/>
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
0089	Algorithm"/>
0090	<AttributeName type="TextString" value="Cryptographic
0091	Length"/>
0092	<AttributeName type="TextString" value="Digest"/>
0093	<AttributeName type="TextString" value="Initial Date"/>
0094	<AttributeName type="TextString" value="Last Change Date"/>
0095	</RequestPayload>
0096	</BatchItem>
0097	</RequestMessage>
0098	<ResponseMessage>
0099	<ResponseHeader>
0100	<ProtocolVersion>
0101	<ProtocolVersionMajor type="Integer" value="1"/>
0102	<ProtocolVersionMinor type="Integer" value="1"/>
0103	</ProtocolVersion>
0104	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0105	<BatchCount type="Integer" value="1"/>
0106	</ResponseHeader>
0107	<BatchItem>
0108	<Operation type="Enumeration" value="GetAttributes"/>
0109	<ResultStatus type="Enumeration" value="Success"/>
0110	<ResponsePayload>
0111	<UniqueIdentifier type="TextString"
0112	value="\$UNIQUE_IDENTIFIER_0"/>
0113	<Attribute>
0114	<AttributeName type="TextString" value="State"/>
0115	<AttributeValue type="Enumeration" value="PreActive"/>
0116	</Attribute>
0117	<Attribute>
0118	<AttributeName type="TextString" value="Cryptographic Usage
0119	Mask"/>
0120	<AttributeValue type="Integer" value="Sign"/>
0121	</Attribute>
0122	<Attribute>
0123	<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>
	# 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="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"

0274	value="\$UNIQUE_IDENTIFIER_0"/>
0275	<RevocationReason>
0276	<RevocationReasonCode type="Enumeration"
0277	value="KeyCompromise"/>
0278	</RevocationReason>
0279	<CompromiseOccurrenceDate type="DateTime" value="1970-01-
0280	01T00:00:06+00:00"/>
0281	</RequestPayload>
0282	</BatchItem>
0283	</RequestMessage>
0284	<ResponseMessage>
0285	<ResponseHeader>
0286	<ProtocolVersion>
0287	<ProtocolVersionMajor type="Integer" value="1"/>
0288	<ProtocolVersionMinor type="Integer" value="1"/>
0289	</ProtocolVersion>
0290	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0291	<BatchCount type="Integer" value="1"/>
0292	</ResponseHeader>
0293	<BatchItem>
0294	<Operation type="Enumeration" value="Revoke"/>
0295	<ResultStatus type="Enumeration" value="Success"/>
0296	<ResponsePayload>
0297	<UniqueIdentifier type="TextString"
0298	value="\$UNIQUE_IDENTIFIER_0"/>
0299	</ResponsePayload>
0300	</BatchItem>
0301	</ResponseMessage>
0302	# TIME 6
0303	<RequestMessage>
0304	<RequestHeader>
0305	<ProtocolVersion>
0306	<ProtocolVersionMajor type="Integer" value="1"/>
0307	<ProtocolVersionMinor type="Integer" value="1"/>
0308	</ProtocolVersion>
0309	<BatchCount type="Integer" value="1"/>
0310	</RequestHeader>
0311	<BatchItem>
0312	<Operation type="Enumeration" value="GetAttributes"/>
0313	<RequestPayload>
0314	<UniqueIdentifier type="TextString"
0315	value="\$UNIQUE_IDENTIFIER_0"/>
0316	<AttributeName type="TextString" value="State"/>
0317	</RequestPayload>
0318	</BatchItem>
0319	</RequestMessage>
0320	<ResponseMessage>
0321	<ResponseHeader>
0322	<ProtocolVersion>
0323	<ProtocolVersionMajor type="Integer" value="1"/>
0324	<ProtocolVersionMinor type="Integer" value="1"/>
0325	</ProtocolVersion>
	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
	<BatchCount type="Integer" value="1"/>
	</ResponseHeader>
	<BatchItem>
	<Operation type="Enumeration" value="GetAttributes"/>
	<ResultStatus type="Enumeration" value="Success"/>

