

Validazione notifica di esito committente

Per la validazione dei messaggi di notifica di esito committente (e anche gli altri) è necessario posizionare nella stessa cartella i seguenti file:

- file xml della notifica da validare
- file xsd dello schema dei messaggi di notifica ([MessaggiTypes_v1.1.xsd](#))
- file xsd collegato allo schema precedente ([xmldsig-core-schema.xsd](#))

Il comando da utilizzare per la validazione è il seguente:

```
xmllint --schema MessaggiTypes_v1.1.xsd notifica_di_esito.xml
```

Di seguito riporto i due xsd in modo tale che sia possibile scaricarli:

MessaggiTypes_v1.1.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  xmlns:types="http://www.fatturapa.gov.it/sdi/messaggi/v1.0"
  targetNamespace="http://www.fatturapa.gov.it/sdi/messaggi/v1.0"
  version="1.1">

  <xsd:import namespace="http://www.w3.org/2000/09/xmldsig#" schemaLocation="xmldsig-core-
schema.xsd"/>

  <!-- ===== -->
  <!-- ELEMENTI PER TRASMITTENTI -->
  <!-- ===== -->
  <xsd:element name="RicevutaConsegna" type="types:RicevutaConsegna_Type" />
  <xsd:element name="NotificaMancataConsegna" type="types:NotificaMancataConsegna_Type" />
  <xsd:element name="NotificaScarto" type="types:NotificaScarto_Type" />
  <xsd:element name="NotificaEsito" type="types:NotificaEsito_Type" />
  <xsd:element name="AttestazioneTrasmissioneFattura"
type="types:AttestazioneTrasmissioneFattura_Type" />

  <!-- ===== -->
  <!-- ELEMENTI PER RICEVENTI -->
  <!-- ===== -->
  <xsd:element name="MetadatiInvioFile" type="types:MetadatiInvioFile_Type" />
  <xsd:element name="NotificaEsitoCommittente" type="types:NotificaEsitoCommittente_Type"
/>
  <xsd:element name="ScartoEsitoCommittente" type="types:ScartoEsitoCommittente_Type" />

  <!-- ===== -->
  <!-- ELEMENTI COMUNI A TRASMITTENTI E RICEVENTI -->
  <!-- ===== -->
  <xsd:element name="NotificaDecorrenzaTermini"
type="types:NotificaDecorrenzaTermini_Type" />

  <!-- ===== -->
  <!-- TIPI EXTRA PER TRASMITTENTI -->
  <!-- ===== -->
  <xsd:complexType name="RicevutaConsegna_Type">
    <xsd:sequence>
      <xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
      <xsd:element name="NomeFile" type="types:NomeFile_Type" />
      <xsd:element name="DataOraRicezione" type="xsd:dateTime" />
      <xsd:element name="DataOraConsegna" type="xsd:dateTime" />
      <xsd:element name="Destinatario" type="types:Destinatario_Type"/>
      <xsd:element name="RiferimentoArchivio" type="types:RiferimentoArchivio_Type"
minOccurs="0" maxOccurs="1"/>
      <xsd:element name="MessageId" type="types:MessageId_Type"/>
      <xsd:element name="PecMessageId" type="types:PecMessageId_Type" minOccurs="0"
```



```
maxOccurs="1"/>
    <xsd:element name="Note" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="ds:Signature"/>
  </xsd:sequence>
  <xsd:attribute name="versione" type="types:Versione_Type" use="required"
fixed="1.0"/>
  <xsd:attribute name="IntermediarioConDupliceRuolo" type="xsd:string" use="optional"
fixed="Si"/>
</xsd:complexType>

