Schema **MensajeReceptor.xsd**

schema location: e:\Documents\NetBeansProjects\Ministerio de Hacienda\xml-schemas\MensajeReceptor.xsd
attributeFormDefault: **unqualified**
elementFormDefault: **qualified**
targetNamespace: **https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor**

Elements
MensajeReceptor

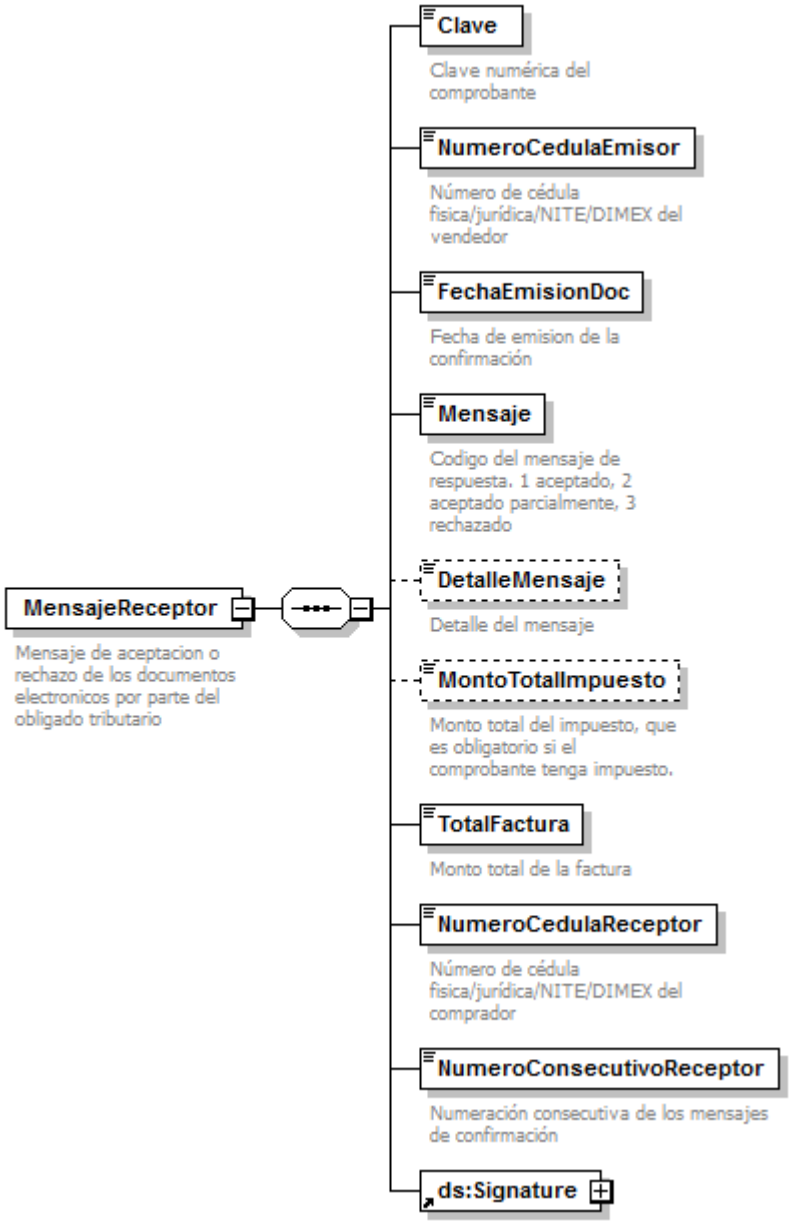
schema location: C:\Program Files\Altova\Common2016\Schemas\xmldsig\files\xmldsig-core-schema.xsd
attributeFormDefault:
elementFormDefault: **qualified**
targetNamespace: **http://www.w3.org/2000/09/xmldsig#**

Elements
CanonicalizationMethod
DigestMethod
DigestValue
DSAKeyValue
KeyInfo
KeyName
KeyValue
Manifest
MgmtData
Object
PGPData
Reference
RetrievalMethod
RSAKeyValue
Signature
SignatureMethod
SignatureProperties
SignatureProperty
SignatureValue
SignedInfo
SPKIData
Transform
Transforms
X509Data

Complex types
CanonicalizationMethodType
DigestMethodType
DSAKeyValueType
KeyInfoType
KeyValueType
ManifestType
ObjectType
PGPDataType
ReferenceType
RetrievalMethodType
RSAKeyValueType
SignatureMethodType
SignaturePropertiesType
SignaturePropertyType
SignatureType
SignatureValueType
SignedInfoType
SPKIDataType
TransformsType
TransformType
X509DataType
X509IssuerSerialType

Simple types
CryptoBinary
DigestValueType
HMACOutputLengthType

element **MensajeReceptor**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
properties	content complex
children	Clave NumeroCedulaEmisor FechaEmisionDoc Mensaje DetalleMensaje MontoTotalImpuesto TotalFactura NumeroCedulaReceptor NumeroConsecutivoReceptor ds:Signature
annotation	documentation Mensaje de aceptacion o rechazo de los documentos electronicos por parte del obligado tributario
source	<xs:element name="MensajeReceptor"> <xs:annotation> <xs:documentation>Mensaje de aceptacion o rechazo de los documentos electronicos por parte del obligado tributario</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence>

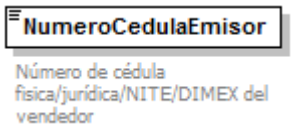
```
      <xs:element name="Clave">
        <xs:annotation>
          <xs:documentation>Clave numérica del comprobante</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:pattern value="\d{50,50}"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="NumeroCedulaEmisor">
        <xs:annotation>
          <xs:documentation>Número de cédula fisica/jurídica/NITE/DIMEX del
vendedor</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:integer">
            <xs:totalDigits value="12"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="FechaEmisionDoc" type="xs:dateTime">
        <xs:annotation>
          <xs:documentation>Fecha de emision de la confirmación</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="Mensaje">
        <xs:annotation>
          <xs:documentation>Codigo del mensaje de respuesta. 1 aceptado, 2 aceptado
parcialmente, 3 rechazado</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:integer">
            <xs:enumeration value="1">
              <xs:annotation>
                <xs:documentation>Aceptado</xs:documentation>
              </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="2">
              <xs:annotation>
                <xs:documentation>Aceptado Parcialmente</xs:documentation>
              </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="3">
              <xs:annotation>
                <xs:documentation>Rechazado</xs:documentation>
              </xs:annotation>
            </xs:enumeration>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="DetalleMensaje" minOccurs="0">
        <xs:annotation>
          <xs:documentation>Detalle del mensaje</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
```

```
        <xs:restriction base="xs:string">
          <xs:maxLength value="80"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="MontoTotalImpuesto" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Monto total del impuesto, que es obligatorio si el comprobante tenga
impuesto.</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:decimal">
          <xs:totalDigits value="18"/>
          <xs:fractionDigits value="5"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="TotalFactura">
      <xs:annotation>
        <xs:documentation>Monto total de la factura</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:decimal">
