

Relatório de Teste  
*Kryptus kNET*

LabSEC - Universidade Federal de Santa Catarina

2018-01-29

## 0.1 Execução

```
--- report/expected.tex 2018-01-29 17:58:33.000000000 -0200
+++ report/results.tex 2018-01-29 17:58:33.000000000 -0200
@@ -1,824 +1,823 @@
<RequestMessage>
  <RequestHeader>
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      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="CreateKeyPair"/>
    <RequestPayload>
      <CommonTemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Algorithm"/>
          <AttributeValue type="Enumeration" value="RSA"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Length"/>
          <AttributeValue type="Integer" value="2048"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Activation Date"/>
-          <AttributeValue type="DateTime" value="NOW-3600"/>
+          <AttributeValue type="DateTime" value="2018-01-29T18:58:22.031848"/>
        </Attribute>
      </CommonTemplateAttribute>
      <PrivateKeyTemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Usage Mask"/>
          <AttributeValue type="Integer" value="UnwrapKey"/>
        </Attribute>
      </PrivateKeyTemplateAttribute>
      <PublicKeyTemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Usage Mask"/>
          <AttributeValue type="Integer" value="WrapKey"/>
        </Attribute>
      </PublicKeyTemplateAttribute>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
-    <TimeStamp type="DateTime" value="NOW"/>
+    <TimeStamp type="DateTime" value="2018-01-29T19:59:19+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="CreateKeyPair"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
-    <PrivateKeyUniqueIdentifier type="TextString" value="IMPORTER_PRIV_UID"/>
-    <PublicKeyUniqueIdentifier type="TextString" value="IMPORTER_PUB_UID"/>
+    <PrivateKeyUniqueIdentifier type="TextString" value="0M3ey+80IWYEqhrKt1sF"/>
+    <PublicKeyUniqueIdentifier type="TextString" value="9ihkDcG6/K3J2vkgbqlA"/>
```

```
</ResponsePayload>  
</BatchItem>  
</ResponseMessage>
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<RequestMessage>
  <RequestHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
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    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Get"/>
    <RequestPayload>
-     <UniqueIdentifier type="TextString" value="IMPORTER_PUB_UID"/>
+     <UniqueIdentifier type="TextString" value="9ihkDcG6/K3J2vkgbqlA"/>
      <KeyFormatType type="Enumeration" value="TransparentRSAPublicKey"/>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
-   <TimeStamp type="DateTime" value="NOW"/>
+   <TimeStamp type="DateTime" value="2018-01-29T19:59:19+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
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    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      <ObjectType type="Enumeration" value="PublicKey"/>
-     <UniqueIdentifier type="TextString" value="IMPORTER_PUB_UID"/>
+     <UniqueIdentifier type="TextString" value="9ihkDcG6/K3J2vkgbqlA"/>
      <PublicKey>
        <KeyBlock>
          <KeyFormatType type="Enumeration" value="TransparentRSAPublicKey"/>
          <KeyValue>
            <KeyMaterial>
-             <Modulus type="BigInteger" value="IMPORTER_PUB_MODULUS"/>
-             <PublicExponent type="BigInteger" value="IMPORTER_PUB_EXPONENT"/>
+             <Modulus type="BigInteger" value="0000000000000000a8117a5fe5b7be3fb5
f143dccfe79d567a0a59eedd1f255c2de8306c263e688654dff808d682d90f312c59855a1a7a1e5be26eb89d6ae9665c0618
f6aae1b7c124c8349c6b3f1260989355dfad75ba49192af340d6f02839294b35f8c9f19ce1512958b40b0ef036c865fac6f2
c140ffdb5b65f89f6d72bf350f6a77e9ffc11c2e04c5ddea67c687893bf0319b25c2e63ba5609c81e54b8703825bcccc6b6d
e26259f90eebfe78c31877e16d445c821f99de01aaa99c4b3d9ad6921b2210ed366b9c94e9b93b58f82afc28af45139554e1
6917218154bbfd1559fdf6b6d88f385ea8e50fa6d1d201c67e9e388b575d18612ace3ab4a3fcff2049b056b48b5673"/>
+             <PublicExponent type="BigInteger" value="0000000000010001"/>
            </KeyMaterial>
          </KeyValue>
          <CryptographicAlgorithm type="Enumeration" value="RSA"/>
          <CryptographicLength type="Integer" value="2048"/>
        </KeyBlock>
      </PublicKey>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>