<xsd:complexType name="NotificaScarto_Type">
  <xsd:sequence>
    <xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
    <xsd:element name="NomeFile" type="types:NomeFile_Type" />
    <xsd:element name="DataOraRicezione" type="xsd:dateTime" />
    <xsd:element name="RiferimentoArchivio" type="types:RiferimentoArchivio_Type"
minOccurs="0" maxOccurs="1"/>
    <xsd:element name="ListaErrori" type="types:ListaErrori_Type" />
    <xsd:element name="MessageId" type="types:MessageId_Type"/>
    <xsd:element name="PecMessageId" type="types:PecMessageId_Type" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="Note" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="ds:Signature"/>
  </xsd:sequence>
  <xsd:attribute name="versione" type="types:Versione_Type" use="required"
fixed="1.0"/>
</xsd:complexType>

<xsd:complexType name="NotificaMancataConsegna_Type">
  <xsd:sequence>
    <xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
    <xsd:element name="NomeFile" type="types:NomeFile_Type" />
    <xsd:element name="DataOraRicezione" type="xsd:dateTime" />
    <xsd:element name="RiferimentoArchivio" type="types:RiferimentoArchivio_Type"
minOccurs="0" maxOccurs="1"/>
    <xsd:element name="Descrizione" type="types:Descrizione_Type" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="MessageId" type="types:MessageId_Type"/>
    <xsd:element name="PecMessageId" type="types:PecMessageId_Type" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="Note" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="ds:Signature"/>
  </xsd:sequence>
  <xsd:attribute name="versione" type="types:Versione_Type" use="required"
fixed="1.0"/>
</xsd:complexType>

<xsd:complexType name="NotificaEsito_Type">
  <xsd:sequence>
    <xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
    <xsd:element name="NomeFile" type="types:NomeFile_Type" />
    <xsd:element name="EsitoCommittente"
type="types:NotificaEsitoCommittente_Type"/>
    <xsd:element name="MessageId" type="types:MessageId_Type"/>
    <xsd:element name="PecMessageId" type="types:PecMessageId_Type" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="Note" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="ds:Signature"/>
  </xsd:sequence>
  <xsd:attribute name="versione" type="types:Versione_Type" use="required"
fixed="1.0"/>
  <xsd:attribute name="IntermediarioConDupliceRuolo" type="xsd:string" use="optional"
fixed="Si"/>
</xsd:complexType>
```



```
<xsd:complexType name="AttestazioneTrasmissioneFattura_Type">
  <xsd:sequence>
    <xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
    <xsd:element name="NomeFile" type="types:NomeFile_Type" />
    <xsd:element name="DataOraRicezione" type="xsd:dateTime" />
    <xsd:element name="RiferimentoArchivio" type="types:RiferimentoArchivio_Type"
minOccurs="0" maxOccurs="1"/>
    <xsd:element name="Destinatario" type="types:Destinatario_Type"/>
    <xsd:element name="MessageId" type="types:MessageId_Type"/>
    <xsd:element name="PecMessageId" type="types:PecMessageId_Type" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="Note" type="xsd:string" minOccurs="0" maxOccurs="1"/>
    <xsd:element name="HashFileOriginale" type="xsd:string" />
    <xsd:element ref="ds:Signature"/>
  </xsd:sequence>
  <xsd:attribute name="versione" type="types:Versione_Type" use="required"
fixed="1.0"/>
</xsd:complexType>

<xsd:complexType name="RiferimentoArchivio_Type">
  <xsd:sequence>
    <xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
    <xsd:element name="NomeFile" type="types:NomeFile_Type"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ListaErrori_Type">
  <xsd:sequence>
    <xsd:element name="Errore" type="types:Errore_Type" minOccurs="1"
maxOccurs="200"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="Errore_Type">
  <xsd:sequence>
    <xsd:element name="Codice" type="types:Codice_Type" />
    <xsd:element name="Descrizione" type="types:Descrizione_Type" />
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="Codice_Type">
  <xsd:restriction base="xsd:string">
    <xsd:length value="5"/>
  </xsd:restriction>
</xsd:simpleType>

