



KMIP Asymmetric Key Lifecycle Profile Version 1.0

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Related work:

This specification is related to:

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

Abstract:

Describes a profile for a KMIP server performing asymmetric key lifecycle operations based on requests received from a KMIP client.

Status:

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

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at <http://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].

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

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

1.1 Terminology

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

1.2 Normative References

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

1.3 Non-Normative References

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

44 **[KMIP-UG-1_1]** *Key Management Interoperability Protocol Usage Guide Version 1.1.*
45 <http://docs.oasis-open.org/kmip/ug/v1.1/cn01/kmip-ug-v1.1-cn01.doc>
46 Committee Note 01, 27 July 2012
47 **[KMIP-UG-1_2]** *Key Management Interoperability Protocol Usage Guide Version 1.2.*
48 URL
49 Committee Note Draft, DD MMM YYYY
50 **[KMIP-TC-1_1]** *Key Management Interoperability Protocol Test Cases Version 1.1.*
51 [http://docs.oasis-open.org/kmip/testcases/v1.1/cn01/kmip-testcases-v1.1-](http://docs.oasis-open.org/kmip/testcases/v1.1/cn01/kmip-testcases-v1.1-cn01.doc)
52 [cn01.doc](http://docs.oasis-open.org/kmip/testcases/v1.1/cn01/kmip-testcases-v1.1-cn01.doc), Committee Note 01, 27 July 2012.
53 **[KMIP-TC-1_2]** *Key Management Interoperability Protocol Test Cases Version 1.2.*
54 URL, Committee Note Draft, DD MMM YYYY.
55 **[KMIP-UC]** *Key Management Interoperability Protocol Use Cases Version 1.0.*
56 [http://docs.oasis-open.org/kmip/usecases/v1.0/cs01/kmip-usecases-1.0-cs-](http://docs.oasis-open.org/kmip/usecases/v1.0/cs01/kmip-usecases-1.0-cs-01.doc)
57 [01.doc](http://docs.oasis-open.org/kmip/usecases/v1.0/cs01/kmip-usecases-1.0-cs-01.doc), Committee Specification, 15 June 2010.
58

59 2 Asymmetric Key Lifecycle Profile

60 The Asymmetric Key Lifecycle Profile is a KMIP server performing asymmetric key lifecycle operations
61 based on requests received from a KMIP client.

62 2.1 Authentication Suite

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

66 2.2 Baseline

67 KMIP clients conformant to this profile:

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

69 KMIP servers conformant to this profile:

- 70 2. SHALL conform to the KMIP Baseline Server profile in [KMIP-PROF] and [KMIP-SPEC] and
- 71 3. SHALL support the following *Objects* [KMIP-SPEC]
 - 72 a. *Public Key* [KMIP-SPEC]
 - 73 b. *Private Key* [KMIP-SPEC]
 - 74 c. *Key Format Type* [KMIP-SPEC]
- 75 4. SHALL support the following *Attributes* [KMIP-SPEC]
 - 76 a. *Cryptographic Algorithm* [KMIP-SPEC]
 - 77 b. *Object Type* [KMIP-SPEC]
 - 78 c. *Process Start Date* [KMIP-SPEC]
 - 79 d. *Process Stop Date* [KMIP-SPEC]
- 80 5. SHALL support the following *Client-to-Server* [KMIP-SPEC] operations:
 - 81 a. *Create Key Pair* [KMIP-SPEC]
- 82 6. SHALL support the following *Message Encoding* [KMIP-SPEC]:
 - 83 a. *Cryptographic Algorithm* [KMIP-SPEC] with values:
 - 84 i. RSA
 - 85 b. *Object Type* [KMIP-SPEC] with value:
 - 86 i. Public Key
 - 87 ii. Private Key
 - 88 c. *Key Format Type* [KMIP-SPEC] with value:
 - 89 i. PKCS#1
 - 90 ii. PKCS#8
 - 91 iii. Transparent RSA Public Key
 - 92 iv. Transparent RSA Private Key
- 93 7. SHALL support all Mandatory Test Cases, returning results in accordance with the test cases.
- 94 8. MAY support any clause within [KMIP-SPEC] provided it does not conflict with any other clause
95 within this section 2.2
- 96 9. MAY support extensions outside the scope of this standard (e.g., vendor extensions,
97 conformance clauses) that do not contradict any KMIP requirements.

98 3 Asymmetric Key Lifecycle Profile - Test Cases

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

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

103 3.1 Mandatory Test Cases KMIP 1.0

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

106 3.1.1 AKLC-M-1-10

107 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-
0040	public"/>
0041	<NameType type="Enumeration"
0042	value="UninterpretedTextString"/>
0043	</AttributeValue>
0044	</Attribute>
0045	<Attribute>
0046	<AttributeName type="TextString" value="Cryptographic
0047	Usage Mask"/>
0048	<AttributeValue type="Integer" value="Verify"/>
0049	</Attribute>
0050	</PublicKeyTemplateAttribute>
0051	</RequestPayload>
0052	</BatchItem>
0053	</RequestMessage>
0054	<ResponseMessage>
0055	<ResponseHeader>
0056	<ProtocolVersion>
0057	<ProtocolVersionMajor type="Integer" value="1"/>
0058	<ProtocolVersionMinor type="Integer" value="0"/>
0059	</ProtocolVersion>
0060	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0061	<BatchCount type="Integer" value="1"/>
0062	</ResponseHeader>
0063	<BatchItem>
0064	<Operation type="Enumeration" value="CreateKeyPair"/>
0065	<ResultStatus type="Enumeration" value="Success"/>
0066	<ResponsePayload>
0067	<PrivateKeyUniqueIdentifier type="TextString"
0068	value="\$UNIQUE_IDENTIFIER_0"/>
0069	<PublicKeyUniqueIdentifier type="TextString"
0070	value="\$UNIQUE_IDENTIFIER_1"/>
0071	</ResponsePayload>
0072	</BatchItem>
0073	</ResponseMessage>
0074	# TIME 1
0075	<RequestMessage>
0076	<RequestHeader>
0077	<ProtocolVersion>
0078	<ProtocolVersionMajor type="Integer" value="1"/>
0079	<ProtocolVersionMinor type="Integer" value="0"/>
0080	</ProtocolVersion>
0081	<BatchCount type="Integer" value="1"/>
0082	</RequestHeader>
0083	<BatchItem>
0084	<Operation type="Enumeration" value="GetAttributes"/>
0085	<RequestPayload>
0086	<UniqueIdentifier type="TextString"
0087	value="\$UNIQUE_IDENTIFIER_0"/>
0088	<AttributeName type="TextString" value="State"/>
0089	<AttributeName type="TextString" value="Cryptographic Usage
0090	Mask"/>
0091	<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-
	11T08:19:49+00:00"/>
0227	</Attribute>
0228	</ResponsePayload>
0229	</BatchItem>
0230	</ResponseMessage>
0231	# TIME 3
	<RequestMessage>

