



KMIP Asymmetric Key Lifecycle Profile Version 1.0

Committee Specification 01

11 November 2014

Specification URIs

This version:

<http://docs.oasis-open.org/kmip/kmip-asym-key-profile/v1.0/cs01/kmip-asym-key-profile-v1.0-cs01.doc> (Authoritative)
<http://docs.oasis-open.org/kmip/kmip-asym-key-profile/v1.0/cs01/kmip-asym-key-profile-v1.0-cs01.html>
<http://docs.oasis-open.org/kmip/kmip-asym-key-profile/v1.0/cs01/kmip-asym-key-profile-v1.0-cs01.pdf>

Previous version:

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

Latest version:

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

Technical Committee:

OASIS Key Management Interoperability Protocol (KMIP) TC

Chairs:

Saikat Saha (saikat.saha@oracle.com), Oracle
Tony Cox (tjc@cryptsoft.com), Cryptsoft Pty Ltd.

Editors:

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

Related work:

This specification is related to:

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

- *Key Management Interoperability Protocol Specification Version 1.2*. Edited by Kiran Thota and Kelley Burgin. Latest version: <http://docs.oasis-open.org/kmip/spec/v1.2/kmip-spec-v1.2.html>.

Abstract:

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

Status:

This document was last revised or approved by the OASIS Key Management Interoperability Protocol (KMIP) TC on the above date. The level of approval is also listed above. Check the "Latest version" location noted above for possible later revisions of this document. Any other numbered Versions and other technical work produced by the Technical Committee (TC) are listed at https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=kmip#technical.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at <https://www.oasis-open.org/committees/kmip/>.

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

Citation format:

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

[kmip-asym-key-v1.0]

KMIP Asymmetric Key Lifecycle Profile Version 1.0. Edited by Tim Hudson and Robert Lockhart. 11 November 2014. OASIS Committee Specification 01. <http://docs.oasis-open.org/kmip/kmip-asym-key-profile/v1.0/cs01/kmip-asym-key-profile-v1.0-cs01.html>. Latest version: <http://docs.oasis-open.org/kmip/kmip-asym-key-profile/v1.0/kmip-asym-key-profile-v1.0.html>.

Notices

Copyright © OASIS Open 2014. All Rights Reserved.

All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual Property Rights Policy (the "OASIS IPR Policy"). The full [Policy](#) may be found at the OASIS website.

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any document or deliverable produced by an OASIS Technical Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

OASIS requests that any OASIS Party or any other party that believes it has patent claims that would necessarily be infringed by implementations of this OASIS Committee Specification or OASIS Standard, to notify OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this specification.

OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this specification by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this specification. OASIS may include such claims on its website, but disclaims any obligation to do so.

OASIS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on OASIS' procedures with respect to rights in any document or deliverable produced by an OASIS Technical Committee can be found on the OASIS website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this OASIS Committee Specification or OASIS Standard, can be obtained from the OASIS TC Administrator. OASIS makes no representation that any information or list of intellectual property rights will at any time be complete, or that any claims in such list are, in fact, Essential Claims.

The name "OASIS" is a trademark of [OASIS](#), the owner and developer of this specification, and should be used only to refer to the organization and its official outputs. OASIS welcomes reference to, and implementation and use of, specifications, while reserving the right to enforce its marks against misleading uses. Please see <https://www.oasis-open.org/policies-guidelines/trademark> for above guidance.

Table of Contents

1	Introduction	5
1.1	Terminology	5
1.2	Normative References	5
2	Asymmetric Key Lifecycle Profile	6
2.1	Authentication Suite	6
2.2	Asymmetric Key Lifecycle - Client	6
2.3	Asymmetric Key Lifecycle - Server	6
3	Asymmetric Key Lifecycle Profile - Test Cases	8
3.1	Mandatory Test Cases KMIP v1.0	8
3.1.1	AKLC-M-1-10	8
3.1.2	AKLC-M-2-10	14
3.1.3	AKLC-M-3-10	22
3.2	Mandatory Test Cases KMIP v1.1	31
3.2.1	AKLC-M-1-11	31
3.2.2	AKLC-M-2-11	37
3.2.3	AKLC-M-3-11	45
3.3	Mandatory Test Cases KMIP v1.2	54
3.3.1	AKLC-M-1-12	54
3.3.2	AKLC-M-2-12	60
3.3.3	AKLC-M-3-12	69
3.4	Optional Test Cases KMIP v1.0	77
3.4.1	AKLC-O-1-10	77
3.5	Optional Test Cases KMIP v1.1	87
3.5.1	AKLC-O-1-11	87
3.6	Optional Test Cases KMIP v1.2	97
3.6.1	AKLC-O-1-12	97
4	Conformance	108
4.1	Asymmetric Key Lifecycle Client KMIP v1.0 Profile Conformance	108
4.2	Asymmetric Key Lifecycle Client KMIP v1.1 Profile Conformance	108
4.3	Asymmetric Key Lifecycle Client KMIP v1.2 Profile Conformance	108
4.4	Asymmetric Key Lifecycle Client KMIP v1.0 Profile Conformance	108
4.5	Asymmetric Key Lifecycle Client KMIP v1.1 Profile Conformance	108
4.6	Asymmetric Key Lifecycle Client KMIP v1.2 Profile Conformance	108
4.7	Permitted Test Case Variations	109
4.7.1	Variable Items	109
4.7.2	Variable behavior	110
Appendix A.	Acknowledgments	111
Appendix B.	KMIP Specification Cross Reference	114
Appendix C.	Revision History	119

1 Introduction

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

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

1.1 Terminology

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

1.2 Normative References

- [RFC2119] Bradner, S., “Key words for use in RFCs to Indicate Requirement Levels”, BCP 14, RFC 2119, March 1997. <http://www.ietf.org/rfc/rfc2119.txt>.
- [KMIP-ENCODE] *KMIP Additional Message Encodings Version 1.0*. Edited by Tim Hudson. Latest version: <http://docs.oasis-open.org/kmip/kmip-addtl-msg-enc/v1.0/kmip-addtl-msg-enc-v1.0.doc>.
- [KMIP-SPEC] One or more of [KMIP-SPEC-1_0], [KMIP-SPEC-1_1], [KMIP-SPEC-1_2]
- [KMIP-SPEC-1_0] *Key Management Interoperability Protocol Specification Version 1.0* <http://docs.oasis-open.org/kmip/spec/v1.0/os/kmip-spec-1.0-os.doc>
OASIS Standard, October 2010.
- [KMIP-SPEC-1_1] *Key Management Interoperability Protocol Specification Version 1.1*. <http://docs.oasis-open.org/kmip/spec/v1.1/os/kmip-spec-v1.1-os.doc>
OASIS Standard. 24 January 2013.
- [KMIP-SPEC-1_2] *Key Management Interoperability Protocol Specification Version 1.2*. Edited by Kiran Thota and Kelley Burgin. Latest version: <http://docs.oasis-open.org/kmip/spec/v1.2/kmip-spec-v1.2.doc>.
- [KMIP-PROF] One or more of [KMIP-PROF-1_0], [KMIP-PROF-1_1], [KMIP-PROF-1_2]
- [KMIP-PROF-1_0] *Key Management Interoperability Protocol Profiles Version 1.0*. <http://docs.oasis-open.org/kmip/profiles/v1.0/os/kmip-profiles-1.0-os.doc>
OASIS Standard. 1 October 2010.
- [KMIP-PROF-1_1] *Key Management Interoperability Protocol Profiles Version 1.1*. <http://docs.oasis-open.org/kmip/profiles/v1.1/os/kmip-profiles-v1.1-os.doc>
OASIS Standard 01. 24 January 2013.
- [KMIP-PROF-1_2] *Key Management Interoperability Protocol Profiles Version 1.2*. Edited by Tim Hudson and Robert Lockhart. Latest version: <http://docs.oasis-open.org/kmip/profiles/v1.2/kmip-profiles-v1.2.doc>.

2 Asymmetric Key Lifecycle Profile

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

2.1 Authentication Suite

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

2.2 Asymmetric Key Lifecycle - Client

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

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

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

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

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

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

KMIP clients conformant to this profile:

4. MAY support any clause within [KMIP-SPEC] provided it does not conflict with any other clause within this section 2.2
5. MAY support extensions outside the scope of this standard (e.g., vendor extensions, conformance clauses) that do not contradict any KMIP requirements.

2.3 Asymmetric Key Lifecycle - Server

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

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

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

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

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

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

KMIP servers conformant to this profile:

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

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

3 Asymmetric Key Lifecycle Profile - Test Cases

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

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

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

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

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

3.1 Mandatory Test Cases KMIP v1.0

3.1.1 AKLC-M-1-10

CreateKeyPair, GetAttributes, GetAttributes, Destroy

```
# TIME 0
0001 <RequestMessage>
0002   <RequestHeader>
0003     <ProtocolVersion>
0004       <ProtocolVersionMajor type="Integer" value="1"/>
0005       <ProtocolVersionMinor type="Integer" value="0"/>
0006     </ProtocolVersion>
0007     <BatchCount type="Integer" value="1"/>
0008   </RequestHeader>
0009   <BatchItem>
0010     <Operation type="Enumeration" value="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015           <AttributeValue type="Enumeration" value="RSA"/>
0016         </Attribute>
0017         <Attribute>
0018           <AttributeName type="TextString" value="Cryptographic
Length"/>
0019           <AttributeValue type="Integer" value="2048"/>
0020         </Attribute>
0021       </CommonTemplateAttribute>
0022       <PrivateKeyTemplateAttribute>
0023         <Attribute>
0024           <AttributeName type="TextString" value="Name"/>
0025           <AttributeValue>
0026             <NameValue type="TextString" value="AKLC-M-1-10-
private"/>
0027           <NameType type="Enumeration"
value="UninterpretedTextString"/>
```


0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-1-10-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="0"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1 <RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="0"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>

0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Activation Date"/>
0091	</RequestPayload>
0092	</BatchItem>
0093	</RequestMessage>
0094	<ResponseMessage>
0095	<ResponseHeader>
0096	<ProtocolVersion>
0097	<ProtocolVersionMajor type="Integer" value="1"/>
0098	<ProtocolVersionMinor type="Integer" value="0"/>
0099	</ProtocolVersion>
0100	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101	<BatchCount type="Integer" value="1"/>
0102	</ResponseHeader>
0103	<BatchItem>
0104	<Operation type="Enumeration" value="GetAttributes"/>
0105	<ResultStatus type="Enumeration" value="Success"/>
0106	<ResponsePayload>
0107	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0108	<Attribute>
0109	<AttributeName type="TextString" value="State"/>
0110	<AttributeValue type="Enumeration" value="PreActive"/>
0111	</Attribute>
0112	<Attribute>
0113	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0114	<AttributeValue type="Integer" value="Sign"/>
0115	</Attribute>
0116	<Attribute>
0117	<AttributeName type="TextString" value="Unique Identifier"/>
0118	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0119	</Attribute>
0120	<Attribute>
0121	<AttributeName type="TextString" value="Object Type"/>
0122	<AttributeValue type="Enumeration" value="PrivateKey"/>
0123	</Attribute>
0124	<Attribute>
0125	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0126	<AttributeValue type="Enumeration" value="RSA"/>
0127	</Attribute>
0128	</Attribute>

0129	<AttributeName type="TextString" value="Cryptographic Length"/>
0130	<AttributeValue type="Integer" value="2048"/>
0131	</Attribute>
0132	<Attribute>
0133	<AttributeName type="TextString" value="Digest"/>
0134	<AttributeValue>
0135	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0136	<DigestValue type="ByteString"
	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9230"/>
0137	</AttributeValue>
0138	</Attribute>
0139	<Attribute>
0140	<AttributeName type="TextString" value="Initial Date"/>
0141	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0142	</Attribute>
0143	<Attribute>
0144	<AttributeName type="TextString" value="Last Change Date"/>
0145	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0146	</Attribute>
0147	</ResponsePayload>
0148	</BatchItem>
0149	</ResponseMessage>
	# TIME 2
0150	<RequestMessage>
0151	<RequestHeader>
0152	<ProtocolVersion>
0153	<ProtocolVersionMajor type="Integer" value="1"/>
0154	<ProtocolVersionMinor type="Integer" value="0"/>
0155	</ProtocolVersion>
0156	<BatchCount type="Integer" value="1"/>
0157	</RequestHeader>
0158	<BatchItem>
0159	<Operation type="Enumeration" value="GetAttributes"/>
0160	<RequestPayload>
0161	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0162	<AttributeName type="TextString" value="State"/>
0163	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0164	<AttributeName type="TextString" value="Unique Identifier"/>
0165	<AttributeName type="TextString" value="Object Type"/>
0166	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0167	<AttributeName type="TextString" value="Cryptographic Length"/>
0168	<AttributeName type="TextString" value="Digest"/>
0169	<AttributeName type="TextString" value="Initial Date"/>
0170	<AttributeName type="TextString" value="Last Change Date"/>
0171	<AttributeName type="TextString" value="Activation Date"/>
0172	</RequestPayload>
0173	</BatchItem>
0174	</RequestMessage>
0175	<ResponseMessage>
0176	<ResponseHeader>

```

0177     <ProtocolVersion>
0178         <ProtocolVersionMajor type="Integer" value="1"/>
0179         <ProtocolVersionMinor type="Integer" value="0"/>
0180     </ProtocolVersion>
0181     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0182     <BatchCount type="Integer" value="1"/>
0183 </ResponseHeader>
0184 <BatchItem>
0185     <Operation type="Enumeration" value="GetAttributes"/>
0186     <ResultStatus type="Enumeration" value="Success"/>
0187     <ResponsePayload>
0188         <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0189         <Attribute>
0190             <AttributeName type="TextString" value="State"/>
0191             <AttributeValue type="Enumeration" value="PreActive"/>
0192         </Attribute>
0193         <Attribute>
0194             <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0195             <AttributeValue type="Integer" value="Verify"/>
0196         </Attribute>
0197         <Attribute>
0198             <AttributeName type="TextString" value="Unique Identifier"/>
0199             <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0200         </Attribute>
0201         <Attribute>
0202             <AttributeName type="TextString" value="Object Type"/>
0203             <AttributeValue type="Enumeration" value="PublicKey"/>
0204         </Attribute>
0205         <Attribute>
0206             <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0207             <AttributeValue type="Enumeration" value="RSA"/>
0208         </Attribute>
0209         <Attribute>
0210             <AttributeName type="TextString" value="Cryptographic
Length"/>
0211             <AttributeValue type="Integer" value="2048"/>
0212         </Attribute>
0213         <Attribute>
0214             <AttributeName type="TextString" value="Digest"/>
0215             <AttributeValue>
0216                 <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0217                 <DigestValue type="ByteString"
value="82bcff8afab753809db804e654013ded708c3996a50c6ce9313f9b3915442
ce9"/>
0218             </AttributeValue>
0219         </Attribute>
0220         <Attribute>
0221             <AttributeName type="TextString" value="Initial Date"/>
0222             <AttributeValue type="DateTime" value="2013-01-
11T08:19:49+00:00"/>
0223         </Attribute>
0224         <Attribute>
0225             <AttributeName type="TextString" value="Last Change Date"/>
0226             <AttributeValue type="DateTime" value="2013-01-

```

0227	11T08:19:49+00:00"/>
0228	</Attribute>
0229	</ResponsePayload>
0230	</BatchItem>
0231	</ResponseMessage>
0231	# TIME 3
0232	<RequestMessage>
0233	<RequestHeader>
0234	<ProtocolVersion>
0235	<ProtocolVersionMajor type="Integer" value="1"/>
0236	<ProtocolVersionMinor type="Integer" value="0"/>
0237	</ProtocolVersion>
0238	<BatchCount type="Integer" value="1"/>
0239	</BatchCount>
0240	<BatchItem>
0241	<Operation type="Enumeration" value="Destroy"/>
0242	<RequestPayload>
0243	<UniqueIdentifier type="TextString"
0244	value="\$UNIQUE_IDENTIFIER_0"/>
0245	</RequestPayload>
0246	</BatchItem>
0247	</RequestMessage>
0248	<ResponseMessage>
0249	<ResponseHeader>
0250	<ProtocolVersion>
0251	<ProtocolVersionMajor type="Integer" value="1"/>
0252	<ProtocolVersionMinor type="Integer" value="0"/>
0253	</ProtocolVersion>
0254	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0255	<BatchCount type="Integer" value="1"/>
0256	</BatchCount>
0257	<BatchItem>
0258	<Operation type="Enumeration" value="Destroy"/>
0259	<ResultStatus type="Enumeration" value="Success"/>
0260	<ResponsePayload>
0261	<UniqueIdentifier type="TextString"
0262	value="\$UNIQUE_IDENTIFIER_0"/>
0263	</ResponsePayload>
0264	</BatchItem>
0265	</ResponseMessage>
0266	# TIME 4
0267	<RequestMessage>
0268	<RequestHeader>
0269	<ProtocolVersion>
0270	<ProtocolVersionMajor type="Integer" value="1"/>
0271	<ProtocolVersionMinor type="Integer" value="0"/>
0272	</ProtocolVersion>
0273	<BatchCount type="Integer" value="1"/>
0274	</BatchCount>
0275	<BatchItem>
0276	<Operation type="Enumeration" value="Destroy"/>
0277	<RequestPayload>
0278	<UniqueIdentifier type="TextString"
0279	value="\$UNIQUE_IDENTIFIER_1"/>
0280	</RequestPayload>
0281	</BatchItem>
0282	</RequestMessage>
0283	<ResponseMessage>

```

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

