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<?xml version="1.0" encoding="utf-8"?>
<!-- Schema for XML Signatures
  http://www.w3.org/2000/09/xmldsig#
  $Revision: 1.7 $ on $Date: 2007/09/20 19:06:50 $ by
  $Author: p052373 $

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  [1] http://www.w3.org/Consortium/Legal/copyright-
  software-19980720
  [2] http://www.w3.org/Consortium/Legal/IPR-
  FAQ-20000620.html#DTD
-->

<!--

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Link:
  http://www.w3.org/TR/xmldsig-core/#sec-Schema
  http://www.w3.org/TR/xmldsig-core/xmldsig-core-schema.xsd
-->

<schema xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  targetNamespace="http://www.w3.org/2000/09/xmldsig#"
  version="0.1" elementFormDefault="qualified">

<!-- Basic Types Defined for Signatures -->

<simpleType name="CryptoBinary">
  <restriction base="base64Binary">
    </restriction>
  </simpleType>

<!-- Start Signature -->

<element name="Signature" type="ds:SignatureType"/>
<complexType name="SignatureType">
  <sequence>
    <element ref="ds:SignedInfo"/>
    <element ref="ds:SignatureValue"/>
    <element ref="ds:KeyInfo" minOccurs="0"/>
    <element ref="ds:Object" minOccurs="0"
maxOccurs="unbounded"/>
  </sequence>
  <attribute name="Id" type="ID" use="optional"/>
</complexType>

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    <element name="SignatureValue"
type="ds:SignatureValueType"/>
    <complexType name="SignatureValueType">
        <simpleContent>
            <extension base="base64Binary">
                <attribute name="Id" type="ID" use="optional"/>
            </extension>
        </simpleContent>
    </complexType>

<!-- Start SignedInfo -->

<element name="SignedInfo" type="ds:SignedInfoType"/>
<complexType name="SignedInfoType">
    <sequence>
        <element ref="ds:CanonicalizationMethod"/>
        <element ref="ds:SignatureMethod"/>
        <element ref="ds:Reference" maxOccurs="unbounded"/>
    </sequence>
    <attribute name="Id" type="ID" use="optional"/>
</complexType>

    <element name="CanonicalizationMethod"
type="ds:CanonicalizationMethodType"/>
    <complexType name="CanonicalizationMethodType" mixed="true">
        <sequence>
            <any namespace="##any" minOccurs="0"
maxOccurs="unbounded"/>
            <!-- (0,unbounded) elements from (1,1) namespace -->
        </sequence>
        <attribute name="Algorithm" type="anyURI" use="required"/>
    </complexType>

    <element name="SignatureMethod"
type="ds:SignatureMethodType"/>
    <complexType name="SignatureMethodType" mixed="true">
        <sequence>
            <element name="HMACOutputLength" minOccurs="0"
type="ds:HMACOutputLengthType"/>
            <any namespace="##other" minOccurs="0"
maxOccurs="unbounded"/>
            <!-- (0,unbounded) elements from (1,1) external
namespace -->
        </sequence>
        <attribute name="Algorithm" type="anyURI" use="required"/>
    </complexType>

<!-- Start Reference -->

<element name="Reference" type="ds:ReferenceType"/>
<complexType name="ReferenceType">
    <sequence>
        <element ref="ds:Transforms" minOccurs="0"/>
        <element ref="ds:DigestMethod"/>
        <element ref="ds:DigestValue"/>
    </sequence>

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    <attribute name="Id" type="ID" use="optional"/>
    <attribute name="URI" type="anyURI" use="optional"/>
    <attribute name="Type" type="anyURI" use="optional"/>
</complexType>

<element name="Transforms" type="ds:TransformsType"/>
<complexType name="TransformsType">
  <sequence>
    <element ref="ds:Transform" maxOccurs="unbounded"/>
  </sequence>
</complexType>

<element name="Transform" type="ds:TransformType"/>
<complexType name="TransformType" mixed="true">
  <choice minOccurs="0" maxOccurs="unbounded">
    <any namespace="##other" processContents="lax"/>
    <!-- (1,1) elements from (0,unbounded) namespaces -->
    <element name="XPath" type="string"/>
  </choice>
  <attribute name="Algorithm" type="anyURI" use="required"/>
</complexType>

<!-- End Reference -->

<element name="DigestMethod" type="ds:DigestMethodType"/>
<complexType name="DigestMethodType" mixed="true">
  <sequence>
    <any namespace="##other" processContents="lax"
minOccurs="0" maxOccurs="unbounded"/>
  </sequence>
  <attribute name="Algorithm" type="anyURI" use="required"/>
</complexType>

<element name="DigestValue" type="ds:DigestValueType"/>
<simpleType name="DigestValueType">
  <restriction base="base64Binary"/>
</simpleType>

<!-- End SignedInfo -->

<!-- Start KeyInfo -->

<element name="KeyInfo" type="ds:KeyInfoType"/>
<complexType name="KeyInfoType" mixed="true">
  <choice maxOccurs="unbounded">
    <element ref="ds:KeyName"/>
    <element ref="ds:KeyValue"/>
    <element ref="ds:RetrievalMethod"/>
    <element ref="ds:X509Data"/>
    <element ref="ds:PGPData"/>
    <element ref="ds:SPKIData"/>
    <element ref="ds:MgmtData"/>
    <any processContents="lax" namespace="##other"/>
    <!-- (1,1) elements from (0,unbounded) namespaces -->
  </choice>
  <attribute name="Id" type="ID" use="optional"/>
</complexType>

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<element name="KeyName" type="string"/>
<element name="MgmtData" type="string"/>