<!-- ===== -->
<!-- TIPI PER RICEVENTI -->
<!-- ===== -->
<xsd:complexType name="MetadatiInvioFile_Type">
  <xsd:sequence>
    <xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
    <xsd:element name="NomeFile" type="types:NomeFile_Type" />
    <xsd:element name="CodiceDestinatario" type="types:CodiceDestinatario_Type" />
    <xsd:element name="Formato" type="types:Formato_Type" />
    <xsd:element name="TentativiInvio" type="xsd:integer" />
    <xsd:element name="MessageId" type="types:MessageId_Type"/>
    <xsd:element name="Note" type="xsd:string" minOccurs="0" maxOccurs="1"/>
  </xsd:sequence>
  <xsd:attribute name="versione" type="types:Versione_Type" use="required"
fixed="1.0"/>
</xsd:complexType>

<xsd:complexType name="NotificaEsitoCommittente_Type">
  <xsd:sequence>
```



```
<xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
<xsd:element name="RiferimentoFattura" type="types:RiferimentoFattura_Type"
minOccurs="0" maxOccurs="1" />
<xsd:element name="Esito" type="types:EsitoCommittente_Type" />
<xsd:element name="Descrizione" type="types:Descrizione_Type" minOccurs="0" />
<xsd:element name="MessageIdCommittente" type="types:MessageId_Type"
minOccurs="0" maxOccurs="1"/>
<xsd:element ref="ds:Signature" minOccurs="0" maxOccurs="1"/>
</xsd:sequence>
<xsd:attribute name="versione" type="types:Versione_Type" use="required"
fixed="1.0"/>
</xsd:complexType>

<xsd:complexType name="ScartoEsitoCommittente_Type">
<xsd:sequence>
<xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
<xsd:element name="RiferimentoFattura" type="types:RiferimentoFattura_Type"
minOccurs="0" maxOccurs="1"/>
<xsd:element name="Scarto" type="types:Scarto_Type" />
<xsd:element name="MessageId" type="types:MessageId_Type"/>
<xsd:element name="MessageIdCommittente" type="types:MessageId_Type"
minOccurs="0" maxOccurs="1"/>
<xsd:element name="PecMessageId" type="types:PecMessageId_Type" minOccurs="0"
maxOccurs="1"/>
<xsd:element name="Note" type="xsd:string" minOccurs="0" maxOccurs="1"/>
<xsd:element ref="ds:Signature"/>
</xsd:sequence>
<xsd:attribute name="versione" type="types:Versione_Type" use="required"
fixed="1.0"/>
</xsd:complexType>

<xsd:complexType name="NotificaDecorrenzaTermini_Type">
<xsd:sequence>
<xsd:element name="IdentificativoSdI" type="types:IdentificativoSdI_Type" />
<xsd:element name="RiferimentoFattura" type="types:RiferimentoFattura_Type"
minOccurs="0" maxOccurs="1"/>
<xsd:element name="NomeFile" type="types:NomeFile_Type" />
<xsd:element name="Descrizione" type="types:Descrizione_Type" minOccurs="0" />
<xsd:element name="MessageId" type="types:MessageId_Type"/>
<xsd:element name="PecMessageId" type="types:PecMessageId_Type" minOccurs="0"
maxOccurs="1"/>
<xsd:element name="Note" type="xsd:string" minOccurs="0" maxOccurs="1"/>
<xsd:element ref="ds:Signature"/>
</xsd:sequence>
<xsd:attribute name="versione" type="types:Versione_Type" use="required"
fixed="1.0"/>
<xsd:attribute name="IntermediarioConDupliceRuolo" type="xsd:string" use="optional"
fixed="Si"/>
</xsd:complexType>

<xsd:simpleType name="CodiceDestinatario_Type">
<xsd:restriction base="xsd:string">
<xsd:pattern value="[A-Z0-9]{6,7}"/>
</xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="Formato_Type">
<xsd:restriction base="xsd:string">
<xsd:maxLength value="5"/>
</xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="EsitoCommittente_Type">
<xsd:restriction base="xsd:string">
<xsd:enumeration value="EC01"/>
</xsd:restriction>
</xsd:simpleType>
```