0232	<RequestHeader>
0233	<ProtocolVersion>
0234	<ProtocolVersionMajor type="Integer" value="1"/>
0235	<ProtocolVersionMinor type="Integer" value="0"/>
0236	</ProtocolVersion>
0237	<BatchCount type="Integer" value="1"/>
0238	</RequestHeader>
0239	<BatchItem>
0240	<Operation type="Enumeration" value="Destroy"/>
0241	<RequestPayload>
0242	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0243	</RequestPayload>
0244	</BatchItem>
0245	</RequestMessage>
0246	<ResponseMessage>
0247	<ResponseHeader>
0248	<ProtocolVersion>
0249	<ProtocolVersionMajor type="Integer" value="1"/>
0250	<ProtocolVersionMinor type="Integer" value="0"/>
0251	</ProtocolVersion>
0252	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0253	<BatchCount type="Integer" value="1"/>
0254	</ResponseHeader>
0255	<BatchItem>
0256	<Operation type="Enumeration" value="Destroy"/>
0257	<ResultStatus type="Enumeration" value="Success"/>
0258	<ResponsePayload>
0259	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0260	</ResponsePayload>
0261	</BatchItem>
0262	</ResponseMessage>
	# TIME 4
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_1"/>
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="Success"/>
0290   <ResponsePayload>
0291     <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0292   </ResponsePayload>
0293 </BatchItem>
0294 </ResponseMessage>

```

108

109 3.1.2 AKLC-M-2-10

110 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-
0040	public"/>
0041	<NameType type="Enumeration"
0042	value="UninterpretedTextString"/>
0043	</AttributeValue>
0044	</Attribute>
0045	<AttributeName type="TextString" value="Cryptographic
0046	Usage Mask"/>
0047	<AttributeValue type="Integer" value="Verify"/>
0048	</Attribute>
0049	</PublicKeyTemplateAttribute>
0050	</RequestPayload>
0051	</BatchItem>
0052	</RequestMessage>
0053	<ResponseMessage>
0054	<ResponseHeader>
0055	<ProtocolVersion>
0056	<ProtocolVersionMajor type="Integer" value="1"/>
0057	<ProtocolVersionMinor type="Integer" value="0"/>
0058	</ProtocolVersion>
0059	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0060	<BatchCount type="Integer" value="1"/>
0061	</ResponseHeader>
0062	<BatchItem>
0063	<Operation type="Enumeration" value="CreateKeyPair"/>
0064	<ResultStatus type="Enumeration" value="Success"/>
0065	<ResponsePayload>
0066	<PrivateKeyUniqueIdentifier type="TextString"
0067	value="\$UNIQUE_IDENTIFIER_0"/>
0068	<PublicKeyUniqueIdentifier type="TextString"
0069	value="\$UNIQUE_IDENTIFIER_1"/>
0070	</ResponsePayload>
0071	</BatchItem>
0072	</ResponseMessage>
0073	# TIME 1
0074	<RequestMessage>
0075	<RequestHeader>
0076	<ProtocolVersion>
0077	<ProtocolVersionMajor type="Integer" value="1"/>
0078	<ProtocolVersionMinor type="Integer" value="0"/>
0079	</ProtocolVersion>
0080	<BatchCount type="Integer" value="1"/>
0081	</RequestHeader>
0082	<BatchItem>
0083	<Operation type="Enumeration" value="GetAttributes"/>
0084	<RequestPayload>
0085	<UniqueIdentifier type="TextString"
0086	value="\$UNIQUE_IDENTIFIER_0"/>
0087	<AttributeName type="TextString" value="State"/>
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"/>
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>
0224	# TIME 4 <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"
	value="\$UNIQUE_IDENTIFIER_1"/>
0306	</RequestPayload>
0307	</BatchItem>
0308	</RequestMessage>
0309	<ResponseMessage>
0310	<ResponseHeader>
0311	<ProtocolVersion>
0312	<ProtocolVersionMajor type="Integer" value="1"/>
0313	<ProtocolVersionMinor type="Integer" value="0"/>
0314	</ProtocolVersion>
0315	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0316	<BatchCount type="Integer" value="1"/>
0317	</ResponseHeader>
0318	<BatchItem>
0319	<Operation type="Enumeration" value="Destroy"/>
0320	<ResultStatus type="Enumeration" value="Success"/>
0321	<ResponsePayload>
0322	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0323	</ResponsePayload>
0324	</BatchItem>
0325	</ResponseMessage>
	# TIME 7
0326	<RequestMessage>
0327	<RequestHeader>
0328	<ProtocolVersion>
0329	<ProtocolVersionMajor type="Integer" value="1"/>
0330	<ProtocolVersionMinor type="Integer" value="0"/>
0331	</ProtocolVersion>
0332	<BatchCount type="Integer" value="1"/>
0333	</RequestHeader>
0334	<BatchItem>
0335	<Operation type="Enumeration" value="Revoke"/>
0336	<RequestPayload>
0337	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0338	<RevocationReason>
0339	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>
0340	</RevocationReason>
0341	<CompromiseOccurrenceDate type="DateTime" value="1970-01-
	01T00:00:00+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>

111

112 3.1.3 AKLC-M-3-10

113 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"

0118	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>
0149	# 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	</BatchCount>
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>

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>
0224	# TIME 4 <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>
0261	# TIME 5 <RequestMessage>
0262	<RequestHeader>
0263	<ProtocolVersion>
0264	<ProtocolVersionMajor type="Integer" value="1"/>
0265	<ProtocolVersionMinor type="Integer" value="0"/>
0266	</ProtocolVersion>
0267	<BatchCount type="Integer" value="1"/>
0268	</RequestHeader>
0269	<BatchItem>
0270	<Operation type="Enumeration" value="Revoke"/>
0271	<RequestPayload>
0272	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0273	<RevocationReason>

0274	<RevocationReasonCode type="Enumeration" value="KeyCompromise"/>
0275	</RevocationReason>
0276	<CompromiseOccurrenceDate type="DateTime" value="1970-01- 01T00:00:06+00:00"/>
0277	</RequestPayload>
0278	</BatchItem>
0279	</RequestMessage>
0280	<ResponseMessage>
0281	<ResponseHeader>
0282	<ProtocolVersion>
0283	<ProtocolVersionMajor type="Integer" value="1"/>
0284	<ProtocolVersionMinor type="Integer" value="0"/>
0285	</ProtocolVersion>
0286	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0287	<BatchCount type="Integer" value="1"/>
0288	</ResponseHeader>
0289	<BatchItem>
0290	<Operation type="Enumeration" value="Revoke"/>
0291	<ResultStatus type="Enumeration" value="Success"/>
0292	<ResponsePayload>
0293	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0294	</ResponsePayload>
0295	</BatchItem>
0296	</ResponseMessage>
0297	# TIME 6 <RequestMessage>
0298	<RequestHeader>
0299	<ProtocolVersion>
0300	<ProtocolVersionMajor type="Integer" value="1"/>
0301	<ProtocolVersionMinor type="Integer" value="0"/>
0302	</ProtocolVersion>
0303	<BatchCount type="Integer" value="1"/>
0304	</RequestHeader>
0305	<BatchItem>
0306	<Operation type="Enumeration" value="GetAttributes"/>
0307	<RequestPayload>
0308	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0309	<AttributeName type="TextString" value="State"/>
0310	</RequestPayload>
0311	</BatchItem>
0312	</RequestMessage>
0313	<ResponseMessage>
0314	<ResponseHeader>
0315	<ProtocolVersion>
0316	<ProtocolVersionMajor type="Integer" value="1"/>
0317	<ProtocolVersionMinor type="Integer" value="0"/>
0318	</ProtocolVersion>
0319	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0320	<BatchCount type="Integer" value="1"/>
0321	</ResponseHeader>
0322	<BatchItem>
0323	<Operation type="Enumeration" value="GetAttributes"/>
0324	<ResultStatus type="Enumeration" value="Success"/>
0325	<ResponsePayload>
0326	<UniqueIdentifier type="TextString"

0327	value="\$UNIQUE_IDENTIFIER_0"/>
0328	<AttributeName type="TextString" value="State"/>
0329	<AttributeValue type="Enumeration" value="Compromised"/>
0330	</Attribute>
0331	</ResponsePayload>
0332	</BatchItem>
0333	</ResponseMessage>
0334	# TIME 7
0335	<RequestMessage>
0336	<RequestHeader>
0337	<ProtocolVersion>
0338	<ProtocolVersionMajor type="Integer" value="1"/>
0339	<ProtocolVersionMinor type="Integer" value="0"/>
0340	</ProtocolVersion>
0341	<BatchCount type="Integer" value="1"/>
0342	</RequestHeader>
0343	<BatchItem>
0344	<Operation type="Enumeration" value="GetAttributes"/>
0345	<RequestPayload>
0346	<UniqueIdentifier type="TextString"
0347	value="\$UNIQUE_IDENTIFIER_1"/>
0348	<AttributeName type="TextString" value="State"/>
0349	</RequestPayload>
0350	</BatchItem>
0351	</RequestMessage>
0352	<ResponseMessage>
0353	<ResponseHeader>
0354	<ProtocolVersion>
0355	<ProtocolVersionMajor type="Integer" value="1"/>
0356	<ProtocolVersionMinor type="Integer" value="0"/>
0357	</ProtocolVersion>
0358	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0359	<BatchCount type="Integer" value="1"/>
0360	</ResponseHeader>
0361	<BatchItem>
0362	<Operation type="Enumeration" value="GetAttributes"/>
0363	<ResultStatus type="Enumeration" value="Success"/>
0364	<ResponsePayload>
0365	<UniqueIdentifier type="TextString"
0366	value="\$UNIQUE_IDENTIFIER_1"/>
0367	<Attribute>
0368	<AttributeName type="TextString" value="State"/>
0369	<AttributeValue type="Enumeration" value="PreActive"/>
0370	</Attribute>
0371	</ResponsePayload>
0372	</BatchItem>
0373	</ResponseMessage>
0374	# TIME 8
0375	<RequestMessage>
0376	<RequestHeader>
0377	<ProtocolVersion>
0378	<ProtocolVersionMajor type="Integer" value="1"/>
0379	<ProtocolVersionMinor type="Integer" value="0"/>
	</ProtocolVersion>
	<BatchCount type="Integer" value="1"/>
	</RequestHeader>
	<BatchItem>

0380	<Operation type="Enumeration" value="Destroy"/>
0381	<RequestPayload>
0382	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0383	</RequestPayload>
0384	</BatchItem>
0385	</RequestMessage>
0386	<ResponseMessage>
0387	<ResponseHeader>
0388	<ProtocolVersion>
0389	<ProtocolVersionMajor type="Integer" value="1"/>
0390	<ProtocolVersionMinor type="Integer" value="0"/>
0391	</ProtocolVersion>
0392	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0393	<BatchCount type="Integer" value="1"/>
0394	</ResponseHeader>
0395	<BatchItem>
0396	<Operation type="Enumeration" value="Destroy"/>
0397	<ResultStatus type="Enumeration" value="Success"/>
0398	<ResponsePayload>
0399	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0400	</ResponsePayload>
0401	</BatchItem>
0402	</ResponseMessage>
	# TIME 9
0403	<RequestMessage>
0404	<RequestHeader>
0405	<ProtocolVersion>
0406	<ProtocolVersionMajor type="Integer" value="1"/>
0407	<ProtocolVersionMinor type="Integer" value="0"/>
0408	</ProtocolVersion>
0409	<BatchCount type="Integer" value="1"/>
0410	</RequestHeader>
0411	<BatchItem>
0412	<Operation type="Enumeration" value="Destroy"/>
0413	<RequestPayload>
0414	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0415	</RequestPayload>
0416	</BatchItem>
0417	</RequestMessage>
0418	<ResponseMessage>
0419	<ResponseHeader>
0420	<ProtocolVersion>
0421	<ProtocolVersionMajor type="Integer" value="1"/>
0422	<ProtocolVersionMinor type="Integer" value="0"/>
0423	</ProtocolVersion>
0424	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0425	<BatchCount type="Integer" value="1"/>
0426	</ResponseHeader>
0427	<BatchItem>
0428	<Operation type="Enumeration" value="Destroy"/>
0429	<ResultStatus type="Enumeration" value="Success"/>
0430	<ResponsePayload>
0431	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0432	</ResponsePayload>

0433	</BatchItem>
0434	</ResponseMessage>

114

115 3.2 Mandatory Test Cases KMIP 1.1

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

118 3.2.1 AKLC-M-1-11

119 CreateKeyPair, GetAttributes, GetAttributes, Destroy