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<RequestMessage>
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    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="CreateKeyPair"/>
    <RequestPayload>
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        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Algorithm"/>
          <AttributeValue type="Enumeration" value="RSA"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Length"/>
          <AttributeValue type="Integer" value="2048"/>
        </Attribute>
      </CommonTemplateAttribute>
      <PrivateKeyTemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Usage Mask"/>
          <AttributeValue type="Integer" value="Sign"/>
        </Attribute>
      </PrivateKeyTemplateAttribute>
      <PublicKeyTemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Usage Mask"/>
          <AttributeValue type="Integer" value="Verify"/>
        </Attribute>
      </PublicKeyTemplateAttribute>
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    </ProtocolVersion>
    <TimeStamp type="DateTime" value="NOW"/>
    <TimeStamp type="DateTime" value="2018-01-29T19:59:25+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="CreateKeyPair"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      <PrivateKeyUniqueIdentifier type="TextString" value="EXPORTER_TBE_PRIV_UID"/>
      <PublicKeyUniqueIdentifier type="TextString" value="EXPORTER_TBE_PUB_UID"/>
      <PrivateKeyUniqueIdentifier type="TextString" value="q8vGENBf8p1kgbEYKHu1"/>
      <PublicKeyUniqueIdentifier type="TextString" value="ZRGyFcCtfpCEwAwRBDz"/>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>
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<RequestMessage>
  <RequestHeader>
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    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Register"/>
    <RequestPayload>
      <ObjectType type="Enumeration" value="PublicKey"/>
      <TemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Usage Mask"/>
          <AttributeValue type="Integer" value="WrapKey"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Parameters"/>
          <AttributeValue>
            <PaddingMethod type="Enumeration" value="OAEP"/>
            <HashingAlgorithm type="Enumeration" value="SHA_256"/>
            <CryptographicAlgorithm type="Enumeration" value="RSA"/>
          </AttributeValue>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Activation Date"/>
          <AttributeValue type="DateTime" value="NOW-3600"/>
          <AttributeValue type="DateTime" value="2018-01-29T18:58:31.596416"/>
        </Attribute>
      </TemplateAttribute>
      <PublicKey>
        <KeyBlock>
          <KeyFormatType type="Enumeration" value="TransparentRSAPublicKey"/>
          <KeyValue>
            <KeyMaterial>
              <Modulus type="BigInteger" value="IMPORTER_PUB_MODULUS"/>
              <PublicExponent type="BigInteger" value="IMPORTER_PUB_EXPONENT"/>
              <Modulus type="BigInteger" value="0000000000000000a8117a5fe5b7be3fb5
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6917218154bbfd1559fdf6b6d88f385ea8e50fa6d1d201c67e9e388b575d18612ace3ab4a3fcff2049b056b48b5673"/>
              <PublicExponent type="BigInteger" value="0000000000010001"/>
            </KeyMaterial>
          </KeyValue>
          <CryptographicAlgorithm type="Enumeration" value="RSA"/>
          <CryptographicLength type="Integer" value="2048"/>
        </KeyBlock>
      </PublicKey>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
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  <ResponseHeader>
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      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
    <TimeStamp type="DateTime" value="NOW"/>
    <TimeStamp type="DateTime" value="2018-01-29T19:59:26+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>

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```
<Operation type="Enumeration" value="Register"/>
<ResultStatus type="Enumeration" value="Success"/>
<ResponsePayload>
-   <UniqueIdentifier type="TextString" value="EXPORTER_CLIENT_KEK_UID"/>
+   <UniqueIdentifier type="TextString" value="YYzt6q4YOWdo2EGT6k/Z"/>
</ResponsePayload>