<element name="KeyValue" type="ds:KeyValue"/>
<complexType name="KeyValue" mixed="true">
  <choice>
    <element ref="ds:DSAKeyValue"/>
    <element ref="ds:RSAKeyValue"/>
    <any namespace="##other" processContents="lax"/>
  </choice>
</complexType>

<element name="RetrievalMethod"
type="ds:RetrievalMethod"/>
<complexType name="RetrievalMethod">
  <sequence>
    <element ref="ds:Transforms" minOccurs="0"/>
  </sequence>
  <attribute name="URI" type="anyURI"/>
  <attribute name="Type" type="anyURI" use="optional"/>
</complexType>

<!-- Start X509Data -->

<element name="X509Data" type="ds:X509DataType"/>
<complexType name="X509DataType">
  <sequence maxOccurs="unbounded">
    <choice>
      <element name="X509IssuerSerial"
type="ds:X509IssuerSerial"/>
      <element name="X509SKI" type="base64Binary"/>
      <element name="X509SubjectName" type="string"/>
      <element name="X509Certificate" type="base64Binary"/>
      <element name="X509CRL" type="base64Binary"/>
      <any namespace="##other" processContents="lax"/>
    </choice>
  </sequence>
</complexType>

<complexType name="X509IssuerSerialType">
  <sequence>
    <element name="X509IssuerName" type="string"/>
    <element name="X509SerialNumber" type="integer"/>
  </sequence>
</complexType>

<!-- End X509Data -->

<!-- Begin PGPDData -->

<element name="PGPDData" type="ds:PGPDDataType"/>
<complexType name="PGPDDataType">
  <choice>
    <sequence>
      <element name="PGPKeyID" type="base64Binary"/>
      <element name="PGPKeyPacket" type="base64Binary"/>
    </sequence>
  </choice>
</complexType>

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minOccurs="0"/>
    <any namespace="##other" processContents="lax"
minOccurs="0"
    maxOccurs="unbounded"/>
    </sequence>
    <sequence>
        <element name="PGPKeyPacket" type="base64Binary"/>
        <any namespace="##other" processContents="lax"
minOccurs="0"
    maxOccurs="unbounded"/>
    </sequence>
</choice>
</complexType>

<!-- End PGPDData -->

<!-- Begin SPKIData -->

<element name="SPKIData" type="ds:SPKIDataType"/>
<complexType name="SPKIDataType">
    <sequence maxOccurs="unbounded">
        <element name="SPKISexp" type="base64Binary"/>
        <any namespace="##other" processContents="lax"
minOccurs="0"/>
    </sequence>
</complexType>

<!-- End SPKIData -->

<!-- End KeyInfo -->

<!-- Start Object (Manifest, SignatureProperty) -->

<element name="Object" type="ds:ObjectType"/>
<complexType name="ObjectType" mixed="true">
    <sequence minOccurs="0" maxOccurs="unbounded">
        <any namespace="##any" processContents="lax"/>
    </sequence>
    <attribute name="Id" type="ID" use="optional"/>
    <attribute name="MimeType" type="string" use="optional"/>
    <!-- add a grep facet -->
    <attribute name="Encoding" type="anyURI" use="optional"/>
</complexType>

<element name="Manifest" type="ds:ManifestType"/>
<complexType name="ManifestType">
    <sequence>
        <element ref="ds:Reference" maxOccurs="unbounded"/>
    </sequence>
    <attribute name="Id" type="ID" use="optional"/>
</complexType>

<element name="SignatureProperties"
type="ds:SignaturePropertiesType"/>
<complexType name="SignaturePropertiesType">
    <sequence>
        <element ref="ds:SignatureProperty"

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maxOccurs="unbounded"/>
  </sequence>
  <attribute name="Id" type="ID" use="optional"/>
</complexType>

  <element name="SignatureProperty"
type="ds:SignaturePropertyType"/>
  <complexType name="SignaturePropertyType" mixed="true">
    <choice maxOccurs="unbounded">
      <any namespace="##other" processContents="lax"/>
      <!-- (1,1) elements from (1,unbounded) namespaces -->
    </choice>
    <attribute name="Target" type="anyURI" use="required"/>
    <attribute name="Id" type="ID" use="optional"/>
  </complexType>

<!-- End Object (Manifest, SignatureProperty) -->

<!-- Start Algorithm Parameters -->

<simpleType name="HMACOutputLengthType">
  <restriction base="integer"/>
</simpleType>

<!-- Start KeyValue Element-types -->

<element name="DSAKeyValue" type="ds:DSAKeyValueType"/>
<complexType name="DSAKeyValueType">
  <sequence>
    <sequence minOccurs="0">
      <element name="P" type="ds:CryptoBinary"/>
      <element name="Q" type="ds:CryptoBinary"/>
    </sequence>
    <element name="G" type="ds:CryptoBinary" minOccurs="0"/>
    <element name="Y" type="ds:CryptoBinary"/>
    <element name="J" type="ds:CryptoBinary" minOccurs="0"/>
    <sequence minOccurs="0">
      <element name="Seed" type="ds:CryptoBinary"/>
      <element name="PgenCounter" type="ds:CryptoBinary"/>
    </sequence>
  </sequence>
</complexType>

<element name="RSAKeyValue" type="ds:RSAKeyValueType"/>
<complexType name="RSAKeyValueType">
  <sequence>
    <element name="Modulus" type="ds:CryptoBinary"/>
    <element name="Exponent" type="ds:CryptoBinary"/>
  </sequence>
</complexType>

<!-- End KeyValue Element-types -->

<!-- End Signature -->

</schema>

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