```

0001 # TIME 0
0002 <RequestMessage>
0003   <RequestHeader>
0004     <ProtocolVersion>
0005       <ProtocolVersionMajor type="Integer" value="1"/>
0006       <ProtocolVersionMinor type="Integer" value="1"/>
0007     </ProtocolVersion>
0008     <BatchCount type="Integer" value="1"/>
0009   </RequestHeader>
0010   <BatchItem>
0011     <Operation type="Enumeration" value="CreateKeyPair"/>
0012     <RequestPayload>
0013       <CommonTemplateAttribute>
0014         <Attribute>
0015           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0016           <AttributeValue type="Enumeration" value="RSA"/>
0017         </Attribute>
0018         <Attribute>
0019           <AttributeName type="TextString" value="Cryptographic
Length"/>
0020           <AttributeValue type="Integer" value="2048"/>
0021         </Attribute>
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-

```

0040	public"/>
0041	<NameType type="Enumeration"
0042	value="UninterpretedTextString"/>
0043	</AttributeValue>
0044	</Attribute>
0045	<AttributeName type="TextString" value="Cryptographic
0046	Usage Mask"/>
0047	<AttributeValue type="Integer" value="Verify"/>
0048	</Attribute>
0049	</PublicKeyTemplateAttribute>
0050	</RequestPayload>
0051	</BatchItem>
0052	</RequestMessage>
0053	<ResponseMessage>
0054	<ResponseHeader>
0055	<ProtocolVersion>
0056	<ProtocolVersionMajor type="Integer" value="1"/>
0057	<ProtocolVersionMinor type="Integer" value="1"/>
0058	</ProtocolVersion>
0059	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0060	<BatchCount type="Integer" value="1"/>
0061	</ResponseHeader>
0062	<BatchItem>
0063	<Operation type="Enumeration" value="CreateKeyPair"/>
0064	<ResultStatus type="Enumeration" value="Success"/>
0065	<ResponsePayload>
0066	<PrivateKeyUniqueIdentifier type="TextString"
0067	value="\$UNIQUE_IDENTIFIER_0"/>
0068	<PublicKeyUniqueIdentifier type="TextString"
0069	value="\$UNIQUE_IDENTIFIER_1"/>
0070	</ResponsePayload>
0071	</BatchItem>
0072	</ResponseMessage>
0073	# TIME 1
0074	<RequestMessage>
0075	<RequestHeader>
0076	<ProtocolVersion>
0077	<ProtocolVersionMajor type="Integer" value="1"/>
0078	<ProtocolVersionMinor type="Integer" value="1"/>
0079	</ProtocolVersion>
0080	<BatchCount type="Integer" value="1"/>
0081	</RequestHeader>
0082	<BatchItem>
0083	<Operation type="Enumeration" value="GetAttributes"/>
0084	<RequestPayload>
0085	<UniqueIdentifier type="TextString"
0086	value="\$UNIQUE_IDENTIFIER_0"/>
0087	<AttributeName type="TextString" value="State"/>
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"/>
0094	<AttributeName type="TextString" value="Cryptographic
0095	Length"/>
0096	<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>
0151	# TIME 2 <RequestMessage>
0152	<RequestHeader>
0153	<ProtocolVersion>
0154	<ProtocolVersionMajor type="Integer" value="1"/>
0155	<ProtocolVersionMinor type="Integer" value="1"/>
0156	</ProtocolVersion>
0157	<BatchCount type="Integer" value="1"/>
0158	</RequestHeader>
0159	<BatchItem>
0160	<Operation type="Enumeration" value="GetAttributes"/>
0161	<RequestPayload>
0162	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER 1"/>
0163	<AttributeName type="TextString" value="State"/>
0164	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0165	<AttributeName type="TextString" value="Unique Identifier"/>
0166	<AttributeName type="TextString" value="Object Type"/>
0167	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0168	<AttributeName type="TextString" value="Cryptographic Length"/>
0169	<AttributeName type="TextString" value="Digest"/>
0170	<AttributeName type="TextString" value="Initial Date"/>
0171	<AttributeName type="TextString" value="Last Change Date"/>
0172	<AttributeName type="TextString" value="Activation Date"/>
0173	</RequestPayload>
0174	</BatchItem>
0175	</RequestMessage>
0176	<ResponseMessage>
0177	<ResponseHeader>
0178	<ProtocolVersion>
0179	<ProtocolVersionMajor type="Integer" value="1"/>
0180	<ProtocolVersionMinor type="Integer" value="1"/>
0181	</ProtocolVersion>
0182	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0183	<BatchCount type="Integer" value="1"/>
0184	</ResponseHeader>
0185	<BatchItem>
0186	<Operation type="Enumeration" value="GetAttributes"/>
0187	<ResultStatus type="Enumeration" value="Success"/>
0188	<ResponsePayload>
0189	<UniqueIdentifier type="TextString"

```

0190 value="$UNIQUE_IDENTIFIER_1"/>
0191   <Attribute>
0192     <AttributeName type="TextString" value="State"/>
0193     <AttributeValue type="Enumeration" value="PreActive"/>
0194   </Attribute>
0195   <Attribute>
0196     <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0197     <AttributeValue type="Integer" value="Verify"/>
0198   </Attribute>
0199   <Attribute>
0200     <AttributeName type="TextString" value="Unique Identifier"/>
0201     <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0202   </Attribute>
0203   <Attribute>
0204     <AttributeName type="TextString" value="Object Type"/>
0205     <AttributeValue type="Enumeration" value="PublicKey"/>
0206   </Attribute>
0207   <Attribute>
0208     <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0209     <AttributeValue type="Enumeration" value="RSA"/>
0210   </Attribute>
0211   <Attribute>
0212     <AttributeName type="TextString" value="Cryptographic
Length"/>
0213     <AttributeValue type="Integer" value="2048"/>
0214   </Attribute>
0215   <Attribute>
0216     <AttributeName type="TextString" value="Digest"/>
0217     <AttributeValue>
0218       <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0219       <DigestValue type="ByteString"
value="82bcff8afab753809db804e654013ded708c3996a50c6ce9313f9b3915442
ce9"/>
0220     </AttributeValue>
0221   </Attribute>
0222   <Attribute>
0223     <AttributeName type="TextString" value="Initial Date"/>
0224     <AttributeValue type="DateTime" value="2013-01-
11T08:19:49+00:00"/>
0225   </Attribute>
0226   <Attribute>
0227     <AttributeName type="TextString" value="Last Change Date"/>
0228     <AttributeValue type="DateTime" value="2013-01-
11T08:19:49+00:00"/>
0229   </Attribute>
0230 </ResponsePayload>
0231 </BatchItem>
0232 </ResponseMessage>
# TIME 3
0233 <RequestMessage>
0234   <RequestHeader>
0235     <ProtocolVersion>
0236       <ProtocolVersionMajor type="Integer" value="1"/>
0237       <ProtocolVersionMinor type="Integer" value="1"/>

```

0238	</ProtocolVersion>
0239	<BatchCount type="Integer" value="1"/>
0240	</RequestHeader>
0241	<BatchItem>
0242	<Operation type="Enumeration" value="Destroy"/>
0243	<RequestPayload>
0244	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0245	</RequestPayload>
0246	</BatchItem>
0247	</RequestMessage>
0248	<ResponseMessage>
0249	<ResponseHeader>
0250	<ProtocolVersion>
0251	<ProtocolVersionMajor type="Integer" value="1"/>
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0254	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0255	<BatchCount type="Integer" value="1"/>
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0257	<BatchItem>
0258	<Operation type="Enumeration" value="Destroy"/>
0259	<ResultStatus type="Enumeration" value="Success"/>
0260	<ResponsePayload>
0261	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0262	</ResponsePayload>
0263	</BatchItem>
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0266	<RequestHeader>
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0275	<RequestPayload>
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0286	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0287	<BatchCount type="Integer" value="1"/>
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0289	<BatchItem>
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0291	<ResultStatus type="Enumeration" value="Success"/>

0292	<ResponsePayload>
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0294	</ResponsePayload>
0295	</BatchItem>
0296	</ResponseMessage>

120

121 3.2.2 AKLC-M-2-11

122 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

	# TIME 0
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0006	</ProtocolVersion>
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0008	</RequestHeader>
0009	<BatchItem>
0010	<Operation type="Enumeration" value="CreateKeyPair"/>
0011	<RequestPayload>
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0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-2-11- private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-2-11- public"/>

0040	<pre> <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> </pre>
0051	<pre> <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> </pre>
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0089	<AttributeName type="TextString" value="Last Change Date"/>
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0091	</BatchItem>
0092	</RequestMessage>
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0094	<ResponseHeader>
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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"/>
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0119	<Attribute>
0120	<AttributeName type="TextString" value="Object Type"/>
0121	<AttributeValue type="Enumeration" value="PrivateKey"/>
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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"/>
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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	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0137	</AttributeValue>
0138	</Attribute>
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0140	<AttributeName type="TextString" value="Initial Date"/>
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0142	</Attribute>
0143	<Attribute>
0144	<AttributeName type="TextString" value="Last Change Date"/>
0145	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
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0147	</ResponsePayload>
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0149	</ResponseMessage>
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0154	<ProtocolVersionMinor type="Integer" value="1"/>
0155	</ProtocolVersion>
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0157	</RequestHeader>
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0159	<Operation type="Enumeration" value="Activate"/>
0160	<RequestPayload>
0161	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0162	</RequestPayload>
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0164	</RequestMessage>
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0171	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0172	<BatchCount type="Integer" value="1"/>
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0174	<BatchItem>
0175	<Operation type="Enumeration" value="Activate"/>
0176	<ResultStatus type="Enumeration" value="Success"/>
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0178	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0179	</ResponsePayload>
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0181	</ResponseMessage>
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0187	</ProtocolVersion>
0188	<BatchCount type="Integer" value="1"/>
0189	</RequestHeader>
0190	<BatchItem>
0191	<Operation type="Enumeration" value="GetAttributes"/>

0192	<RequestPayload>
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0194	<AttributeName type="TextString" value="State"/>
0195	<AttributeName type="TextString" value="Activation Date"/>
0196	<AttributeName type="TextString" value="Deactivation Date"/>
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0199	</RequestMessage>
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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>
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0221	</Attribute>
0222	</ResponsePayload>
0223	</BatchItem>
0224	</ResponseMessage>
0225	# TIME 4 <RequestMessage>
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0232	</RequestHeader>
0233	<BatchItem>
0234	<Operation type="Enumeration" value="GetAttributes"/>
0235	<RequestPayload>
0236	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0237	<AttributeName type="TextString" value="State"/>
0238	<AttributeName type="TextString" value="Activation Date"/>
0239	<AttributeName type="TextString" value="Deactivation Date"/>
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0243	<ResponseMessage>
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0245	<ProtocolVersion>
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0254	<ResultStatus type="Enumeration" value="Success"/>
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0259	<AttributeValue type="Enumeration" value="PreActive"/>
0260	</Attribute>
0261	</ResponsePayload>
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0263	</ResponseMessage>
	# TIME 5
0264	<RequestMessage>
0265	<RequestHeader>
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0268	<ProtocolVersionMinor type="Integer" value="1"/>
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0271	</RequestHeader>
0272	<BatchItem>
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0274	<RequestPayload>
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	value="\$UNIQUE_IDENTIFIER_0"/>
0276	</RequestPayload>
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0278	</RequestMessage>
0279	<ResponseMessage>
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0283	<ProtocolVersionMinor type="Integer" value="1"/>
0284	</ProtocolVersion>
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0286	<BatchCount type="Integer" value="1"/>
0287	</ResponseHeader>
0288	<BatchItem>
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0290	<ResultStatus type="Enumeration" value="OperationFailed"/>
0291	<ResultReason type="Enumeration" value="PermissionDenied"/>
0292	<ResultMessage type="TextString" value="DENIED"/>
0293	</BatchItem>
0294	</ResponseMessage>
	# TIME 6
0295	<RequestMessage>
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0305	<RequestPayload>
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	value="\$UNIQUE_IDENTIFIER_1"/>
0307	</RequestPayload>
0308	</BatchItem>
0309	</RequestMessage>
0310	<ResponseMessage>
0311	<ResponseHeader>
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0317	<BatchCount type="Integer" value="1"/>
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	value="\$UNIQUE_IDENTIFIER_1"/>
0324	</ResponsePayload>
0325	</BatchItem>
0326	</ResponseMessage>
0327	# TIME 7
0328	<RequestMessage>
0329	<RequestHeader>
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0332	<ProtocolVersionMinor type="Integer" value="1"/>
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0336	<BatchItem>
0337	<Operation type="Enumeration" value="Revoke"/>
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	value="\$UNIQUE_IDENTIFIER_0"/>
0340	<RevocationReason>
	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>
0341	</RevocationReason>
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	01T00:00:06+00:00"/>
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0344	</BatchItem>
0345	</RequestMessage>
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0347	<ResponseHeader>
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0349	<ProtocolVersionMajor type="Integer" value="1"/>
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0353	<BatchCount type="Integer" value="1"/>
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0355	<BatchItem>
0356	<Operation type="Enumeration" value="Revoke"/>
0357	<ResultStatus type="Enumeration" value="Success"/>
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	value="\$UNIQUE_IDENTIFIER_0"/>
0360	</ResponsePayload>
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0362	</ResponseMessage>
	# TIME 8
0363	<RequestMessage>
0364	<RequestHeader>
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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>
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	value="\$UNIQUE_IDENTIFIER_0"/>
0375	<AttributeName type="TextString" value="State"/>
0376	</RequestPayload>
0377	</BatchItem>
0378	</RequestMessage>
0379	<ResponseMessage>
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0386	<BatchCount type="Integer" value="1"/>
0387	</ResponseHeader>
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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>
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0404	<ProtocolVersionMinor type="Integer" value="1"/>
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0407	</RequestHeader>
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	value="\$UNIQUE_IDENTIFIER_0"/>
0412	</RequestPayload>
0413	</BatchItem>
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0415	<ResponseMessage>
0416	<ResponseHeader>
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0418	<ProtocolVersionMajor type="Integer" value="1"/>
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0422	<BatchCount type="Integer" value="1"/>
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0424	<BatchItem>
0425	<Operation type="Enumeration" value="Destroy"/>
0426	<ResultStatus type="Enumeration" value="Success"/>
0427	<ResponsePayload>
0428	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0429	</ResponsePayload>
0430	</BatchItem>
0431	</ResponseMessage>

123

124 3.2.3 AKLC-M-3-11

125 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

	# TIME 0
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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>
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0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0019	<AttributeValue type="Integer" value="2048"/>

0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-3-11- private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-3-11- public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
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0055	<ProtocolVersionMinor type="Integer" value="1"/>
0056	</ProtocolVersion>
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0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
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0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
	# TIME 1

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0071     <ProtocolVersion>
0072       <ProtocolVersionMajor type="Integer" value="1"/>
0073       <ProtocolVersionMinor type="Integer" value="1"/>
0074     </ProtocolVersion>
0075     <BatchCount type="Integer" value="1"/>
0076   </RequestHeader>
0077   <BatchItem>
0078     <Operation type="Enumeration" value="GetAttributes"/>
0079     <RequestPayload>
0080       <UniqueIdentifier type="TextString"
0081 value="$UNIQUE_IDENTIFIER_0"/>
0082       <AttributeName type="TextString" value="State"/>
0083       <AttributeName type="TextString" value="Cryptographic Usage
0084 Mask"/>
0085       <AttributeName type="TextString" value="Unique Identifier"/>
0086       <AttributeName type="TextString" value="Object Type"/>
0087       <AttributeName type="TextString" value="Cryptographic
0088 Algorithm"/>
0089       <AttributeName type="TextString" value="Cryptographic
0090 Length"/>
0091       <AttributeName type="TextString" value="Digest"/>
0092       <AttributeName type="TextString" value="Initial Date"/>
0093       <AttributeName type="TextString" value="Last Change Date"/>
0094     </RequestPayload>
0095   </BatchItem>
0096 </RequestMessage>
0097 <ResponseMessage>
0098   <ResponseHeader>
0099     <ProtocolVersion>
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0101       <ProtocolVersionMinor type="Integer" value="1"/>
0102     </ProtocolVersion>
0103     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0104     <BatchCount type="Integer" value="1"/>
0105   </ResponseHeader>
0106   <BatchItem>
0107     <Operation type="Enumeration" value="GetAttributes"/>
0108     <ResultStatus type="Enumeration" value="Success"/>
0109     <ResponsePayload>
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0111 value="$UNIQUE_IDENTIFIER_0"/>
0112       <Attribute>
0113         <AttributeName type="TextString" value="State"/>
0114         <AttributeValue type="Enumeration" value="PreActive"/>
0115       </Attribute>
0116       <Attribute>
0117         <AttributeName type="TextString" value="Cryptographic Usage
0118 Mask"/>
0119         <AttributeValue type="Integer" value="Sign"/>
0120       </Attribute>
0121       <Attribute>
0122         <AttributeName type="TextString" value="Unique Identifier"/>
0123         <AttributeValue type="TextString"
0124 value="$UNIQUE_IDENTIFIER_0"/>
0125       </Attribute>
0126     </ResponsePayload>
0127   </BatchItem>
0128 </ResponseMessage>

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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>
	<i># TIME 2</i>
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"
	value="\$UNIQUE_IDENTIFIER_0"/>
0274	<RevocationReason>
0275	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>

0276	</RevocationReason>
0277	<CompromiseOccurrenceDate type="DateTime" value="1970-01-01T00:00:06+00:00"/>
0278	</RequestPayload>
0279	</BatchItem>
0280	</RequestMessage>
0281	<ResponseMessage>
0282	<ResponseHeader>
0283	<ProtocolVersion>
0284	<ProtocolVersionMajor type="Integer" value="1"/>
0285	<ProtocolVersionMinor type="Integer" value="1"/>
0286	</ProtocolVersion>
0287	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0288	<BatchCount type="Integer" value="1"/>
0289	</ResponseHeader>
0290	<BatchItem>
0291	<Operation type="Enumeration" value="Revoke"/>
0292	<ResultStatus type="Enumeration" value="Success"/>
0293	<ResponsePayload>
0294	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0295	</ResponsePayload>
0296	</BatchItem>
0297	</ResponseMessage>
0298	# TIME 6
0299	<RequestMessage>
0300	<RequestHeader>
0301	<ProtocolVersion>
0302	<ProtocolVersionMajor type="Integer" value="1"/>
0303	<ProtocolVersionMinor type="Integer" value="1"/>
0304	</ProtocolVersion>
0305	<BatchCount type="Integer" value="1"/>
0306	</RequestHeader>
0307	<BatchItem>
0308	<Operation type="Enumeration" value="GetAttributes"/>
0309	<RequestPayload>
0310	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0311	<AttributeName type="TextString" value="State"/>
0312	</RequestPayload>
0313	</BatchItem>
0314	</RequestMessage>
0315	<ResponseMessage>
0316	<ResponseHeader>
0317	<ProtocolVersion>
0318	<ProtocolVersionMajor type="Integer" value="1"/>
0319	<ProtocolVersionMinor type="Integer" value="1"/>
0320	</ProtocolVersion>
0321	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0322	<BatchCount type="Integer" value="1"/>
0323	</ResponseHeader>
0324	<BatchItem>
0325	<Operation type="Enumeration" value="GetAttributes"/>
0326	<ResultStatus type="Enumeration" value="Success"/>
0327	<ResponsePayload>
0328	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
	<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>
0404	# TIME 9 <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" value="\$UNIQUE_IDENTIFIER_1"/>
0433	</ResponsePayload>
0434	</BatchItem>
0435	</ResponseMessage>

126

127 3.3 Mandatory Test Cases KMIP 1.2

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

130 3.3.1 AKLC-M-1-12

131 CreateKeyPair, GetAttributes, GetAttributes, Destroy