</BatchItem>
</ResponseMessage>
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<RequestMessage>
  <RequestHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
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    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Create"/>
    <RequestPayload>
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      <TemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Algorithm"/>
          <AttributeValue type="Enumeration" value="AES"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Length"/>
          <AttributeValue type="Integer" value="256"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Usage Mask"/>
          <AttributeValue type="Integer" value="WrapKey"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Parameters"/>
          <AttributeValue>
            <BlockCipherMode type="Enumeration" value="CTR"/>
            <RandomIV type="Boolean" value="true"/>
          </AttributeValue>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Activation Date"/>
          <AttributeValue type="DateTime" value="NOW-3600"/>
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      </TemplateAttribute>
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      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
    <TimeStamp type="DateTime" value="NOW"/>
    <TimeStamp type="DateTime" value="2018-01-29T19:59:26+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Create"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      <ObjectType type="Enumeration" value="SymmetricKey"/>
      <UniqueIdentifier type="TextString" value="EXPORTER_TEMP_SYMM_KEK_UID"/>
      <UniqueIdentifier type="TextString" value="Q/VMGR8DnP4TfsyU00QJ"/>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>

```



```

<RequestMessage>
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    </ProtocolVersion>
    <BatchCount type="Integer" value="1"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Get"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_TBE_PRIV_UID"/>
      + <UniqueIdentifier type="TextString" value="q8vGENBf8p1kgbEYKHu1"/>
      <KeyFormatType type="Enumeration" value="TransparentRSAPrivateKey"/>
      <KeyWrappingSpecification>
        <WrappingMethod type="Enumeration" value="Encrypt"/>
        <EncryptionKeyInformation>
          - <UniqueIdentifier type="TextString" value="EXPORTER_TEMP_SYMM_KEK_UID"/>
          + <UniqueIdentifier type="TextString" value="Q/VMGR8DnP4TfsyU00QJ"/>
          </EncryptionKeyInformation>
          <EncodingOption type="Enumeration" value="TLVEncoding"/>
        </KeyWrappingSpecification>
      </RequestPayload>
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      - <TimeStamp type="DateTime" value="NOW"/>
      + <TimeStamp type="DateTime" value="2018-01-29T19:59:26+00:00"/>
      <BatchCount type="Integer" value="1"/>
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    <BatchItem>
      <Operation type="Enumeration" value="Get"/>
      <ResultStatus type="Enumeration" value="Success"/>
      <ResponsePayload>
        <ObjectType type="Enumeration" value="PrivateKey"/>
        - <UniqueIdentifier type="TextString" value="EXPORTER_TBE_PRIV_UID"/>
        + <UniqueIdentifier type="TextString" value="q8vGENBf8p1kgbEYKHu1"/>
        <PrivateKey>
          <KeyBlock>
            <KeyFormatType type="Enumeration" value="TransparentRSAPrivateKey"/>
            - <KeyValue type="ByteString" value="EXPORTER_PRIV_KEY_VALUE"/>
            + <KeyValue type="ByteString" value="153a70bd7fc40871530d98227d5d2b2cb7cfb
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```

```
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12251e81e2beb3aeea6eb0097fe3adb2e803f2f"/>
    <CryptographicAlgorithm type="Enumeration" value="RSA"/>
    <CryptographicLength type="Integer" value="2048"/>
    <KeyWrappingData>
      <WrappingMethod type="Enumeration" value="Encrypt"/>
      <EncryptionKeyInformation>
-         <UniqueIdentifier type="TextString" value="EXPORTER_TEMP_SYMM_KEK_UID
"/>
+         <UniqueIdentifier type="TextString" value="Q/VMGR8DnP4TfsyU00QJ"/>
        <CryptographicParameters>
          <BlockCipherMode type="Enumeration" value="CTR"/>
-          <PaddingMethod type="Enumeration" value="None"/>