          <xs:totalDigits value="18"/>
          <xs:fractionDigits value="5"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="NumeroCedulaReceptor">
      <xs:annotation>
        <xs:documentation>Número de cédula fisica/jurídica/NITE/DIMEX del
comprador</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:integer">
          <xs:totalDigits value="12"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="NumeroConsecutivoReceptor">
      <xs:annotation>
        <xs:documentation>Numeración consecutiva de los mensajes de
confirmación</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="\d{20,20}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element ref="ds:Signature" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
 </xs:complexType>
</xs:element>
```

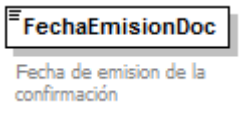
element **MensajeReceptor/Clave**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
type	restriction of **xs:string**
properties	content simple
facets	Kind Value Annotation pattern \d{50,50}
annotation	documentation Clave numérica del comprobante
source	<xs:element name="Clave"> <xs:annotation> <xs:documentation>Clave numérica del comprobante</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="\d{50,50}"/> </xs:restriction> </xs:simpleType> </xs:element>

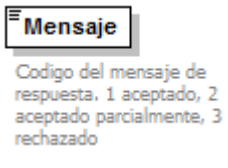
element **MensajeReceptor/NumeroCedulaEmisor**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
type	restriction of **xs:integer**
properties	content simple
facets	Kind Value Annotation totalDigits 12
annotation	documentation Número de cédula fisica/jurídica/NITE/DIMEX del vendedor
source	<xs:element name="NumeroCedulaEmisor"> <xs:annotation> <xs:documentation>Número de cédula fisica/jurídica/NITE/DIMEX del vendedor</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:totalDigits value="12"/> </xs:restriction> </xs:simpleType> </xs:element>

element **MensajeReceptor/FechaEmisionDoc**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
type	**xs:dateTime**
properties	content simple
annotation	documentation Fecha de emision de la confirmación
source	<xs:element name="FechaEmisionDoc" type="xs:dateTime"> <xs:annotation> <xs:documentation>Fecha de emision de la confirmación</xs:documentation> </xs:annotation> </xs:element>

element **MensajeReceptor/Mensaje**

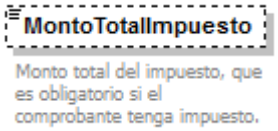
diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
type	restriction of **xs:integer**
properties	content simple
facets	Kind / Value / Annotation enumeration 1 — documentation: Aceptado enumeration 2 — documentation: Aceptado Parcialmente enumeration 3 — documentation: Rechazado
annotation	documentation Codigo del mensaje de respuesta. 1 aceptado, 2 aceptado parcialmente, 3 rechazado
source	<xs:element name="Mensaje"> <xs:annotation> <xs:documentation>Codigo del mensaje de respuesta. 1 aceptado, 2 aceptado parcialmente, 3 rechazado</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:enumeration value="1"> <xs:annotation> <xs:documentation>Aceptado</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="2"> <xs:annotation> <xs:documentation>Aceptado Parcialmente</xs:documentation> </xs:annotation>

```
      </xs:enumeration>
      <xs:enumeration value="3">
        <xs:annotation>
          <xs:documentation>Rechazado</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

element **MensajeReceptor/DetalleMensaje**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
type	restriction of **xs:string**
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation maxLength 80
annotation	documentation Detalle del mensaje
source	<xs:element name="DetalleMensaje" minOccurs="0"> <xs:annotation> <xs:documentation>Detalle del mensaje</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="80"/> </xs:restriction> </xs:simpleType> </xs:element>

element **MensajeReceptor/MontoTotalImpuesto**

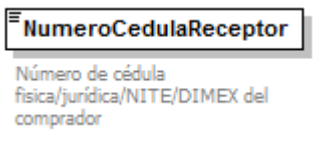
diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
type	restriction of **xs:decimal**
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation totalDigits 18 fractionDigits 5
annotation	documentation Monto total del impuesto, que es obligatorio si el comprobante tenga impuesto.