```

0001 # TIME 0
0002 <RequestMessage>
0003   <RequestHeader>
0004     <ProtocolVersion>
0005       <ProtocolVersionMajor type="Integer" value="1"/>
0006       <ProtocolVersionMinor type="Integer" value="2"/>
0007     </ProtocolVersion>
0008     <BatchCount type="Integer" value="1"/>
0009   </RequestHeader>
0010   <BatchItem>
0011     <Operation type="Enumeration" value="CreateKeyPair"/>
0012     <RequestPayload>
0013       <CommonTemplateAttribute>
0014         <Attribute>
0015           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0016           <AttributeValue type="Enumeration" value="RSA"/>
0017         </Attribute>
0018         <Attribute>
0019           <AttributeName type="TextString" value="Cryptographic
Length"/>
0020           <AttributeValue type="Integer" value="2048"/>
0021         </Attribute>
0022       </CommonTemplateAttribute>
0023       <PrivateKeyTemplateAttribute>
0024         <Attribute>
0025           <AttributeName type="TextString" value="Name"/>
0026           <AttributeValue>
0027             <NameValue type="TextString" value="AKLC-M-1-12-
private"/>
0028             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0029           </AttributeValue>
0030         </Attribute>
0031         <Attribute>
0032           <AttributeName type="TextString" value="Cryptographic
Usage Mask"/>
0033           <AttributeValue type="Integer" value="Sign"/>
0034         </Attribute>
0035       </PrivateKeyTemplateAttribute>
0036       <PublicKeyTemplateAttribute>
0037         <Attribute>
0038           <AttributeName type="TextString" value="Name"/>
0039           <AttributeValue>
0040             <NameValue type="TextString" value="AKLC-M-1-12-
public"/>
0041             <NameType type="Enumeration"

```

0041	value="UninterpretedTextString"/>
0042	</AttributeValue>
0043	</Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="2"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1 <RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="2"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>

0090	<AttributeName type="TextString" value="Activation Date"/>
0091	<AttributeName type="TextString" value="Original Creation Date"/>
0092	</RequestPayload>
0093	</BatchItem>
0094	</RequestMessage>
0095	<ResponseMessage>
0096	<ResponseHeader>
0097	<ProtocolVersion>
0098	<ProtocolVersionMajor type="Integer" value="1"/>
0099	<ProtocolVersionMinor type="Integer" value="2"/>
0100	</ProtocolVersion>
0101	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0102	<BatchCount type="Integer" value="1"/>
0103	</ResponseHeader>
0104	<BatchItem>
0105	<Operation type="Enumeration" value="GetAttributes"/>
0106	<ResultStatus type="Enumeration" value="Success"/>
0107	<ResponsePayload>
0108	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0109	<Attribute>
0110	<AttributeName type="TextString" value="State"/>
0111	<AttributeValue type="Enumeration" value="PreActive"/>
0112	</Attribute>
0113	<Attribute>
0114	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0115	<AttributeValue type="Integer" value="Sign"/>
0116	</Attribute>
0117	<Attribute>
0118	<AttributeName type="TextString" value="Unique Identifier"/>
0119	<AttributeValue type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0120	</Attribute>
0121	<Attribute>
0122	<AttributeName type="TextString" value="Object Type"/>
0123	<AttributeValue type="Enumeration" value="PrivateKey"/>
0124	</Attribute>
0125	<Attribute>
0126	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0127	<AttributeValue type="Enumeration" value="RSA"/>
0128	</Attribute>
0129	<Attribute>
0130	<AttributeName type="TextString" value="Cryptographic Length"/>
0131	<AttributeValue type="Integer" value="2048"/>
0132	</Attribute>
0133	<Attribute>
0134	<AttributeName type="TextString" value="Digest"/>
0135	<AttributeValue>
0136	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0137	<DigestValue type="ByteString" value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9230"/>
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="GetAttributes"/>
0166	<RequestPayload>
0167	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0168	<AttributeName type="TextString" value="State"/>
0169	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0170	<AttributeName type="TextString" value="Unique Identifier"/>
0171	<AttributeName type="TextString" value="Object Type"/>
0172	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0173	<AttributeName type="TextString" value="Cryptographic Length"/>
0174	<AttributeName type="TextString" value="Digest"/>
0175	<AttributeName type="TextString" value="Initial Date"/>
0176	<AttributeName type="TextString" value="Last Change Date"/>
0177	<AttributeName type="TextString" value="Activation Date"/>
0178	<AttributeName type="TextString" value="Original Creation Date"/>
0179	</RequestPayload>
0180	</BatchItem>
0181	</RequestMessage>
0182	<ResponseMessage>
0183	<ResponseHeader>
0184	<ProtocolVersion>
0185	<ProtocolVersionMajor type="Integer" value="1"/>
0186	<ProtocolVersionMinor type="Integer" value="2"/>
0187	</ProtocolVersion>