          <RandomIV type="Boolean" value="true"/>
        </CryptographicParameters>
      </EncryptionKeyInformation>
-      <IVCounterNonce type="ByteString" value="EXPORTER_WRAP_01_IV"/>
+      <IVCounterNonce type="ByteString" value="092497b4e2f113b0790e76cc0ef8c
57f"/>
    <EncodingOption type="Enumeration" value="TTLVEncoding"/>
  </KeyWrappingData>
</KeyBlock>
</PrivateKey>
</ResponsePayload>
</BatchItem>
</ResponseMessage>
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<RequestMessage>
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    </ProtocolVersion>
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  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Get"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_TEMP_SYMM_KEK_UID"/>
      + <UniqueIdentifier type="TextString" value="Q/VMGR8DnP4TfsyU00QJ"/>
      <KeyFormatType type="Enumeration" value="Raw"/>
      <KeyWrappingSpecification>
        <WrappingMethod type="Enumeration" value="Encrypt"/>
        <EncryptionKeyInformation>
          - <UniqueIdentifier type="TextString" value="EXPORTER_CLIENT_KEK_UID"/>
          + <UniqueIdentifier type="TextString" value="YYzt6q4Y0Wdo2EGT6k/Z"/>
          </EncryptionKeyInformation>
          <EncodingOption type="Enumeration" value="NoEncoding"/>
        </KeyWrappingSpecification>
      </RequestPayload>
    </BatchItem>
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    <ResponseHeader>
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        <ProtocolVersionMajor type="Integer" value="1"/>
        <ProtocolVersionMinor type="Integer" value="3"/>
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      + <TimeStamp type="DateTime" value="2018-01-29T19:59:26+00:00"/>
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    <BatchItem>
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      <ResultStatus type="Enumeration" value="Success"/>
      <ResponsePayload>
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        - <UniqueIdentifier type="TextString" value="TEMP_SYMM_KEK_UID"/>
        + <UniqueIdentifier type="TextString" value="Q/VMGR8DnP4TfsyU00QJ"/>
        <SymmetricKey>
          <KeyBlock>
            <KeyFormatType type="Enumeration" value="Raw"/>
            - <KeyValue type="ByteString" value="EXPORTER_TEMP_SYMM_KEK_KEY_VALUE"/>
            + <KeyValue type="ByteString" value="8f5184faaf805fc324e29be721467d903cc8d
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aab5051971c3b7fc78dedf17e51aeee14f18d239a3f746c4e922c2c1ac4eed44f7e9702033"/>
            <CryptographicAlgorithm type="Enumeration" value="AES"/>
            <CryptographicLength type="Integer" value="256"/>
            <KeyWrappingData>
              <WrappingMethod type="Enumeration" value="Encrypt"/>
              <EncryptionKeyInformation>
                - <UniqueIdentifier type="TextString" value="EXPORTER_CLIENT_KEK_UID"/>
                + <UniqueIdentifier type="TextString" value="YYzt6q4Y0Wdo2EGT6k/Z"/>
              <CryptographicParameters>
                <PaddingMethod type="Enumeration" value="OAEP"/>
                <HashingAlgorithm type="Enumeration" value="SHA_256"/>
                <CryptographicAlgorithm type="Enumeration" value="RSA"/>
              </CryptographicParameters>
            </EncryptionKeyInformation>
          </KeyBlock>
        </SymmetricKey>
      </ResponsePayload>
    </BatchItem>
  </ResponseMessage>

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        </EncryptionKeyInformation>
        <EncodingOption type="Enumeration" value="NoEncoding"/>
    </KeyWrappingData>
</KeyBlock>
</SymmetricKey>
</ResponsePayload>
</BatchItem>
</ResponseMessage>
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    </ProtocolVersion>
    <BatchCount type="Integer" value="2"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_TEMP_SYMM_KEY_UID"/>
      + <UniqueIdentifier type="TextString" value="Q/VMGR8DnP4TfsyU00QJ"/>
      <RevocationReason>
        <RevocationReasonCode type="Enumeration" value="CessationOfOperation"/>
      </RevocationReason>
    </RequestPayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_TEMP_SYMM_KEY_UID"/>
      + <UniqueIdentifier type="TextString" value="Q/VMGR8DnP4TfsyU00QJ"/>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