source	<xs:element name="MontoTotalImpuesto" minOccurs="0"> <xs:annotation> <xs:documentation>Monto total del impuesto, que es obligatorio si el comprobante tenga impuesto.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:totalDigits value="18"/> <xs:fractionDigits value="5"/> </xs:restriction> </xs:simpleType> </xs:element>

element **MensajeReceptor/TotalFactura**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
type	restriction of **xs:decimal**
properties	content simple
facets	Kind Value Annotation totalDigits 18 fractionDigits 5
annotation	documentation Monto total de la factura
source	<xs:element name="TotalFactura"> <xs:annotation> <xs:documentation>Monto total de la factura</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:totalDigits value="18"/> <xs:fractionDigits value="5"/> </xs:restriction> </xs:simpleType> </xs:element>

element **MensajeReceptor/NumeroCedulaReceptor**

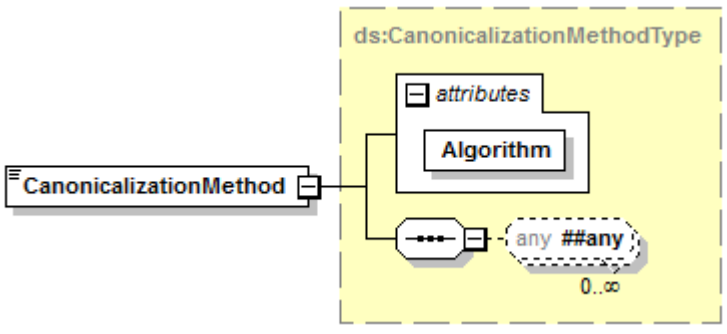
diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
type	restriction of **xs:integer**
properties	content simple
facets	Kind Value Annotation totalDigits 12

annotation	documentation Número de cédula fisica/jurídica/NITE/DIMEX del comprador
source	<xs:element name="NumeroCedulaReceptor"> <xs:annotation> <xs:documentation>Número de cédula fisica/jurídica/NITE/DIMEX del comprador</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:totalDigits value="12"/> </xs:restriction> </xs:simpleType> </xs:element>

element **MensajeReceptor/NumeroConsecutivoReceptor**

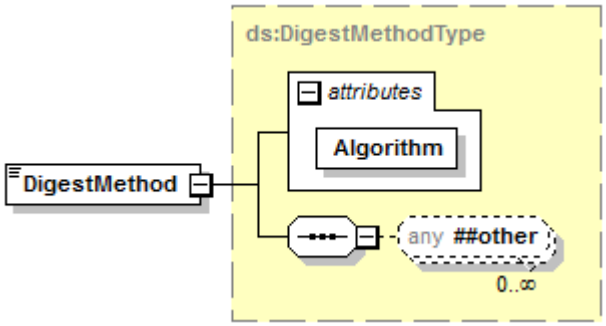
diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4/mensajeReceptor
type	restriction of **xs:string**
properties	content simple
facets	Kind Value Annotation pattern \d{20,20}
annotation	documentation Numeración consecutiva de los mensajes de confirmación
source	<xs:element name="NumeroConsecutivoReceptor"> <xs:annotation> <xs:documentation>Numeración consecutiva de los mensajes de confirmación</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="\d{20,20}"/> </xs:restriction> </xs:simpleType> </xs:element>

element **CanonicalizationMethod**

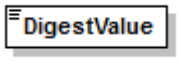
diagram	

namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CanonicalizationMethodType**
properties	content complex mixed true
used by	complexType **SignedInfoType**
attributes	Name: Algorithm; Type: **xs:anyURI**; Use: required; Default; Fixed; Annotation
source	<xs:element name="CanonicalizationMethod" type="ds:CanonicalizationMethodType"/>

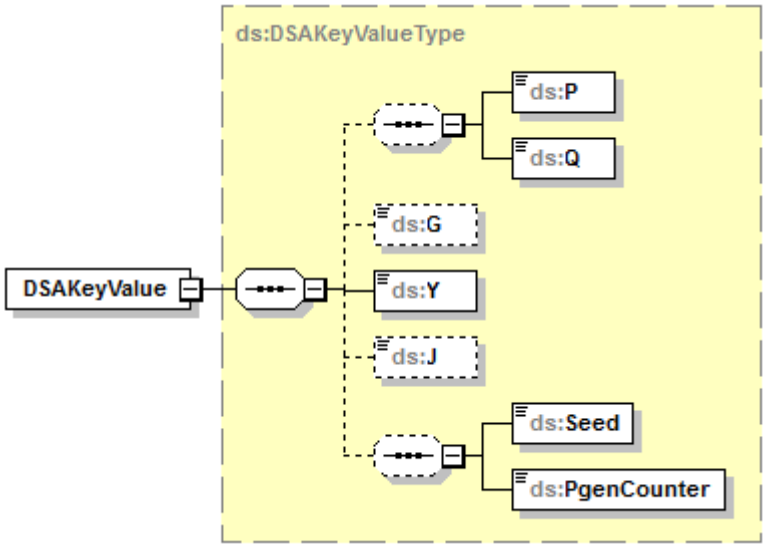
element **DigestMethod**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:DigestMethodType**
properties	content complex mixed true
used by	complexType **ReferenceType**
attributes	Name: Algorithm; Type: **xs:anyURI**; Use: required; Default; Fixed; Annotation
source	<xs:element name="DigestMethod" type="ds:DigestMethodType"/>

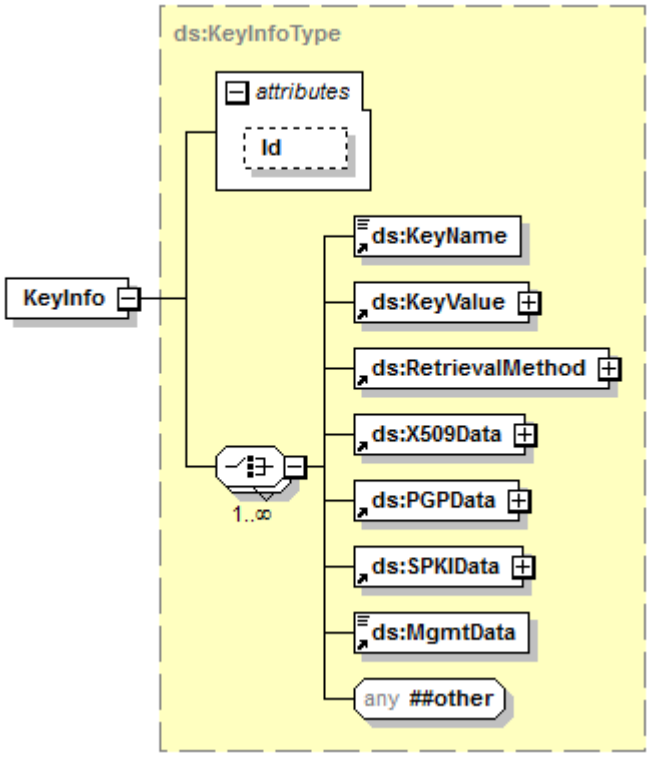