```

0188     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0189     <BatchCount type="Integer" value="1"/>
0190   </ResponseHeader>
0191   <BatchItem>
0192     <Operation type="Enumeration" value="GetAttributes"/>
0193     <ResultStatus type="Enumeration" value="Success"/>
0194     <ResponsePayload>
0195       <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0196       <Attribute>
0197         <AttributeName type="TextString" value="State"/>
0198         <AttributeValue type="Enumeration" value="PreActive"/>
0199       </Attribute>
0200       <Attribute>
0201         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0202         <AttributeValue type="Integer" value="Verify"/>
0203       </Attribute>
0204       <Attribute>
0205         <AttributeName type="TextString" value="Unique Identifier"/>
0206         <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0207       </Attribute>
0208       <Attribute>
0209         <AttributeName type="TextString" value="Object Type"/>
0210         <AttributeValue type="Enumeration" value="PublicKey"/>
0211       </Attribute>
0212       <Attribute>
0213         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0214         <AttributeValue type="Enumeration" value="RSA"/>
0215       </Attribute>
0216       <Attribute>
0217         <AttributeName type="TextString" value="Cryptographic
Length"/>
0218         <AttributeValue type="Integer" value="2048"/>
0219       </Attribute>
0220       <Attribute>
0221         <AttributeName type="TextString" value="Digest"/>
0222         <AttributeValue>
0223           <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0224           <DigestValue type="ByteString"
value="82bcff8afab753809db804e654013ded708c3996a50c6ce9313f9b3915442
ce9"/>
0225         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0226       </AttributeValue>
0227     </Attribute>
0228     <Attribute>
0229       <AttributeName type="TextString" value="Initial Date"/>
0230       <AttributeValue type="DateTime" value="2013-01-
11T08:19:49+00:00"/>
0231     </Attribute>
0232     <Attribute>
0233       <AttributeName type="TextString" value="Last Change Date"/>
0234       <AttributeValue type="DateTime" value="2013-01-
11T08:19:49+00:00"/>
0235     </Attribute>
0236   </Attribute>

```

0237	<AttributeName type="TextString" value="Original Creation Date"/>
0238	<AttributeValue type="DateTime" value="2013-01-11T08:19:49+00:00"/>
0239	</Attribute>
0240	</ResponsePayload>
0241	</BatchItem>
0242	</ResponseMessage>
# TIME 3	
0243	<RequestMessage>
0244	<RequestHeader>
0245	<ProtocolVersion>
0246	<ProtocolVersionMajor type="Integer" value="1"/>
0247	<ProtocolVersionMinor type="Integer" value="2"/>
0248	</ProtocolVersion>
0249	<BatchCount type="Integer" value="1"/>
0250	</RequestHeader>
0251	<BatchItem>
0252	<Operation type="Enumeration" value="Destroy"/>
0253	<RequestPayload>
0254	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0255	</RequestPayload>
0256	</BatchItem>
0257	</RequestMessage>
0258	<ResponseMessage>
0259	<ResponseHeader>
0260	<ProtocolVersion>
0261	<ProtocolVersionMajor type="Integer" value="1"/>
0262	<ProtocolVersionMinor type="Integer" value="2"/>
0263	</ProtocolVersion>
0264	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0265	<BatchCount type="Integer" value="1"/>
0266	</ResponseHeader>
0267	<BatchItem>
0268	<Operation type="Enumeration" value="Destroy"/>
0269	<ResultStatus type="Enumeration" value="Success"/>
0270	<ResponsePayload>
0271	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0272	</ResponsePayload>
0273	</BatchItem>
0274	</ResponseMessage>
# TIME 4	
0275	<RequestMessage>
0276	<RequestHeader>
0277	<ProtocolVersion>
0278	<ProtocolVersionMajor type="Integer" value="1"/>
0279	<ProtocolVersionMinor type="Integer" value="2"/>
0280	</ProtocolVersion>
0281	<BatchCount type="Integer" value="1"/>
0282	</RequestHeader>
0283	<BatchItem>
0284	<Operation type="Enumeration" value="Destroy"/>
0285	<RequestPayload>
0286	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0287	</RequestPayload>

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

132

133 3.3.2 AKLC-M-2-12

134 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

	<i># TIME 0</i>
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-2-12-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-2-12-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="2"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1 <RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="2"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>

0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Original Creation
	Date"/>
0091	</RequestPayload>
0092	</BatchItem>
0093	</RequestMessage>
0094	<ResponseMessage>
0095	<ResponseHeader>
0096	<ProtocolVersion>
0097	<ProtocolVersionMajor type="Integer" value="1"/>
0098	<ProtocolVersionMinor type="Integer" value="2"/>
0099	</ProtocolVersion>
0100	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101	<BatchCount type="Integer" value="1"/>
0102	</ResponseHeader>
0103	<BatchItem>
0104	<Operation type="Enumeration" value="GetAttributes"/>
0105	<ResultStatus type="Enumeration" value="Success"/>
0106	<ResponsePayload>
0107	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0108	<Attribute>
0109	<AttributeName type="TextString" value="State"/>
0110	<AttributeValue type="Enumeration" value="PreActive"/>
0111	</Attribute>
0112	<Attribute>
0113	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0114	<AttributeValue type="Integer" value="Sign"/>
0115	</Attribute>
0116	<Attribute>
0117	<AttributeName type="TextString" value="Unique Identifier"/>
0118	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0119	</Attribute>
0120	<Attribute>
0121	<AttributeName type="TextString" value="Object Type"/>
0122	<AttributeValue type="Enumeration" value="PrivateKey"/>
0123	</Attribute>
0124	<Attribute>
0125	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0126	<AttributeValue type="Enumeration" value="RSA"/>
0127	</Attribute>

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

0177	<BatchCount type="Integer" value="1"/>
0178	</ResponseHeader>
0179	<BatchItem>
0180	<Operation type="Enumeration" value="Activate"/>
0181	<ResultStatus type="Enumeration" value="Success"/>
0182	<ResponsePayload>
0183	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0184	</ResponsePayload>
0185	</BatchItem>
0186	</ResponseMessage>
0187	# TIME 3 <RequestMessage>
0188	<RequestHeader>
0189	<ProtocolVersion>
0190	<ProtocolVersionMajor type="Integer" value="1"/>
0191	<ProtocolVersionMinor type="Integer" value="2"/>
0192	</ProtocolVersion>
0193	<BatchCount type="Integer" value="1"/>
0194	</RequestHeader>
0195	<BatchItem>
0196	<Operation type="Enumeration" value="GetAttributes"/>
0197	<RequestPayload>
0198	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0199	<AttributeName type="TextString" value="State"/>
0200	<AttributeName type="TextString" value="Activation Date"/>
0201	<AttributeName type="TextString" value="Deactivation Date"/>
0202	</RequestPayload>
0203	</BatchItem>
0204	</RequestMessage>
0205	<ResponseMessage>
0206	<ResponseHeader>
0207	<ProtocolVersion>
0208	<ProtocolVersionMajor type="Integer" value="1"/>
0209	<ProtocolVersionMinor type="Integer" value="2"/>
0210	</ProtocolVersion>
0211	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0212	<BatchCount type="Integer" value="1"/>
0213	</ResponseHeader>
0214	<BatchItem>
0215	<Operation type="Enumeration" value="GetAttributes"/>
0216	<ResultStatus type="Enumeration" value="Success"/>
0217	<ResponsePayload>
0218	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0219	<Attribute>
0220	<AttributeName type="TextString" value="State"/>
0221	<AttributeValue type="Enumeration" value="Active"/>
0222	</Attribute>
0223	<Attribute>
0224	<AttributeName type="TextString" value="Activation Date"/>
0225	<AttributeValue type="DateTime" value="2013-01-
	10T23:36:01+00:00"/>
0226	</Attribute>
0227	</ResponsePayload>
0228	</BatchItem>
0229	</ResponseMessage>

0230	# 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="GetAttributes"/>
0240	<RequestPayload>
0241	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0242	<AttributeName type="TextString" value="State"/>
0243	<AttributeName type="TextString" value="Activation Date"/>
0244	<AttributeName type="TextString" value="Deactivation Date"/>
0245	</RequestPayload>
0246	</BatchItem>
0247	</RequestMessage>
0248	<ResponseMessage>
0249	<ResponseHeader>
0250	<ProtocolVersion>
0251	<ProtocolVersionMajor type="Integer" value="1"/>
0252	<ProtocolVersionMinor type="Integer" value="2"/>
0253	</ProtocolVersion>
0254	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0255	<BatchCount type="Integer" value="1"/>
0256	</ResponseHeader>
0257	<BatchItem>
0258	<Operation type="Enumeration" value="GetAttributes"/>
0259	<ResultStatus type="Enumeration" value="Success"/>
0260	<ResponsePayload>
0261	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0262	<Attribute>
0263	<AttributeName type="TextString" value="State"/>
0264	<AttributeValue type="Enumeration" value="PreActive"/>
0265	</Attribute>
0266	</ResponsePayload>
0267	</BatchItem>
0268	</ResponseMessage>
0269	# TIME 5
0269	<RequestMessage>
0270	<RequestHeader>
0271	<ProtocolVersion>
0272	<ProtocolVersionMajor type="Integer" value="1"/>
0273	<ProtocolVersionMinor type="Integer" value="2"/>
0274	</ProtocolVersion>
0275	<BatchCount type="Integer" value="1"/>
0276	</RequestHeader>
0277	<BatchItem>
0278	<Operation type="Enumeration" value="Destroy"/>
0279	<RequestPayload>
0280	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0281	</RequestPayload>
0282	</BatchItem>

0283	</RequestMessage>
0284	<ResponseMessage>
0285	<ResponseHeader>
0286	<ProtocolVersion>
0287	<ProtocolVersionMajor type="Integer" value="1"/>
0288	<ProtocolVersionMinor type="Integer" value="2"/>
0289	</ProtocolVersion>
0290	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0291	<BatchCount type="Integer" value="1"/>
0292	</ResponseHeader>
0293	<BatchItem>
0294	<Operation type="Enumeration" value="Destroy"/>
0295	<ResultStatus type="Enumeration" value="OperationFailed"/>
0296	<ResultReason type="Enumeration" value="PermissionDenied"/>
0297	<ResultMessage type="TextString" value="DENIED"/>
0298	</BatchItem>
0299	</ResponseMessage>
	# TIME 6
0300	<RequestMessage>
0301	<RequestHeader>
0302	<ProtocolVersion>
0303	<ProtocolVersionMajor type="Integer" value="1"/>
0304	<ProtocolVersionMinor type="Integer" value="2"/>
0305	</ProtocolVersion>
0306	<BatchCount type="Integer" value="1"/>
0307	</RequestHeader>
0308	<BatchItem>
0309	<Operation type="Enumeration" value="Destroy"/>
0310	<RequestPayload>
0311	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0312	</RequestPayload>
0313	</BatchItem>
0314	</RequestMessage>
0315	<ResponseMessage>
0316	<ResponseHeader>
0317	<ProtocolVersion>
0318	<ProtocolVersionMajor type="Integer" value="1"/>
0319	<ProtocolVersionMinor type="Integer" value="2"/>
0320	</ProtocolVersion>
0321	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0322	<BatchCount type="Integer" value="1"/>
0323	</ResponseHeader>
0324	<BatchItem>
0325	<Operation type="Enumeration" value="Destroy"/>
0326	<ResultStatus type="Enumeration" value="Success"/>
0327	<ResponsePayload>
0328	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0329	</ResponsePayload>
0330	</BatchItem>
0331	</ResponseMessage>
	# TIME 7
0332	<RequestMessage>
0333	<RequestHeader>
0334	<ProtocolVersion>
0335	<ProtocolVersionMajor type="Integer" value="1"/>
0336	<ProtocolVersionMinor type="Integer" value="2"/>

0337	</ProtocolVersion>
0338	<BatchCount type="Integer" value="1"/>
0339	</RequestHeader>
0340	<BatchItem>
0341	<Operation type="Enumeration" value="Revoke"/>
0342	<RequestPayload>
0343	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0344	<RevocationReason>
0345	<RevocationReasonCode type="Enumeration" value="KeyCompromise"/>
0346	</RevocationReason>
0347	<CompromiseOccurrenceDate type="DateTime" value="1970-01- 01T00:00:00+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>
0368	# TIME 8 <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>

135

136 3.3.3 AKLC-M-3-12

137 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```

# TIME 0
0001 <RequestMessage>
0002   <RequestHeader>
0003     <ProtocolVersion>
0004       <ProtocolVersionMajor type="Integer" value="1"/>
0005       <ProtocolVersionMinor type="Integer" value="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             <NameValuePair 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             <NameValuePair 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>
	# TIME 1
0069	<RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="2"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Original Creation
	Date"/>
0091	</RequestPayload>
0092	</BatchItem>
0093	</RequestMessage>
0094	<ResponseMessage>
0095	<ResponseHeader>
0096	<ProtocolVersion>
0097	<ProtocolVersionMajor type="Integer" value="1"/>
0098	<ProtocolVersionMinor type="Integer" value="2"/>
0099	</ProtocolVersion>