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      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
    - <TimeStamp type="DateTime" value="NOW"/>
    + <TimeStamp type="DateTime" value="2018-01-29T19:59:26+00:00"/>
    <BatchCount type="Integer" value="2"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_TEMP_SYMM_KEY_UID"/>
      + <UniqueIdentifier type="TextString" value="Q/VMGR8DnP4TfsyU00QJ"/>
    </ResponsePayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
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      + <UniqueIdentifier type="TextString" value="Q/VMGR8DnP4TfsyU00QJ"/>
    </ResponsePayload>
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</ResponseMessage>
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  </RequestHeader>
  <BatchItem>
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    <RequestPayload>
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      <TemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Usage Mask"/>
          <AttributeValue type="Integer" value="UnwrapKey"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Parameters"/>
          <AttributeValue>
            <BlockCipherMode type="Enumeration" value="CTR"/>
            <RandomIV type="Boolean" value="true"/>
          </AttributeValue>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Activation Date"/>
          - <AttributeValue type="DateTime" value="NOW-3600"/>
          + <AttributeValue type="DateTime" value="2018-01-29T18:58:32.528722"/>
        </Attribute>
      </TemplateAttribute>
      <SymmetricKey>
        <KeyBlock>
          <KeyFormatType type="Enumeration" value="Raw"/>
          - <KeyValue type="ByteString" value="EXPORTER_TEMP_SYMM_KEK_KEY_VALUE"/>
          + <KeyValue type="ByteString" value="8f5184faaf805fc324e29be721467d903cc8d
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          <CryptographicLength type="Integer" value="128"/>
          <KeyWrappingData>
            <WrappingMethod type="Enumeration" value="Encrypt"/>
            <EncryptionKeyInformation>
              - <UniqueIdentifier type="TextString" value="IMPORTER_PRIV_UID"/>
              + <UniqueIdentifier type="TextString" value="0M3ey+80IWYEqhrKt1sF"/>
              <CryptographicParameters>
                <CryptographicAlgorithm type="Enumeration" value="RSA"/>
                <PaddingMethod type="Enumeration" value="OAEP"/>
                <HashingAlgorithm type="Enumeration" value="SHA_256"/>
              </CryptographicParameters>
            </EncryptionKeyInformation>
            <EncodingOption type="Enumeration" value="NoEncoding"/>
          </KeyWrappingData>
        </KeyBlock>
      </SymmetricKey>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
  </ResponseHeader>

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    </ProtocolVersion>
-   <TimeStamp type="DateTime" value="NOW"/>
+   <TimeStamp type="DateTime" value="2018-01-29T19:59:27+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Register"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
-     <UniqueIdentifier type="TextString" value="IMPORTER_TEMP_SYMM_KEK_UID"/>
+     <UniqueIdentifier type="TextString" value="w6T0dif4zpp1CvK7DtvC"/>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>
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<RequestMessage>
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    </ProtocolVersion>
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  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Register"/>
    <RequestPayload>
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      <TemplateAttribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Usage Mask"/>
          <AttributeValue type="Integer" value="Sign"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Algorithm"/>
          <AttributeValue type="Enumeration" value="RSA"/>
        </Attribute>
        <Attribute>
          <AttributeName type="TextString" value="Cryptographic Length"/>
          <AttributeValue type="Integer" value="2048"/>
        </Attribute>
      </TemplateAttribute>
      <PrivateKey>
        <KeyBlock>
          <KeyFormatType type="Enumeration" value="TransparentRSAPrivateKey"/>