```
<xsd:annotation>
  <xsd:documentation>
    EC01 = ACCETTAZIONE
  </xsd:documentation>
</xsd:annotation>
</xsd:enumeration>
<xsd:enumeration value="EC02">
  <xsd:annotation>
    <xsd:documentation>
      EC02 = RIFIUTO
    </xsd:documentation>
  </xsd:annotation>
</xsd:enumeration>
</xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="Scarto_Type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="EN00">
      <xsd:annotation>
        <xsd:documentation>
          EN00 = NOTIFICA NON CONFORME AL FORMATO
        </xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="EN01">
      <xsd:annotation>
        <xsd:documentation>
          EN01 = NOTIFICA NON AMMISSIBILE
        </xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
  </xsd:restriction>
</xsd:simpleType>

<!-- ===== -->
<!-- TIPI COMUNI -->
<!-- ===== -->
<xsd:simpleType name="IdentificativoSdI_Type">
  <xsd:restriction base="xsd:integer">
    <xsd:totalDigits value="12" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="NomeFile_Type">
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="50" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="RiferimentoFattura_Type">
  <xsd:sequence>
    <xsd:element name="NumeroFattura" type="types:NumeroFattura_Type" />
    <xsd:element name="AnnoFattura" type="types:AnnoFattura_Type" />
    <xsd:element name="PosizioneFattura" type="xsd:positiveInteger" minOccurs="0"
maxOccurs="1" />
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="NumeroFattura_Type">
  <xsd:restriction base="xsd:normalizedString">
    <xsd:pattern value="(\p{IsBasicLatin}{1,20})" />
  </xsd:restriction>
</xsd:simpleType>
```



```
<xsd:simpleType name="AnnoFattura_Type">
  <xsd:restriction base="xsd:nonNegativeInteger">
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="MessageId_Type">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="1" />
    <xsd:maxLength value="14" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="PecMessageId_Type">
  <xsd:restriction base="xsd:string" />
</xsd:simpleType>

<xsd:simpleType name="Descrizione_Type">
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="255" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="Versione_Type">
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="5"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="Destinatario_Type">
  <xsd:sequence>
    <xsd:element name="Codice" type="types:CodiceDestinatario_Type" />
    <xsd:element name="Descrizione" type="xsd:string" />
  </xsd:sequence>
</xsd:complexType>
</xsd:schema>
```

xmldsig-core-schema.xsd

```
<?xml version="1.0" encoding="utf-8"?>
<!--!DOCTYPE schema
  PUBLIC "-//W3C//DTD XMLSchema 200102//EN" "http://www.w3.org/2001/XMLSchema.dtd"
[
  <!ATTLIST schema
    xmlns:ds CDATA #FIXED "http://www.w3.org/2000/09/xmldsig#">
  <!ENTITY dsig 'http://www.w3.org/2000/09/xmldsig#'>
  <!ENTITY % p ''>
  <!ENTITY % s ''>
]>

--><!-- Schema for XML Signatures
  http://www.w3.org/2000/09/xmldsig#
  $Revision: 1.1 $ on $Date: 2002/02/08 20:32:26 $ by $Author: reagle $

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  Automatique, Keio University). All Rights Reserved.
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  in the FAQ [2].

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



```
<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>

  <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>
```



```
</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>
  <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>

<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:DSACKey"/>
    <element ref="ds:RSACKey"/>
    <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:X509Data"/>
<complexType name="X509Data">
  <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="X509IssuerSerial">
  <sequence>
    <element name="X509IssuerName" type="string"/>
    <element name="X509SerialNumber" type="integer"/>
  </sequence>
</complexType>

<!-- End X509Data -->

<!-- Begin PGPDData -->

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



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

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

<!-- End Signature -->

</schema>
```