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>
# 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"
	value="\$UNIQUE_IDENTIFIER_0"/>
0384	</RequestPayload>
0385	</BatchItem>
0386	</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"
	value="\$UNIQUE_IDENTIFIER_0"/>
0401	</ResponsePayload>
0402	</BatchItem>
0403	</ResponseMessage>
	# 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"
	value="\$UNIQUE_IDENTIFIER_1"/>
0416	</RequestPayload>
0417	</BatchItem>
0418	</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"

0433	value="\$UNIQUE_IDENTIFIER_1"/>
0434	</ResponsePayload>
0435	</BatchItem>
	</ResponseMessage>

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## 121 3.3 Mandatory Test Cases KMIP v1.2

### 122 3.3.1 AKLC-M-1-12

#### 123 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	<pre>         &lt;NameType type="Enumeration" value="UninterpretedTextString"/&gt;         &lt;/AttributeValue&gt;         &lt;/Attribute&gt;         &lt;Attribute&gt;         &lt;AttributeName type="TextString" value="Cryptographic Usage Mask"/&gt;         &lt;AttributeValue type="Integer" value="Verify"/&gt;         &lt;/Attribute&gt;         &lt;/PublicKeyTemplateAttribute&gt;         &lt;/RequestPayload&gt;         &lt;/BatchItem&gt;         &lt;/RequestMessage&gt; </pre>
0051	<pre> &lt;ResponseMessage&gt;   &lt;ResponseHeader&gt;     &lt;ProtocolVersion&gt;       &lt;ProtocolVersionMajor type="Integer" value="1"/&gt;       &lt;ProtocolVersionMinor type="Integer" value="2"/&gt;     &lt;/ProtocolVersion&gt;     &lt;TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/&gt;     &lt;BatchCount type="Integer" value="1"/&gt;   &lt;/ResponseHeader&gt;   &lt;BatchItem&gt;     &lt;Operation type="Enumeration" value="CreateKeyPair"/&gt;     &lt;ResultStatus type="Enumeration" value="Success"/&gt;     &lt;ResponsePayload&gt;       &lt;PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/&gt;       &lt;PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/&gt;     &lt;/ResponsePayload&gt;   &lt;/BatchItem&gt; &lt;/ResponseMessage&gt; </pre>
0069	<pre> # TIME 1 &lt;RequestMessage&gt;   &lt;RequestHeader&gt;     &lt;ProtocolVersion&gt;       &lt;ProtocolVersionMajor type="Integer" value="1"/&gt;       &lt;ProtocolVersionMinor type="Integer" value="2"/&gt;     &lt;/ProtocolVersion&gt;     &lt;BatchCount type="Integer" value="1"/&gt;   &lt;/RequestHeader&gt;   &lt;BatchItem&gt;     &lt;Operation type="Enumeration" value="GetAttributes"/&gt;     &lt;RequestPayload&gt;       &lt;UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/&gt;       &lt;AttributeName type="TextString" value="State"/&gt;       &lt;AttributeName type="TextString" value="Cryptographic Usage Mask"/&gt;       &lt;AttributeName type="TextString" value="Unique Identifier"/&gt;       &lt;AttributeName type="TextString" value="Object Type"/&gt;       &lt;AttributeName type="TextString" value="Cryptographic Algorithm"/&gt;       &lt;AttributeName type="TextString" value="Cryptographic Length"/&gt;       &lt;AttributeName type="TextString" value="Digest"/&gt;       &lt;AttributeName type="TextString" value="Initial Date"/&gt; </pre>

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0100	</ProtocolVersion>
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0138	<KeyFormatType type="Enumeration" value="PKCS_1"/>