```

0100     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101     <BatchCount type="Integer" value="1"/>
0102   </ResponseHeader>
0103   <BatchItem>
0104     <Operation type="Enumeration" value="GetAttributes"/>
0105     <ResultStatus type="Enumeration" value="Success"/>
0106     <ResponsePayload>
0107       <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0108       <Attribute>
0109         <AttributeName type="TextString" value="State"/>
0110         <AttributeValue type="Enumeration" value="PreActive"/>
0111       </Attribute>
0112       <Attribute>
0113         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0114         <AttributeValue type="Integer" value="Sign"/>
0115       </Attribute>
0116       <Attribute>
0117         <AttributeName type="TextString" value="Unique Identifier"/>
0118         <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0119       </Attribute>
0120       <Attribute>
0121         <AttributeName type="TextString" value="Object Type"/>
0122         <AttributeValue type="Enumeration" value="PrivateKey"/>
0123       </Attribute>
0124       <Attribute>
0125         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0126         <AttributeValue type="Enumeration" value="RSA"/>
0127       </Attribute>
0128       <Attribute>
0129         <AttributeName type="TextString" value="Cryptographic
Length"/>
0130         <AttributeValue type="Integer" value="2048"/>
0131       </Attribute>
0132       <Attribute>
0133         <AttributeName type="TextString" value="Digest"/>
0134         <AttributeValue>
0135           <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0136           <DigestValue type="ByteString"
value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
230"/>
0137         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0138       </AttributeValue>
0139     </Attribute>
0140     <Attribute>
0141       <AttributeName type="TextString" value="Initial Date"/>
0142       <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0143     </Attribute>
0144     <Attribute>
0145       <AttributeName type="TextString" value="Last Change Date"/>
0146       <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0147     </Attribute>
0148   </Attribute>

```

0149	<AttributeName type="TextString" value="Original Creation
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"/>
0198	</ProtocolVersion>
0199	<BatchCount type="Integer" value="1"/>
	</RequestHeader>
	<BatchItem>
	<Operation type="Enumeration" value="GetAttributes"/>
	<RequestPayload>
	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
	<AttributeName type="TextString" value="State"/>

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>
0230	# TIME 4 <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>
	<i># TIME 5</i>
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>
	<i># TIME 6</i>
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>

138

139 3.4 Optional Test Cases KMIP 1.0

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

142 3.4.1 AKLC-O-1-10

143 CreateKeyPair, GetAttributes, Destroy, GetAttributes

	<i># TIME 0</i>
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>
	</ResponseMessage>
0069	# TIME 1
0070	<RequestMessage>
0071	<RequestHeader>
0072	<ProtocolVersion>
0073	<ProtocolVersionMajor type="Integer" value="1"/>
0074	<ProtocolVersionMinor type="Integer" value="0"/>
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	<AttributeName type="TextString" value="Activation Date"/>
0096	</RequestPayload>
0097	</BatchItem>
0098	</RequestMessage>
0099	<ResponseMessage>
0100	<ResponseHeader>
0101	<ProtocolVersion>
0102	<ProtocolVersionMajor type="Integer" value="1"/>
0103	<ProtocolVersionMinor type="Integer" value="0"/>
0104	</ProtocolVersion>
0105	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0106	<BatchCount type="Integer" value="1"/>
0107	</ResponseHeader>
0108	<BatchItem>
0109	<Operation type="Enumeration" value="GetAttributes"/>
0110	<ResultStatus type="Enumeration" value="Success"/>
0111	<ResponsePayload>
0112	<UniqueIdentifier type="TextString"
0113	value="\$UNIQUE_IDENTIFIER_0"/>
0114	<Attribute>
0115	<AttributeName type="TextString" value="State"/>
	<AttributeValue type="Enumeration" value="PreActive"/>
	</Attribute>
	<Attribute>
	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
	<AttributeValue type="Integer" value="Sign"/>
	</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>
	<i># TIME 2</i>
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>

```

144

145 3.5 Optional Test Cases KMIP 1.1

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

148 3.5.1 AKLC-O-1-11

149 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"/>
0027	<NameType type="Enumeration"
0028	value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic
0032	Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-O-1-11-
0040	public"/>
0040	<NameType type="Enumeration"
0041	value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic
0045	Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="1"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2013-01-11T08:32:04+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString"
0065	value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString"
0066	value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1
0069	<RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>

0073	<ProtocolVersionMinor type="Integer" value="1"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Activation Date"/>
0091	</RequestPayload>
0092	</BatchItem>
0093	</RequestMessage>
0094	<ResponseMessage>
0095	<ResponseHeader>
0096	<ProtocolVersion>
0097	<ProtocolVersionMajor type="Integer" value="1"/>
0098	<ProtocolVersionMinor type="Integer" value="1"/>
0099	</ProtocolVersion>
0100	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101	<BatchCount type="Integer" value="1"/>
0102	</ResponseHeader>
0103	<BatchItem>
0104	<Operation type="Enumeration" value="GetAttributes"/>
0105	<ResultStatus type="Enumeration" value="Success"/>
0106	<ResponsePayload>
0107	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0108	<Attribute>
0109	<AttributeName type="TextString" value="State"/>
0110	<AttributeValue type="Enumeration" value="PreActive"/>
0111	</Attribute>
0112	<Attribute>
0113	<AttributeName type="TextString" value="Cryptographic Usage 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>
# TIME 4	
0281	<RequestMessage>
0282	<RequestHeader>
0283	<ProtocolVersion>
0284	<ProtocolVersionMajor type="Integer" value="1"/>
0285	<ProtocolVersionMinor type="Integer" value="1"/>
0286	</ProtocolVersion>
0287	<BatchCount type="Integer" value="1"/>
0288	</RequestHeader>
0289	<BatchItem>
0290	<Operation type="Enumeration" value="GetAttributes"/>
0291	<RequestPayload>
0292	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0293	</RequestPayload>
0294	</BatchItem>
0295	</RequestMessage>
0296	<ResponseMessage>
0297	<ResponseHeader>
0298	<ProtocolVersion>
0299	<ProtocolVersionMajor type="Integer" value="1"/>
0300	<ProtocolVersionMinor type="Integer" value="1"/>
0301	</ProtocolVersion>
0302	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0303	<BatchCount type="Integer" value="1"/>
0304	</ResponseHeader>
0305	<BatchItem>
0306	<Operation type="Enumeration" value="GetAttributes"/>
0307	<ResultStatus type="Enumeration" value="Success"/>
0308	<ResponsePayload>
0309	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0310	<Attribute>
0311	<AttributeName type="TextString" value="Unique Identifier"/>
0312	<AttributeValue type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0313	</Attribute>
0314	<Attribute>
0315	<AttributeName type="TextString" value="Object Type"/>
0316	<AttributeValue type="Enumeration" value="PublicKey"/>
0317	</Attribute>
0318	<Attribute>
0319	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0320	<AttributeValue type="Enumeration" value="RSA"/>
0321	</Attribute>
0322	<Attribute>
0323	<AttributeName type="TextString" value="Cryptographic Length"/>
0324	<AttributeValue type="Integer" value="2048"/>
0325	</Attribute>
0326	</Attribute>

```

0327     <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0328     <AttributeValue type="Integer" value="Verify"/>
0329     </Attribute>
0330     <Attribute>
0331         <AttributeName type="TextString" value="Digest"/>
0332         <AttributeValue>
0333             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0334             <DigestValue type="ByteString"
value="330306b0e337e32ddb5acf92cb96fd39adb802f305e7406062248324816f
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>
	<i># TIME 6</i>
0407	<RequestMessage>
0408	<RequestHeader>
0409	<ProtocolVersion>
0410	<ProtocolVersionMajor type="Integer" value="1"/>
0411	<ProtocolVersionMinor type="Integer" value="1"/>
0412	</ProtocolVersion>
0413	<BatchCount type="Integer" value="1"/>
0414	</RequestHeader>
0415	<BatchItem>
0416	<Operation type="Enumeration" value="GetAttributes"/>
0417	<RequestPayload>
0418	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0419	</RequestPayload>
0420	</BatchItem>
0421	</RequestMessage>
0422	<ResponseMessage>
0423	<ResponseHeader>
0424	<ProtocolVersion>
0425	<ProtocolVersionMajor type="Integer" value="1"/>
0426	<ProtocolVersionMinor type="Integer" value="1"/>
0427	</ProtocolVersion>
0428	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0429	<BatchCount type="Integer" value="1"/>
0430	</ResponseHeader>