```

104

105 3.1.2 AKLC-M-2-10

106 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```

# TIME 0
0001 <RequestMessage>
0002   <RequestHeader>
0003     <ProtocolVersion>
0004       <ProtocolVersionMajor type="Integer" value="1"/>
0005       <ProtocolVersionMinor type="Integer" value="0"/>
0006     </ProtocolVersion>
0007     <BatchCount type="Integer" value="1"/>
0008   </RequestHeader>
0009   <BatchItem>
0010     <Operation type="Enumeration" value="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015           <AttributeValue type="Enumeration" value="RSA"/>
0016         </Attribute>
0017         <Attribute>
0018           <AttributeName type="TextString" value="Cryptographic
Length"/>
0019           <AttributeValue type="Integer" value="2048"/>
0020         </Attribute>
0021       </CommonTemplateAttribute>
0022       <PrivateKeyTemplateAttribute>
0023         <Attribute>
0024           <AttributeName type="TextString" value="Name"/>
0025           <AttributeValue>
0026             <NameValue type="TextString" value="AKLC-M-2-10-
private"/>
0027             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0028           </AttributeValue>
0029         </Attribute>
0030       </Attribute>

```

0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-2-10-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="0"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1 <RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="0"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>

0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	</RequestPayload>
0091	</BatchItem>
0092	</RequestMessage>
0093	<ResponseMessage>
0094	<ResponseHeader>
0095	<ProtocolVersion>
0096	<ProtocolVersionMajor type="Integer" value="1"/>
0097	<ProtocolVersionMinor type="Integer" value="0"/>
0098	</ProtocolVersion>
0099	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0100	<BatchCount type="Integer" value="1"/>
0101	</ResponseHeader>
0102	<BatchItem>
0103	<Operation type="Enumeration" value="GetAttributes"/>
0104	<ResultStatus type="Enumeration" value="Success"/>
0105	<ResponsePayload>
0106	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0107	<Attribute>
0108	<AttributeName type="TextString" value="State"/>
0109	<AttributeValue type="Enumeration" value="PreActive"/>
0110	</Attribute>
0111	<Attribute>
0112	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0113	<AttributeValue type="Integer" value="Sign"/>
0114	</Attribute>
0115	<Attribute>
0116	<AttributeName type="TextString" value="Unique Identifier"/>
0117	<AttributeValue type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0118	</Attribute>
0119	<Attribute>
0120	<AttributeName type="TextString" value="Object Type"/>
0121	<AttributeValue type="Enumeration" value="PrivateKey"/>
0122	</Attribute>
0123	<Attribute>
0124	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0125	<AttributeValue type="Enumeration" value="RSA"/>
0126	</Attribute>
0127	<Attribute>
0128	<AttributeName type="TextString" value="Cryptographic Length"/>
0129	<AttributeValue type="Integer" value="2048"/>
0130	</Attribute>

0131	<Attribute>
0132	<AttributeName type="TextString" value="Digest"/>
0133	<AttributeValue>
0134	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0135	<DigestValue type="ByteString"
	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
	230"/>
0136	</AttributeValue>
0137	</Attribute>
0138	<Attribute>
0139	<AttributeName type="TextString" value="Initial Date"/>
0140	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0141	</Attribute>
0142	<Attribute>
0143	<AttributeName type="TextString" value="Last Change Date"/>
0144	<AttributeValue type="DateTime" value="2013-01-
	11T08:18:21+00:00"/>
0145	</Attribute>
0146	</ResponsePayload>
0147	</BatchItem>
0148	</ResponseMessage>
	# TIME 2
0149	<RequestMessage>
0150	<RequestHeader>
0151	<ProtocolVersion>
0152	<ProtocolVersionMajor type="Integer" value="1"/>
0153	<ProtocolVersionMinor type="Integer" value="0"/>
0154	</ProtocolVersion>
0155	<BatchCount type="Integer" value="1"/>
0156	</RequestHeader>
0157	<BatchItem>
0158	<Operation type="Enumeration" value="Activate"/>
0159	<RequestPayload>
0160	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0161	</RequestPayload>
0162	</BatchItem>
0163	</RequestMessage>
0164	<ResponseMessage>
0165	<ResponseHeader>
0166	<ProtocolVersion>
0167	<ProtocolVersionMajor type="Integer" value="1"/>
0168	<ProtocolVersionMinor type="Integer" value="0"/>
0169	</ProtocolVersion>
0170	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0171	<BatchCount type="Integer" value="1"/>
0172	</ResponseHeader>
0173	<BatchItem>
0174	<Operation type="Enumeration" value="Activate"/>
0175	<ResultStatus type="Enumeration" value="Success"/>
0176	<ResponsePayload>
0177	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0178	</ResponsePayload>
0179	</BatchItem>
0180	</ResponseMessage>
	# TIME 3

0181	<RequestMessage>
0182	<RequestHeader>
0183	<ProtocolVersion>
0184	<ProtocolVersionMajor type="Integer" value="1"/>
0185	<ProtocolVersionMinor type="Integer" value="0"/>
0186	</ProtocolVersion>
0187	<BatchCount type="Integer" value="1"/>
0188	</RequestHeader>
0189	<BatchItem>
0190	<Operation type="Enumeration" value="GetAttributes"/>
0191	<RequestPayload>
0192	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0193	<AttributeName type="TextString" value="State"/>
0194	<AttributeName type="TextString" value="Activation Date"/>
0195	<AttributeName type="TextString" value="Deactivation Date"/>
0196	</RequestPayload>
0197	</BatchItem>
0198	</RequestMessage>
0199	<ResponseMessage>
0200	<ResponseHeader>
0201	<ProtocolVersion>
0202	<ProtocolVersionMajor type="Integer" value="1"/>
0203	<ProtocolVersionMinor type="Integer" value="0"/>
0204	</ProtocolVersion>
0205	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0206	<BatchCount type="Integer" value="1"/>
0207	</ResponseHeader>
0208	<BatchItem>
0209	<Operation type="Enumeration" value="GetAttributes"/>
0210	<ResultStatus type="Enumeration" value="Success"/>
0211	<ResponsePayload>
0212	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0213	<Attribute>
0214	<AttributeName type="TextString" value="State"/>
0215	<AttributeValue type="Enumeration" value="Active"/>
0216	</Attribute>
0217	<Attribute>
0218	<AttributeName type="TextString" value="Activation Date"/>
0219	<AttributeValue type="DateTime" value="2013-01-
	10T23:36:01+00:00"/>
0220	</Attribute>
0221	</ResponsePayload>
0222	</BatchItem>
0223	</ResponseMessage>
	# TIME 4
0224	<RequestMessage>
0225	<RequestHeader>
0226	<ProtocolVersion>
0227	<ProtocolVersionMajor type="Integer" value="1"/>
0228	<ProtocolVersionMinor type="Integer" value="0"/>
0229	</ProtocolVersion>
0230	<BatchCount type="Integer" value="1"/>
0231	</RequestHeader>
0232	<BatchItem>
0233	<Operation type="Enumeration" value="GetAttributes"/>
0234	<RequestPayload>

0235	<UniqueIdentifier type="TextString"
0236	value="\$UNIQUE_IDENTIFIER_1"/>
0237	<AttributeName type="TextString" value="State"/>
0238	<AttributeName type="TextString" value="Activation Date"/>
0239	<AttributeName type="TextString" value="Deactivation Date"/>
0240	</RequestPayload>
0241	</BatchItem>
0242	</RequestMessage>
0243	<ResponseMessage>
0244	<ResponseHeader>
0245	<ProtocolVersion>
0246	<ProtocolVersionMajor type="Integer" value="1"/>
0247	<ProtocolVersionMinor type="Integer" value="0"/>
0248	</ProtocolVersion>
0249	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0250	<BatchCount type="Integer" value="1"/>
0251	</ResponseHeader>
0252	<BatchItem>
0253	<Operation type="Enumeration" value="GetAttributes"/>
0254	<ResultStatus type="Enumeration" value="Success"/>
0255	<ResponsePayload>
0256	<UniqueIdentifier type="TextString"
0257	value="\$UNIQUE_IDENTIFIER_1"/>
0258	<Attribute>
0259	<AttributeName type="TextString" value="State"/>
0260	<AttributeValue type="Enumeration" value="PreActive"/>
0261	</Attribute>
0262	</ResponsePayload>
0263	</BatchItem>
0264	</ResponseMessage>
0265	# TIME 5
0266	<RequestMessage>
0267	<RequestHeader>
0268	<ProtocolVersion>
0269	<ProtocolVersionMajor type="Integer" value="1"/>
0270	<ProtocolVersionMinor type="Integer" value="0"/>
0271	</ProtocolVersion>
0272	<BatchCount type="Integer" value="1"/>
0273	</RequestHeader>
0274	<BatchItem>
0275	<Operation type="Enumeration" value="Destroy"/>
0276	<RequestPayload>
0277	<UniqueIdentifier type="TextString"
0278	value="\$UNIQUE_IDENTIFIER_0"/>
0279	</RequestPayload>
0280	</BatchItem>
0281	</RequestMessage>
0282	<ResponseMessage>
0283	<ResponseHeader>
0284	<ProtocolVersion>
0285	<ProtocolVersionMajor type="Integer" value="1"/>
0286	<ProtocolVersionMinor type="Integer" value="0"/>
0287	</ProtocolVersion>
0288	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
	<BatchCount type="Integer" value="1"/>
	</ResponseHeader>
	<BatchItem>
	<Operation type="Enumeration" value="Destroy"/>

0289	<ResultStatus type="Enumeration" value="OperationFailed"/>
0290	<ResultReason type="Enumeration" value="PermissionDenied"/>
0291	<ResultMessage type="TextString" value="DENIED"/>
0292	</BatchItem>
0293	</ResponseMessage>
# TIME 6	
0294	<RequestMessage>
0295	<RequestHeader>
0296	<ProtocolVersion>
0297	<ProtocolVersionMajor type="Integer" value="1"/>
0298	<ProtocolVersionMinor type="Integer" value="0"/>
0299	</ProtocolVersion>
0300	<BatchCount type="Integer" value="1"/>
0301	</RequestHeader>
0302	<BatchItem>
0303	<Operation type="Enumeration" value="Destroy"/>
0304	<RequestPayload>
0305	<UniqueIdentifier type="TextString"
0306	value="\$UNIQUE_IDENTIFIER_1"/>
0307	</RequestPayload>
0308	</BatchItem>
0309	</RequestMessage>
0310	<ResponseMessage>
0311	<ResponseHeader>
0312	<ProtocolVersion>
0313	<ProtocolVersionMajor type="Integer" value="1"/>
0314	<ProtocolVersionMinor type="Integer" value="0"/>
0315	</ProtocolVersion>
0316	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0317	<BatchCount type="Integer" value="1"/>
0318	</ResponseHeader>
0319	<BatchItem>
0320	<Operation type="Enumeration" value="Destroy"/>
0321	<ResultStatus type="Enumeration" value="Success"/>
0322	<ResponsePayload>
0323	<UniqueIdentifier type="TextString"
0324	value="\$UNIQUE_IDENTIFIER_1"/>
0325	</ResponsePayload>
0326	</BatchItem>
0327	</ResponseMessage>
# TIME 7	
0328	<RequestMessage>
0329	<RequestHeader>
0330	<ProtocolVersion>
0331	<ProtocolVersionMajor type="Integer" value="1"/>
0332	<ProtocolVersionMinor type="Integer" value="0"/>
0333	</ProtocolVersion>
0334	<BatchCount type="Integer" value="1"/>
0335	</RequestHeader>
0336	<BatchItem>
0337	<Operation type="Enumeration" value="Revoke"/>
0338	<RequestPayload>
0339	<UniqueIdentifier type="TextString"
0340	value="\$UNIQUE_IDENTIFIER_0"/>
	<RevocationReason>
	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>
	</RevocationReason>

0341	<CompromiseOccurrenceDate type="DateTime" value="1970-01-01T00:00:06+00:00"/>
0342	</RequestPayload>
0343	</BatchItem>
0344	</RequestMessage>
0345	<ResponseMessage>
0346	<ResponseHeader>
0347	<ProtocolVersion>
0348	<ProtocolVersionMajor type="Integer" value="1"/>
0349	<ProtocolVersionMinor type="Integer" value="0"/>
0350	</ProtocolVersion>
0351	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0352	<BatchCount type="Integer" value="1"/>
0353	</ResponseHeader>
0354	<BatchItem>
0355	<Operation type="Enumeration" value="Revoke"/>
0356	<ResultStatus type="Enumeration" value="Success"/>
0357	<ResponsePayload>
0358	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0359	</ResponsePayload>
0360	</BatchItem>
0361	</ResponseMessage>
# TIME 8	
0362	<RequestMessage>
0363	<RequestHeader>
0364	<ProtocolVersion>
0365	<ProtocolVersionMajor type="Integer" value="1"/>
0366	<ProtocolVersionMinor type="Integer" value="0"/>
0367	</ProtocolVersion>
0368	<BatchCount type="Integer" value="1"/>
0369	</RequestHeader>
0370	<BatchItem>
0371	<Operation type="Enumeration" value="GetAttributes"/>
0372	<RequestPayload>
0373	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0374	<AttributeName type="TextString" value="State"/>
0375	</RequestPayload>
0376	</BatchItem>
0377	</RequestMessage>
0378	<ResponseMessage>
0379	<ResponseHeader>
0380	<ProtocolVersion>
0381	<ProtocolVersionMajor type="Integer" value="1"/>
0382	<ProtocolVersionMinor type="Integer" value="0"/>
0383	</ProtocolVersion>
0384	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0385	<BatchCount type="Integer" value="1"/>
0386	</ResponseHeader>
0387	<BatchItem>
0388	<Operation type="Enumeration" value="GetAttributes"/>
0389	<ResultStatus type="Enumeration" value="Success"/>
0390	<ResponsePayload>
0391	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0392	<Attribute>
0393	<AttributeName type="TextString" value="State"/>

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

107

108 3.1.3 AKLC-M-3-10

109 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

# TIME 0	
0001	<RequestMessage>
0002	<RequestHeader>
0003	<ProtocolVersion>
0004	<ProtocolVersionMajor type="Integer" value="1"/>
0005	<ProtocolVersionMinor type="Integer" value="0"/>
0006	</ProtocolVersion>
0007	<BatchCount type="Integer" value="1"/>
0008	</RequestHeader>
0009	<BatchItem>
0010	<Operation type="Enumeration" value="CreateKeyPair"/>
0011	<RequestPayload>

0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-3-10-private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-3-10-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="0"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>

0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
# TIME 1	
0069	<RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="0"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	</RequestPayload>
0091	</BatchItem>
0092	</RequestMessage>
0093	<ResponseMessage>
0094	<ResponseHeader>
0095	<ProtocolVersion>
0096	<ProtocolVersionMajor type="Integer" value="1"/>
0097	<ProtocolVersionMinor type="Integer" value="0"/>
0098	</ProtocolVersion>
0099	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0100	<BatchCount type="Integer" value="1"/>
0101	</ResponseHeader>
0102	<BatchItem>
0103	<Operation type="Enumeration" value="GetAttributes"/>
0104	<ResultStatus type="Enumeration" value="Success"/>
0105	<ResponsePayload>
0106	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0107	<Attribute>
0108	<AttributeName type="TextString" value="State"/>
0109	<AttributeValue type="Enumeration" value="PreActive"/>
0110	</Attribute>
0111	<Attribute>

0112	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0113	<AttributeValue type="Integer" value="Sign"/>
0114	</Attribute>
0115	<Attribute>
0116	<AttributeName type="TextString" value="Unique Identifier"/>
0117	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0118	</Attribute>
0119	<Attribute>
0120	<AttributeName type="TextString" value="Object Type"/>
0121	<AttributeValue type="Enumeration" value="PrivateKey"/>
0122	</Attribute>
0123	<Attribute>
0124	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0125	<AttributeValue type="Enumeration" value="RSA"/>
0126	</Attribute>
0127	<Attribute>
0128	<AttributeName type="TextString" value="Cryptographic Length"/>
0129	<AttributeValue type="Integer" value="2048"/>
0130	</Attribute>
0131	<Attribute>
0132	<AttributeName type="TextString" value="Digest"/>
0133	<AttributeValue>
0134	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0135	<DigestValue type="ByteString"
	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9230"/>
0136	</AttributeValue>
0137	</Attribute>
0138	<Attribute>
0139	<AttributeName type="TextString" value="Initial Date"/>
0140	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0141	</Attribute>
0142	<Attribute>
0143	<AttributeName type="TextString" value="Last Change Date"/>
0144	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0145	</Attribute>
0146	</ResponsePayload>
0147	</BatchItem>
0148	</ResponseMessage>
	# TIME 2
0149	<RequestMessage>
0150	<RequestHeader>
0151	<ProtocolVersion>
0152	<ProtocolVersionMajor type="Integer" value="1"/>
0153	<ProtocolVersionMinor type="Integer" value="0"/>
0154	</ProtocolVersion>
0155	<BatchCount type="Integer" value="1"/>
0156	</RequestHeader>
0157	<BatchItem>
0158	<Operation type="Enumeration" value="Activate"/>
0159	<RequestPayload>
0160	<UniqueIdentifier type="TextString"

0161	value="\$UNIQUE_IDENTIFIER_0"/>
0162	</RequestPayload>
0163	</BatchItem>
0164	</RequestMessage>
0164	<ResponseMessage>
0165	<ResponseHeader>
0166	<ProtocolVersion>
0167	<ProtocolVersionMajor type="Integer" value="1"/>
0168	<ProtocolVersionMinor type="Integer" value="0"/>
0169	</ProtocolVersion>
0170	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0171	<BatchCount type="Integer" value="1"/>
0172	</ResponseHeader>
0173	<BatchItem>
0174	<Operation type="Enumeration" value="Activate"/>
0175	<ResultStatus type="Enumeration" value="Success"/>
0176	<ResponsePayload>
0177	<UniqueIdentifier type="TextString"
0178	value="\$UNIQUE_IDENTIFIER_0"/>
0179	</ResponsePayload>
0180	</BatchItem>
0180	</ResponseMessage>
0181	# TIME 3
0181	<RequestMessage>
0182	<RequestHeader>
0183	<ProtocolVersion>
0184	<ProtocolVersionMajor type="Integer" value="1"/>
0185	<ProtocolVersionMinor type="Integer" value="0"/>
0186	</ProtocolVersion>
0187	<BatchCount type="Integer" value="1"/>
0188	</RequestHeader>
0189	<BatchItem>
0190	<Operation type="Enumeration" value="GetAttributes"/>
0191	<RequestPayload>
0192	<UniqueIdentifier type="TextString"
0193	value="\$UNIQUE_IDENTIFIER_0"/>
0194	<AttributeName type="TextString" value="State"/>
0195	<AttributeName type="TextString" value="Activation Date"/>
0196	<AttributeName type="TextString" value="Deactivation Date"/>
0197	</RequestPayload>
0198	</BatchItem>
0198	</RequestMessage>
0199	<ResponseMessage>
0200	<ResponseHeader>
0201	<ProtocolVersion>
0202	<ProtocolVersionMajor type="Integer" value="1"/>
0203	<ProtocolVersionMinor type="Integer" value="0"/>
0204	</ProtocolVersion>
0205	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0206	<BatchCount type="Integer" value="1"/>
0207	</ResponseHeader>
0208	<BatchItem>
0209	<Operation type="Enumeration" value="GetAttributes"/>
0210	<ResultStatus type="Enumeration" value="Success"/>
0211	<ResponsePayload>
0212	<UniqueIdentifier type="TextString"
0213	value="\$UNIQUE_IDENTIFIER_0"/>
0213	<Attribute>

0214	<AttributeName type="TextString" value="State"/>
0215	<AttributeValue type="Enumeration" value="Active"/>
0216	</Attribute>
0217	<Attribute>
0218	<AttributeName type="TextString" value="Activation Date"/>
0219	<AttributeValue type="DateTime" value="2013-01-10T23:36:01+00:00"/>
0220	</Attribute>
0221	</ResponsePayload>
0222	</BatchItem>
0223	</ResponseMessage>
# TIME 4	
0224	<RequestMessage>
0225	<RequestHeader>
0226	<ProtocolVersion>
0227	<ProtocolVersionMajor type="Integer" value="1"/>
0228	<ProtocolVersionMinor type="Integer" value="0"/>
0229	</ProtocolVersion>
0230	<BatchCount type="Integer" value="1"/>
0231	</RequestHeader>
0232	<BatchItem>
0233	<Operation type="Enumeration" value="ModifyAttribute"/>
0234	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0235	<RequestPayload>
0236	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0237	<Attribute>
0238	<AttributeName type="TextString" value="Activation Date"/>
0239	<AttributeValue type="DateTime" value="\$NOW"/>
0240	</Attribute>
0241	</RequestPayload>
0242	</BatchItem>
0243	</RequestMessage>
0244	<ResponseMessage>
0245	<ResponseHeader>
0246	<ProtocolVersion>
0247	<ProtocolVersionMajor type="Integer" value="1"/>
0248	<ProtocolVersionMinor type="Integer" value="0"/>
0249	</ProtocolVersion>
0250	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0251	<BatchCount type="Integer" value="1"/>
0252	</ResponseHeader>
0253	<BatchItem>
0254	<Operation type="Enumeration" value="ModifyAttribute"/>
0255	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0256	<ResultStatus type="Enumeration" value="OperationFailed"/>
0257	<ResultReason type="Enumeration" value="PermissionDenied"/>
0258	<ResultMessage type="TextString" value="DENIED"/>
0259	</BatchItem>
0260	</ResponseMessage>
# TIME 5	
0261	<RequestMessage>
0262	<RequestHeader>
0263	<ProtocolVersion>
0264	<ProtocolVersionMajor type="Integer" value="1"/>
0265	<ProtocolVersionMinor type="Integer" value="0"/>
0266	</ProtocolVersion>
0267	<BatchCount type="Integer" value="1"/>

0268	</RequestHeader>
0269	<BatchItem>
0270	<Operation type="Enumeration" value="Revoke"/>
0271	<RequestPayload>
0272	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0273	<RevocationReason>
0274	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>
0275	</RevocationReason>
0276	<CompromiseOccurrenceDate type="DateTime" value="1970-01-
	01T00:00:06+00:00"/>
0277	</RequestPayload>
0278	</BatchItem>
0279	</RequestMessage>
0280	<ResponseMessage>
0281	<ResponseHeader>
0282	<ProtocolVersion>
0283	<ProtocolVersionMajor type="Integer" value="1"/>
0284	<ProtocolVersionMinor type="Integer" value="0"/>
0285	</ProtocolVersion>
0286	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0287	<BatchCount type="Integer" value="1"/>
0288	</ResponseHeader>
0289	<BatchItem>
0290	<Operation type="Enumeration" value="Revoke"/>
0291	<ResultStatus type="Enumeration" value="Success"/>
0292	<ResponsePayload>
0293	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0294	</ResponsePayload>
0295	</BatchItem>
0296	</ResponseMessage>
	# TIME 6
0297	<RequestMessage>
0298	<RequestHeader>
0299	<ProtocolVersion>
0300	<ProtocolVersionMajor type="Integer" value="1"/>
0301	<ProtocolVersionMinor type="Integer" value="0"/>
0302	</ProtocolVersion>
0303	<BatchCount type="Integer" value="1"/>
0304	</RequestHeader>
0305	<BatchItem>
0306	<Operation type="Enumeration" value="GetAttributes"/>
0307	<RequestPayload>
0308	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0309	<AttributeName type="TextString" value="State"/>
0310	</RequestPayload>
0311	</BatchItem>
0312	</RequestMessage>
0313	<ResponseMessage>
0314	<ResponseHeader>
0315	<ProtocolVersion>
0316	<ProtocolVersionMajor type="Integer" value="1"/>
0317	<ProtocolVersionMinor type="Integer" value="0"/>
0318	</ProtocolVersion>
0319	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>

0320	<BatchCount type="Integer" value="1"/>
0321	</ResponseHeader>
0322	<BatchItem>
0323	<Operation type="Enumeration" value="GetAttributes"/>
0324	<ResultStatus type="Enumeration" value="Success"/>
0325	<ResponsePayload>
0326	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0327	<Attribute>
0328	<AttributeName type="TextString" value="State"/>
0329	<AttributeValue type="Enumeration" value="Compromised"/>
0330	</Attribute>
0331	</ResponsePayload>
0332	</BatchItem>
0333	</ResponseMessage>
	# TIME 7
0334	<RequestMessage>
0335	<RequestHeader>
0336	<ProtocolVersion>
0337	<ProtocolVersionMajor type="Integer" value="1"/>
0338	<ProtocolVersionMinor type="Integer" value="0"/>
0339	</ProtocolVersion>
0340	<BatchCount type="Integer" value="1"/>
0341	</RequestHeader>
0342	<BatchItem>
0343	<Operation type="Enumeration" value="GetAttributes"/>
0344	<RequestPayload>
0345	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0346	<AttributeName type="TextString" value="State"/>
0347	</RequestPayload>
0348	</BatchItem>
0349	</RequestMessage>
0350	<ResponseMessage>
0351	<ResponseHeader>
0352	<ProtocolVersion>
0353	<ProtocolVersionMajor type="Integer" value="1"/>
0354	<ProtocolVersionMinor type="Integer" value="0"/>
0355	</ProtocolVersion>
0356	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0357	<BatchCount type="Integer" value="1"/>
0358	</ResponseHeader>
0359	<BatchItem>
0360	<Operation type="Enumeration" value="GetAttributes"/>
0361	<ResultStatus type="Enumeration" value="Success"/>
0362	<ResponsePayload>
0363	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0364	<Attribute>
0365	<AttributeName type="TextString" value="State"/>
0366	<AttributeValue type="Enumeration" value="PreActive"/>
0367	</Attribute>
0368	</ResponsePayload>
0369	</BatchItem>
0370	</ResponseMessage>
	# TIME 8
0371	<RequestMessage>
0372	<RequestHeader>

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

110

111 3.2 Mandatory Test Cases KMIP v1.1

112 3.2.1 AKLC-M-1-11

113 CreateKeyPair, GetAttributes, GetAttributes, Destroy

	# TIME 0
0001	<RequestMessage>
0002	<RequestHeader>
0003	<ProtocolVersion>
0004	<ProtocolVersionMajor type="Integer" value="1"/>
0005	<ProtocolVersionMinor type="Integer" value="1"/>
0006	</ProtocolVersion>
0007	<BatchCount type="Integer" value="1"/>
0008	</RequestHeader>
0009	<BatchItem>
0010	<Operation type="Enumeration" value="CreateKeyPair"/>
0011	<RequestPayload>
0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-1-11-
	private"/>
0027	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic
	Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>

0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-1-11-
	public"/>
0040	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic
	Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="1"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
	# TIME 1
0069	<RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>
0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="1"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic

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

	<pre> value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9 230"/> 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> </pre>
<pre> 0151 <RequestMessage> 0152 <RequestHeader> 0153 <ProtocolVersion> 0154 <ProtocolVersionMajor type="Integer" value="1"/> 0155 <ProtocolVersionMinor type="Integer" value="1"/> 0156 </ProtocolVersion> 0157 <BatchCount type="Integer" value="1"/> 0158 </RequestHeader> 0159 </BatchItem> 0160 <Operation type="Enumeration" value="GetAttributes"/> 0161 <RequestPayload> 0162 <UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/> 0163 <AttributeName type="TextString" value="State"/> 0164 <AttributeName type="TextString" value="Cryptographic Usage Mask"/> 0165 <AttributeName type="TextString" value="Unique Identifier"/> 0166 <AttributeName type="TextString" value="Object Type"/> 0167 <AttributeName type="TextString" value="Cryptographic Algorithm"/> 0168 <AttributeName type="TextString" value="Cryptographic Length"/> 0169 <AttributeName type="TextString" value="Digest"/> 0170 <AttributeName type="TextString" value="Initial Date"/> 0171 <AttributeName type="TextString" value="Last Change Date"/> 0172 <AttributeName type="TextString" value="Activation Date"/> 0173 </RequestPayload> 0174 </BatchItem> 0175 </RequestMessage> </pre>	<pre> # TIME 2 0151 <RequestMessage> 0152 <RequestHeader> 0153 <ProtocolVersion> 0154 <ProtocolVersionMajor type="Integer" value="1"/> 0155 <ProtocolVersionMinor type="Integer" value="1"/> 0156 </ProtocolVersion> 0157 <BatchCount type="Integer" value="1"/> 0158 </RequestHeader> 0159 </BatchItem> 0160 <Operation type="Enumeration" value="GetAttributes"/> 0161 <RequestPayload> 0162 <UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/> 0163 <AttributeName type="TextString" value="State"/> 0164 <AttributeName type="TextString" value="Cryptographic Usage Mask"/> 0165 <AttributeName type="TextString" value="Unique Identifier"/> 0166 <AttributeName type="TextString" value="Object Type"/> 0167 <AttributeName type="TextString" value="Cryptographic Algorithm"/> 0168 <AttributeName type="TextString" value="Cryptographic Length"/> 0169 <AttributeName type="TextString" value="Digest"/> 0170 <AttributeName type="TextString" value="Initial Date"/> 0171 <AttributeName type="TextString" value="Last Change Date"/> 0172 <AttributeName type="TextString" value="Activation Date"/> 0173 </RequestPayload> 0174 </BatchItem> 0175 </RequestMessage> </pre>
<pre> 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> </pre>	<pre> 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> </pre>

0186	<Operation type="Enumeration" value="GetAttributes"/>
0187	<ResultStatus type="Enumeration" value="Success"/>
0188	<ResponsePayload>
0189	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0190	<Attribute>
0191	<AttributeName type="TextString" value="State"/>
0192	<AttributeValue type="Enumeration" value="PreActive"/>
0193	</Attribute>
0194	<Attribute>
0195	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0196	<AttributeValue type="Integer" value="Verify"/>
0197	</Attribute>
0198	<Attribute>
0199	<AttributeName type="TextString" value="Unique Identifier"/>
0200	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0201	</Attribute>
0202	<Attribute>
0203	<AttributeName type="TextString" value="Object Type"/>
0204	<AttributeValue type="Enumeration" value="PublicKey"/>
0205	</Attribute>
0206	<Attribute>
0207	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0208	<AttributeValue type="Enumeration" value="RSA"/>
0209	</Attribute>
0210	<Attribute>
0211	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0212	<AttributeValue type="Integer" value="2048"/>
0213	</Attribute>
0214	<Attribute>
0215	<AttributeName type="TextString" value="Digest"/>
0216	<AttributeValue>
0217	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0218	<DigestValue type="ByteString"
	value="82bcff8afab753809db804e654013ded708c3996a50c6ce9313f9b3915442
	ce9"/>
0219	<KeyFormatType type="Enumeration" value="PKCS_1"/>
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>
0233	# TIME 3
	<RequestMessage>

0234	<RequestHeader>
0235	<ProtocolVersion>
0236	<ProtocolVersionMajor type="Integer" value="1"/>
0237	<ProtocolVersionMinor type="Integer" value="1"/>
0238	</ProtocolVersion>
0239	<BatchCount type="Integer" value="1"/>
0240	</RequestHeader>
0241	<BatchItem>
0242	<Operation type="Enumeration" value="Destroy"/>
0243	<RequestPayload>
0244	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0245	</RequestPayload>
0246	</BatchItem>
0247	</RequestMessage>
0248	<ResponseMessage>
0249	<ResponseHeader>
0250	<ProtocolVersion>
0251	<ProtocolVersionMajor type="Integer" value="1"/>
0252	<ProtocolVersionMinor type="Integer" value="1"/>
0253	</ProtocolVersion>
0254	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0255	<BatchCount type="Integer" value="1"/>
0256	</ResponseHeader>
0257	<BatchItem>
0258	<Operation type="Enumeration" value="Destroy"/>
0259	<ResultStatus type="Enumeration" value="Success"/>
0260	<ResponsePayload>
0261	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0262	</ResponsePayload>
0263	</BatchItem>
0264	</ResponseMessage>
	# TIME 4
0265	<RequestMessage>
0266	<RequestHeader>
0267	<ProtocolVersion>
0268	<ProtocolVersionMajor type="Integer" value="1"/>
0269	<ProtocolVersionMinor type="Integer" value="1"/>
0270	</ProtocolVersion>
0271	<BatchCount type="Integer" value="1"/>
0272	</RequestHeader>
0273	<BatchItem>
0274	<Operation type="Enumeration" value="Destroy"/>
0275	<RequestPayload>
0276	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0277	</RequestPayload>
0278	</BatchItem>
0279	</RequestMessage>
0280	<ResponseMessage>
0281	<ResponseHeader>
0282	<ProtocolVersion>
0283	<ProtocolVersionMajor type="Integer" value="1"/>
0284	<ProtocolVersionMinor type="Integer" value="1"/>
0285	</ProtocolVersion>
0286	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0287	<BatchCount type="Integer" value="1"/>