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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"/>
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0178	<AttributeName type="TextString" value="Original Creation Date"/>
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0187     </ProtocolVersion>
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Mask"/>
0202             <AttributeValue type="Integer" value="Verify"/>
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value="$UNIQUE_IDENTIFIER_1"/>
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Algorithm"/>
0214             <AttributeValue type="Enumeration" value="RSA"/>
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0219         </Attribute>
0220         <Attribute>
0221             <AttributeName type="TextString" value="Digest"/>
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0223                 <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0224                 <DigestValue type="ByteString"
value="82bcff8afab753809db804e654013ded708c3996a50c6ce9313f9b3915442
ce9"/>
0225             <KeyFormatType type="Enumeration" value="PKCS_1"/>
0226         </AttributeValue>
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0232         <Attribute>
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0235         </Attribute>

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0236	<Attribute>
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0269	<ResultStatus type="Enumeration" value="Success"/>
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0305	</ResponsePayload>
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0307	</ResponseMessage>

124

### 125 3.3.2 AKLC-M-2-12

126 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

	# TIME 0
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0015	Algorithm"/>
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0017	</Attribute>
0018	<AttributeName type="TextString" value="Cryptographic
0019	Length"/>
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	private"/>
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0028	value="UninterpretedTextString"/>
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0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
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0034	</PrivateKeyTemplateAttribute>
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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	</AttributeValue>
0042	</Attribute>
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0045	<AttributeValue type="Integer" value="Verify"/>
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0063	<ResponsePayload>
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0066	</ResponsePayload>
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0076	</RequestHeader>
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	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"/>
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0114	<AttributeValue type="Integer" value="Sign"/>
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	Algorithm"/>
0126	<AttributeValue type="Enumeration" value="RSA"/>

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0147	</Attribute>
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0200	<AttributeName type="TextString" value="Activation Date"/>
0201	<AttributeName type="TextString" value="Deactivation Date"/>
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0212	<BatchCount type="Integer" value="1"/>
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	10T23:36:01+00:00"/>
0226	</Attribute>
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0228	</BatchItem>



0229	</ResponseMessage>
	# TIME 4
0230	<RequestMessage>
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	# TIME 5
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0295	<ResultStatus type="Enumeration" value="OperationFailed"/>
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# TIME 6	
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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>
# TIME 9	
0405	<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>