element **DigestValue**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:DigestValueType**
properties	content simple
used by	complexType **ReferenceType**
source	<xs:element name="DigestValue" type="ds:DigestValueType"/>

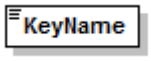
element **DSAKeyValue**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:DSAKeyValueType**
properties	content complex
children	**ds:P** **ds:Q** **ds:G** **ds:Y** **ds:J** **ds:Seed** **ds:PgenCounter**
used by	complexType **KeyValueType**
source	<xs:element name="DSAKeyValue" type="ds:DSAKeyValueType"/>

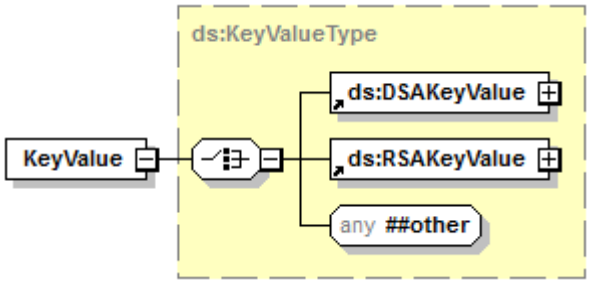
element **KeyInfo**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:KeyInfoType**
properties	content complex mixed true
children	**ds:KeyName** **ds:KeyValue** **ds:RetrievalMethod** **ds:X509Data** **ds:PGPData** **ds:SPKIData** **ds:MgmtData**
used by	complexType **SignatureType**
attributes	Name: Id; Type: **xs:ID**; Use: optional; Default: ; Fixed: ; Annotation:
source	<xs:element name="KeyInfo" type="ds:KeyInfoType"/>

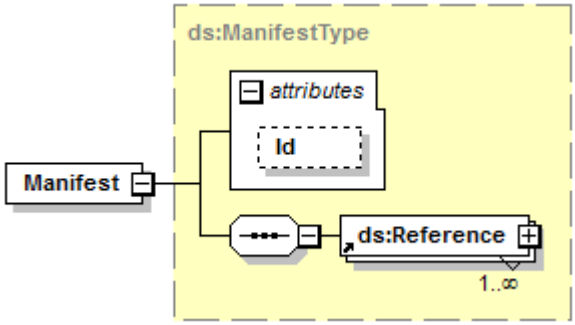
element **KeyName**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:string**
properties	content simple
used by	complexType **KeyInfoType**
source	<xs:element name="KeyName" type="string"/>

element **KeyValue**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:KeyValueType**
properties	content complex mixed true
children	**ds:DSAKeyValue** **ds:RSAKeyValue**
used by	complexType **KeyInfoType**
source	<xs:element name="KeyValue" type="ds:KeyValueType"/>

element **Manifest**

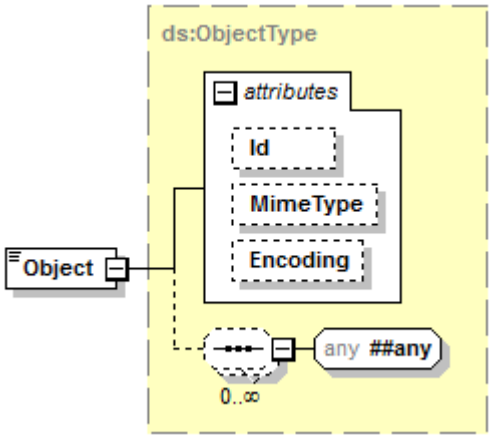
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:ManifestType**
properties	content complex
children	**ds:Reference**
attributes	Name: Id; Type: **xs:ID**; Use: optional; Default; Fixed; Annotation
source	<xs:element name="Manifest" type="ds:ManifestType"/>

element **MgmtData**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:string**
properties	content simple

used by	complexType **KeyInfoType**
source	<xs:element name="MgmtData" type="string"/>

element **Object**

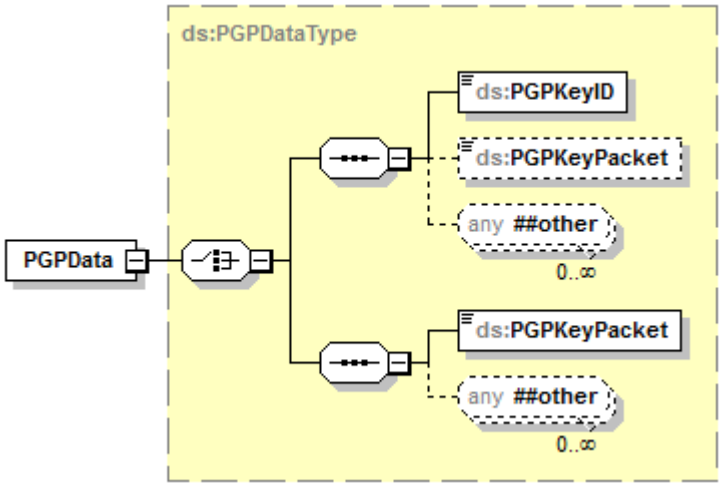
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:ObjectType**
properties	content complex mixed true
used by	complexType **SignatureType**

attributes

Name	Type	Use	Default	Fixed	Annotation
Id	**xs:ID**	optional			
MimeType	**xs:string**	optional			
Encoding	**xs:anyURI**	optional			

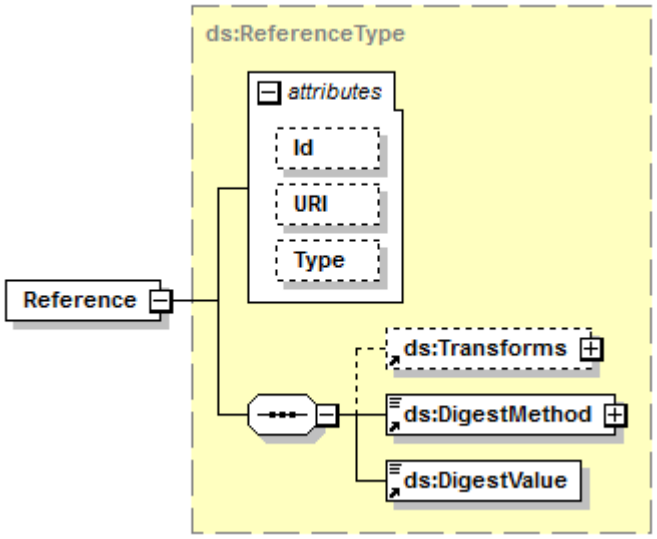
source <xs:element name="Object" type="ds:ObjectType"/>

element **PGPData**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#

type	**ds:PGPDataType**
properties	content complex
children	**ds:PGPKeyID** **ds:PGPKeyPacket** **ds:PGPKeyPacket**
used by	complexType **KeyInfoType**
source	<xs:element name="PGPData" type="ds:PGPDataType"/>

element **Reference**

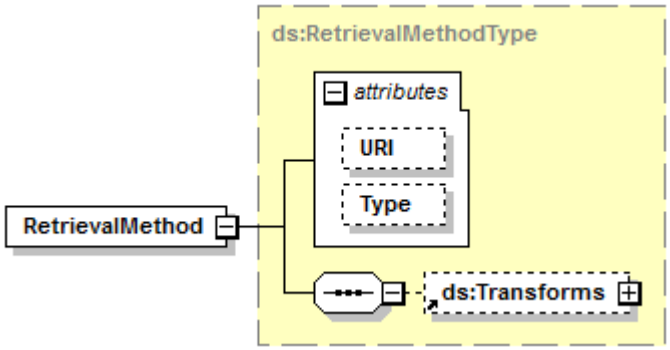