```

0431     <BatchItem>
0432         <Operation type="Enumeration" value="GetAttributes"/>
0433         <ResultStatus type="Enumeration" value="Success"/>
0434         <ResponsePayload>
0435             <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0436             <Attribute>
0437                 <AttributeName type="TextString" value="Unique Identifier"/>
0438                 <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0439             </Attribute>
0440             <Attribute>
0441                 <AttributeName type="TextString" value="Object Type"/>
0442                 <AttributeValue type="Enumeration" value="PublicKey"/>
0443             </Attribute>
0444             <Attribute>
0445                 <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0446                 <AttributeValue type="Enumeration" value="RSA"/>
0447             </Attribute>
0448             <Attribute>
0449                 <AttributeName type="TextString" value="Cryptographic
Length"/>
0450                 <AttributeValue type="Integer" value="2048"/>
0451             </Attribute>
0452             <Attribute>
0453                 <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0454                 <AttributeValue type="Integer" value="Verify"/>
0455             </Attribute>
0456             <Attribute>
0457                 <AttributeName type="TextString" value="Destroy Date"/>
0458                 <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0459             </Attribute>
0460             <Attribute>
0461                 <AttributeName type="TextString" value="Digest"/>
0462                 <AttributeValue>
0463                     <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0464                     <DigestValue type="ByteString"
value="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>

```

150

151 3.6 Optional Test Cases KMIP 1.2

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

154 3.6.1 AKLC-O-1-12

155 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>
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="Activation Date"/>
0092	<AttributeName type="TextString" value="Original Creation Date"/>
0093	</RequestPayload>
0094	</BatchItem>
0095	</RequestMessage>
0096	<ResponseMessage>
0097	<ResponseHeader>
0098	<ProtocolVersion>
0099	<ProtocolVersionMajor type="Integer" value="1"/>
0100	<ProtocolVersionMinor type="Integer" value="2"/>
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" value="\$UNIQUE_IDENTIFIER_0"/>
0110	<Attribute>
0111	<AttributeName type="TextString" value="State"/>
0112	<AttributeValue type="Enumeration" value="PreActive"/>
0113	</Attribute>
0114	<Attribute>
0115	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0116	<AttributeValue type="Integer" value="Sign"/>
0117	</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>
	<i># TIME 2</i>
0156	<RequestMessage>
0157	<RequestHeader>
0158	<ProtocolVersion>
0159	<ProtocolVersionMajor type="Integer" value="1"/>
0160	<ProtocolVersionMinor type="Integer" value="2"/>
0161	</ProtocolVersion>
0162	<BatchCount type="Integer" value="1"/>
0163	</RequestHeader>
0164	<BatchItem>

0165	<Operation type="Enumeration" value="Destroy"/>
0166	<RequestPayload>
0167	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0168	</RequestPayload>
0169	</BatchItem>
0170	</RequestMessage>
0171	<ResponseMessage>
0172	<ResponseHeader>
0173	<ProtocolVersion>
0174	<ProtocolVersionMajor type="Integer" value="1"/>
0175	<ProtocolVersionMinor type="Integer" value="2"/>
0176	</ProtocolVersion>
0177	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0178	<BatchCount type="Integer" value="1"/>
0179	</ResponseHeader>
0180	<BatchItem>
0181	<Operation type="Enumeration" value="Destroy"/>
0182	<ResultStatus type="Enumeration" value="Success"/>
0183	<ResponsePayload>
0184	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0185	</ResponsePayload>
0186	</BatchItem>
0187	</ResponseMessage>
0188	# TIME 3
0189	<RequestMessage>
0190	<RequestHeader>
0191	<ProtocolVersion>
0192	<ProtocolVersionMajor type="Integer" value="1"/>
0193	<ProtocolVersionMinor type="Integer" value="2"/>
0194	</ProtocolVersion>
0195	<BatchCount type="Integer" value="1"/>
0196	</RequestHeader>
0197	<BatchItem>
0198	<Operation type="Enumeration" value="GetAttributes"/>
0199	<RequestPayload>
0200	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0201	</RequestPayload>
0202	</BatchItem>
0203	</RequestMessage>
0204	<ResponseMessage>
0205	<ResponseHeader>
0206	<ProtocolVersion>
0207	<ProtocolVersionMajor type="Integer" value="1"/>
0208	<ProtocolVersionMinor type="Integer" value="2"/>
0209	</ProtocolVersion>
0210	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0211	<BatchCount type="Integer" value="1"/>
0212	</ResponseHeader>
0213	<BatchItem>
0214	<Operation type="Enumeration" value="GetAttributes"/>
0215	<ResultStatus type="Enumeration" value="Success"/>
0216	<ResponsePayload>
0217	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
	<Attribute>

```

0218     <AttributeName type="TextString" value="Unique Identifier"/>
0219     <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0220     </Attribute>
0221     <Attribute>
0222         <AttributeName type="TextString" value="Object Type"/>
0223         <AttributeValue type="Enumeration" value="PrivateKey"/>
0224     </Attribute>
0225     <Attribute>
0226         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0227         <AttributeValue type="Enumeration" value="RSA"/>
0228     </Attribute>
0229     <Attribute>
0230         <AttributeName type="TextString" value="Cryptographic
Length"/>
0231         <AttributeValue type="Integer" value="2048"/>
0232     </Attribute>
0233     <Attribute>
0234         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0235         <AttributeValue type="Integer" value="Sign"/>
0236     </Attribute>
0237     <Attribute>
0238         <AttributeName type="TextString" value="Destroy Date"/>
0239         <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0240     </Attribute>
0241     <Attribute>
0242         <AttributeName type="TextString" value="Digest"/>
0243         <AttributeValue>
0244             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0245             <DigestValue type="ByteString"
value="4abc48c2ba00a6bba22cb6fc2827b46107354968872b395edb31354e78878
be6"/>
0246         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0247     </AttributeValue>
0248     </Attribute>
0249     <Attribute>
0250         <AttributeName type="TextString" value="Fresh"/>
0251         <AttributeValue type="Boolean" value="true"/>
0252     </Attribute>
0253     <Attribute>
0254         <AttributeName type="TextString" value="Initial Date"/>
0255         <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0256     </Attribute>
0257     <Attribute>
0258         <AttributeName type="TextString" value="Last Change Date"/>
0259         <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0260     </Attribute>
0261     <Attribute>
0262         <AttributeName type="TextString" value="Lease Time"/>
0263         <AttributeValue type="Interval" value="3600"/>
0264     </Attribute>
0265     <Attribute>
0266         <AttributeName type="TextString" value="Link"/>

```

0267	<AttributeValue>
0268	<LinkType type="Enumeration" value="PublicKeyLink"/>
0269	<LinkedObjectIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0270	</AttributeValue>
0271	</Attribute>
0272	<Attribute>
0273	<AttributeName type="TextString" value="Name"/>
0274	<AttributeValue>
0275	<NameValue type="TextString" value="AKLC-O-1-12-private"/>
0276	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0277	</AttributeValue>
0278	</Attribute>
0279	<Attribute>
0280	<AttributeName type="TextString" value="Original Creation
	Date"/>
0281	<AttributeValue type="DateTime" value="2013-01-
	11T08:40:05+00:00"/>
0282	</Attribute>
0283	<Attribute>
0284	<AttributeName type="TextString" value="State"/>
0285	<AttributeValue type="Enumeration" value="Destroyed"/>
0286	</Attribute>
0287	</ResponsePayload>
0288	</BatchItem>
0289	</ResponseMessage>
	# 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"/>
0300	<RequestPayload>
0301	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0302	</RequestPayload>
0303	</BatchItem>
0304	</RequestMessage>
0305	<ResponseMessage>
0306	<ResponseHeader>
0307	<ProtocolVersion>
0308	<ProtocolVersionMajor type="Integer" value="1"/>
0309	<ProtocolVersionMinor type="Integer" value="2"/>
0310	</ProtocolVersion>
0311	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0312	<BatchCount type="Integer" value="1"/>
0313	</ResponseHeader>
0314	<BatchItem>
0315	<Operation type="Enumeration" value="GetAttributes"/>
0316	<ResultStatus type="Enumeration" value="Success"/>
0317	<ResponsePayload>
0318	<UniqueIdentifier type="TextString"