```

0288 </ResponseHeader>
0289 <BatchItem>
0290   <Operation type="Enumeration" value="Destroy"/>
0291   <ResultStatus type="Enumeration" value="Success"/>
0292   <ResponsePayload>
0293     <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0294   </ResponsePayload>
0295 </BatchItem>
0296 </ResponseMessage>

```

114

115 3.2.2 AKLC-M-2-11

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

```

# TIME 0
0001 <RequestMessage>
0002   <RequestHeader>
0003     <ProtocolVersion>
0004       <ProtocolVersionMajor type="Integer" value="1"/>
0005       <ProtocolVersionMinor type="Integer" value="1"/>
0006     </ProtocolVersion>
0007     <BatchCount type="Integer" value="1"/>
0008   </RequestHeader>
0009   <BatchItem>
0010     <Operation type="Enumeration" value="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015           <AttributeValue type="Enumeration" value="RSA"/>
0016         </Attribute>
0017         <Attribute>
0018           <AttributeName type="TextString" value="Cryptographic
Length"/>
0019           <AttributeValue type="Integer" value="2048"/>
0020         </Attribute>
0021       </CommonTemplateAttribute>
0022       <PrivateKeyTemplateAttribute>
0023         <Attribute>
0024           <AttributeName type="TextString" value="Name"/>
0025           <AttributeValue>
0026             <NameValue type="TextString" value="AKLC-M-2-11-
private"/>
0027             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0028           </AttributeValue>
0029         </Attribute>
0030         <Attribute>
0031           <AttributeName type="TextString" value="Cryptographic
Usage Mask"/>
0032           <AttributeValue type="Integer" value="Sign"/>
0033         </Attribute>
0034       </PrivateKeyTemplateAttribute>
0035       <PublicKeyTemplateAttribute>
0036         <Attribute>

```

0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-2-11-
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="1"/>
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="1"/>
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"/>
0092	<AttributeName type="TextString" value="Object Type"/>
0093	<AttributeName type="TextString" value="Cryptographic
0094	Algorithm"/>

0086	<AttributeName type="TextString" value="Cryptographic Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	</RequestPayload>
0091	</BatchItem>
0092	</RequestMessage>
0093	<ResponseMessage>
0094	<ResponseHeader>
0095	<ProtocolVersion>
0096	<ProtocolVersionMajor type="Integer" value="1"/>
0097	<ProtocolVersionMinor type="Integer" value="1"/>
0098	</ProtocolVersion>
0099	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0100	<BatchCount type="Integer" value="1"/>
0101	</ResponseHeader>
0102	<BatchItem>
0103	<Operation type="Enumeration" value="GetAttributes"/>
0104	<ResultStatus type="Enumeration" value="Success"/>
0105	<ResponsePayload>
0106	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0107	<Attribute>
0108	<AttributeName type="TextString" value="State"/>
0109	<AttributeValue type="Enumeration" value="PreActive"/>
0110	</Attribute>
0111	<Attribute>
0112	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0113	<AttributeValue type="Integer" value="Sign"/>
0114	</Attribute>
0115	<Attribute>
0116	<AttributeName type="TextString" value="Unique Identifier"/>
0117	<AttributeValue type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0118	</Attribute>
0119	<Attribute>
0120	<AttributeName type="TextString" value="Object Type"/>
0121	<AttributeValue type="Enumeration" value="PrivateKey"/>
0122	</Attribute>
0123	<Attribute>
0124	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0125	<AttributeValue type="Enumeration" value="RSA"/>
0126	</Attribute>
0127	<Attribute>
0128	<AttributeName type="TextString" value="Cryptographic Length"/>
0129	<AttributeValue type="Integer" value="2048"/>
0130	</Attribute>
0131	<Attribute>
0132	<AttributeName type="TextString" value="Digest"/>
0133	<AttributeValue>
0134	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0135	<DigestValue type="ByteString" value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9230"/>

0136	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0137	</AttributeValue>
0138	</Attribute>
0139	<Attribute>
0140	<AttributeName type="TextString" value="Initial Date"/>
0141	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0142	</Attribute>
0143	<Attribute>
0144	<AttributeName type="TextString" value="Last Change Date"/>
0145	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0146	</Attribute>
0147	</ResponsePayload>
0148	</BatchItem>
0149	</ResponseMessage>
# TIME 2	
0150	<RequestMessage>
0151	<RequestHeader>
0152	<ProtocolVersion>
0153	<ProtocolVersionMajor type="Integer" value="1"/>
0154	<ProtocolVersionMinor type="Integer" value="1"/>
0155	</ProtocolVersion>
0156	<BatchCount type="Integer" value="1"/>
0157	</RequestHeader>
0158	<BatchItem>
0159	<Operation type="Enumeration" value="Activate"/>
0160	<RequestPayload>
0161	<UniqueIdentifier type="TextString"
0162	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="2012-04-27T08:12:24+00:00"/>
0173	<BatchCount type="Integer" value="1"/>
0174	</ResponseHeader>
0175	<BatchItem>
0176	<Operation type="Enumeration" value="Activate"/>
0177	<ResultStatus type="Enumeration" value="Success"/>
0178	<ResponsePayload>
0179	<UniqueIdentifier type="TextString"
0180	value="\$UNIQUE_IDENTIFIER_0"/>
0181	</ResponsePayload>
0182	</BatchItem>
0183	</ResponseMessage>
# TIME 3	
0184	<RequestMessage>
0185	<RequestHeader>
0186	<ProtocolVersion>
0187	<ProtocolVersionMajor type="Integer" value="1"/>
0188	<ProtocolVersionMinor type="Integer" value="1"/>
0189	</ProtocolVersion>

0188	<BatchCount type="Integer" value="1"/>
0189	</RequestHeader>
0190	<BatchItem>
0191	<Operation type="Enumeration" value="GetAttributes"/>
0192	<RequestPayload>
0193	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0194	<AttributeName type="TextString" value="State"/>
0195	<AttributeName type="TextString" value="Activation Date"/>
0196	<AttributeName type="TextString" value="Deactivation Date"/>
0197	</RequestPayload>
0198	</BatchItem>
0199	</RequestMessage>
0200	<ResponseMessage>
0201	<ResponseHeader>
0202	<ProtocolVersion>
0203	<ProtocolVersionMajor type="Integer" value="1"/>
0204	<ProtocolVersionMinor type="Integer" value="1"/>
0205	</ProtocolVersion>
0206	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0207	<BatchCount type="Integer" value="1"/>
0208	</ResponseHeader>
0209	<BatchItem>
0210	<Operation type="Enumeration" value="GetAttributes"/>
0211	<ResultStatus type="Enumeration" value="Success"/>
0212	<ResponsePayload>
0213	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0214	<Attribute>
0215	<AttributeName type="TextString" value="State"/>
0216	<AttributeValue type="Enumeration" value="Active"/>
0217	</Attribute>
0218	<Attribute>
0219	<AttributeName type="TextString" value="Activation Date"/>
0220	<AttributeValue type="DateTime" value="2013-01-
	10T23:36:01+00:00"/>
0221	</Attribute>
0222	</ResponsePayload>
0223	</BatchItem>
0224	</ResponseMessage>
	# TIME 4
0225	<RequestMessage>
0226	<RequestHeader>
0227	<ProtocolVersion>
0228	<ProtocolVersionMajor type="Integer" value="1"/>
0229	<ProtocolVersionMinor type="Integer" value="1"/>
0230	</ProtocolVersion>
0231	<BatchCount type="Integer" value="1"/>
0232	</RequestHeader>
0233	<BatchItem>
0234	<Operation type="Enumeration" value="GetAttributes"/>
0235	<RequestPayload>
0236	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0237	<AttributeName type="TextString" value="State"/>
0238	<AttributeName type="TextString" value="Activation Date"/>
0239	<AttributeName type="TextString" value="Deactivation Date"/>
0240	</RequestPayload>

0241	</BatchItem>
0242	</RequestMessage>
0243	<ResponseMessage>
0244	<ResponseHeader>
0245	<ProtocolVersion>
0246	<ProtocolVersionMajor type="Integer" value="1"/>
0247	<ProtocolVersionMinor type="Integer" value="1"/>
0248	</ProtocolVersion>
0249	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0250	<BatchCount type="Integer" value="1"/>
0251	</ResponseHeader>
0252	<BatchItem>
0253	<Operation type="Enumeration" value="GetAttributes"/>
0254	<ResultStatus type="Enumeration" value="Success"/>
0255	<ResponsePayload>
0256	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0257	<Attribute>
0258	<AttributeName type="TextString" value="State"/>
0259	<AttributeValue type="Enumeration" value="PreActive"/>
0260	</Attribute>
0261	</ResponsePayload>
0262	</BatchItem>
0263	</ResponseMessage>
	# TIME 5
0264	<RequestMessage>
0265	<RequestHeader>
0266	<ProtocolVersion>
0267	<ProtocolVersionMajor type="Integer" value="1"/>
0268	<ProtocolVersionMinor type="Integer" value="1"/>
0269	</ProtocolVersion>
0270	<BatchCount type="Integer" value="1"/>
0271	</RequestHeader>
0272	<BatchItem>
0273	<Operation type="Enumeration" value="Destroy"/>
0274	<RequestPayload>
0275	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0276	</RequestPayload>
0277	</BatchItem>
0278	</RequestMessage>
0279	<ResponseMessage>
0280	<ResponseHeader>
0281	<ProtocolVersion>
0282	<ProtocolVersionMajor type="Integer" value="1"/>
0283	<ProtocolVersionMinor type="Integer" value="1"/>
0284	</ProtocolVersion>
0285	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0286	<BatchCount type="Integer" value="1"/>
0287	</ResponseHeader>
0288	<BatchItem>
0289	<Operation type="Enumeration" value="Destroy"/>
0290	<ResultStatus type="Enumeration" value="OperationFailed"/>
0291	<ResultReason type="Enumeration" value="PermissionDenied"/>
0292	<ResultMessage type="TextString" value="DENIED"/>
0293	</BatchItem>
0294	</ResponseMessage>
	# TIME 6

0295	<RequestMessage>
0296	<RequestHeader>
0297	<ProtocolVersion>
0298	<ProtocolVersionMajor type="Integer" value="1"/>
0299	<ProtocolVersionMinor type="Integer" value="1"/>
0300	</ProtocolVersion>
0301	<BatchCount type="Integer" value="1"/>
0302	</RequestHeader>
0303	<BatchItem>
0304	<Operation type="Enumeration" value="Destroy"/>
0305	<RequestPayload>
0306	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0307	</RequestPayload>
0308	</BatchItem>
0309	</RequestMessage>
0310	<ResponseMessage>
0311	<ResponseHeader>
0312	<ProtocolVersion>
0313	<ProtocolVersionMajor type="Integer" value="1"/>
0314	<ProtocolVersionMinor type="Integer" value="1"/>
0315	</ProtocolVersion>
0316	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0317	<BatchCount type="Integer" value="1"/>
0318	</ResponseHeader>
0319	<BatchItem>
0320	<Operation type="Enumeration" value="Destroy"/>
0321	<ResultStatus type="Enumeration" value="Success"/>
0322	<ResponsePayload>
0323	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0324	</ResponsePayload>
0325	</BatchItem>
0326	</ResponseMessage>
	# TIME 7
0327	<RequestMessage>
0328	<RequestHeader>
0329	<ProtocolVersion>
0330	<ProtocolVersionMajor type="Integer" value="1"/>
0331	<ProtocolVersionMinor type="Integer" value="1"/>
0332	</ProtocolVersion>
0333	<BatchCount type="Integer" value="1"/>
0334	</RequestHeader>
0335	<BatchItem>
0336	<Operation type="Enumeration" value="Revoke"/>
0337	<RequestPayload>
0338	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0339	<RevocationReason>
0340	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>
0341	</RevocationReason>
0342	<CompromiseOccurrenceDate type="DateTime" value="1970-01-
	01T00:00:06+00:00"/>
0343	</RequestPayload>
0344	</BatchItem>
0345	</RequestMessage>
0346	<ResponseMessage>

0347	<ResponseHeader>
0348	<ProtocolVersion>
0349	<ProtocolVersionMajor type="Integer" value="1"/>
0350	<ProtocolVersionMinor type="Integer" value="1"/>
0351	</ProtocolVersion>
0352	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0353	<BatchCount type="Integer" value="1"/>
0354	</ResponseHeader>
0355	<BatchItem>
0356	<Operation type="Enumeration" value="Revoke"/>
0357	<ResultStatus type="Enumeration" value="Success"/>
0358	<ResponsePayload>
0359	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0360	</ResponsePayload>
0361	</BatchItem>
0362	</ResponseMessage>
	# TIME 8
0363	<RequestMessage>
0364	<RequestHeader>
0365	<ProtocolVersion>
0366	<ProtocolVersionMajor type="Integer" value="1"/>
0367	<ProtocolVersionMinor type="Integer" value="1"/>
0368	</ProtocolVersion>
0369	<BatchCount type="Integer" value="1"/>
0370	</RequestHeader>
0371	<BatchItem>
0372	<Operation type="Enumeration" value="GetAttributes"/>
0373	<RequestPayload>
0374	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0375	<AttributeName type="TextString" value="State"/>
0376	</RequestPayload>
0377	</BatchItem>
0378	</RequestMessage>
0379	<ResponseMessage>
0380	<ResponseHeader>
0381	<ProtocolVersion>
0382	<ProtocolVersionMajor type="Integer" value="1"/>
0383	<ProtocolVersionMinor type="Integer" value="1"/>
0384	</ProtocolVersion>
0385	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0386	<BatchCount type="Integer" value="1"/>
0387	</ResponseHeader>
0388	<BatchItem>
0389	<Operation type="Enumeration" value="GetAttributes"/>
0390	<ResultStatus type="Enumeration" value="Success"/>
0391	<ResponsePayload>
0392	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0393	<Attribute>
0394	<AttributeName type="TextString" value="State"/>
0395	<AttributeValue type="Enumeration" value="Compromised"/>
0396	</Attribute>
0397	</ResponsePayload>
0398	</BatchItem>
0399	</ResponseMessage>
	# TIME 9

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

117

118 3.2.3 AKLC-M-3-11

119 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

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

0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-3-11-
	private"/>
0027	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic
	Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-M-3-11-
	public"/>
0040	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic
	Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="1"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>

0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1
0070	<RequestMessage>
0071	<RequestHeader>
0072	<ProtocolVersion>
0073	<ProtocolVersionMajor type="Integer" value="1"/>
0074	<ProtocolVersionMinor type="Integer" value="1"/>
0075	</ProtocolVersion>
0076	<BatchCount type="Integer" value="1"/>
0077	</RequestHeader>
0078	<BatchItem>
0079	<Operation type="Enumeration" value="GetAttributes"/>
0080	<RequestPayload>
0081	<UniqueIdentifier type="TextString"
0082	value="\$UNIQUE_IDENTIFIER_0"/>
0083	<AttributeName type="TextString" value="State"/>
0084	<AttributeName type="TextString" value="Cryptographic Usage
0085	Mask"/>
0086	<AttributeName type="TextString" value="Unique Identifier"/>
0087	<AttributeName type="TextString" value="Object Type"/>
0088	<AttributeName type="TextString" value="Cryptographic
0089	Algorithm"/>
0090	<AttributeName type="TextString" value="Cryptographic
0091	Length"/>
0092	<AttributeName type="TextString" value="Digest"/>
0093	<AttributeName type="TextString" value="Initial Date"/>
0094	<AttributeName type="TextString" value="Last Change Date"/>
0095	</RequestPayload>
0096	</BatchItem>
0097	</RequestMessage>
0098	<ResponseMessage>
0099	<ResponseHeader>
0100	<ProtocolVersion>
0101	<ProtocolVersionMajor type="Integer" value="1"/>
0102	<ProtocolVersionMinor type="Integer" value="1"/>
0103	</ProtocolVersion>
0104	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0105	<BatchCount type="Integer" value="1"/>
0106	</ResponseHeader>
0107	<BatchItem>
0108	<Operation type="Enumeration" value="GetAttributes"/>
0109	<ResultStatus type="Enumeration" value="Success"/>
0110	<ResponsePayload>
0111	<UniqueIdentifier type="TextString"
0112	value="\$UNIQUE_IDENTIFIER_0"/>
0113	<Attribute>
0114	<AttributeName type="TextString" value="State"/>
0115	<AttributeValue type="Enumeration" value="PreActive"/>
0116	</Attribute>
0117	<Attribute>
0118	<AttributeName type="TextString" value="Cryptographic Usage
0119	Mask"/>
0120	<AttributeValue type="Integer" value="Sign"/>
0121	</Attribute>
0122	<Attribute>
0123	<AttributeName type="TextString" value="Unique Identifier"/>

0117	<AttributeValue type="TextString"
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
0126	Algorithm"/>
0127	<AttributeValue type="Enumeration" value="RSA"/>
0128	</Attribute>
0129	<Attribute>
0130	<AttributeName type="TextString" value="Cryptographic
0131	Length"/>
0132	<AttributeValue type="Integer" value="2048"/>
0133	</Attribute>
0134	<Attribute>
0135	<AttributeName type="TextString" value="Digest"/>
0136	<AttributeValue type="Enumeration" value="SHA_256"/>
0137	</Attribute>
0138	<Attribute>
0139	<AttributeName type="TextString" value="Digest"/>
0140	<AttributeValue type="ByteString"
0141	value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
0142	230"/>
0143	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0144	</Attribute>
0145	</Attribute>
0146	<Attribute>
0147	<AttributeName type="TextString" value="Initial Date"/>
0148	<AttributeValue type="DateTime" value="2013-01-
0149	11T08:18:21+00:00"/>
0150	</Attribute>
0151	<Attribute>
0152	<AttributeName type="TextString" value="Last Change Date"/>
0153	<AttributeValue type="DateTime" value="2013-01-
0154	11T08:18:21+00:00"/>
0155	</Attribute>
0156	</ResponsePayload>
0157	</BatchItem>
0158	</ResponseMessage>
0159	# TIME 2
0160	<RequestMessage>
0161	<RequestHeader>
0162	<ProtocolVersion>
0163	<ProtocolVersionMajor type="Integer" value="1"/>
0164	<ProtocolVersionMinor type="Integer" value="1"/>
0165	</ProtocolVersion>
0166	<BatchCount type="Integer" value="1"/>
0167	</RequestHeader>
0168	<BatchItem>
0169	<Operation type="Enumeration" value="Activate"/>
0170	<RequestPayload>
0171	<UniqueIdentifier type="TextString"
0172	value="\$UNIQUE_IDENTIFIER_0"/>
0173	</RequestPayload>
0174	</BatchItem>
0175	</RequestMessage>
0176	<ResponseMessage>

0166	<ResponseHeader>
0167	<ProtocolVersion>