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:ReferenceType**
properties	content complex
children	**ds:Transforms** **ds:DigestMethod** **ds:DigestValue**
used by	complexTypes **ManifestType** **SignedInfoType**

attributes

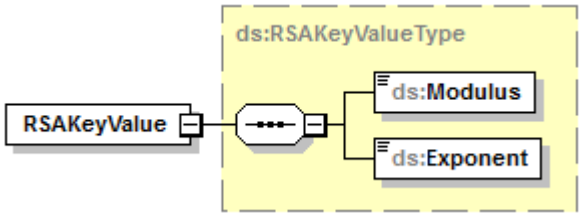
Name	Type	Use	Default	Fixed	Annotation
Id	**xs:ID**	optional			
URI	**xs:anyURI**	optional			
Type	**xs:anyURI**	optional			

source	<xs:element name="Reference" type="ds:ReferenceType"/>

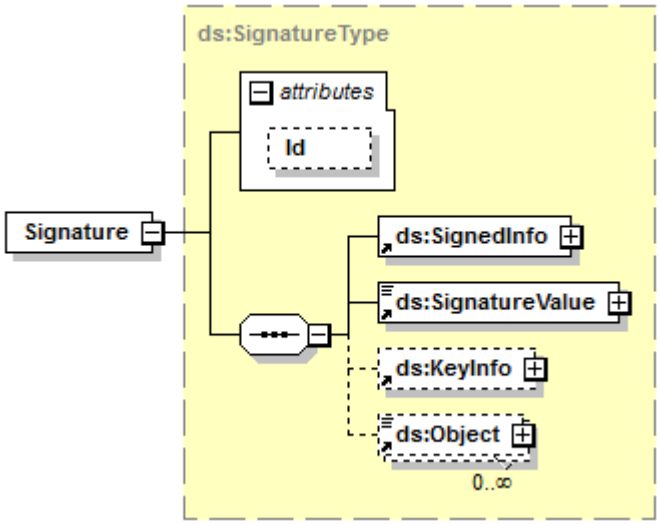
element **RetrievalMethod**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:RetrievalMethodType**
properties	content complex
children	**ds:Transforms**
used by	complexType **KeyInfoType**
attributes	Name / Type / Use / Default / Fixed / Annotation URI **xs:anyURI** Type **xs:anyURI** optional
source	<xs:element name="RetrievalMethod" type="ds:RetrievalMethodType"/>

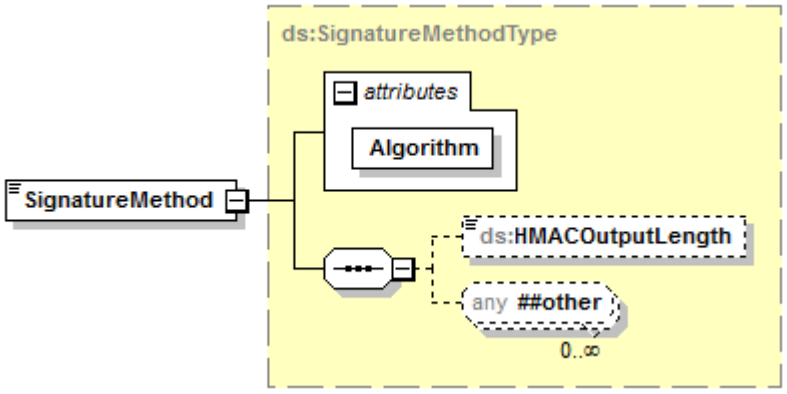
element **RSAKeyValue**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:RSAKeyValueType**
properties	content complex
children	**ds:Modulus** **ds:Exponent**
used by	complexType **KeyValueType**
source	<xs:element name="RSAKeyValue" type="ds:RSAKeyValueType"/>

element **Signature**

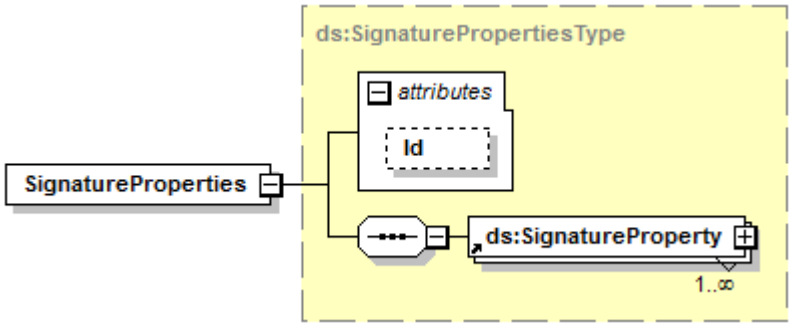
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SignatureType**
properties	content complex
children	**ds:SignedInfo** **ds:SignatureValue** **ds:KeyInfo** **ds:Object**
used by	element **MensajeReceptor**
attributes	Name: Id; Type: **xs:ID**; Use: optional; Default: ; Fixed: ; Annotation:
source	<xs:element name="Signature" type="ds:SignatureType"/>

element **SignatureMethod**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SignatureMethodType**
properties	content complex mixed true
children	**ds:HMACOutputLength**
used by	complexType **SignedInfoType**

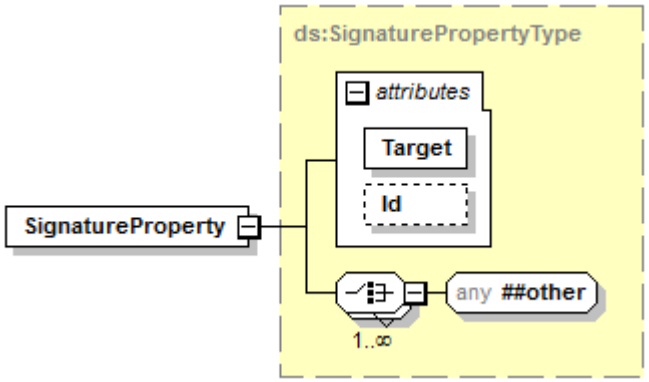
attributes	Name	Type	Use	Default	Fixed	Annotation
	Algorithm	**xs:anyURI**	required			
source	<xs:element name="SignatureMethod" type="ds:SignatureMethodType"/>					

element **SignatureProperties**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SignaturePropertiesType**
properties	content complex
children	**ds:SignatureProperty**

attributes	Name	Type	Use	Default	Fixed	Annotation
	Id	**xs:ID**	optional			
source	<xs:element name="SignatureProperties" type="ds:SignaturePropertiesType"/>					

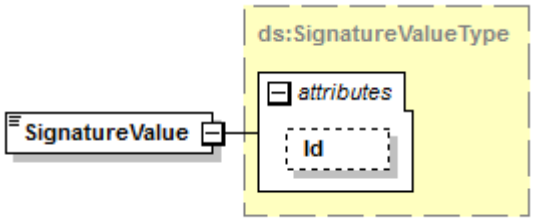
element **SignatureProperty**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SignaturePropertyType**
properties	content complex mixed true
used by	complexType **SignaturePropertiesType**

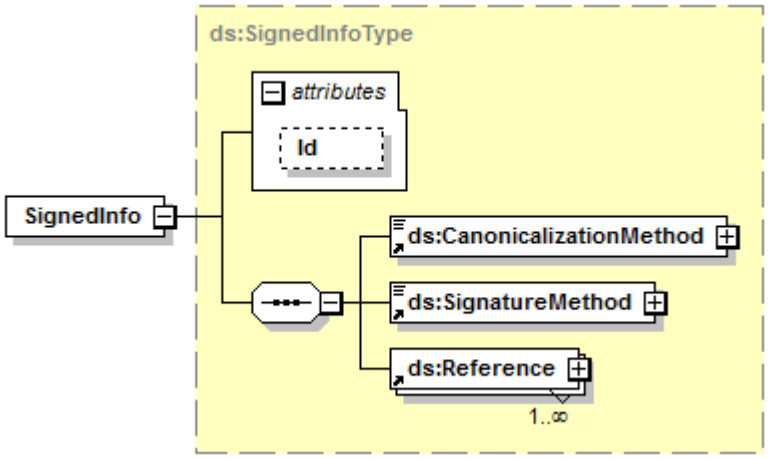
attributes	Name	Type	Use	Default	Fixed	Annotation
	Target	**xs:anyURI**	required			
	Id	**xs:ID**	optional			

source	<xs:element name="SignatureProperty" type="ds:SignaturePropertyType"/>

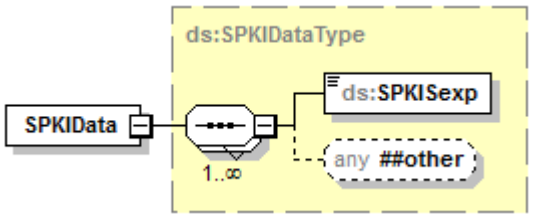
element **SignatureValue**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SignatureValueType**