### 128 3.3.3 AKLC-M-3-12

129 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"
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
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" 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	<AttributeName type="TextString" value="Original Creation Date"/>
0092	</RequestPayload>
0093	</BatchItem>
0094	</RequestMessage>
0095	<ResponseMessage>
0096	<ResponseHeader>
0097	<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-

```

0147	11T08:18:21+00:00"/>
0148	</Attribute>
0149	<AttributeName type="TextString" value="Original Creation
0150	Date"/>
0151	<AttributeValue type="DateTime" value="2013-01-
0152	11T08:18:21+00:00"/>
0153	</Attribute>
0154	</ResponsePayload>
0155	</BatchItem>
0156	</ResponseMessage>
0157	# TIME 2
0158	<RequestMessage>
0159	<RequestHeader>
0160	<ProtocolVersion>
0161	<ProtocolVersionMajor type="Integer" value="1"/>
0162	<ProtocolVersionMinor type="Integer" value="2"/>
0163	</ProtocolVersion>
0164	<BatchCount type="Integer" value="1"/>
0165	</RequestHeader>
0166	<BatchItem>
0167	<Operation type="Enumeration" value="Activate"/>
0168	<RequestPayload>
0169	<UniqueIdentifier type="TextString"
0170	value="\$UNIQUE_IDENTIFIER_0"/>
0171	</RequestPayload>
0172	</BatchItem>
0173	</RequestMessage>
0174	<ResponseMessage>
0175	<ResponseHeader>
0176	<ProtocolVersion>
0177	<ProtocolVersionMajor type="Integer" value="1"/>
0178	<ProtocolVersionMinor type="Integer" value="2"/>
0179	</ProtocolVersion>
0180	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0181	<BatchCount type="Integer" value="1"/>
0182	</ResponseHeader>
0183	<BatchItem>
0184	<Operation type="Enumeration" value="Activate"/>
0185	<ResultStatus type="Enumeration" value="Success"/>
0186	<ResponsePayload>
0187	<UniqueIdentifier type="TextString"
0188	value="\$UNIQUE_IDENTIFIER_0"/>
0189	</ResponsePayload>
0190	</BatchItem>
0191	</ResponseMessage>
0192	# TIME 3
0193	<RequestMessage>
0194	<RequestHeader>
0195	<ProtocolVersion>
0196	<ProtocolVersionMajor type="Integer" value="1"/>
0197	<ProtocolVersionMinor type="Integer" value="2"/>
	</ProtocolVersion>
	<BatchCount type="Integer" value="1"/>
	</RequestHeader>
	<BatchItem>
	<Operation type="Enumeration" value="GetAttributes"/>
	<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"
	value="\$UNIQUE_IDENTIFIER_0"/>
0243	<Attribute>
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>
	# TIME 5
0267	<RequestMessage>
0268	<RequestHeader>
0269	<ProtocolVersion>
0270	<ProtocolVersionMajor type="Integer" value="1"/>
0271	<ProtocolVersionMinor type="Integer" value="2"/>
0272	</ProtocolVersion>
0273	<BatchCount type="Integer" value="1"/>
0274	</RequestHeader>
0275	<BatchItem>
0276	<Operation type="Enumeration" value="Revoke"/>
0277	<RequestPayload>
0278	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0279	<RevocationReason>
0280	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>
0281	</RevocationReason>
0282	<CompromiseOccurrenceDate type="DateTime" value="1970-01-
	01T00:00:06+00:00"/>
0283	</RequestPayload>
0284	</BatchItem>
0285	</RequestMessage>
0286	<ResponseMessage>
0287	<ResponseHeader>
0288	<ProtocolVersion>
0289	<ProtocolVersionMajor type="Integer" value="1"/>
0290	<ProtocolVersionMinor type="Integer" value="2"/>
0291	</ProtocolVersion>
0292	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0293	<BatchCount type="Integer" value="1"/>
0294	</ResponseHeader>
0295	<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>

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## 131 3.4 Optional Test Cases KMIP v1.0

### 132 3.4.1 AKLC-O-1-10

133 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"

0066	value="\$UNIQUE_IDENTIFIER_1"/>
0067	</ResponsePayload>
0068	</BatchItem>
0068	</ResponseMessage>
0069	# 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"
0080	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
0082	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
0085	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
0086	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"
0107	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
0113	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>
# TIME 3	
0182	<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	<ResultStatus 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="330306b0e337e32dd1b5acf92cb96fd39adb802f305e7406062248324816f445"/>
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"
value="$UNIQUE_IDENTIFIER_1"/>
0425         <Attribute>
0426             <AttributeName type="TextString" value="Unique Identifier"/>
0427             <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0428         </Attribute>
0429         <Attribute>
0430             <AttributeName type="TextString" value="Object Type"/>
0431             <AttributeValue type="Enumeration" value="PublicKey"/>