0168	<ProtocolVersionMajor type="Integer" value="1"/>
0169	<ProtocolVersionMinor type="Integer" value="1"/>
0170	</ProtocolVersion>
0171	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0172	<BatchCount type="Integer" value="1"/>
0173	</ResponseHeader>
0174	<BatchItem>
0175	<Operation type="Enumeration" value="Activate"/>
0176	<ResultStatus type="Enumeration" value="Success"/>
0177	<ResponsePayload>
0178	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0179	</ResponsePayload>
0180	</BatchItem>
0181	</ResponseMessage>
# TIME 3	
0182	<RequestMessage>
0183	<RequestHeader>
0184	<ProtocolVersion>
0185	<ProtocolVersionMajor type="Integer" value="1"/>
0186	<ProtocolVersionMinor type="Integer" value="1"/>
0187	</ProtocolVersion>
0188	<BatchCount type="Integer" value="1"/>
0189	</RequestHeader>
0190	<BatchItem>
0191	<Operation type="Enumeration" value="GetAttributes"/>
0192	<RequestPayload>
0193	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0194	<AttributeName type="TextString" value="State"/>
0195	<AttributeName type="TextString" value="Activation Date"/>
0196	<AttributeName type="TextString" value="Deactivation Date"/>
0197	</RequestPayload>
0198	</BatchItem>
0199	</RequestMessage>
0200	<ResponseMessage>
0201	<ResponseHeader>
0202	<ProtocolVersion>
0203	<ProtocolVersionMajor type="Integer" value="1"/>
0204	<ProtocolVersionMinor type="Integer" value="1"/>
0205	</ProtocolVersion>
0206	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0207	<BatchCount type="Integer" value="1"/>
0208	</ResponseHeader>
0209	<BatchItem>
0210	<Operation type="Enumeration" value="GetAttributes"/>
0211	<ResultStatus type="Enumeration" value="Success"/>
0212	<ResponsePayload>
0213	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0214	<Attribute>
0215	<AttributeName type="TextString" value="State"/>
0216	<AttributeValue type="Enumeration" value="Active"/>
0217	</Attribute>
0218	<Attribute>
0219	<AttributeName type="TextString" value="Activation Date"/>

0220	<AttributeValue type="DateTime" value="2013-01-10T23:36:01+00:00"/>
0221	</Attribute>
0222	</ResponsePayload>
0223	</BatchItem>
0224	</ResponseMessage>
# TIME 4	
0225	<RequestMessage>
0226	<RequestHeader>
0227	<ProtocolVersion>
0228	<ProtocolVersionMajor type="Integer" value="1"/>
0229	<ProtocolVersionMinor type="Integer" value="1"/>
0230	</ProtocolVersion>
0231	<BatchCount type="Integer" value="1"/>
0232	</RequestHeader>
0233	<BatchItem>
0234	<Operation type="Enumeration" value="ModifyAttribute"/>
0235	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0236	<RequestPayload>
0237	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0238	<Attribute>
0239	<AttributeName type="TextString" value="Activation Date"/>
0240	<AttributeValue type="DateTime" value="\$NOW"/>
0241	</Attribute>
0242	</RequestPayload>
0243	</BatchItem>
0244	</RequestMessage>
0245	<ResponseMessage>
0246	<ResponseHeader>
0247	<ProtocolVersion>
0248	<ProtocolVersionMajor type="Integer" value="1"/>
0249	<ProtocolVersionMinor type="Integer" value="1"/>
0250	</ProtocolVersion>
0251	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0252	<BatchCount type="Integer" value="1"/>
0253	</ResponseHeader>
0254	<BatchItem>
0255	<Operation type="Enumeration" value="ModifyAttribute"/>
0256	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0257	<ResultStatus type="Enumeration" value="OperationFailed"/>
0258	<ResultReason type="Enumeration" value="PermissionDenied"/>
0259	<ResultMessage type="TextString" value="DENIED"/>
0260	</BatchItem>
0261	</ResponseMessage>
# TIME 5	
0262	<RequestMessage>
0263	<RequestHeader>
0264	<ProtocolVersion>
0265	<ProtocolVersionMajor type="Integer" value="1"/>
0266	<ProtocolVersionMinor type="Integer" value="1"/>
0267	</ProtocolVersion>
0268	<BatchCount type="Integer" value="1"/>
0269	</RequestHeader>
0270	<BatchItem>
0271	<Operation type="Enumeration" value="Revoke"/>
0272	<RequestPayload>
0273	<UniqueIdentifier type="TextString"

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

0326	<ResponsePayload>
0327	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0328	<Attribute>
0329	<AttributeName type="TextString" value="State"/>
0330	<AttributeValue type="Enumeration" value="Compromised"/>
0331	</Attribute>
0332	</ResponsePayload>
0333	</BatchItem>
0334	</ResponseMessage>
# TIME 7	
0335	<RequestMessage>
0336	<RequestHeader>
0337	<ProtocolVersion>
0338	<ProtocolVersionMajor type="Integer" value="1"/>
0339	<ProtocolVersionMinor type="Integer" value="1"/>
0340	</ProtocolVersion>
0341	<BatchCount type="Integer" value="1"/>
0342	</RequestHeader>
0343	<BatchItem>
0344	<Operation type="Enumeration" value="GetAttributes"/>
0345	<RequestPayload>
0346	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0347	<AttributeName type="TextString" value="State"/>
0348	</RequestPayload>
0349	</BatchItem>
0350	</RequestMessage>
0351	<ResponseMessage>
0352	<ResponseHeader>
0353	<ProtocolVersion>
0354	<ProtocolVersionMajor type="Integer" value="1"/>
0355	<ProtocolVersionMinor type="Integer" value="1"/>
0356	</ProtocolVersion>
0357	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0358	<BatchCount type="Integer" value="1"/>
0359	</ResponseHeader>
0360	<BatchItem>
0361	<Operation type="Enumeration" value="GetAttributes"/>
0362	<ResultStatus type="Enumeration" value="Success"/>
0363	<ResponsePayload>
0364	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0365	<Attribute>
0366	<AttributeName type="TextString" value="State"/>
0367	<AttributeValue type="Enumeration" value="PreActive"/>
0368	</Attribute>
0369	</ResponsePayload>
0370	</BatchItem>
0371	</ResponseMessage>
# TIME 8	
0372	<RequestMessage>
0373	<RequestHeader>
0374	<ProtocolVersion>
0375	<ProtocolVersionMajor type="Integer" value="1"/>
0376	<ProtocolVersionMinor type="Integer" value="1"/>
0377	</ProtocolVersion>
0378	<BatchCount type="Integer" value="1"/>

0379	</RequestHeader>
0380	<BatchItem>
0381	<Operation type="Enumeration" value="Destroy"/>
0382	<RequestPayload>
0383	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0384	</RequestPayload>
0385	</BatchItem>
0386	</RequestMessage>
0387	<ResponseMessage>
0388	<ResponseHeader>
0389	<ProtocolVersion>
0390	<ProtocolVersionMajor type="Integer" value="1"/>
0391	<ProtocolVersionMinor type="Integer" value="1"/>
0392	</ProtocolVersion>
0393	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0394	<BatchCount type="Integer" value="1"/>
0395	</ResponseHeader>
0396	<BatchItem>
0397	<Operation type="Enumeration" value="Destroy"/>
0398	<ResultStatus type="Enumeration" value="Success"/>
0399	<ResponsePayload>
0400	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0401	</ResponsePayload>
0402	</BatchItem>
0403	</ResponseMessage>
	# TIME 9
0404	<RequestMessage>
0405	<RequestHeader>
0406	<ProtocolVersion>
0407	<ProtocolVersionMajor type="Integer" value="1"/>
0408	<ProtocolVersionMinor type="Integer" value="1"/>
0409	</ProtocolVersion>
0410	<BatchCount type="Integer" value="1"/>
0411	</RequestHeader>
0412	<BatchItem>
0413	<Operation type="Enumeration" value="Destroy"/>
0414	<RequestPayload>
0415	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0416	</RequestPayload>
0417	</BatchItem>
0418	</RequestMessage>
0419	<ResponseMessage>
0420	<ResponseHeader>
0421	<ProtocolVersion>
0422	<ProtocolVersionMajor type="Integer" value="1"/>
0423	<ProtocolVersionMinor type="Integer" value="1"/>
0424	</ProtocolVersion>
0425	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0426	<BatchCount type="Integer" value="1"/>
0427	</ResponseHeader>
0428	<BatchItem>
0429	<Operation type="Enumeration" value="Destroy"/>
0430	<ResultStatus type="Enumeration" value="Success"/>
0431	<ResponsePayload>
0432	<UniqueIdentifier type="TextString"

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

120

121 3.3 Mandatory Test Cases KMIP v1.2

122 3.3.1 AKLC-M-1-12

123 CreateKeyPair, GetAttributes, GetAttributes, Destroy

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

0040	<pre> <NameType type="Enumeration" value="UninterpretedTextString"/> </AttributeValue> </Attribute> <Attribute> <AttributeName type="TextString" value="Cryptographic Usage Mask"/> <AttributeValue type="Integer" value="Verify"/> </Attribute> </PublicKeyTemplateAttribute> </RequestPayload> </BatchItem> </RequestMessage> </pre>
0051	<pre> <ResponseMessage> <ResponseHeader> <ProtocolVersion> <ProtocolVersionMajor type="Integer" value="1"/> <ProtocolVersionMinor type="Integer" value="2"/> </ProtocolVersion> <TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/> <BatchCount type="Integer" value="1"/> </ResponseHeader> <BatchItem> <Operation type="Enumeration" value="CreateKeyPair"/> <ResultStatus type="Enumeration" value="Success"/> <ResponsePayload> <PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/> <PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/> </ResponsePayload> </BatchItem> </ResponseMessage> </pre>
0069	<pre> # TIME 1 <RequestMessage> <RequestHeader> <ProtocolVersion> <ProtocolVersionMajor type="Integer" value="1"/> <ProtocolVersionMinor type="Integer" value="2"/> </ProtocolVersion> <BatchCount type="Integer" value="1"/> </RequestHeader> <BatchItem> <Operation type="Enumeration" value="GetAttributes"/> <RequestPayload> <UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/> <AttributeName type="TextString" value="State"/> <AttributeName type="TextString" value="Cryptographic Usage Mask"/> <AttributeName type="TextString" value="Unique Identifier"/> <AttributeName type="TextString" value="Object Type"/> <AttributeName type="TextString" value="Cryptographic Algorithm"/> <AttributeName type="TextString" value="Cryptographic Length"/> <AttributeName type="TextString" value="Digest"/> <AttributeName type="TextString" value="Initial Date"/> </pre>

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

0139	</AttributeValue>
0140	</Attribute>
0141	<Attribute>
0142	<AttributeName type="TextString" value="Initial Date"/>
0143	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0144	</Attribute>
0145	<Attribute>
0146	<AttributeName type="TextString" value="Last Change Date"/>
0147	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0148	</Attribute>
0149	<Attribute>
0150	<AttributeName type="TextString" value="Original Creation Date"/>
0151	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0152	</Attribute>
0153	</ResponsePayload>
0154	</BatchItem>
0155	</ResponseMessage>
0156	# TIME 2 <RequestMessage>
0157	<RequestHeader>
0158	<ProtocolVersion>
0159	<ProtocolVersionMajor type="Integer" value="1"/>
0160	<ProtocolVersionMinor type="Integer" value="2"/>
0161	</ProtocolVersion>
0162	<BatchCount type="Integer" value="1"/>
0163	</RequestHeader>
0164	<BatchItem>
0165	<Operation type="Enumeration" value="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>

124

125 3.3.2 AKLC-M-2-12

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

	# TIME 0
0001	<RequestMessage>
0002	<RequestHeader>
0003	<ProtocolVersion>
0004	<ProtocolVersionMajor type="Integer" value="1"/>
0005	<ProtocolVersionMinor type="Integer" value="2"/>
0006	</ProtocolVersion>
0007	<BatchCount type="Integer" value="1"/>
0008	</RequestHeader>
0009	<BatchItem>
0010	<Operation type="Enumeration" value="CreateKeyPair"/>
0011	<RequestPayload>
0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-M-2-12-private"/>
0027	<NameType type="Enumeration"

0028	value="UninterpretedTextString"/>
0029	</AttributeValue>
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>
0155	# TIME 2 <RequestMessage>
0156	<RequestHeader>
0157	<ProtocolVersion>
0158	<ProtocolVersionMajor type="Integer" value="1"/>
0159	<ProtocolVersionMinor type="Integer" value="2"/>
0160	</ProtocolVersion>
0161	<BatchCount type="Integer" value="1"/>
0162	</RequestHeader>
0163	<BatchItem>
0164	<Operation type="Enumeration" value="Activate"/>
0165	<RequestPayload>
0166	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0167	</RequestPayload>
0168	</BatchItem>
0169	</RequestMessage>
0170	<ResponseMessage>
0171	<ResponseHeader>
0172	<ProtocolVersion>
0173	<ProtocolVersionMajor type="Integer" value="1"/>
0174	<ProtocolVersionMinor type="Integer" value="2"/>
0175	</ProtocolVersion>

0176	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0177	<BatchCount type="Integer" value="1"/>
0178	</ResponseHeader>
0179	<BatchItem>
0180	<Operation type="Enumeration" value="Activate"/>
0181	<ResultStatus type="Enumeration" value="Success"/>
0182	<ResponsePayload>
0183	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0184	</ResponsePayload>
0185	</BatchItem>
0186	</ResponseMessage>
# TIME 3	
0187	<RequestMessage>
0188	<RequestHeader>
0189	<ProtocolVersion>
0190	<ProtocolVersionMajor type="Integer" value="1"/>
0191	<ProtocolVersionMinor type="Integer" value="2"/>
0192	</ProtocolVersion>
0193	<BatchCount type="Integer" value="1"/>
0194	</RequestHeader>
0195	<BatchItem>
0196	<Operation type="Enumeration" value="GetAttributes"/>
0197	<RequestPayload>
0198	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0199	<AttributeName type="TextString" value="State"/>
0200	<AttributeName type="TextString" value="Activation Date"/>
0201	<AttributeName type="TextString" value="Deactivation Date"/>
0202	</RequestPayload>
0203	</BatchItem>
0204	</RequestMessage>
0205	<ResponseMessage>
0206	<ResponseHeader>
0207	<ProtocolVersion>
0208	<ProtocolVersionMajor type="Integer" value="1"/>
0209	<ProtocolVersionMinor type="Integer" value="2"/>
0210	</ProtocolVersion>
0211	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0212	<BatchCount type="Integer" value="1"/>
0213	</ResponseHeader>
0214	<BatchItem>
0215	<Operation type="Enumeration" value="GetAttributes"/>
0216	<ResultStatus type="Enumeration" value="Success"/>
0217	<ResponsePayload>
0218	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0219	<Attribute>
0220	<AttributeName type="TextString" value="State"/>
0221	<AttributeValue type="Enumeration" value="Active"/>
0222	</Attribute>
0223	<Attribute>
0224	<AttributeName type="TextString" value="Activation Date"/>
0225	<AttributeValue type="DateTime" value="2013-01-
	10T23:36:01+00:00"/>
0226	</Attribute>
0227	</ResponsePayload>
0228	</BatchItem>

0229	</ResponseMessage>
	# TIME 4
0230	<RequestMessage>
0231	<RequestHeader>
0232	<ProtocolVersion>
0233	<ProtocolVersionMajor type="Integer" value="1"/>
0234	<ProtocolVersionMinor type="Integer" value="2"/>
0235	</ProtocolVersion>
0236	<BatchCount type="Integer" value="1"/>
0237	</RequestHeader>
0238	<BatchItem>
0239	<Operation type="Enumeration" value="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>
	# 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-
	01T00:00:06+00:00"/>
0348	</RequestPayload>
0349	</BatchItem>
0350	</RequestMessage>
0351	<ResponseMessage>
0352	<ResponseHeader>
0353	<ProtocolVersion>
0354	<ProtocolVersionMajor type="Integer" value="1"/>
0355	<ProtocolVersionMinor type="Integer" value="2"/>
0356	</ProtocolVersion>
0357	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0358	<BatchCount type="Integer" value="1"/>
0359	</ResponseHeader>
0360	<BatchItem>
0361	<Operation type="Enumeration" value="Revoke"/>
0362	<ResultStatus type="Enumeration" value="Success"/>
0363	<ResponsePayload>
0364	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0365	</ResponsePayload>
0366	</BatchItem>
0367	</ResponseMessage>
	# TIME 8
0368	<RequestMessage>
0369	<RequestHeader>
0370	<ProtocolVersion>
0371	<ProtocolVersionMajor type="Integer" value="1"/>
0372	<ProtocolVersionMinor type="Integer" value="2"/>
0373	</ProtocolVersion>
0374	<BatchCount type="Integer" value="1"/>
0375	</RequestHeader>
0376	<BatchItem>
0377	<Operation type="Enumeration" value="GetAttributes"/>
0378	<RequestPayload>
0379	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0380	<AttributeName type="TextString" value="State"/>
0381	</RequestPayload>
0382	</BatchItem>
0383	</RequestMessage>
0384	<ResponseMessage>
0385	<ResponseHeader>
0386	<ProtocolVersion>
0387	<ProtocolVersionMajor type="Integer" value="1"/>

0388	<ProtocolVersionMinor type="Integer" value="2"/>
0389	</ProtocolVersion>
0390	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0391	<BatchCount type="Integer" value="1"/>
0392	</ResponseHeader>
0393	<BatchItem>
0394	<Operation type="Enumeration" value="GetAttributes"/>
0395	<ResultStatus type="Enumeration" value="Success"/>
0396	<ResponsePayload>
0397	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0398	<Attribute>
0399	<AttributeName type="TextString" value="State"/>
0400	<AttributeValue type="Enumeration" value="Compromised"/>
0401	</Attribute>
0402	</ResponsePayload>
0403	</BatchItem>
0404	</ResponseMessage>
# TIME 9	
0405	<RequestMessage>
0406	<RequestHeader>
0407	<ProtocolVersion>
0408	<ProtocolVersionMajor type="Integer" value="1"/>
0409	<ProtocolVersionMinor type="Integer" value="2"/>
0410	</ProtocolVersion>
0411	<BatchCount type="Integer" value="1"/>
0412	</RequestHeader>
0413	<BatchItem>
0414	<Operation type="Enumeration" value="Destroy"/>
0415	<RequestPayload>
0416	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0417	</RequestPayload>
0418	</BatchItem>
0419	</RequestMessage>
0420	<ResponseMessage>
0421	<ResponseHeader>
0422	<ProtocolVersion>
0423	<ProtocolVersionMajor type="Integer" value="1"/>
0424	<ProtocolVersionMinor type="Integer" value="2"/>
0425	</ProtocolVersion>
0426	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0427	<BatchCount type="Integer" value="1"/>
0428	</ResponseHeader>
0429	<BatchItem>
0430	<Operation type="Enumeration" value="Destroy"/>
0431	<ResultStatus type="Enumeration" value="Success"/>
0432	<ResponsePayload>
0433	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0434	</ResponsePayload>
0435	</BatchItem>
0436	</ResponseMessage>

128 3.3.3 AKLC-M-3-12

129 CreateKeyPair, GetAttributes, Activate, GetAttributes, Destroy, Revoke, GetAttributes, Destroy