properties	content complex
used by	complexType **SignatureType**
attributes	Name Type Use Default Fixed Annotation Id **xs:ID** optional
source	<xs:element name="SignatureValue" type="ds:SignatureValueType"/>

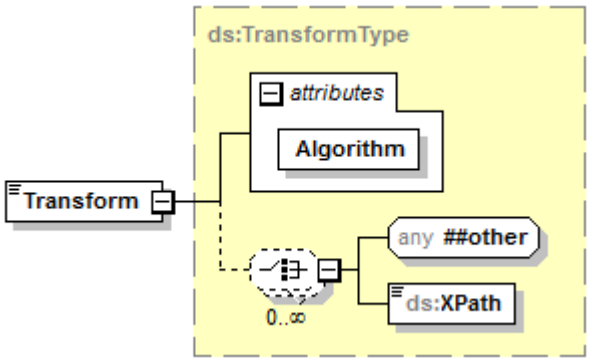
element **SignedInfo**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SignedInfoType**
properties	content complex
children	**ds:CanonicalizationMethod** **ds:SignatureMethod** **ds:Reference**
used by	complexType **SignatureType**
attributes	Name Type Use Default Fixed Annotation Id **xs:ID** optional
source	<xs:element name="SignedInfo" type="ds:SignedInfoType"/>

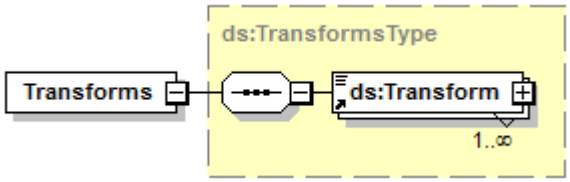
element **SPKIData**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SPKIDataType**
properties	content complex
children	**ds:SPKISexp**
used by	complexType **KeyInfoType**
source	<xs:element name="SPKIData" type="ds:SPKIDataType"/>

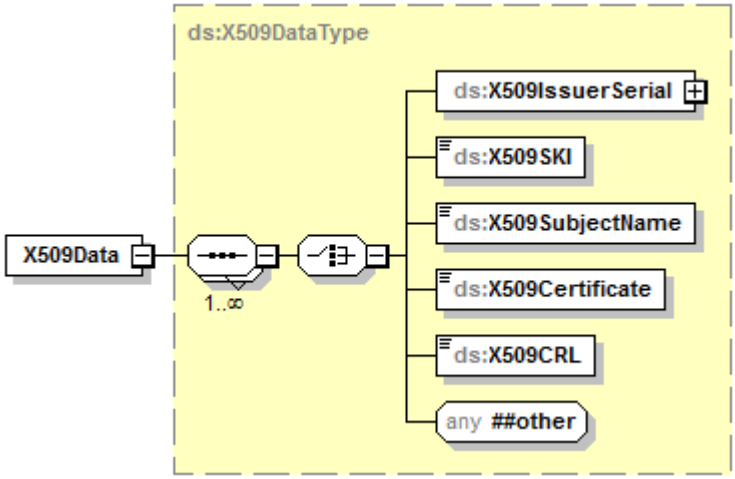
element **Transform**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:TransformType**
properties	content complex mixed true
children	**ds:XPath**
used by	complexType **TransformsType**
attributes	Name: Algorithm; Type: **xs:anyURI**; Use: required; Default: ; Fixed: ; Annotation:
source	<xs:element name="Transform" type="ds:TransformType"/>

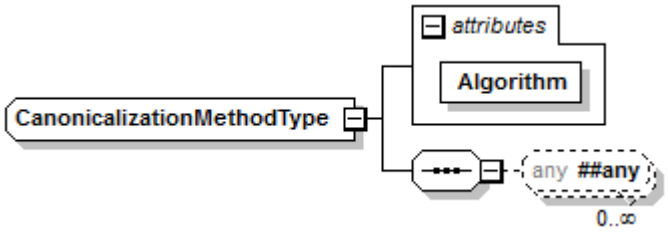
element **Transforms**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:TransformsType**
properties	content complex
children	**ds:Transform**
used by	complexTypes **ReferenceType** **RetrievalMethodType**
source	<xs:element name="Transforms" type="ds:TransformsType"/>

element **X509Data**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:X509DataType**
properties	content complex
children	**ds:X509IssuerSerial** **ds:X509SKI** **ds:X509SubjectName** **ds:X509Certificate** **ds:X509CRL**
used by	complexType **KeyInfoType**
source	<xs:element name="X509Data" type="ds:X509DataType"/>

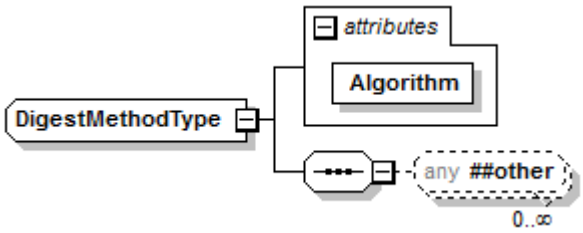
complexType **CanonicalizationMethodType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
properties	mixed true
used by	element **CanonicalizationMethod**
attributes	Name: Algorithm; Type: **xs:anyURI**; Use: required; Default: ; Fixed: ; Annotation:
source	<xs:complexType name="CanonicalizationMethodType" mixed="true"> <xs:sequence> <xs:any namespace="##any" minOccurs="0" maxOccurs="unbounded"/> <!-- (0,unbounded) elements from (1,1) namespace --> </xs:sequence> <xs:attribute name="Algorithm" type="anyURI" use="required"/> </xs:complexType>

attribute **CanonicalizationMethodType/@Algorithm**

type	**xs:anyURI**
properties	use required
source	<xs:attribute name="Algorithm" type="anyURI" use="required"/>

complexType **DigestMethodType**

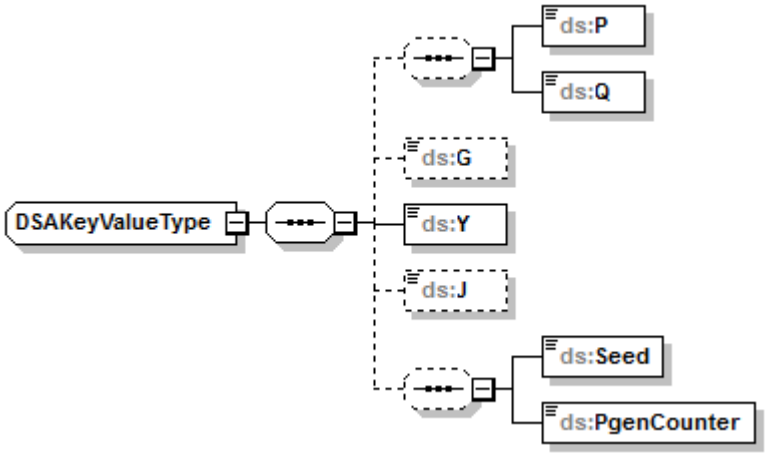
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
properties	mixed true
used by	element **DigestMethod**