0432         </Attribute>
0433         <Attribute>
0434             <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0435             <AttributeValue type="Enumeration" value="RSA"/>
0436         </Attribute>
0437         <Attribute>
0438             <AttributeName type="TextString" value="Cryptographic
Length"/>
0439             <AttributeValue type="Integer" value="2048"/>
0440         </Attribute>
0441         <Attribute>
0442             <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0443             <AttributeValue type="Integer" value="Verify"/>
0444         </Attribute>
0445         <Attribute>
0446             <AttributeName type="TextString" value="Destroy Date"/>
0447             <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0448         </Attribute>
0449         <Attribute>
0450             <AttributeName type="TextString" value="Digest"/>
0451             <AttributeValue>
0452                 <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0453                 <DigestValue type="ByteString"
value="b06f3e3d107a282adb5fe316356d13679d7cf7429d14a6f20665f45ba4d28
83c"/>
0454             </AttributeValue>
0455         </Attribute>
0456         <Attribute>
0457             <AttributeName type="TextString" value="Initial Date"/>
0458             <AttributeValue type="DateTime" value="2013-01-
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>

134

## 135 3.5 Optional Test Cases KMIP v1.1

### 136 3.5.1 AKLC-O-1-11

137 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-

0027	private"/>
0028	<NameType type="Enumeration"
0029	value="UninterpretedTextString"/>
0030	</AttributeValue>
0031	</Attribute>
0032	<Attribute type="TextString" value="Cryptographic
0033	Usage Mask"/>
0034	<AttributeValue type="Integer" value="Sign"/>
0035	</Attribute>
0036	</PrivateKeyTemplateAttribute>
0037	<PublicKeyTemplateAttribute>
0038	<Attribute>
0039	<AttributeName type="TextString" value="Name"/>
0040	<AttributeValue>
0041	<NameValue type="TextString" value="AKLC-O-1-11-
0042	public"/>
0043	<NameType type="Enumeration"
0044	value="UninterpretedTextString"/>
0045	</AttributeValue>
0046	</Attribute>
0047	<Attribute>
0048	<AttributeName type="TextString" value="Cryptographic
0049	Usage Mask"/>
0050	<AttributeValue type="Integer" value="Verify"/>
0051	</Attribute>
0052	</PublicKeyTemplateAttribute>
0053	</RequestPayload>
0054	</BatchItem>
0055	</RequestMessage>
0056	<ResponseMessage>
0057	<ResponseHeader>
0058	<ProtocolVersion>
0059	<ProtocolVersionMajor type="Integer" value="1"/>
0060	<ProtocolVersionMinor type="Integer" value="1"/>
0061	</ProtocolVersion>
0062	<TimeStamp type="DateTime" value="2013-01-11T08:32:04+00:00"/>
0063	<BatchCount type="Integer" value="1"/>
0064	</ResponseHeader>
0065	<BatchItem>
0066	<Operation type="Enumeration" value="CreateKeyPair"/>
0067	<ResultStatus type="Enumeration" value="Success"/>
0068	<ResponsePayload>
0069	<PrivateKeyUniqueIdentifier type="TextString"
0070	value="\$UNIQUE_IDENTIFIER_0"/>
0071	<PublicKeyUniqueIdentifier type="TextString"
0072	value="\$UNIQUE_IDENTIFIER_1"/>
0073	</ResponsePayload>
0074	</BatchItem>
0075	</ResponseMessage>
0069	# TIME 1
0070	<RequestMessage>
0071	<RequestHeader>
0072	<ProtocolVersion>
0073	<ProtocolVersionMajor type="Integer" value="1"/>
0074	<ProtocolVersionMinor type="Integer" value="1"/>
0075	</ProtocolVersion>
	<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 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="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9230"/>
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="Destroy"/>
0161	<RequestPayload>
0162	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0163	</RequestPayload>
0164	</BatchItem>
0165	</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"
	value="\$UNIQUE_IDENTIFIER_0"/>
0180	</ResponsePayload>
0181	</BatchItem>
0182	</ResponseMessage>
	# 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	</RequestPayload>
0196	</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"
	value="\$UNIQUE_IDENTIFIER_0"/>
0212	<Attribute>
0213	<AttributeName type="TextString" value="Unique Identifier"/>
0214	<AttributeValue type="TextString"
	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"
value="$UNIQUE_IDENTIFIER_1"/>
0265         </AttributeValue>
0266     </Attribute>
0267     <Attribute>
0268         <AttributeName type="TextString" value="Name"/>
0269         <AttributeValue>
0270             <NameValue type="TextString" value="AKLC-O-1-11-private"/>
0271             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0272         </AttributeValue>
0273     </Attribute>
0274     <Attribute>
0275         <AttributeName type="TextString" value="State"/>
0276         <AttributeValue type="Enumeration" value="Destroyed"/>
0277     </Attribute>