```

# TIME 0
0001 <RequestMessage>
0002   <RequestHeader>
0003     <ProtocolVersion>
0004       <ProtocolVersionMajor type="Integer" value="1"/>
0005       <ProtocolVersionMinor type="Integer" value="2"/>
0006     </ProtocolVersion>
0007     <BatchCount type="Integer" value="1"/>
0008   </RequestHeader>
0009   <BatchItem>
0010     <Operation type="Enumeration" value="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015           <AttributeValue type="Enumeration" value="RSA"/>
0016         </Attribute>
0017         <Attribute>
0018           <AttributeName type="TextString" value="Cryptographic
Length"/>
0019           <AttributeValue type="Integer" value="2048"/>
0020         </Attribute>
0021       </CommonTemplateAttribute>
0022       <PrivateKeyTemplateAttribute>
0023         <Attribute>
0024           <AttributeName type="TextString" value="Name"/>
0025           <AttributeValue>
0026             <NameValue type="TextString" value="AKLC-M-3-12-
private"/>
0027             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0028           </AttributeValue>
0029         </Attribute>
0030         <Attribute>
0031           <AttributeName type="TextString" value="Cryptographic
Usage Mask"/>
0032           <AttributeValue type="Integer" value="Sign"/>
0033         </Attribute>
0034       </PrivateKeyTemplateAttribute>
0035       <PublicKeyTemplateAttribute>
0036         <Attribute>
0037           <AttributeName type="TextString" value="Name"/>
0038           <AttributeValue>
0039             <NameValue type="TextString" value="AKLC-M-3-12-
public"/>
0040             <NameType type="Enumeration"
value="UninterpretedTextString"/>
0041           </AttributeValue>
0042         </Attribute>
0043         <Attribute>
0044           <AttributeName type="TextString" value="Cryptographic
Usage Mask"/>
0045           <AttributeValue type="Integer" value="Verify"/>
0046         </Attribute>

```

0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="2"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2012-04-27T08:14:39+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1
0070	<RequestMessage>
0071	<RequestHeader>
0072	<ProtocolVersion>
0073	<ProtocolVersionMajor type="Integer" value="1"/>
0074	<ProtocolVersionMinor type="Integer" value="2"/>
0075	</ProtocolVersion>
0076	<BatchCount type="Integer" value="1"/>
0077	</RequestHeader>
0078	<BatchItem>
0079	<Operation type="Enumeration" value="GetAttributes"/>
0080	<RequestPayload>
0081	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0082	<AttributeName type="TextString" value="State"/>
0083	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0084	<AttributeName type="TextString" value="Unique Identifier"/>
0085	<AttributeName type="TextString" value="Object Type"/>
0086	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0087	<AttributeName type="TextString" value="Cryptographic Length"/>
0088	<AttributeName type="TextString" value="Digest"/>
0089	<AttributeName type="TextString" value="Initial Date"/>
0090	<AttributeName type="TextString" value="Last Change Date"/>
0091	<AttributeName type="TextString" value="Original Creation Date"/>
0092	</RequestPayload>
0093	</BatchItem>
0094	</RequestMessage>
0095	<ResponseMessage>
0096	<ResponseHeader>
0097	<ProtocolVersion>