attributes	Name: Algorithm; Type: **xs:anyURI**; Use: required; Default: ; Fixed: ; Annotation:
source	<xs:complexType name="DigestMethodType" mixed="true"> <xs:sequence> <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence>

	<xs:attribute name="Algorithm" type="anyURI" use="required"/> </xs:complexType>

attribute **DigestMethodType/@Algorithm**

type	**xs:anyURI**
properties	use required
source	<xs:attribute name="Algorithm" type="anyURI" use="required"/>

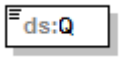
complexType **DSAKeyValueType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	ds:P ds:Q ds:G ds:Y ds:J ds:Seed ds:PgenCounter
used by	element DSAKeyValue
source	<xs:complexType name="DSAKeyValueType"> <xs:sequence> <xs:sequence minOccurs="0"> <xs:element name="P" type="ds:CryptoBinary"/> <xs:element name="Q" type="ds:CryptoBinary"/> </xs:sequence> <xs:element name="G" type="ds:CryptoBinary" minOccurs="0"/> <xs:element name="Y" type="ds:CryptoBinary"/> <xs:element name="J" type="ds:CryptoBinary" minOccurs="0"/> <xs:sequence minOccurs="0"> <xs:element name="Seed" type="ds:CryptoBinary"/> <xs:element name="PgenCounter" type="ds:CryptoBinary"/> </xs:sequence> </xs:sequence> </xs:complexType>

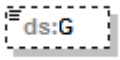
element **DSAKeyValueType/P**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CryptoBinary**
properties	content simple
source	<xs:element name="P" type="ds:CryptoBinary"/>

element **DSAKeyValueType/Q**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CryptoBinary**
properties	content simple
source	<xs:element name="Q" type="ds:CryptoBinary"/>

element **DSAKeyValueType/G**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CryptoBinary**
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="G" type="ds:CryptoBinary" minOccurs="0"/>

element **DSAKeyValueType/Y**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CryptoBinary**
properties	content simple
source	<xs:element name="Y" type="ds:CryptoBinary"/>

element **DSAKeyValueType/J**

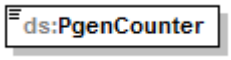
diagram	

namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CryptoBinary**
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="J" type="ds:CryptoBinary" minOccurs="0"/>

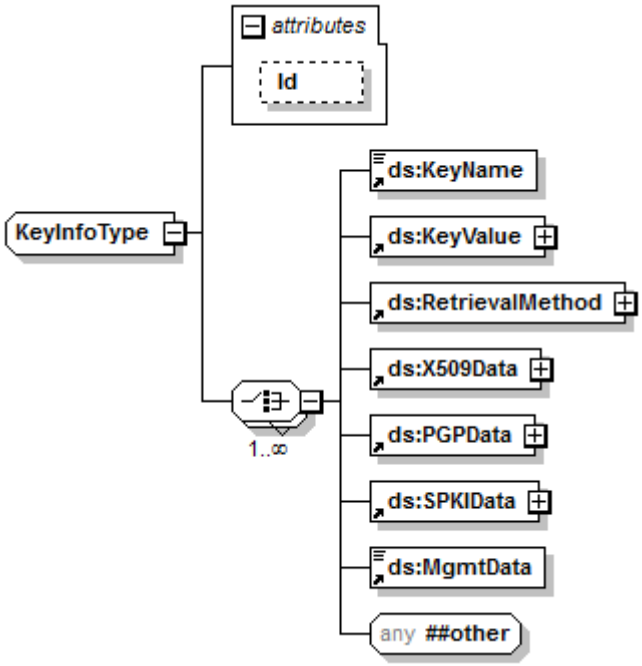
element **DSAKeyValueType/Seed**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CryptoBinary**
properties	content simple
source	<xs:element name="Seed" type="ds:CryptoBinary"/>

element **DSAKeyValueType/PgenCounter**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CryptoBinary**
properties	content simple
source	<xs:element name="PgenCounter" type="ds:CryptoBinary"/>

complexType **KeyInfoType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
properties	mixed true
children	**ds:KeyName** **ds:KeyValue** **ds:RetrievalMethod** **ds:X509Data** **ds:PGPData** **ds:SPKIData** **ds:MgmtData**
used by	element **KeyInfo**