          - <KeyValue type="ByteString" value="EXPORTER_PRIV_KEY_VALUE"/>
          + <KeyValue type="ByteString" value="153a70bd7fc40871530d98227d5d2b2cb7cfb
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          <CryptographicAlgorithm type="Enumeration" value="RSA"/>
          <CryptographicLength type="Integer" value="2048"/>
          <KeyWrappingData>
            <WrappingMethod type="Enumeration" value="Encrypt"/>
            <EncryptionKeyInformation>
              - <UniqueIdentifier type="TextString" value="IMPORTER_TEMP_SYMM_KEK_UID
"/>
              + <UniqueIdentifier type="TextString" value="w6T0dif4zpp1CvK7DtvC"/>
            </EncryptionKeyInformation>
          </KeyWrappingData>
        </KeyBlock>
      </PrivateKey>
    </BatchItem>
  </BatchItem>
</RequestPayload>
</RequestMessage>

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        <CryptographicParameters>
          <BlockCipherMode type="Enumeration" value="CTR"/>
          <RandomIV type="Boolean" value="true"/>
        </CryptographicParameters>
      </EncryptionKeyInformation>
-     <IVCounterNonce type="ByteString" value="EXPORTER_WRAP_01_IV"/>
+     <IVCounterNonce type="ByteString" value="092497b4e2f113b0790e76cc0ef8c
57f"/>
      <EncodingOption type="Enumeration" value="TTLVEncoding"/>
    </KeyWrappingData>
  </KeyBlock>
</PrivateKey>
</RequestPayload>
</BatchItem>
</RequestMessage>
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  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
-   <TimeStamp type="DateTime" value="NOW"/>
+   <TimeStamp type="DateTime" value="2018-01-29T19:59:27+00:00"/>
    <BatchCount type="Integer" value="1"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Register"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
-     <UniqueIdentifier type="TextString" value="IMPORTER_IMPORTED_UID"/>
+     <UniqueIdentifier type="TextString" value="DdTJo6zRp5qQ+Q8KJYzW"/>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>
```

```
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      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
    <BatchCount type="Integer" value="2"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_TEMP_SYMM_KEK_UID"/>
      + <UniqueIdentifier type="TextString" value="w6T0dif4zpp1CvK7DtvC"/>
      <RevocationReason>
        <RevocationReasonCode type="Enumeration" value="CessationOfOperation"/>
      </RevocationReason>
    </RequestPayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_TEMP_SYMM_KEK_UID"/>
      + <UniqueIdentifier type="TextString" value="w6T0dif4zpp1CvK7DtvC"/>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
    - <TimeStamp type="DateTime" value="NOW"/>
    + <TimeStamp type="DateTime" value="2018-01-29T19:59:27+00:00"/>
    <BatchCount type="Integer" value="2"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_TEMP_SYMM_KEK_UID"/>
      + <UniqueIdentifier type="TextString" value="w6T0dif4zpp1CvK7DtvC"/>
    </ResponsePayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_TEMP_SYMM_KEK_UID"/>
      + <UniqueIdentifier type="TextString" value="w6T0dif4zpp1CvK7DtvC"/>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>
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<RequestMessage>
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    </ProtocolVersion>
    <BatchCount type="Integer" value="5"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_PRIV_UID"/>
      + <UniqueIdentifier type="TextString" value="OM3ey+80IWYEqhrKt1sF"/>
      <RevocationReason>
        <RevocationReasonCode type="Enumeration" value="CessationOfOperation"/>
      </RevocationReason>
    </RequestPayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_PRIV_UID"/>
      + <UniqueIdentifier type="TextString" value="OM3ey+80IWYEqhrKt1sF"/>
    </RequestPayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_PUB_UID"/>
      + <UniqueIdentifier type="TextString" value="9ihkDcG6/K3J2vkgbqlA"/>
      <RevocationReason>
        <RevocationReasonCode type="Enumeration" value="CessationOfOperation"/>
      </RevocationReason>
    </RequestPayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_PUB_UID"/>
      + <UniqueIdentifier type="TextString" value="9ihkDcG6/K3J2vkgbqlA"/>
    </RequestPayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_IMPORTED_UID"/>