```

0097     <ProtocolVersionMajor type="Integer" value="1"/>
0098     <ProtocolVersionMinor type="Integer" value="2"/>
0099     </ProtocolVersion>
0100     <TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101     <BatchCount type="Integer" value="1"/>
0102 </ResponseHeader>
0103 <BatchItem>
0104     <Operation type="Enumeration" value="GetAttributes"/>
0105     <ResultStatus type="Enumeration" value="Success"/>
0106     <ResponsePayload>
0107         <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0108         <Attribute>
0109             <AttributeName type="TextString" value="State"/>
0110             <AttributeValue type="Enumeration" value="PreActive"/>
0111         </Attribute>
0112         <Attribute>
0113             <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0114             <AttributeValue type="Integer" value="Sign"/>
0115         </Attribute>
0116         <Attribute>
0117             <AttributeName type="TextString" value="Unique Identifier"/>
0118             <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0119         </Attribute>
0120         <Attribute>
0121             <AttributeName type="TextString" value="Object Type"/>
0122             <AttributeValue type="Enumeration" value="PrivateKey"/>
0123         </Attribute>
0124         <Attribute>
0125             <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0126             <AttributeValue type="Enumeration" value="RSA"/>
0127         </Attribute>
0128         <Attribute>
0129             <AttributeName type="TextString" value="Cryptographic
Length"/>
0130             <AttributeValue type="Integer" value="2048"/>
0131         </Attribute>
0132         <Attribute>
0133             <AttributeName type="TextString" value="Digest"/>
0134             <AttributeValue>
0135                 <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0136                 <DigestValue type="ByteString"
value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9
230"/>
0137             <KeyFormatType type="Enumeration" value="PKCS_1"/>
0138         </AttributeValue>
0139     </Attribute>
0140     <Attribute>
0141         <AttributeName type="TextString" value="Initial Date"/>
0142         <AttributeValue type="DateTime" value="2013-01-
11T08:18:21+00:00"/>
0143     </Attribute>
0144     <Attribute>
0145         <AttributeName type="TextString" value="Last Change Date"/>
0146         <AttributeValue type="DateTime" value="2013-01-

```

0147	11T08:18:21+00:00"/>
0148	</Attribute>
0149	<AttributeName type="TextString" value="Original Creation
0150	Date"/>
0151	<AttributeValue type="DateTime" value="2013-01-
0152	11T08:18:21+00:00"/>
0153	</Attribute>
0154	</ResponsePayload>
0155	</BatchItem>
0156	</ResponseMessage>
0157	# TIME 2
0158	<RequestMessage>
0159	<RequestHeader>
0160	<ProtocolVersion>
0161	<ProtocolVersionMajor type="Integer" value="1"/>
0162	<ProtocolVersionMinor type="Integer" value="2"/>
0163	</ProtocolVersion>
0164	<BatchCount type="Integer" value="1"/>
0165	</RequestHeader>
0166	<BatchItem>
0167	<Operation type="Enumeration" value="Activate"/>
0168	<RequestPayload>
0169	<UniqueIdentifier type="TextString"
0170	value="\$UNIQUE_IDENTIFIER_0"/>
0171	</RequestPayload>
0172	</BatchItem>
0173	</RequestMessage>
0174	<ResponseMessage>
0175	<ResponseHeader>
0176	<ProtocolVersion>
0177	<ProtocolVersionMajor type="Integer" value="1"/>
0178	<ProtocolVersionMinor type="Integer" value="2"/>
0179	</ProtocolVersion>
0180	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0181	<BatchCount type="Integer" value="1"/>
0182	</ResponseHeader>
0183	<BatchItem>
0184	<Operation type="Enumeration" value="Activate"/>
0185	<ResultStatus type="Enumeration" value="Success"/>
0186	<ResponsePayload>
0187	<UniqueIdentifier type="TextString"
0188	value="\$UNIQUE_IDENTIFIER_0"/>
0189	</ResponsePayload>
0190	</BatchItem>
0191	</ResponseMessage>
0192	# TIME 3
0193	<RequestMessage>
0194	<RequestHeader>
0195	<ProtocolVersion>
0196	<ProtocolVersionMajor type="Integer" value="1"/>
0197	<ProtocolVersionMinor type="Integer" value="2"/>
	</ProtocolVersion>
	<BatchCount type="Integer" value="1"/>
	</RequestHeader>
	<BatchItem>
	<Operation type="Enumeration" value="GetAttributes"/>
	<RequestPayload>

0198	<UniqueIdentifier type="TextString"
0199	value="\$UNIQUE_IDENTIFIER_0"/>
0200	<AttributeName type="TextString" value="State"/>
0201	<AttributeName type="TextString" value="Activation Date"/>
0202	<AttributeName type="TextString" value="Deactivation Date"/>
0203	</RequestPayload>
0204	</BatchItem>
0205	</RequestMessage>
0206	<ResponseMessage>
0207	<ResponseHeader>
0208	<ProtocolVersion>
0209	<ProtocolVersionMajor type="Integer" value="1"/>
0210	<ProtocolVersionMinor type="Integer" value="2"/>
0211	</ProtocolVersion>
0212	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0213	<BatchCount type="Integer" value="1"/>
0214	</ResponseHeader>
0215	<BatchItem>
0216	<Operation type="Enumeration" value="GetAttributes"/>
0217	<ResultStatus type="Enumeration" value="Success"/>
0218	<ResponsePayload>
0219	<UniqueIdentifier type="TextString"
0220	value="\$UNIQUE_IDENTIFIER_0"/>
0221	<Attribute>
0222	<AttributeName type="TextString" value="State"/>
0223	<AttributeValue type="Enumeration" value="Active"/>
0224	</Attribute>
0225	<Attribute>
0226	<AttributeName type="TextString" value="Activation Date"/>
0227	<AttributeValue type="DateTime" value="2013-01-
0228	10T23:36:01+00:00"/>
0229	</Attribute>
0230	</ResponsePayload>
0231	</BatchItem>
0232	</ResponseMessage>
0233	# TIME 4
0234	<RequestMessage>
0235	<RequestHeader>
0236	<ProtocolVersion>
0237	<ProtocolVersionMajor type="Integer" value="1"/>
0238	<ProtocolVersionMinor type="Integer" value="2"/>
0239	</ProtocolVersion>
0240	<BatchCount type="Integer" value="1"/>
0241	</RequestHeader>
0242	<BatchItem>
0243	<Operation type="Enumeration" value="ModifyAttribute"/>
0244	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0245	<RequestPayload>
0246	<UniqueIdentifier type="TextString"
0247	value="\$UNIQUE_IDENTIFIER_0"/>
0248	<Attribute>
0249	<AttributeName type="TextString" value="Activation Date"/>
0250	<AttributeValue type="DateTime" value="\$NOW"/>
	</Attribute>
	</RequestPayload>
	</BatchItem>
	</RequestMessage>
	<ResponseMessage>

0251	<ResponseHeader>
0252	<ProtocolVersion>
0253	<ProtocolVersionMajor type="Integer" value="1"/>
0254	<ProtocolVersionMinor type="Integer" value="2"/>
0255	</ProtocolVersion>
0256	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0257	<BatchCount type="Integer" value="1"/>
0258	</ResponseHeader>
0259	<BatchItem>
0260	<Operation type="Enumeration" value="ModifyAttribute"/>
0261	<UniqueBatchItemID type="ByteString" value="0752c951bb9926cc"/>
0262	<ResultStatus type="Enumeration" value="OperationFailed"/>
0263	<ResultReason type="Enumeration" value="PermissionDenied"/>
0264	<ResultMessage type="TextString" value="DENIED"/>
0265	</BatchItem>
0266	</ResponseMessage>
	# TIME 5
0267	<RequestMessage>
0268	<RequestHeader>
0269	<ProtocolVersion>
0270	<ProtocolVersionMajor type="Integer" value="1"/>
0271	<ProtocolVersionMinor type="Integer" value="2"/>
0272	</ProtocolVersion>
0273	<BatchCount type="Integer" value="1"/>
0274	</RequestHeader>
0275	<BatchItem>
0276	<Operation type="Enumeration" value="Revoke"/>
0277	<RequestPayload>
0278	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0279	<RevocationReason>
0280	<RevocationReasonCode type="Enumeration"
	value="KeyCompromise"/>
0281	</RevocationReason>
0282	<CompromiseOccurrenceDate type="DateTime" value="1970-01-
	01T00:00:06+00:00"/>
0283	</RequestPayload>
0284	</BatchItem>
0285	</RequestMessage>
0286	<ResponseMessage>
0287	<ResponseHeader>
0288	<ProtocolVersion>
0289	<ProtocolVersionMajor type="Integer" value="1"/>
0290	<ProtocolVersionMinor type="Integer" value="2"/>
0291	</ProtocolVersion>
0292	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0293	<BatchCount type="Integer" value="1"/>
0294	</ResponseHeader>
0295	<BatchItem>
0296	<Operation type="Enumeration" value="Revoke"/>
0297	<ResultStatus type="Enumeration" value="Success"/>
0298	<ResponsePayload>
0299	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0300	</ResponsePayload>
0301	</BatchItem>
0302	</ResponseMessage>
	# TIME 6

0303	<RequestMessage>
0304	<RequestHeader>
0305	<ProtocolVersion>
0306	<ProtocolVersionMajor type="Integer" value="1"/>
0307	<ProtocolVersionMinor type="Integer" value="2"/>
0308	</ProtocolVersion>
0309	<BatchCount type="Integer" value="1"/>
0310	</RequestHeader>
0311	<BatchItem>
0312	<Operation type="Enumeration" value="GetAttributes"/>
0313	<RequestPayload>
0314	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0315	<AttributeName type="TextString" value="State"/>
0316	</RequestPayload>
0317	</BatchItem>
0318	</RequestMessage>
0319	<ResponseMessage>
0320	<ResponseHeader>
0321	<ProtocolVersion>
0322	<ProtocolVersionMajor type="Integer" value="1"/>
0323	<ProtocolVersionMinor type="Integer" value="2"/>
0324	</ProtocolVersion>
0325	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0326	<BatchCount type="Integer" value="1"/>
0327	</ResponseHeader>
0328	<BatchItem>
0329	<Operation type="Enumeration" value="GetAttributes"/>
0330	<ResultStatus type="Enumeration" value="Success"/>
0331	<ResponsePayload>
0332	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0333	<Attribute>
0334	<AttributeName type="TextString" value="State"/>
0335	<AttributeValue type="Enumeration" value="Compromised"/>
0336	</Attribute>
0337	</ResponsePayload>
0338	</BatchItem>
0339	</ResponseMessage>
	# TIME 7
0340	<RequestMessage>
0341	<RequestHeader>
0342	<ProtocolVersion>
0343	<ProtocolVersionMajor type="Integer" value="1"/>
0344	<ProtocolVersionMinor type="Integer" value="2"/>
0345	</ProtocolVersion>
0346	<BatchCount type="Integer" value="1"/>
0347	</RequestHeader>
0348	<BatchItem>
0349	<Operation type="Enumeration" value="GetAttributes"/>
0350	<RequestPayload>
0351	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0352	<AttributeName type="TextString" value="State"/>
0353	</RequestPayload>
0354	</BatchItem>
0355	</RequestMessage>
0356	<ResponseMessage>

0357	<ResponseHeader>
0358	<ProtocolVersion>
0359	<ProtocolVersionMajor type="Integer" value="1"/>
0360	<ProtocolVersionMinor type="Integer" value="2"/>
0361	</ProtocolVersion>
0362	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0363	<BatchCount type="Integer" value="1"/>
0364	</ResponseHeader>
0365	<BatchItem>
0366	<Operation type="Enumeration" value="GetAttributes"/>
0367	<ResultStatus type="Enumeration" value="Success"/>
0368	<ResponsePayload>
0369	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0370	<Attribute>
0371	<AttributeName type="TextString" value="State"/>
0372	<AttributeValue type="Enumeration" value="PreActive"/>
0373	</Attribute>
0374	</ResponsePayload>
0375	</BatchItem>
0376	</ResponseMessage>
# TIME 8	
0377	<RequestMessage>
0378	<RequestHeader>
0379	<ProtocolVersion>
0380	<ProtocolVersionMajor type="Integer" value="1"/>
0381	<ProtocolVersionMinor type="Integer" value="2"/>
0382	</ProtocolVersion>
0383	<BatchCount type="Integer" value="1"/>
0384	</RequestHeader>
0385	<BatchItem>
0386	<Operation type="Enumeration" value="Destroy"/>
0387	<RequestPayload>
0388	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0389	</RequestPayload>
0390	</BatchItem>
0391	</RequestMessage>
0392	<ResponseMessage>
0393	<ResponseHeader>
0394	<ProtocolVersion>
0395	<ProtocolVersionMajor type="Integer" value="1"/>
0396	<ProtocolVersionMinor type="Integer" value="2"/>
0397	</ProtocolVersion>
0398	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0399	<BatchCount type="Integer" value="1"/>
0400	</ResponseHeader>
0401	<BatchItem>
0402	<Operation type="Enumeration" value="Destroy"/>
0403	<ResultStatus type="Enumeration" value="Success"/>
0404	<ResponsePayload>
0405	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0406	</ResponsePayload>
0407	</BatchItem>
0408	</ResponseMessage>
# TIME 9	
0409	<RequestMessage>

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

130

131 3.4 Optional Test Cases KMIP v1.0

132 3.4.1 AKLC-O-1-10

133 CreateKeyPair, GetAttributes, Destroy, GetAttributes

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

0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-O-1-10-private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-O-1-10-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="0"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2013-01-11T08:32:04+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString"

0066	value="\$UNIQUE_IDENTIFIER_1"/>
0067	</ResponsePayload>
0068	</BatchItem>
0069	</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>
	# TIME 2
0150	<RequestMessage>
0151	<RequestHeader>
0152	<ProtocolVersion>
0153	<ProtocolVersionMajor type="Integer" value="1"/>
0154	<ProtocolVersionMinor type="Integer" value="0"/>
0155	</ProtocolVersion>
0156	<BatchCount type="Integer" value="1"/>
0157	</RequestHeader>
0158	<BatchItem>
0159	<Operation type="Enumeration" value="Destroy"/>
0160	<RequestPayload>
0161	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0162	</RequestPayload>
0163	</BatchItem>
0164	</RequestMessage>

0165	<ResponseMessage>
0166	<ResponseHeader>
0167	<ProtocolVersion>
0168	<ProtocolVersionMajor type="Integer" value="1"/>
0169	<ProtocolVersionMinor type="Integer" value="0"/>
0170	</ProtocolVersion>
0171	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0172	<BatchCount type="Integer" value="1"/>
0173	</ResponseHeader>
0174	<BatchItem>
0175	<Operation type="Enumeration" value="Destroy"/>
0176	<ResultStatus type="Enumeration" value="Success"/>
0177	<ResponsePayload>
0178	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0179	</ResponsePayload>
0180	</BatchItem>
0181	</ResponseMessage>
# TIME 3	
0182	<RequestMessage>
0183	<RequestHeader>
0184	<ProtocolVersion>
0185	<ProtocolVersionMajor type="Integer" value="1"/>
0186	<ProtocolVersionMinor type="Integer" value="0"/>
0187	</ProtocolVersion>
0188	<BatchCount type="Integer" value="1"/>
0189	</RequestHeader>
0190	<BatchItem>
0191	<Operation type="Enumeration" value="GetAttributes"/>
0192	<RequestPayload>
0193	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0194	</RequestPayload>
0195	</BatchItem>
0196	</RequestMessage>
0197	<ResponseMessage>
0198	<ResponseHeader>
0199	<ProtocolVersion>
0200	<ProtocolVersionMajor type="Integer" value="1"/>
0201	<ProtocolVersionMinor type="Integer" value="0"/>
0202	</ProtocolVersion>
0203	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0204	<BatchCount type="Integer" value="1"/>
0205	</ResponseHeader>
0206	<BatchItem>
0207	<Operation type="Enumeration" value="GetAttributes"/>
0208	<ResultStatus type="Enumeration" value="Success"/>
0209	<ResponsePayload>
0210	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0211	<Attribute>
0212	<AttributeName type="TextString" value="Unique Identifier"/>
0213	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0214	</Attribute>
0215	<Attribute>
0216	<AttributeName type="TextString" value="Object Type"/>
0217	<AttributeValue type="Enumeration" value="PrivateKey"/>

0218	</Attribute>
0219	<Attribute>
0220	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0221	<AttributeValue type="Enumeration" value="RSA"/>
0222	</Attribute>
0223	<Attribute>
0224	<AttributeName type="TextString" value="Cryptographic Length"/>
0225	<AttributeValue type="Integer" value="2048"/>
0226	</Attribute>
0227	<Attribute>
0228	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0229	<AttributeValue type="Integer" value="Sign"/>
0230	</Attribute>
0231	<Attribute>
0232	<AttributeName type="TextString" value="Destroy Date"/>
0233	<AttributeValue type="DateTime" value="2013-01-11T08:40:05+00:00"/>
0234	</Attribute>
0235	<Attribute>
0236	<AttributeName type="TextString" value="Digest"/>
0237	<AttributeValue>
0238	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0239	<DigestValue type="ByteString" value="4abc48c2ba00a6bba22cb6fc2827b46107354968872b395edb31354e78878be6"/>
0240	</AttributeValue>
0241	</Attribute>
0242	<Attribute>
0243	<AttributeName type="TextString" value="Initial Date"/>
0244	<AttributeValue type="DateTime" value="2013-01-11T08:40:05+00:00"/>
0245	</Attribute>
0246	<Attribute>
0247	<AttributeName type="TextString" value="Last Change Date"/>
0248	<AttributeValue type="DateTime" value="2013-01-11T08:40:05+00:00"/>
0249	</Attribute>
0250	<Attribute>
0251	<AttributeName type="TextString" value="Lease Time"/>
0252	<AttributeValue type="Interval" value="3600"/>
0253	</Attribute>
0254	<Attribute>
0255	<AttributeName type="TextString" value="Link"/>
0256	<AttributeValue>
0257	<LinkType type="Enumeration" value="PublicKeyLink"/>
0258	<LinkedObjectIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0259	</AttributeValue>
0260	</Attribute>
0261	<Attribute>
0262	<AttributeName type="TextString" value="Name"/>
0263	<AttributeValue>
0264	<NameValue type="TextString" value="AKLC-O-1-10-private"/>
0265	<NameType type="Enumeration" value="UninterpretedTextString"/>

0266	</AttributeValue>
0267	</Attribute>
0268	<Attribute>
0269	<AttributeName type="TextString" value="State"/>
0270	<AttributeValue type="Enumeration" value="Destroyed"/>
0271	</Attribute>
0272	</ResponsePayload>
0273	</BatchItem>
0274	</ResponseMessage>
# TIME 4	
0275	<RequestMessage>
0276	<RequestHeader>
0277	<ProtocolVersion>
0278	<ProtocolVersionMajor type="Integer" value="1"/>
0279	<ProtocolVersionMinor type="Integer" value="0"/>
0280	</ProtocolVersion>
0281	<BatchCount type="Integer" value="1"/>
0282	</RequestHeader>
0283	<BatchItem>
0284	<Operation type="Enumeration" value="GetAttributes"/>
0285	<RequestPayload>
0286	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0287	</RequestPayload>
0288	</BatchItem>
0289	</RequestMessage>
0290	<ResponseMessage>
0291	<ResponseHeader>
0292	<ProtocolVersion>
0293	<ProtocolVersionMajor type="Integer" value="1"/>
0294	<ProtocolVersionMinor type="Integer" value="0"/>
0295	</ProtocolVersion>
0296	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0297	<BatchCount type="Integer" value="1"/>
0298	</ResponseHeader>
0299	<BatchItem>
0300	<Operation type="Enumeration" value="GetAttributes"/>
0301	<ResultStatus type="Enumeration" value="Success"/>
0302	<ResponsePayload>
0303	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0304	<Attribute>
0305	<AttributeName type="TextString" value="Unique Identifier"/>
0306	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0307	</Attribute>
0308	<Attribute>
0309	<AttributeName type="TextString" value="Object Type"/>
0310	<AttributeValue type="Enumeration" value="PublicKey"/>
0311	</Attribute>
0312	<Attribute>
0313	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0314	<AttributeValue type="Enumeration" value="RSA"/>
0315	</Attribute>
0316	<Attribute>
0317	<AttributeName type="TextString" value="Cryptographic
	Length"/>

0318	<AttributeValue type="Integer" value="2048"/>
0319	</Attribute>
0320	<Attribute>
0321	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0322	<AttributeValue type="Integer" value="Verify"/>
0323	</Attribute>
0324	<Attribute>
0325	<AttributeName type="TextString" value="Digest"/>
0326	<AttributeValue>
0327	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0328	<DigestValue type="ByteString" value="330306b0e337e32dd1b5acf92cb96fd39adb802f305e7406062248324816f445"/>
0329	</AttributeValue>
0330	</Attribute>
0331	<Attribute>
0332	<AttributeName type="TextString" value="Initial Date"/>
0333	<AttributeValue type="DateTime" value="2013-01-11T08:37:43+00:00"/>
0334	</Attribute>
0335	<Attribute>
0336	<AttributeName type="TextString" value="Last Change Date"/>
0337	<AttributeValue type="DateTime" value="2013-01-11T08:37:43+00:00"/>
0338	</Attribute>
0339	<Attribute>
0340	<AttributeName type="TextString" value="Lease Time"/>
0341	<AttributeValue type="Interval" value="3600"/>
0342	</Attribute>
0343	<Attribute>
0344	<AttributeName type="TextString" value="Link"/>
0345	<AttributeValue>
0346	<LinkType type="Enumeration" value="PrivateKeyLink"/>
0347	<LinkedObjectIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0348	</AttributeValue>
0349	</Attribute>
0350	<Attribute>
0351	<AttributeName type="TextString" value="Name"/>
0352	<AttributeValue>
0353	<NameValue type="TextString" value="AKLC-O-1-10-public"/>
0354	<NameType type="Enumeration" value="UninterpretedTextString"/>
0355	</AttributeValue>
0356	</Attribute>
0357	<Attribute>
0358	<AttributeName type="TextString" value="State"/>
0359	<AttributeValue type="Enumeration" value="PreActive"/>
0360	</Attribute>
0361	</ResponsePayload>
0362	</BatchItem>
0363	</ResponseMessage>
	# TIME 5
0364	<RequestMessage>
0365	<RequestHeader>
0366	<ProtocolVersion>
0367	<ProtocolVersionMajor type="Integer" value="1"/>

0368	<ProtocolVersionMinor type="Integer" value="0"/>
0369	</ProtocolVersion>
0370	<BatchCount type="Integer" value="1"/>
0371	</RequestHeader>
0372	<BatchItem>
0373	<Operation type="Enumeration" value="Destroy"/>
0374	<RequestPayload>
0375	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0376	</RequestPayload>
0377	</BatchItem>
0378	</RequestMessage>
0379	<ResponseMessage>
0380	<ResponseHeader>
0381	<ProtocolVersion>
0382	<ProtocolVersionMajor type="Integer" value="1"/>
0383	<ProtocolVersionMinor type="Integer" value="0"/>
0384	</ProtocolVersion>
0385	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0386	<BatchCount type="Integer" value="1"/>
0387	</ResponseHeader>
0388	<BatchItem>
0389	<Operation type="Enumeration" value="Destroy"/>
0390	<ResultStatus type="Enumeration" value="Success"/>
0391	<ResponsePayload>
0392	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0393	</ResponsePayload>
0394	</BatchItem>
0395	</ResponseMessage>
	# TIME 6
0396	<RequestMessage>
0397	<RequestHeader>
0398	<ProtocolVersion>
0399	<ProtocolVersionMajor type="Integer" value="1"/>
0400	<ProtocolVersionMinor type="Integer" value="0"/>
0401	</ProtocolVersion>
0402	<BatchCount type="Integer" value="1"/>
0403	</RequestHeader>
0404	<BatchItem>
0405	<Operation type="Enumeration" value="GetAttributes"/>
0406	<RequestPayload>
0407	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0408	</RequestPayload>
0409	</BatchItem>
0410	</RequestMessage>
0411	<ResponseMessage>
0412	<ResponseHeader>
0413	<ProtocolVersion>
0414	<ProtocolVersionMajor type="Integer" value="1"/>
0415	<ProtocolVersionMinor type="Integer" value="0"/>
0416	</ProtocolVersion>
0417	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0418	<BatchCount type="Integer" value="1"/>
0419	</ResponseHeader>
0420	<BatchItem>
0421	<Operation type="Enumeration" value="GetAttributes"/>

```

0422     <ResultStatus type="Enumeration" value="Success"/>
0423     <ResponsePayload>
0424         <UniqueIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0425         <Attribute>
0426             <AttributeName type="TextString" value="Unique Identifier"/>
0427             <AttributeValue type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0428         </Attribute>
0429         <Attribute>
0430             <AttributeName type="TextString" value="Object Type"/>
0431             <AttributeValue type="Enumeration" value="PublicKey"/>
0432         </Attribute>
0433         <Attribute>
0434             <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0435             <AttributeValue type="Enumeration" value="RSA"/>
0436         </Attribute>
0437         <Attribute>
0438             <AttributeName type="TextString" value="Cryptographic
Length"/>
0439             <AttributeValue type="Integer" value="2048"/>
0440         </Attribute>
0441         <Attribute>
0442             <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0443             <AttributeValue type="Integer" value="Verify"/>
0444         </Attribute>
0445         <Attribute>
0446             <AttributeName type="TextString" value="Destroy Date"/>
0447             <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0448         </Attribute>
0449         <Attribute>
0450             <AttributeName type="TextString" value="Digest"/>
0451             <AttributeValue>
0452                 <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0453                 <DigestValue type="ByteString"
value="b06f3e3d107a282adb5fe316356d13679d7cf7429d14a6f20665f45ba4d28
83c"/>
0454             </AttributeValue>
0455         </Attribute>
0456         <Attribute>
0457             <AttributeName type="TextString" value="Initial Date"/>
0458             <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0459         </Attribute>
0460         <Attribute>
0461             <AttributeName type="TextString" value="Last Change Date"/>
0462             <AttributeValue type="DateTime" value="2013-01-
11T08:38:18+00:00"/>
0463         </Attribute>
0464         <Attribute>
0465             <AttributeName type="TextString" value="Lease Time"/>
0466             <AttributeValue type="Interval" value="3600"/>
0467         </Attribute>
0468         <Attribute>
0469             <AttributeName type="TextString" value="Link"/>

```

0470	<AttributeValue>
0471	<LinkType type="Enumeration" value="PrivateKeyLink"/>
0472	<LinkedObjectIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0473	</AttributeValue>
0474	</Attribute>
0475	<Attribute>
0476	<AttributeName type="TextString" value="Name"/>
0477	<AttributeValue>
0478	<NameValue type="TextString" value="AKLC-O-1-10-public"/>
0479	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0480	</AttributeValue>
0481	</Attribute>
0482	<Attribute>
0483	<AttributeName type="TextString" value="State"/>
0484	<AttributeValue type="Enumeration" value="Destroyed"/>
0485	</Attribute>
0486	</ResponsePayload>
0487	</BatchItem>
0488	</ResponseMessage>

134

135 3.5 Optional Test Cases KMIP v1.1

136 3.5.1 AKLC-O-1-11

137 CreateKeyPair, GetAttributes, Destroy, GetAttributes

	# TIME 0
0001	<RequestMessage>
0002	<RequestHeader>
0003	<ProtocolVersion>
0004	<ProtocolVersionMajor type="Integer" value="1"/>
0005	<ProtocolVersionMinor type="Integer" value="1"/>
0006	</ProtocolVersion>
0007	<BatchCount type="Integer" value="1"/>
0008	</RequestHeader>
0009	<BatchItem>
0010	<Operation type="Enumeration" value="CreateKeyPair"/>
0011	<RequestPayload>
0012	<CommonTemplateAttribute>
0013	<Attribute>
0014	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0015	<AttributeValue type="Enumeration" value="RSA"/>
0016	</Attribute>
0017	<Attribute>
0018	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0019	<AttributeValue type="Integer" value="2048"/>
0020	</Attribute>
0021	</CommonTemplateAttribute>
0022	<PrivateKeyTemplateAttribute>
0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-O-1-11-

0027	private"/>
0028	<NameType type="Enumeration"
0029	value="UninterpretedTextString"/>
0030	</AttributeValue>
0031	</Attribute>
0032	<Attribute type="TextString" value="Cryptographic
0033	Usage Mask"/>
0034	<AttributeValue type="Integer" value="Sign"/>
0035	</Attribute>
0036	</PrivateKeyTemplateAttribute>
0037	<PublicKeyTemplateAttribute>
0038	<Attribute
0039	<AttributeName type="TextString" value="Name"/>
0040	<AttributeValue
0041	<NameValue type="TextString" value="AKLC-O-1-11-
0042	public"/>
0043	<NameType type="Enumeration"
0044	value="UninterpretedTextString"/>
0045	</AttributeValue>
0046	</Attribute>
0047	<Attribute
0048	<AttributeName type="TextString" value="Cryptographic
0049	Usage Mask"/>
0050	<AttributeValue type="Integer" value="Verify"/>
0051	</Attribute>
0052	</PublicKeyTemplateAttribute>
0053	</RequestPayload>
0054	</BatchItem>
0055	</RequestMessage>
0056	<ResponseMessage>
0057	<ResponseHeader>
0058	<ProtocolVersion>
0059	<ProtocolVersionMajor type="Integer" value="1"/>
0060	<ProtocolVersionMinor type="Integer" value="1"/>
0061	</ProtocolVersion>
0062	<TimeStamp type="DateTime" value="2013-01-11T08:32:04+00:00"/>
0063	<BatchCount type="Integer" value="1"/>
0064	</ResponseHeader>
0065	<BatchItem>
0066	<Operation type="Enumeration" value="CreateKeyPair"/>
0067	<ResultStatus type="Enumeration" value="Success"/>
0068	<ResponsePayload>
0069	<PrivateKeyUniqueIdentifier type="TextString"
0070	value="\$UNIQUE_IDENTIFIER_0"/>
0071	<PublicKeyUniqueIdentifier type="TextString"
0072	value="\$UNIQUE_IDENTIFIER_1"/>
0073	</ResponsePayload>
0074	</BatchItem>
0075	</ResponseMessage>
0069	# TIME 1
0070	<RequestMessage>
0071	<RequestHeader>
0072	<ProtocolVersion>
0073	<ProtocolVersionMajor type="Integer" value="1"/>
0074	<ProtocolVersionMinor type="Integer" value="1"/>
0075	</ProtocolVersion>
	<BatchCount type="Integer" value="1"/>

0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Activation Date"/>
0091	</RequestPayload>
0092	</BatchItem>
0093	</RequestMessage>
0094	<ResponseMessage>
0095	<ResponseHeader>
0096	<ProtocolVersion>
0097	<ProtocolVersionMajor type="Integer" value="1"/>
0098	<ProtocolVersionMinor type="Integer" value="1"/>
0099	</ProtocolVersion>
0100	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0101	<BatchCount type="Integer" value="1"/>
0102	</ResponseHeader>
0103	<BatchItem>
0104	<Operation type="Enumeration" value="GetAttributes"/>
0105	<ResultStatus type="Enumeration" value="Success"/>
0106	<ResponsePayload>
0107	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0108	<Attribute>
0109	<AttributeName type="TextString" value="State"/>
0110	<AttributeValue type="Enumeration" value="PreActive"/>
0111	</Attribute>
0112	<Attribute>
0113	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0114	<AttributeValue type="Integer" value="Sign"/>
0115	</Attribute>
0116	<Attribute>
0117	<AttributeName type="TextString" value="Unique Identifier"/>
0118	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0119	</Attribute>
0120	<Attribute>
0121	<AttributeName type="TextString" value="Object Type"/>
0122	<AttributeValue type="Enumeration" value="PrivateKey"/>
0123	</Attribute>
0124	<Attribute>
0125	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>

0126	<AttributeValue type="Enumeration" value="RSA"/>
0127	</Attribute>
0128	<Attribute>
0129	<AttributeName type="TextString" value="Cryptographic Length"/>
0130	<AttributeValue type="Integer" value="2048"/>
0131	</Attribute>
0132	<Attribute>
0133	<AttributeName type="TextString" value="Digest"/>
0134	<AttributeValue>
0135	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0136	<DigestValue type="ByteString" value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9230"/>
0137	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0138	</AttributeValue>
0139	</Attribute>
0140	<Attribute>
0141	<AttributeName type="TextString" value="Initial Date"/>
0142	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0143	</Attribute>
0144	<Attribute>
0145	<AttributeName type="TextString" value="Last Change Date"/>
0146	<AttributeValue type="DateTime" value="2013-01-11T08:18:21+00:00"/>
0147	</Attribute>
0148	</ResponsePayload>
0149	</BatchItem>
0150	</ResponseMessage>
# TIME 2	
0151	<RequestMessage>
0152	<RequestHeader>
0153	<ProtocolVersion>
0154	<ProtocolVersionMajor type="Integer" value="1"/>
0155	<ProtocolVersionMinor type="Integer" value="1"/>
0156	</ProtocolVersion>
0157	<BatchCount type="Integer" value="1"/>
0158	</RequestHeader>
0159	<BatchItem>
0160	<Operation type="Enumeration" value="Destroy"/>
0161	<RequestPayload>
0162	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0163	</RequestPayload>
0164	</BatchItem>
0165	</RequestMessage>
0166	<ResponseMessage>
0167	<ResponseHeader>
0168	<ProtocolVersion>
0169	<ProtocolVersionMajor type="Integer" value="1"/>
0170	<ProtocolVersionMinor type="Integer" value="1"/>
0171	</ProtocolVersion>
0172	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0173	<BatchCount type="Integer" value="1"/>
0174	</ResponseHeader>
0175	<BatchItem>
0176	<Operation type="Enumeration" value="Destroy"/>

0177	<ResultStatus type="Enumeration" value="Success"/>
0178	<ResponsePayload>
0179	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0180	</ResponsePayload>
0181	</BatchItem>
0182	</ResponseMessage>
# TIME 3	
0183	<RequestMessage>
0184	<RequestHeader>
0185	<ProtocolVersion>
0186	<ProtocolVersionMajor type="Integer" value="1"/>
0187	<ProtocolVersionMinor type="Integer" value="1"/>
0188	</ProtocolVersion>
0189	<BatchCount type="Integer" value="1"/>
0190	</RequestHeader>
0191	<BatchItem>
0192	<Operation type="Enumeration" value="GetAttributes"/>
0193	<RequestPayload>
0194	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0195	</RequestPayload>
0196	</BatchItem>
0197	</RequestMessage>
0198	<ResponseMessage>
0199	<ResponseHeader>
0200	<ProtocolVersion>
0201	<ProtocolVersionMajor type="Integer" value="1"/>
0202	<ProtocolVersionMinor type="Integer" value="1"/>
0203	</ProtocolVersion>
0204	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0205	<BatchCount type="Integer" value="1"/>
0206	</ResponseHeader>
0207	<BatchItem>
0208	<Operation type="Enumeration" value="GetAttributes"/>
0209	<ResultStatus type="Enumeration" value="Success"/>
0210	<ResponsePayload>
0211	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0212	<Attribute>
0213	<AttributeName type="TextString" value="Unique Identifier"/>
0214	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0215	</Attribute>
0216	<Attribute>
0217	<AttributeName type="TextString" value="Object Type"/>
0218	<AttributeValue type="Enumeration" value="PrivateKey"/>
0219	</Attribute>
0220	<Attribute>
0221	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0222	<AttributeValue type="Enumeration" value="RSA"/>
0223	</Attribute>
0224	<Attribute>
0225	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0226	<AttributeValue type="Integer" value="2048"/>
0227	</Attribute>