```

0278	</ResponsePayload>
0279	</BatchItem>
0280	</ResponseMessage>
0281	# TIME 4
0282	<RequestMessage>
0283	<RequestHeader>
0284	<ProtocolVersion>
0285	<ProtocolVersionMajor type="Integer" value="1"/>
0286	<ProtocolVersionMinor type="Integer" value="1"/>
0287	</ProtocolVersion>
0288	<BatchCount type="Integer" value="1"/>
0289	</RequestHeader>
0290	<BatchItem>
0291	<Operation type="Enumeration" value="GetAttributes"/>
0292	<RequestPayload>
0293	<UniqueIdentifier type="TextString"
0294	value="\$UNIQUE_IDENTIFIER_1"/>
0295	</RequestPayload>
0296	</BatchItem>
0297	</RequestMessage>
0298	<ResponseMessage>
0299	<ResponseHeader>
0300	<ProtocolVersion>
0301	<ProtocolVersionMajor type="Integer" value="1"/>
0302	<ProtocolVersionMinor type="Integer" value="1"/>
0303	</ProtocolVersion>
0304	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0305	<BatchCount type="Integer" value="1"/>
0306	</ResponseHeader>
0307	<BatchItem>
0308	<Operation type="Enumeration" value="GetAttributes"/>
0309	<ResultStatus type="Enumeration" value="Success"/>
0310	<ResponsePayload>
0311	<UniqueIdentifier type="TextString"
0312	value="\$UNIQUE_IDENTIFIER_1"/>
0313	<Attribute>
0314	<AttributeName type="TextString" value="Unique Identifier"/>
0315	<AttributeValue type="TextString"
0316	value="\$UNIQUE_IDENTIFIER_1"/>
0317	</Attribute>
0318	<Attribute>
0319	<AttributeName type="TextString" value="Cryptographic
0320	Algorithm"/>
0321	<AttributeValue type="Enumeration" value="RSA"/>
0322	</Attribute>
0323	<Attribute>
0324	<AttributeName type="TextString" value="Cryptographic
0325	Length"/>
0326	<AttributeValue type="Integer" value="2048"/>
0327	</Attribute>
0328	<Attribute>
	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
	<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>
0407	# TIME 6
0408	<RequestMessage>
0409	<RequestHeader>
0410	<ProtocolVersion>
0411	<ProtocolVersionMajor type="Integer" value="1"/>
0412	<ProtocolVersionMinor type="Integer" value="1"/>
0413	</ProtocolVersion>
0414	<BatchCount type="Integer" value="1"/>
0415	</RequestHeader>
0416	<BatchItem>
0417	<Operation type="Enumeration" value="GetAttributes"/>
0418	<RequestPayload>
0419	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0420	</RequestPayload>
0421	</BatchItem>
0422	</RequestMessage>
0423	<ResponseMessage>
0424	<ResponseHeader>
0425	<ProtocolVersion>
0426	<ProtocolVersionMajor type="Integer" value="1"/>
0427	<ProtocolVersionMinor type="Integer" value="1"/>
0428	</ProtocolVersion>
0429	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0430	<BatchCount type="Integer" value="1"/>
0431	</ResponseHeader>
0432	<BatchItem>
0433	<Operation type="Enumeration" value="GetAttributes"/>
	<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="b06f3e3d107a282adb5fe316356d13679d7cf7429d14a6f20665f45ba4d28
83c"/>
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>

```

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## 139 3.6 Optional Test Cases KMIP v1.2

### 140 3.6.1 AKLC-O-1-12

141 CreateKeyPair, GetAttributes, Destroy, GetAttributes