      + <UniqueIdentifier type="TextString" value="DdTJo6zRp5qQ+Q8KJYzW"/>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
    - <TimeStamp type="DateTime" value="NOW"/>
    + <TimeStamp type="DateTime" value="2018-01-29T19:59:27+00:00"/>
    <BatchCount type="Integer" value="5"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      - <UniqueIdentifier type="TextString" value="IMPORTER_PRIV_UID"/>

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```
+      <UniqueIdentifier type="TextString" value="OM3ey+80IWYEqhrKt1sF"/>
    </ResponsePayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
-      <UniqueIdentifier type="TextString" value="IMPORTER_PRIV_UID"/>
+      <UniqueIdentifier type="TextString" value="OM3ey+80IWYEqhrKt1sF"/>
    </ResponsePayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
-      <UniqueIdentifier type="TextString" value="IMPORTER_PUB_UID"/>
+      <UniqueIdentifier type="TextString" value="9ihkDcG6/K3J2vkgbqlA"/>
    </ResponsePayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
-      <UniqueIdentifier type="TextString" value="IMPORTER_PUB_UID"/>
+      <UniqueIdentifier type="TextString" value="9ihkDcG6/K3J2vkgbqlA"/>
    </ResponsePayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
-      <UniqueIdentifier type="TextString" value="IMPORTER_IMPORTED_UID"/>
+      <UniqueIdentifier type="TextString" value="DdTJo6zRp5qQ+Q8KJYzW"/>
    </ResponsePayload>
  </BatchItem>
</ResponseMessage>
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      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
    <BatchCount type="Integer" value="4"/>
  </RequestHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_CLIENT_KEK_UID"/>
      + <UniqueIdentifier type="TextString" value="YYzt6q4Y0Wdo2EGT6k/Z"/>
      <RevocationReason>
        <RevocationReasonCode type="Enumeration" value="CessationOfOperation"/>
      </RevocationReason>
    </RequestPayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_CLIENT_KEK_UID"/>
      + <UniqueIdentifier type="TextString" value="YYzt6q4Y0Wdo2EGT6k/Z"/>
    </RequestPayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_TBE_PRIV_UID"/>
      + <UniqueIdentifier type="TextString" value="q8vGENBf8p1kgbEYKHu1"/>
    </RequestPayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <RequestPayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_TBE_PUB_UID"/>
      + <UniqueIdentifier type="TextString" value="ZRGyFcCtfpCEwAwRBODz"/>
    </RequestPayload>
  </BatchItem>
</RequestMessage>
<ResponseMessage>
  <ResponseHeader>
    <ProtocolVersion>
      <ProtocolVersionMajor type="Integer" value="1"/>
      <ProtocolVersionMinor type="Integer" value="3"/>
    </ProtocolVersion>
    - <TimeStamp type="DateTime" value="NOW"/>
    + <TimeStamp type="DateTime" value="2018-01-29T19:59:28+00:00"/>
    <BatchCount type="Integer" value="4"/>
  </ResponseHeader>
  <BatchItem>
    <Operation type="Enumeration" value="Revoke"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_CLIENT_KEK_UID"/>
      + <UniqueIdentifier type="TextString" value="YYzt6q4Y0Wdo2EGT6k/Z"/>
    </ResponsePayload>
  </BatchItem>
  <BatchItem>
    <Operation type="Enumeration" value="Destroy"/>
    <ResultStatus type="Enumeration" value="Success"/>
    <ResponsePayload>
      - <UniqueIdentifier type="TextString" value="EXPORTER_CLIENT_KEK_UID"/>
      + <UniqueIdentifier type="TextString" value="YYzt6q4Y0Wdo2EGT6k/Z"/>
    </ResponsePayload>
  </BatchItem>
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</BatchItem>
<BatchItem>
  <Operation type="Enumeration" value="Destroy"/>
  <ResultStatus type="Enumeration" value="Success"/>
  <ResponsePayload>
-    <UniqueIdentifier type="TextString" value="EXPORTER_TBE_PRIV_UID"/>
+    <UniqueIdentifier type="TextString" value="q8vGENBf8p1kgbEYKHu1"/>
  </ResponsePayload>
</BatchItem>
<BatchItem>
  <Operation type="Enumeration" value="Destroy"/>
  <ResultStatus type="Enumeration" value="Success"/>
  <ResponsePayload>
-    <UniqueIdentifier type="TextString" value="EXPORTER_TBE_PUB_UID"/>
+    <UniqueIdentifier type="TextString" value="ZRGyFcCtfpCEwAwRBODz"/>
  </ResponsePayload>
</BatchItem>
</ResponseMessage>
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