```

0228     <Attribute>
0229     <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0230     <AttributeValue type="Integer" value="Sign"/>
0231     </Attribute>
0232     <Attribute>
0233     <AttributeName type="TextString" value="Destroy Date"/>
0234     <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0235     </Attribute>
0236     <Attribute>
0237     <AttributeName type="TextString" value="Digest"/>
0238     <AttributeValue>
0239     <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0240     <DigestValue type="ByteString"
value="4abc48c2ba00a6bba22cb6fc2827b46107354968872b395edb31354e78878
be6"/>
0241     <KeyFormatType type="Enumeration" value="PKCS_1"/>
0242     </AttributeValue>
0243     </Attribute>
0244     <Attribute>
0245     <AttributeName type="TextString" value="Fresh"/>
0246     <AttributeValue type="Boolean" value="true"/>
0247     </Attribute>
0248     <Attribute>
0249     <AttributeName type="TextString" value="Initial Date"/>
0250     <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0251     </Attribute>
0252     <Attribute>
0253     <AttributeName type="TextString" value="Last Change Date"/>
0254     <AttributeValue type="DateTime" value="2013-01-
11T08:40:05+00:00"/>
0255     </Attribute>
0256     <Attribute>
0257     <AttributeName type="TextString" value="Lease Time"/>
0258     <AttributeValue type="Interval" value="3600"/>
0259     </Attribute>
0260     <Attribute>
0261     <AttributeName type="TextString" value="Link"/>
0262     <AttributeValue>
0263     <LinkType type="Enumeration" value="PublicKeyLink"/>
0264     <LinkedObjectIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_1"/>
0265     </AttributeValue>
0266     </Attribute>
0267     <Attribute>
0268     <AttributeName type="TextString" value="Name"/>
0269     <AttributeValue>
0270     <NameValue type="TextString" value="AKLC-O-1-11-private"/>
0271     <NameType type="Enumeration"
value="UninterpretedTextString"/>
0272     </AttributeValue>
0273     </Attribute>
0274     <Attribute>
0275     <AttributeName type="TextString" value="State"/>
0276     <AttributeValue type="Enumeration" value="Destroyed"/>
0277     </Attribute>

```

0278	</ResponsePayload>
0279	</BatchItem>
0280	</ResponseMessage>
0281	# TIME 4
0282	<RequestMessage>
0283	<RequestHeader>
0284	<ProtocolVersion>
0285	<ProtocolVersionMajor type="Integer" value="1"/>
0286	<ProtocolVersionMinor type="Integer" value="1"/>
0287	</ProtocolVersion>
0288	<BatchCount type="Integer" value="1"/>
0289	</BatchCount>
0290	<RequestPayload>
0291	<UniqueIdentifier type="TextString"
0292	value="\$UNIQUE_IDENTIFIER_1"/>
0293	</UniqueIdentifier>
0294	</RequestPayload>
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	</BatchCount>
0305	<ResponsePayload>
0306	<UniqueIdentifier type="TextString"
0307	value="\$UNIQUE_IDENTIFIER_1"/>
0308	<Attribute>
0309	<AttributeName type="TextString" value="Unique Identifier"/>
0310	<AttributeValue type="TextString"
0311	value="\$UNIQUE_IDENTIFIER_1"/>
0312	</Attribute>
0313	<Attribute>
0314	<AttributeName type="TextString" value="Object Type"/>
0315	<AttributeValue type="Enumeration" value="PublicKey"/>
0316	</Attribute>
0317	<Attribute>
0318	<AttributeName type="TextString" value="Cryptographic"
0319	Algorithm"/>
0320	<AttributeValue type="Enumeration" value="RSA"/>
0321	</Attribute>
0322	<Attribute>
0323	<AttributeName type="TextString" value="Cryptographic"
0324	Length"/>
0325	<AttributeValue type="Integer" value="2048"/>
0326	</Attribute>
0327	<Attribute>
0328	<AttributeName type="TextString" value="Cryptographic Usage"
	Mask"/>
	<AttributeValue type="Integer" value="Verify"/>

0329	</Attribute>
0330	<Attribute>
0331	<AttributeName type="TextString" value="Digest"/>
0332	<AttributeValue>
0333	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0334	<DigestValue type="ByteString"
	value="330306b0e337e32dd1b5acf92cb96fd39adb802f305e7406062248324816f445"/>
0335	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0336	</AttributeValue>
0337	</Attribute>
0338	<Attribute>
0339	<AttributeName type="TextString" value="Fresh"/>
0340	<AttributeValue type="Boolean" value="true"/>
0341	</Attribute>
0342	<Attribute>
0343	<AttributeName type="TextString" value="Initial Date"/>
0344	<AttributeValue type="DateTime" value="2013-01-
	11T08:37:43+00:00"/>
0345	</Attribute>
0346	<Attribute>
0347	<AttributeName type="TextString" value="Last Change Date"/>
0348	<AttributeValue type="DateTime" value="2013-01-
	11T08:37:43+00:00"/>
0349	</Attribute>
0350	<Attribute>
0351	<AttributeName type="TextString" value="Lease Time"/>
0352	<AttributeValue type="Interval" value="3600"/>
0353	</Attribute>
0354	<Attribute>
0355	<AttributeName type="TextString" value="Link"/>
0356	<AttributeValue>
0357	<LinkType type="Enumeration" value="PrivateKeyLink"/>
0358	<LinkedObjectIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0359	</AttributeValue>
0360	</Attribute>
0361	<Attribute>
0362	<AttributeName type="TextString" value="Name"/>
0363	<AttributeValue>
0364	<NameValue type="TextString" value="AKLC-O-1-11-public"/>
0365	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0366	</AttributeValue>
0367	</Attribute>
0368	<Attribute>
0369	<AttributeName type="TextString" value="State"/>
0370	<AttributeValue type="Enumeration" value="PreActive"/>
0371	</Attribute>
0372	</ResponsePayload>
0373	</BatchItem>
0374	</ResponseMessage>
	# TIME 5
0375	<RequestMessage>
0376	<RequestHeader>
0377	<ProtocolVersion>
0378	<ProtocolVersionMajor type="Integer" value="1"/>
0379	<ProtocolVersionMinor type="Integer" value="1"/>

0380	</ProtocolVersion>
0381	<BatchCount type="Integer" value="1"/>
0382	</RequestHeader>
0383	<BatchItem>
0384	<Operation type="Enumeration" value="Destroy"/>
0385	<RequestPayload>
0386	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0387	</RequestPayload>
0388	</BatchItem>
0389	</RequestMessage>
0390	<ResponseMessage>
0391	<ResponseHeader>
0392	<ProtocolVersion>
0393	<ProtocolVersionMajor type="Integer" value="1"/>
0394	<ProtocolVersionMinor type="Integer" value="1"/>
0395	</ProtocolVersion>
0396	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0397	<BatchCount type="Integer" value="1"/>
0398	</ResponseHeader>
0399	<BatchItem>
0400	<Operation type="Enumeration" value="Destroy"/>
0401	<ResultStatus type="Enumeration" value="Success"/>
0402	<ResponsePayload>
0403	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0404	</ResponsePayload>
0405	</BatchItem>
0406	</ResponseMessage>
0407	# TIME 6 <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>

```

138

139 3.6 Optional Test Cases KMIP v1.2

140 3.6.1 AKLC-O-1-12

141 CreateKeyPair, GetAttributes, Destroy, GetAttributes

```

# TIME 0
0001 <RequestMessage>
0002   <RequestHeader>
0003     <ProtocolVersion>
0004       <ProtocolVersionMajor type="Integer" value="1"/>
0005       <ProtocolVersionMinor type="Integer" value="2"/>
0006     </ProtocolVersion>
0007     <BatchCount type="Integer" value="1"/>
0008   </RequestHeader>
0009   <BatchItem>
0010     <Operation type="Enumeration" value="CreateKeyPair"/>
0011     <RequestPayload>
0012       <CommonTemplateAttribute>
0013         <Attribute>
0014           <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0015           <AttributeValue type="Enumeration" value="RSA"/>
0016         </Attribute>
0017         <Attribute>
0018           <AttributeName type="TextString" value="Cryptographic
Length"/>
0019           <AttributeValue type="Integer" value="2048"/>
0020         </Attribute>
0021       </CommonTemplateAttribute>
0022       <PrivateKeyTemplateAttribute>

```

0023	<Attribute>
0024	<AttributeName type="TextString" value="Name"/>
0025	<AttributeValue>
0026	<NameValue type="TextString" value="AKLC-O-1-12-private"/>
0027	<NameType type="Enumeration" value="UninterpretedTextString"/>
0028	</AttributeValue>
0029	</Attribute>
0030	<Attribute>
0031	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0032	<AttributeValue type="Integer" value="Sign"/>
0033	</Attribute>
0034	</PrivateKeyTemplateAttribute>
0035	<PublicKeyTemplateAttribute>
0036	<Attribute>
0037	<AttributeName type="TextString" value="Name"/>
0038	<AttributeValue>
0039	<NameValue type="TextString" value="AKLC-O-1-12-public"/>
0040	<NameType type="Enumeration" value="UninterpretedTextString"/>
0041	</AttributeValue>
0042	</Attribute>
0043	<Attribute>
0044	<AttributeName type="TextString" value="Cryptographic Usage Mask"/>
0045	<AttributeValue type="Integer" value="Verify"/>
0046	</Attribute>
0047	</PublicKeyTemplateAttribute>
0048	</RequestPayload>
0049	</BatchItem>
0050	</RequestMessage>
0051	<ResponseMessage>
0052	<ResponseHeader>
0053	<ProtocolVersion>
0054	<ProtocolVersionMajor type="Integer" value="1"/>
0055	<ProtocolVersionMinor type="Integer" value="2"/>
0056	</ProtocolVersion>
0057	<TimeStamp type="DateTime" value="2013-01-11T08:32:04+00:00"/>
0058	<BatchCount type="Integer" value="1"/>
0059	</ResponseHeader>
0060	<BatchItem>
0061	<Operation type="Enumeration" value="CreateKeyPair"/>
0062	<ResultStatus type="Enumeration" value="Success"/>
0063	<ResponsePayload>
0064	<PrivateKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0065	<PublicKeyUniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_1"/>
0066	</ResponsePayload>
0067	</BatchItem>
0068	</ResponseMessage>
0069	# TIME 1 <RequestMessage>
0070	<RequestHeader>
0071	<ProtocolVersion>

0072	<ProtocolVersionMajor type="Integer" value="1"/>
0073	<ProtocolVersionMinor type="Integer" value="2"/>
0074	</ProtocolVersion>
0075	<BatchCount type="Integer" value="1"/>
0076	</RequestHeader>
0077	<BatchItem>
0078	<Operation type="Enumeration" value="GetAttributes"/>
0079	<RequestPayload>
0080	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0081	<AttributeName type="TextString" value="State"/>
0082	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0083	<AttributeName type="TextString" value="Unique Identifier"/>
0084	<AttributeName type="TextString" value="Object Type"/>
0085	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0086	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0087	<AttributeName type="TextString" value="Digest"/>
0088	<AttributeName type="TextString" value="Initial Date"/>
0089	<AttributeName type="TextString" value="Last Change Date"/>
0090	<AttributeName type="TextString" value="Activation Date"/>
0091	<AttributeName type="TextString" value="Original Creation
	Date"/>
0092	</RequestPayload>
0093	</BatchItem>
0094	</RequestMessage>
0095	<ResponseMessage>
0096	<ResponseHeader>
0097	<ProtocolVersion>
0098	<ProtocolVersionMajor type="Integer" value="1"/>
0099	<ProtocolVersionMinor type="Integer" value="2"/>
0100	</ProtocolVersion>
0101	<TimeStamp type="DateTime" value="2012-04-27T08:12:24+00:00"/>
0102	<BatchCount type="Integer" value="1"/>
0103	</ResponseHeader>
0104	<BatchItem>
0105	<Operation type="Enumeration" value="GetAttributes"/>
0106	<ResultStatus type="Enumeration" value="Success"/>
0107	<ResponsePayload>
0108	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0109	<Attribute>
0110	<AttributeName type="TextString" value="State"/>
0111	<AttributeValue type="Enumeration" value="PreActive"/>
0112	</Attribute>
0113	<Attribute>
0114	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0115	<AttributeValue type="Integer" value="Sign"/>
0116	</Attribute>
0117	<Attribute>
0118	<AttributeName type="TextString" value="Unique Identifier"/>
0119	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0120	</Attribute>
0121	<Attribute>

0122	<AttributeName type="TextString" value="Object Type"/>
0123	<AttributeValue type="Enumeration" value="PrivateKey"/>
0124	</Attribute>
0125	<Attribute>
0126	<AttributeName type="TextString" value="Cryptographic Algorithm"/>
0127	<AttributeValue type="Enumeration" value="RSA"/>
0128	</Attribute>
0129	<Attribute>
0130	<AttributeName type="TextString" value="Cryptographic Length"/>
0131	<AttributeValue type="Integer" value="2048"/>
0132	</Attribute>
0133	<Attribute>
0134	<AttributeName type="TextString" value="Digest"/>
0135	<AttributeValue>
0136	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0137	<DigestValue type="ByteString" value="8eb422ae2b006a05d3c8a542a28536735241b6dc1c37926bc8007bd6220d9 230"/>
0138	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0139	</AttributeValue>
0140	</Attribute>
0141	<Attribute>
0142	<AttributeName type="TextString" value="Initial Date"/>
0143	<AttributeValue type="DateTime" value="2013-01- 11T08:18:21+00:00"/>
0144	</Attribute>
0145	<Attribute>
0146	<AttributeName type="TextString" value="Last Change Date"/>
0147	<AttributeValue type="DateTime" value="2013-01- 11T08:18:21+00:00"/>
0148	</Attribute>
0149	<Attribute>
0150	<AttributeName type="TextString" value="Original Creation Date"/>
0151	<AttributeValue type="DateTime" value="2013-01- 11T08:18:21+00:00"/>
0152	</Attribute>
0153	</ResponsePayload>
0154	</BatchItem>
0155	</ResponseMessage>
0156	# TIME 2 <RequestMessage>
0157	<RequestHeader>
0158	<ProtocolVersion>
0159	<ProtocolVersionMajor type="Integer" value="1"/>
0160	<ProtocolVersionMinor type="Integer" value="2"/>
0161	</ProtocolVersion>
0162	<BatchCount type="Integer" value="1"/>
0163	</RequestHeader>
0164	<BatchItem>
0165	<Operation type="Enumeration" value="Destroy"/>
0166	<RequestPayload>
0167	<UniqueIdentifier type="TextString" value="\$UNIQUE_IDENTIFIER_0"/>
0168	</RequestPayload>
0169	</BatchItem>

0170	</RequestMessage>
0171	<ResponseMessage>
0172	<ResponseHeader>
0173	<ProtocolVersion>
0174	<ProtocolVersionMajor type="Integer" value="1"/>
0175	<ProtocolVersionMinor type="Integer" value="2"/>
0176	</ProtocolVersion>
0177	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0178	<BatchCount type="Integer" value="1"/>
0179	</ResponseHeader>
0180	<BatchItem>
0181	<Operation type="Enumeration" value="Destroy"/>
0182	<ResultStatus type="Enumeration" value="Success"/>
0183	<ResponsePayload>
0184	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0185	</ResponsePayload>
0186	</BatchItem>
0187	</ResponseMessage>
# TIME 3	
0188	<RequestMessage>
0189	<RequestHeader>
0190	<ProtocolVersion>
0191	<ProtocolVersionMajor type="Integer" value="1"/>
0192	<ProtocolVersionMinor type="Integer" value="2"/>
0193	</ProtocolVersion>
0194	<BatchCount type="Integer" value="1"/>
0195	</RequestHeader>
0196	<BatchItem>
0197	<Operation type="Enumeration" value="GetAttributes"/>
0198	<RequestPayload>
0199	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0200	</RequestPayload>
0201	</BatchItem>
0202	</RequestMessage>
0203	<ResponseMessage>
0204	<ResponseHeader>
0205	<ProtocolVersion>
0206	<ProtocolVersionMajor type="Integer" value="1"/>
0207	<ProtocolVersionMinor type="Integer" value="2"/>
0208	</ProtocolVersion>
0209	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0210	<BatchCount type="Integer" value="1"/>
0211	</ResponseHeader>
0212	<BatchItem>
0213	<Operation type="Enumeration" value="GetAttributes"/>
0214	<ResultStatus type="Enumeration" value="Success"/>
0215	<ResponsePayload>
0216	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0217	<Attribute>
0218	<AttributeName type="TextString" value="Unique Identifier"/>
0219	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0220	</Attribute>
0221	</Attribute>
0222	<Attribute type="TextString" value="Object Type"/>