```

# TIME 0
0001 <RequestMessage>
0002     <RequestHeader>
0003         <ProtocolVersion>
0004             <ProtocolVersionMajor type="Integer" value="1"/>
0005             <ProtocolVersionMinor type="Integer" value="2"/>
0006         </ProtocolVersion>
0007         <BatchCount type="Integer" value="1"/>
0008     </RequestHeader>
0009     <BatchItem>
0010         <Operation type="Enumeration" value="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 <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>
# 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	<Attribute 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>
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	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>
	# TIME 4
0290	<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"/>
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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"
	value="\$UNIQUE_IDENTIFIER_1"/>
0319	<Attribute>
0320	<AttributeName type="TextString" value="Unique Identifier"/>
0321	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0322	</Attribute>

```

0323     <Attribute>
0324         <AttributeName type="TextString" value="Object Type"/>
0325         <AttributeValue type="Enumeration" value="PublicKey"/>
0326     </Attribute>
0327     <Attribute>
0328         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0329         <AttributeValue type="Enumeration" value="RSA"/>
0330     </Attribute>
0331     <Attribute>
0332         <AttributeName type="TextString" value="Cryptographic
Length"/>
0333         <AttributeValue type="Integer" value="2048"/>
0334     </Attribute>
0335     <Attribute>
0336         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0337         <AttributeValue type="Integer" value="Verify"/>
0338     </Attribute>
0339     <Attribute>
0340         <AttributeName type="TextString" value="Digest"/>
0341         <AttributeValue>
0342             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0343             <DigestValue type="ByteString"
value="330306b0e337e32dd1b5acf92cb96fd39adb802f305e7406062248324816f
445"/>
0344         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0345     </AttributeValue>
0346 </Attribute>
0347 <Attribute>
0348     <AttributeName type="TextString" value="Fresh"/>
0349     <AttributeValue type="Boolean" value="true"/>
0350 </Attribute>
0351 <Attribute>
0352     <AttributeName type="TextString" value="Initial Date"/>
0353     <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0354 </Attribute>
0355 <Attribute>
0356     <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"
0375	value="UninterpretedTextString"/>
0376	</AttributeValue>
0377	</Attribute>
0378	<AttributeName type="TextString" value="Original Creation
0379	Date"/>
0380	<AttributeValue type="DateTime" value="2013-01-
0381	11T08:37:43+00:00"/>
0382	</Attribute>
0383	<AttributeName type="TextString" value="State"/>
0384	<AttributeValue type="Enumeration" value="PreActive"/>
0385	</Attribute>
0386	</ResponsePayload>
0387	</BatchItem>
0388	</ResponseMessage>
0389	# TIME 5
0390	<RequestMessage>
0391	<RequestHeader>
0392	<ProtocolVersion>
0393	<ProtocolVersionMajor type="Integer" value="1"/>
0394	<ProtocolVersionMinor type="Integer" value="2"/>
0395	</ProtocolVersion>
0396	<BatchCount type="Integer" value="1"/>
0397	</RequestHeader>
0398	<BatchItem>
0399	<Operation type="Enumeration" value="Destroy"/>
0400	<RequestPayload>
0401	<UniqueIdentifier type="TextString"
0402	value="\$UNIQUE_IDENTIFIER_1"/>
0403	</RequestPayload>
0404	</BatchItem>
0405	</RequestMessage>
0406	<ResponseMessage>
0407	<ResponseHeader>
0408	<ProtocolVersion>
0409	<ProtocolVersionMajor type="Integer" value="1"/>
0410	<ProtocolVersionMinor type="Integer" value="2"/>
0411	</ProtocolVersion>
0412	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0413	<BatchCount type="Integer" value="1"/>
0414	</ResponseHeader>
0415	<BatchItem>
0416	<Operation type="Enumeration" value="Destroy"/>
0417	<ResultStatus type="Enumeration" value="Success"/>
0418	<ResponsePayload>
0419	<UniqueIdentifier type="TextString"
0420	value="\$UNIQUE_IDENTIFIER_1"/>
0421	</ResponsePayload>
0422	</BatchItem>
0423	</ResponseMessage>
0420	# TIME 6
0421	<RequestMessage>
0422	<RequestHeader>
0423	<ProtocolVersion>
0424	<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>
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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>
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0501         <LinkedObjectIdentifier type="TextString"
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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>