```

0319 value="$UNIQUE_IDENTIFIER_1"/>
0320 <Attribute>
0321 <AttributeName type="TextString" value="Unique Identifier"/>
0322 <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0323 </Attribute>
0324 <Attribute>
0325 <AttributeName type="TextString" value="Object Type"/>
0326 <AttributeValue type="Enumeration" value="PublicKey"/>
0327 </Attribute>
0328 <Attribute>
0329 <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0330 <AttributeValue type="Enumeration" value="RSA"/>
0331 </Attribute>
0332 <Attribute>
0333 <AttributeName type="TextString" value="Cryptographic
Length"/>
0334 <AttributeValue type="Integer" value="2048"/>
0335 </Attribute>
0336 <Attribute>
0337 <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0338 <AttributeValue type="Integer" value="Verify"/>
0339 </Attribute>
0340 <Attribute>
0341 <AttributeName type="TextString" value="Digest"/>
0342 <AttributeValue>
0343 <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0344 <DigestValue type="ByteString"
value="330306b0e337e32dd1b5acf92cb96fd39adb802f305e7406062248324816f
445"/>
0345 <KeyFormatType type="Enumeration" value="PKCS_1"/>
0346 </AttributeValue>
0347 </Attribute>
0348 <Attribute>
0349 <AttributeName type="TextString" value="Fresh"/>
0350 <AttributeValue type="Boolean" value="true"/>
0351 </Attribute>
0352 <Attribute>
0353 <AttributeName type="TextString" value="Initial Date"/>
0354 <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0355 </Attribute>
0356 <Attribute>
0357 <AttributeName type="TextString" value="Last Change Date"/>
0358 <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0359 </Attribute>
0360 <Attribute>
0361 <AttributeName type="TextString" value="Lease Time"/>
0362 <AttributeValue type="Interval" value="3600"/>
0363 </Attribute>
0364 <Attribute>
0365 <AttributeName type="TextString" value="Link"/>
0366 <AttributeValue>
0367 <LinkType type="Enumeration" value="PrivateKeyLink"/>
0368 <LinkedObjectIdentifier type="TextString"

```


0368	value="\$UNIQUE_IDENTIFIER_0"/>
0369	</AttributeValue>
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>
0388	# TIME 5
0389	<RequestMessage>
0390	<RequestHeader>
0391	<ProtocolVersion>
0392	<ProtocolVersionMajor type="Integer" value="1"/>
0393	<ProtocolVersionMinor type="Integer" value="2"/>
0394	</ProtocolVersion>
0395	<BatchCount type="Integer" value="1"/>
0396	</RequestHeader>
0397	<BatchItem>
0398	<Operation type="Enumeration" value="Destroy"/>
0399	<RequestPayload>
0400	<UniqueIdentifier type="TextString"
0401	value="\$UNIQUE_IDENTIFIER_1"/>
0402	</RequestPayload>
0403	</BatchItem>
0404	</RequestMessage>
0405	<ResponseMessage>
0406	<ResponseHeader>
0407	<ProtocolVersion>
0408	<ProtocolVersionMajor type="Integer" value="1"/>
0409	<ProtocolVersionMinor type="Integer" value="2"/>
0410	</ProtocolVersion>
0411	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0412	<BatchCount type="Integer" value="1"/>
0413	</ResponseHeader>
0414	<BatchItem>
0415	<Operation type="Enumeration" value="Destroy"/>
0416	<ResultStatus type="Enumeration" value="Success"/>
0417	<ResponsePayload>
0418	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
	</ResponsePayload>
	</BatchItem>

0419	</ResponseMessage>
	# TIME 6
0420	<RequestMessage>
0421	<RequestHeader>
0422	<ProtocolVersion>
0423	<ProtocolVersionMajor type="Integer" value="1"/>
0424	<ProtocolVersionMinor type="Integer" value="2"/>
0425	</ProtocolVersion>
0426	<BatchCount type="Integer" value="1"/>
0427	</RequestHeader>
0428	<BatchItem>
0429	<Operation type="Enumeration" value="GetAttributes"/>
0430	<RequestPayload>
0431	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0432	</RequestPayload>
0433	</BatchItem>
0434	</RequestMessage>
0435	<ResponseMessage>
0436	<ResponseHeader>
0437	<ProtocolVersion>
0438	<ProtocolVersionMajor type="Integer" value="1"/>
0439	<ProtocolVersionMinor type="Integer" value="2"/>
0440	</ProtocolVersion>
0441	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0442	<BatchCount type="Integer" value="1"/>
0443	</ResponseHeader>
0444	<BatchItem>
0445	<Operation type="Enumeration" value="GetAttributes"/>
0446	<ResultStatus type="Enumeration" value="Success"/>
0447	<ResponsePayload>
0448	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0449	<Attribute>
0450	<AttributeName type="TextString" value="Unique Identifier"/>
0451	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0452	</Attribute>
0453	<Attribute>
0454	<AttributeName type="TextString" value="Object Type"/>
0455	<AttributeValue type="Enumeration" value="PublicKey"/>
0456	</Attribute>
0457	<Attribute>
0458	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0459	<AttributeValue type="Enumeration" value="RSA"/>
0460	</Attribute>
0461	<Attribute>
0462	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0463	<AttributeValue type="Integer" value="2048"/>
0464	</Attribute>
0465	<Attribute>
0466	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0467	<AttributeValue type="Integer" value="Verify"/>
0468	</Attribute>
0469	</BatchItem>

```

0470     <AttributeName type="TextString" value="Destroy Date"/>
0471     <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0472     </Attribute>
0473     <Attribute>
0474         <AttributeName type="TextString" value="Digest"/>
0475         <AttributeValue>
0476             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0477             <DigestValue type="ByteString"
value="b06f3e3d107a282adb5fe316356d13679d7cf7429d14a6f20665f45ba4d28
83c"/>
0478             <KeyFormatType type="Enumeration" value="PKCS 1"/>
0479             </AttributeValue>
0480         </Attribute>
0481     <Attribute>
0482         <AttributeName type="TextString" value="Fresh"/>
0483         <AttributeValue type="Boolean" value="true"/>
0484     </Attribute>
0485     <Attribute>
0486         <AttributeName type="TextString" value="Initial Date"/>
0487         <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0488     </Attribute>
0489     <Attribute>
0490         <AttributeName type="TextString" value="Last Change Date"/>
0491         <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0492     </Attribute>
0493     <Attribute>
0494         <AttributeName type="TextString" value="Lease Time"/>
0495         <AttributeValue type="Interval" value="3600"/>
0496     </Attribute>
0497     <Attribute>
0498         <AttributeName type="TextString" value="Link"/>
0499         <AttributeValue>
0500             <LinkType type="Enumeration" value="PrivateKeyLink"/>
0501             <LinkedObjectIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0502             </AttributeValue>
0503         </Attribute>
0504     <Attribute>
0505         <AttributeName type="TextString" value="Name"/>
0506         <AttributeValue>
0507             <NameValue type="TextString" value="AKLC-O-1-12-public"/>
0508             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0509             </AttributeValue>
0510         </Attribute>
0511     <Attribute>
0512         <AttributeName type="TextString" value="Original Creation
Date"/>
0513         <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0514     </Attribute>
0515     <Attribute>
0516         <AttributeName type="TextString" value="State"/>
0517         <AttributeValue type="Enumeration" value="Destroyed"/>
0518     </Attribute>

```

0519	</ResponsePayload>
0520	</BatchItem>
0521	</ResponseMessage>

156

157

158

159 4 Conformance

160 4.1 Conformance Statement

161 KMIP client and server implementations conformant to this profile:

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

166 4.2 Permitted Test Case Variations

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

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

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

172 4.2.1 Variable Items

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

- 174 1. UniqueIdentifier
- 175 2. PrivateKeyUniqueIdentifier
- 176 3. PublicKeyUniqueIdentifier
- 177 4. UniqueBatchItemIdentifier
- 178 5. AsynchronousCorrelationValue
- 179 6. TimeStamp
- 180 7. KeyValue / KeyMaterial including:
 - 181 a. key material content returned for managed cryptographic objects which are generated by
 - 182 the server
 - 183 b. wrapped versions of keys where the wrapping key is dynamic or the wrapping contains
 - 184 variable output for each wrap operation
- 185 8. For response containing the output of cryptographic operation in Data / SignatureData/ MACData
186 / IVCounterNonce where:
 - 187 a. the managed object is generated by the server; or
 - 188 b. the operation inherently contains variable output
- 189 9. For the following DateTime attributes where the value is not specified in the request as a fixed
190 DateTime value:
 - 191 a. ActivationDate
 - 192 b. ArchiveDate
 - 193 c. CompromiseDate
 - 194 d. CompromiseOccurrenceDate
 - 195 e. DeactivationDate
 - 196 f. DestroyDate
 - 197 g. InitialDate

- 198 h. LastChangeDate
- 199 i. ProtectStartDate
- 200 j. ProcessStopDate
- 201 k. ValidityDate
- 202 l. OriginalCreationDate
- 203 10. LinkedObjectIdentifier
- 204 11. DigestValue
 - 205 a. For those managed cryptographic objects which are dynamically generated
- 206 12. KeyFormatType
 - 207 a. The key format type selected by the server when it creates managed objects
- 208 13. Digest
 - 209 a. The HashingAlgorithm selected by the server when it calculates the digest for a managed
 - 210 object for which it has access to the key material
 - 211 b. The Digest Value
- 212 14. Extensions reported in Query for ExtensionList and ExtensionMap
- 213 15. Application Namespaces reported in Query
- 214 16. Object Types reported in Query other than those noted as required in this profile
- 215 17. Operation Types reported in Query other than those noted as required in this profile (or any
- 216 referenced profile documents)
- 217 18. For TextString attribute values containing test identifiers:
 - 218 a. Additional vendor or application prefixes
- 219 19. Additional attributes beyond those noted in the response

220

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

- 222 1. Object Group values – May or may not return one or more Object Group values not included in
- 223 the requests
- 224 2. y-CustomAttributes – May or may not include additional server-specific associated attributes not
- 225 included in requests
- 226 3. Message Extensions – May or may not include additional (non-critical) vendor extensions
- 227 4. TemplateAttribute – May or may not be included in responses where the Template Attribute
- 228 response is noted as optional in [KMIP-SPEC]
- 229 5. AttributeIndex – May or may not include Attribute Index value where the Attribute Index value is 0
- 230 for Protocol Versions 1.1 and above.
- 231 6. ResultMessage – May or may not be included in responses and the value (if included) may vary
- 232 from the text contained within the test case.
- 233 7. The list of Protocol Versions returned in a DiscoverVersion response may include additional
- 234 protocol versions if the request has not specified a list of client supported Protocol Versions.
- 235 8. VendorIdentification - The value (if included) may vary from the text contained within the test
- 236 case.

237 **4.2.2 Variable behavior**

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

- 239 1. A test may omit the clean-up requests and responses (containing Revoke and/or Destroy) at the
- 240 end of the test provided there is a separate mechanism to remove the created objects during
- 241 testing.

- 242 2. A test may omit the test identifiers if the client is unable to include them in requests. This includes
243 the following attributes:
244 a. Name; and
245 b. x-ID
246
247

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357 Peter Zelechowski, Election Systems & Software

Appendix B. KMIP Specification Cross Reference

Reference Term	KMIP 1.0	KMIP 1.1	KMIP 1.2
1 Introduction			
<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.
2 Objects			
<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.
3 Attributes			
<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.

Reference Term	KMIP 1.0	KMIP 1.1	KMIP 1.2
<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.
4 Client-to-Server Operations			
<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.

Reference Term	KMIP 1.0	KMIP 1.1	KMIP 1.2
<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.
5 Server-to-Client Operations			
<i>Notify</i>	5.1.	5.1.	5.1.
<i>Put</i>	5.2.	5.2.	5.2.
6 Message Contents			
<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.
7 Message Format			

Reference Term	KMIP 1.0	KMIP 1.1	KMIP 1.2
<i>Message Structure</i>	7.1.	7.1.	7.1.
<i>Operations</i>	7.2.	7.2.	7.2.
8 Authentication			
<i>Authentication</i>	8	8	8
9 Message Encoding			
<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.
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<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.

Reference Term	KMIP 1.0	KMIP 1.1	KMIP 1.2
<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.	-	-
10 Transport			
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12 KMIP Server and Client Implementation Conformance			
<i>Conformance clauses for a KMIP Server</i>	12.1.	-	-
<i>KMIP Client Implementation Conformance</i>	-	12.2.	12.2.
<i>KMIP Server Implementation Conformance</i>	-	12.1.	12.1.

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Appendix C. Revision History

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

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