0223	<AttributeValue type="Enumeration" value="PrivateKey"/>
0224	</Attribute>
0225	<Attribute>
0226	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0227	<AttributeValue type="Enumeration" value="RSA"/>
0228	</Attribute>
0229	<Attribute>
0230	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0231	<AttributeValue type="Integer" value="2048"/>
0232	</Attribute>
0233	<Attribute>
0234	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0235	<AttributeValue type="Integer" value="Sign"/>
0236	</Attribute>
0237	<Attribute>
0238	<AttributeName type="TextString" value="Destroy Date"/>
0239	<AttributeValue type="DateTime" value="2013-01-
	11T08:40:05+00:00"/>
0240	</Attribute>
0241	<Attribute>
0242	<AttributeName type="TextString" value="Digest"/>
0243	<AttributeValue>
0244	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0245	<DigestValue type="ByteString"
	value="4abc48c2ba00a6bba22cb6fc2827b46107354968872b395edb31354e78878
	be6"/>
0246	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0247	</AttributeValue>
0248	</Attribute>
0249	<Attribute>
0250	<AttributeName type="TextString" value="Fresh"/>
0251	<AttributeValue type="Boolean" value="true"/>
0252	</Attribute>
0253	<Attribute>
0254	<AttributeName type="TextString" value="Initial Date"/>
0255	<AttributeValue type="DateTime" value="2013-01-
	11T08:40:05+00:00"/>
0256	</Attribute>
0257	<Attribute>
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"
	value="\$UNIQUE_IDENTIFIER_1"/>
0319	<Attribute>
0320	<AttributeName type="TextString" value="Unique Identifier"/>
0321	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0322	</Attribute>

```

0323     <Attribute>
0324         <AttributeName type="TextString" value="Object Type"/>
0325         <AttributeValue type="Enumeration" value="PublicKey"/>
0326     </Attribute>
0327     <Attribute>
0328         <AttributeName type="TextString" value="Cryptographic
Algorithm"/>
0329         <AttributeValue type="Enumeration" value="RSA"/>
0330     </Attribute>
0331     <Attribute>
0332         <AttributeName type="TextString" value="Cryptographic
Length"/>
0333         <AttributeValue type="Integer" value="2048"/>
0334     </Attribute>
0335     <Attribute>
0336         <AttributeName type="TextString" value="Cryptographic Usage
Mask"/>
0337         <AttributeValue type="Integer" value="Verify"/>
0338     </Attribute>
0339     <Attribute>
0340         <AttributeName type="TextString" value="Digest"/>
0341         <AttributeValue>
0342             <HashingAlgorithm type="Enumeration" value="SHA_256"/>
0343             <DigestValue type="ByteString"
value="330306b0e337e32dd1b5acf92cb96fd39adb802f305e7406062248324816f
445"/>
0344         <KeyFormatType type="Enumeration" value="PKCS_1"/>
0345     </AttributeValue>
0346 </Attribute>
0347 <Attribute>
0348     <AttributeName type="TextString" value="Fresh"/>
0349     <AttributeValue type="Boolean" value="true"/>
0350 </Attribute>
0351 <Attribute>
0352     <AttributeName type="TextString" value="Initial Date"/>
0353     <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0354 </Attribute>
0355 <Attribute>
0356     <AttributeName type="TextString" value="Last Change Date"/>
0357     <AttributeValue type="DateTime" value="2013-01-
11T08:37:43+00:00"/>
0358 </Attribute>
0359 <Attribute>
0360     <AttributeName type="TextString" value="Lease Time"/>
0361     <AttributeValue type="Interval" value="3600"/>
0362 </Attribute>
0363 <Attribute>
0364     <AttributeName type="TextString" value="Link"/>
0365     <AttributeValue>
0366         <LinkType type="Enumeration" value="PrivateKeyLink"/>
0367         <LinkedObjectIdentifier type="TextString"
value="$UNIQUE_IDENTIFIER_0"/>
0368     </AttributeValue>
0369 </Attribute>
0370 <Attribute>
0371     <AttributeName type="TextString" value="Name"/>
0372     <AttributeValue>

```


0373	<NameValue type="TextString" value="AKLC-O-1-12-public"/>
0374	<NameType type="Enumeration"
0375	value="UninterpretedTextString"/>
0376	</AttributeValue>
0377	</Attribute>
0378	<AttributeName type="TextString" value="Original Creation
0379	Date"/>
0380	<AttributeValue type="DateTime" value="2013-01-
0381	11T08:37:43+00:00"/>
0382	</Attribute>
0383	<AttributeName type="TextString" value="State"/>
0384	<AttributeValue type="Enumeration" value="PreActive"/>
0385	</Attribute>
0386	</ResponsePayload>
0387	</BatchItem>
0388	</ResponseMessage>
0389	# TIME 5
0390	<RequestMessage>
0391	<RequestHeader>
0392	<ProtocolVersion>
0393	<ProtocolVersionMajor type="Integer" value="1"/>
0394	<ProtocolVersionMinor type="Integer" value="2"/>
0395	</ProtocolVersion>
0396	<BatchCount type="Integer" value="1"/>
0397	</RequestHeader>
0398	<BatchItem>
0399	<Operation type="Enumeration" value="Destroy"/>
0400	<RequestPayload>
0401	<UniqueIdentifier type="TextString"
0402	value="\$UNIQUE_IDENTIFIER_1"/>
0403	</RequestPayload>
0404	</BatchItem>
0405	</RequestMessage>
0406	<ResponseMessage>
0407	<ResponseHeader>
0408	<ProtocolVersion>
0409	<ProtocolVersionMajor type="Integer" value="1"/>
0410	<ProtocolVersionMinor type="Integer" value="2"/>
0411	</ProtocolVersion>
0412	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0413	<BatchCount type="Integer" value="1"/>
0414	</ResponseHeader>
0415	<BatchItem>
0416	<Operation type="Enumeration" value="Destroy"/>
0417	<ResultStatus type="Enumeration" value="Success"/>
0418	<ResponsePayload>
0419	<UniqueIdentifier type="TextString"
0420	value="\$UNIQUE_IDENTIFIER_1"/>
0421	</ResponsePayload>
0422	</BatchItem>
0423	</ResponseMessage>
0420	# TIME 6
0421	<RequestMessage>
0422	<RequestHeader>
0423	<ProtocolVersion>
0424	<ProtocolVersionMajor type="Integer" value="1"/>

0424	<ProtocolVersionMinor type="Integer" value="2"/>
0425	</ProtocolVersion>
0426	<BatchCount type="Integer" value="1"/>
0427	</RequestHeader>
0428	<BatchItem>
0429	<Operation type="Enumeration" value="GetAttributes"/>
0430	<RequestPayload>
0431	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0432	</RequestPayload>
0433	</BatchItem>
0434	</RequestMessage>
0435	<ResponseMessage>
0436	<ResponseHeader>
0437	<ProtocolVersion>
0438	<ProtocolVersionMajor type="Integer" value="1"/>
0439	<ProtocolVersionMinor type="Integer" value="2"/>
0440	</ProtocolVersion>
0441	<TimeStamp type="DateTime" value="2012-04-27T08:12:25+00:00"/>
0442	<BatchCount type="Integer" value="1"/>
0443	</ResponseHeader>
0444	<BatchItem>
0445	<Operation type="Enumeration" value="GetAttributes"/>
0446	<ResultStatus type="Enumeration" value="Success"/>
0447	<ResponsePayload>
0448	<UniqueIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0449	<Attribute>
0450	<AttributeName type="TextString" value="Unique Identifier"/>
0451	<AttributeValue type="TextString"
	value="\$UNIQUE_IDENTIFIER_1"/>
0452	</Attribute>
0453	<Attribute>
0454	<AttributeName type="TextString" value="Object Type"/>
0455	<AttributeValue type="Enumeration" value="PublicKey"/>
0456	</Attribute>
0457	<Attribute>
0458	<AttributeName type="TextString" value="Cryptographic
	Algorithm"/>
0459	<AttributeValue type="Enumeration" value="RSA"/>
0460	</Attribute>
0461	<Attribute>
0462	<AttributeName type="TextString" value="Cryptographic
	Length"/>
0463	<AttributeValue type="Integer" value="2048"/>
0464	</Attribute>
0465	<Attribute>
0466	<AttributeName type="TextString" value="Cryptographic Usage
	Mask"/>
0467	<AttributeValue type="Integer" value="Verify"/>
0468	</Attribute>
0469	<Attribute>
0470	<AttributeName type="TextString" value="Destroy Date"/>
0471	<AttributeValue type="DateTime" value="2013-01-
	11T08:38:18+00:00"/>
0472	</Attribute>
0473	<Attribute>
0474	<AttributeName type="TextString" value="Digest"/>

0475	<AttributeValue>
0476	<HashingAlgorithm type="Enumeration" value="SHA_256"/>
0477	<DigestValue type="ByteString"
	value="b06f3e3d107a282adb5fe316356d13679d7cf7429d14a6f20665f45ba4d28
	83c"/>
0478	<KeyFormatType type="Enumeration" value="PKCS_1"/>
0479	</AttributeValue>
0480	</Attribute>
0481	<Attribute>
0482	<AttributeName type="TextString" value="Fresh"/>
0483	<AttributeValue type="Boolean" value="true"/>
0484	</Attribute>
0485	<Attribute>
0486	<AttributeName type="TextString" value="Initial Date"/>
0487	<AttributeValue type="DateTime" value="2013-01-
	11T08:38:18+00:00"/>
0488	</Attribute>
0489	<Attribute>
0490	<AttributeName type="TextString" value="Last Change Date"/>
0491	<AttributeValue type="DateTime" value="2013-01-
	11T08:38:18+00:00"/>
0492	</Attribute>
0493	<Attribute>
0494	<AttributeName type="TextString" value="Lease Time"/>
0495	<AttributeValue type="Interval" value="3600"/>
0496	</Attribute>
0497	<Attribute>
0498	<AttributeName type="TextString" value="Link"/>
0499	<AttributeValue>
0500	<LinkType type="Enumeration" value="PrivateKeyLink"/>
0501	<LinkedObjectIdentifier type="TextString"
	value="\$UNIQUE_IDENTIFIER_0"/>
0502	</AttributeValue>
0503	</Attribute>
0504	<Attribute>
0505	<AttributeName type="TextString" value="Name"/>
0506	<AttributeValue>
0507	<NameValue type="TextString" value="AKLC-O-1-12-public"/>
0508	<NameType type="Enumeration"
	value="UninterpretedTextString"/>
0509	</AttributeValue>
0510	</Attribute>
0511	<Attribute>
0512	<AttributeName type="TextString" value="Original Creation
	Date"/>
0513	<AttributeValue type="DateTime" value="2013-01-
	11T08:37:43+00:00"/>
0514	</Attribute>
0515	<Attribute>
0516	<AttributeName type="TextString" value="State"/>
0517	<AttributeValue type="Enumeration" value="Destroyed"/>
0518	</Attribute>
0519	</ResponsePayload>
0520	</BatchItem>
0521	</ResponseMessage>

4 Conformance

4.1 Asymmetric Key Lifecycle Client KMIP v1.0 Profile Conformance

KMIP client implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the **Error! Reference source not found.** conditions (**Error! Reference source not found.**) and;
3. SHALL support all Mandatory Test Cases KMIP v1.0 (3.1)

4.2 Asymmetric Key Lifecycle Client KMIP v1.1 Profile Conformance

KMIP client implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the **Error! Reference source not found.** conditions (**Error! Reference source not found.**) and;
3. SHALL support all Mandatory Test Cases KMIP v1.1 (3.2)

4.3 Asymmetric Key Lifecycle Client KMIP v1.2 Profile Conformance

KMIP client implementations conformant to this profile:

1. SHALL support the Authentication Suite conditions (2.1) and;
2. SHALL support the **Error! Reference source not found.** conditions (**Error! Reference source not found.**) and;
3. SHALL support all Mandatory Test Cases KMIP v1.2 (3.3)

4.4 Asymmetric Key Lifecycle Client KMIP v1.0 Profile Conformance

KMIP server implementations conformant to this profile:

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

4.5 Asymmetric Key Lifecycle Client KMIP v1.1 Profile Conformance

KMIP server implementations conformant to this profile:

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

4.6 Asymmetric Key Lifecycle Client KMIP v1.2 Profile Conformance

KMIP server implementations conformant to this profile:

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

4.7 Permitted Test Case Variations

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

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

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

4.7.1 Variable Items

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

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

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

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

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

4.7.2 Variable behavior

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

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

Appendix A. Acknowledgments

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

Participants:

Hal Aldridge, Sypris Electronics
Mike Allen, Symantec
Gordon Arnold, IBM
Todd Arnold, IBM
Richard Austin, Hewlett-Packard
Lars Bagnert, PrimeKey
Elaine Barker, NIST
Peter Bartok, Venafi, Inc.
Tom Benjamin, IBM
Anthony Berglas, Cryptsoft
Mathias Björkqvist, IBM
Kevin Bocket, Venafi
Anne Bolgert, IBM
Alan Brown, Thales e-Security
Tim Bruce, CA Technologies
Chris Burchett, Credant Technologies, Inc.
Kelley Burgin, National Security Agency
Robert Burns, Thales e-Security
Chuck Castleton, Venafi
Kenli Chong, QuintessenceLabs
John Clark, Hewlett-Packard
Tom Clifford, Symantec Corp.
Doron Cohen, SafeNet, Inc.
Tony Cox, Cryptsoft
Russell Dietz, SafeNet, Inc.
Graydon Dodson, Lexmark International Inc.
Vinod Duggirala, EMC Corporation
Chris Dunn, SafeNet, Inc.
Michael Duren, Sypris Electronics
James Dzierzanowski, American Express CCoE
Faisal Faruqui, Thales e-Security
Stan Feather, Hewlett-Packard
David Finkelstein, Symantec Corp.
James Fitzgerald, SafeNet, Inc.
Indra Fitzgerald, Hewlett-Packard
Judith Furlong, EMC Corporation
Susan Gleeson, Oracle
Robert Griffin, EMC Corporation
Paul Grojean, Individual
Robert Haas, IBM
Thomas Hardjono, M.I.T.
ChengDong He, Huawei Technologies Co., Ltd.
Steve He, Vormetric
Kurt Heberlein, Hewlett-Packard
Larry Hofer, Emulex Corporation
Maryann Hondo, IBM
Walt Hubis, NetApp
Tim Hudson, Cryptsoft
Jonas Iggbom, Venafi, Inc.

311 Sitaram Inguva, American Express CCoE
 312 Jay Jacobs, Target Corporation
 313 Glen Jaquette, IBM
 314 Mahadev Karadiguddi, NetApp
 315 Greg Kazmierczak, Wave Systems Corp.
 316 Marc Kenig, SafeNet, Inc.
 317 Mark Knight, Thales e-Security
 318 Kathy Kriese, Symantec Corporation
 319 Mark Lambiase, SecureAuth
 320 John Leiseboer, Quintessence Labs
 321 Hal Lockhart, Oracle Corporation
 322 Robert Lockhart, Thales e-Security
 323 Anne Luk, Cryptsoft
 324 Sairam Manidi, Freescale
 325 Luther Martin, Voltage Security
 326 Neil McEvoy, iFOSSF
 327 Marina Milshtein, Individual
 328 Dale Moberg, Axway Software
 329 Jishnu Mukeri, Hewlett-Packard
 330 Bryan Olson, Hewlett-Packard
 331 John Peck, IBM
 332 Rob Philpott, EMC Corporation
 333 Denis Pochuev, SafeNet, Inc.
 334 Reid Poole, Venafi, Inc.
 335 Ajai Puri, SafeNet, Inc.
 336 Saravanan Ramalingam, Thales e-Security
 337 Peter Reed, SafeNet, Inc.
 338 Bruce Rich, IBM
 339 Christina Richards, American Express CCoE
 340 Warren Robbins, Dell
 341 Peter Robinson, EMC Corporation
 342 Scott Rotondo, Oracle
 343 Saikat Saha, SafeNet, Inc.
 344 Anil Saldhana, Red Hat
 345 Subhash Sankuratipati, NetApp
 346 Boris Schumperli, Cryptomathic
 347 Greg Singh, QuintessenceLabs
 348 David Smith, Venafi, Inc
 349 Brian Spector, Certivox
 350 Terence Spies, Voltage Security
 351 Deborah Steckroth, RouteOne LLC
 352 Michael Stevens, QuintessenceLabs
 353 Marcus Streets, Thales e-Security
 354 Satish Sundar, IBM
 355 Kiran Thota, VMware
 356 Somanchi Trinath, Freescale Semiconductor, Inc.
 357 Nathan Turajski, Thales e-Security
 358 Sean Turner, IECA, Inc.
 359 Paul Turner, Venafi, Inc.
 360 Rod Wideman, Quantum Corporation
 361 Steven Wierenga, Hewlett-Packard
 362 Jin Wong, QuintessenceLabs
 363 Sameer Yami, Thales e-Security
 364 Peter Yee, EMC Corporation
 365 Krishna Yellepeddy, IBM
 366 Catherine Ying, SafeNet, Inc.
 367 Tatu Ylonen, SSH Communications Security (Tectia Corp)

368 Michael Yoder, Vormetric. Inc.
369 Magda Zdunkiewicz, Cryptsoft
370 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.
<i>Enumerations</i>	9.1.3.2.	9.1.3.2.	9.1.3.2.
<i>Examples</i>	9.1.2.	9.1.2.	9.1.2.
<i>Hashing Algorithm Enumeration</i>	9.1.3.2.15.	9.1.3.2.16.	9.1.3.2.16.
<i>Item Length</i>	9.1.1.3.	9.1.1.3.	9.1.1.3.
<i>Item Tag</i>	9.1.1.1.	9.1.1.1.	9.1.1.1.
<i>Item Type</i>	9.1.1.2.	9.1.1.2.	9.1.1.2.
<i>Item Value</i>	9.1.1.4.	9.1.1.4.	9.1.1.4.
<i>Key Compression Type Enumeration</i>	9.1.3.2.2.	9.1.3.2.2.	9.1.3.2.2.
<i>Key Format Type Enumeration</i>	9.1.3.2.3.	9.1.3.2.3.	9.1.3.2.3.
<i>Key Role Type Enumeration</i>	9.1.3.2.16.	9.1.3.2.17.	9.1.3.2.17.
<i>Key Value Location Type Enumeration</i>	-	-	9.1.3.2.35.
<i>Link Type Enumeration</i>	9.1.3.2.19.	9.1.3.2.20.	9.1.3.2.20.
<i>Name Type Enumeration</i>	9.1.3.2.10.	9.1.3.2.11.	9.1.3.2.11.
<i>Object Group Member Enumeration</i>	-	9.1.3.2.33.	9.1.3.2.33.
<i>Object Type Enumeration</i>	9.1.3.2.11.	9.1.3.2.12.	9.1.3.2.12.
<i>Opaque Data Type Enumeration</i>	9.1.3.2.9.	9.1.3.2.10.	9.1.3.2.10.
<i>Operation Enumeration</i>	9.1.3.2.26.	9.1.3.2.27.	9.1.3.2.27.
<i>Padding Method Enumeration</i>	9.1.3.2.14.	9.1.3.2.15.	9.1.3.2.15.
<i>Put Function Enumeration</i>	9.1.3.2.25.	9.1.3.2.26.	9.1.3.2.26.
<i>Query Function Enumeration</i>	9.1.3.2.23.	9.1.3.2.24.	9.1.3.2.24.
<i>Recommended Curve Enumeration for ECDSA, ECDH, and ECMQV</i>	9.1.3.2.5.	9.1.3.2.5.	9.1.3.2.5.
<i>Result Reason Enumeration</i>	9.1.3.2.28.	9.1.3.2.29.	9.1.3.2.29.
<i>Result Status Enumeration</i>	9.1.3.2.27.	9.1.3.2.28.	9.1.3.2.28.
<i>Revocation Reason Code Enumeration</i>	9.1.3.2.18.	9.1.3.2.19.	9.1.3.2.19.
<i>Secret Data Type Enumeration</i>	9.1.3.2.8.	9.1.3.2.9.	9.1.3.2.9.
<i>Split Key Method Enumeration</i>	9.1.3.2.7.	9.1.3.2.8.	9.1.3.2.8.
<i>State Enumeration</i>	9.1.3.2.17.	9.1.3.2.18.	9.1.3.2.18.
<i>Storage Status Mask</i>	9.1.3.3.2.	9.1.3.3.2.	9.1.3.3.2.
<i>Tags</i>	9.1.3.1.	9.1.3.1.	9.1.3.1.
<i>TTLV Encoding</i>	9.1.	9.1.	9.1.
<i>TTLV Encoding Fields</i>	9.1.1.	9.1.1.	9.1.1.
<i>Usage Limits Unit Enumeration</i>	9.1.3.2.30.	9.1.3.2.31.	9.1.3.2.31.

Reference Term	<u>KMIP 1.0</u>	<u>KMIP 1.1</u>	<u>KMIP 1.2</u>
<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			
<i>Transport</i>	10	10	10
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.

371

Appendix C. Revision History

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