```

---

## 4 Conformance

### 4.1 Asymmetric Key Lifecycle Client KMIP v1.0 Profile Conformance

KMIP client implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the Asymmetric Key Lifecycle - Client conditions (2.2) and;
3. SHALL support all Mandatory Test Cases KMIP v1.0 (3.1)

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

KMIP client implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the Asymmetric Key Lifecycle - Client conditions (2.2) and;
3. SHALL support all Mandatory Test Cases KMIP v1.1 (3.2)

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

KMIP client implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the Asymmetric Key Lifecycle - Client conditions (2.2) and;
3. SHALL support all Mandatory Test Cases KMIP v1.2 (3.3)

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

KMIP server implementations conformant to this profile:

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

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

KMIP server implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the Asymmetric Key Lifecycle - Server conditions (2.3) and;
3. SHALL support all Mandatory Test Cases KMIP v1.1 (3.2)

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

KMIP server implementations conformant to this profile:

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

### 4.7 Permitted Test Case Variations

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

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

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

#### 4.7.1 Variable Items

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

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

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

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

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

## 4.7.2 Variable behavior

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

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

---

## Appendix A. Acknowledgments

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260 Mike Allen, Symantec  
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262 Todd Arnold, IBM  
263 Richard Austin, Hewlett-Packard  
264 Lars Bagnert, PrimeKey  
265 Elaine Barker, NIST  
266 Peter Bartok, Venafi, Inc.  
267 Tom Benjamin, IBM  
268 Anthony Berglas, Cryptsoft  
269 Mathias Björkqvist, IBM  
270 Kevin Bocket, Venafi  
271 Anne Bolgert, IBM  
272 Alan Brown, Thales e-Security  
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294 Judith Furlong, EMC Corporation  
295 Susan Gleeson, Oracle  
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315 Kathy Kriese, Symantec Corporation  
316 Mark Lambiase, SecureAuth  
317 John Leiseboer, Quintessence Labs  
318 Hal Lockhart, Oracle Corporation  
319 Robert Lockhart, Thales e-Security  
320 Anne Luk, Cryptsoft  
321 Sairam Manidi, Freescale  
322 Luther Martin, Voltage Security  
323 Neil McEvoy, iFOSSF  
324 Marina Milshtein, Individual  
325 Dale Moberg, Axway Software  
326 Jishnu Mukeri, Hewlett-Packard  
327 Bryan Olson, Hewlett-Packard  
328 John Peck, IBM  
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333 Saravanan Ramalingam, Thales e-Security  
334 Peter Reed, SafeNet, Inc.  
335 Bruce Rich, IBM  
336 Christina Richards, American Express CCoE  
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338 Peter Robinson, EMC Corporation  
339 Scott Rotondo, Oracle  
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344 Greg Singh, QuintessenceLabs  
345 David Smith, Venafi, Inc.  
346 Brian Spector, Certivox  
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353 Somanchi Trinath, Freescale Semiconductor, Inc.  
354 Nathan Turajski, Thales e-Security  
355 Sean Turner, IECA, Inc.  
356 Paul Turner, Venafi, Inc.  
357 Rod Wideman, Quantum Corporation  
358 Steven Wierenga, Hewlett-Packard  
359 Jin Wong, QuintessenceLabs  
360 Sameer Yami, Thales e-Security  
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362 Krishna Yellepeddy, IBM  
363 Catherine Ying, SafeNet, Inc.  
364 Tatu Ylonen, SSH Communications Security (Tectia Corp)



365 Michael Yoder, Vormetric. Inc.  
366 Magda Zdunkiewicz, Cryptsoft  
367 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><u>KMIP 1.0</u></b>	<b><u>KMIP 1.1</u></b>	<b><u>KMIP 1.2</u></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

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.
pr01update	11-June-2014	Tim Hudson	Updated following Public Review