attributes

Name	Type	Use	Default	Fixed	Annotation
Id	**xs:ID**	optional			

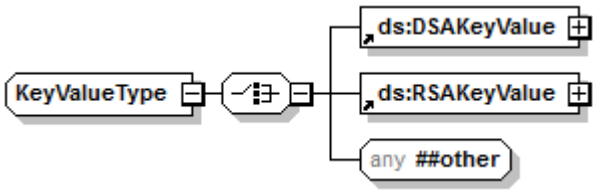
source

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

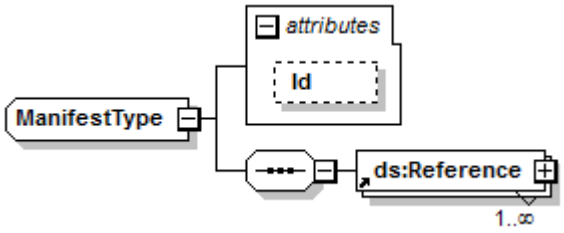
attribute **KeyInfoType/@Id**

type	**xs:ID**
properties	use optional
source	`<xs:attribute name="Id" type="ID" use="optional"/>`

complexType **KeyValueType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
properties	mixed true
children	**ds:DSAKeyValue** **ds:RSAKeyValue**
used by	element **KeyValue**
source	<xs:complexType name="KeyValueType" mixed="true"> <xs:choice> <xs:element ref="ds:DSAKeyValue"/> <xs:element ref="ds:RSAKeyValue"/> <xs:any namespace="##other" processContents="lax"/> </xs:choice> </xs:complexType>

complexType **ManifestType**

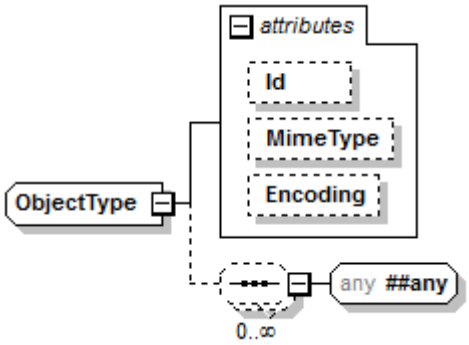
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:Reference**
used by	element **Manifest**
attributes	Name: Id; Type: **xs:ID**; Use: optional; Default: ; Fixed: ; Annotation:
source	<xs:complexType name="ManifestType"> <xs:sequence> <xs:element ref="ds:Reference" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="Id" type="ID" use="optional"/> </xs:complexType>

attribute **ManifestType/@Id**

type	**xs:ID**
properties	use optional

source	<xs:attribute name="Id" type="ID" use="optional"/>

complexType **ObjectType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
properties	mixed true
used by	element **Object**

attributes

Name	Type	Use	Default	Fixed	Annotation
Id	**xs:ID**	optional			
MimeType	**xs:string**	optional			
Encoding	**xs:anyURI**	optional			

source

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

attribute **ObjectType/@Id**

type	**xs:ID**
properties	use optional
source	<xs:attribute name="Id" type="ID" use="optional"/>

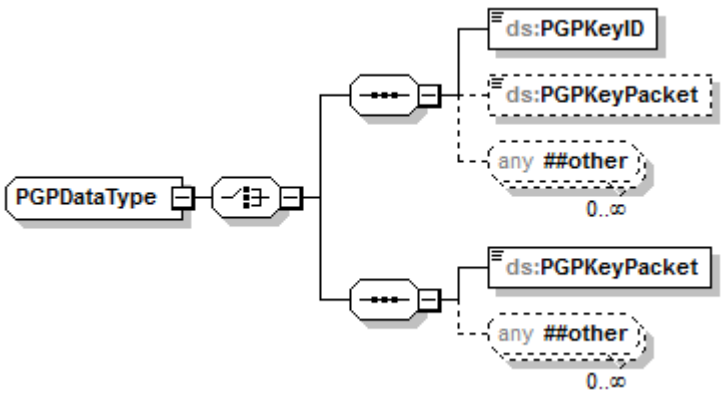
attribute **ObjectType/@MimeType**

type	**xs:string**
properties	use optional
source	<xs:attribute name="MimeType" type="string" use="optional"/>

attribute **ObjectType/@Encoding**

type	**xs:anyURI**
properties	use optional
source	<xs:attribute name="Encoding" type="anyURI" use="optional"/>

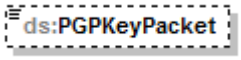
complexType **PGPDataType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:PGPKeyID** **ds:PGPKeyPacket** **ds:PGPKeyPacket**
used by	element **PGPData**
source	<xs:complexType name="PGPDataType"> <xs:choice> <xs:sequence> <xs:element name="PGPKeyID" type="base64Binary"/> <xs:element name="PGPKeyPacket" type="base64Binary" minOccurs="0"/> <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:sequence> <xs:element name="PGPKeyPacket" type="base64Binary"/> <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:choice> </xs:complexType>

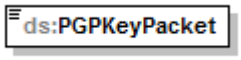
element **PGPDataType/PGPKeyID**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	content simple
source	<xs:element name="PGPKeyID" type="base64Binary"/>

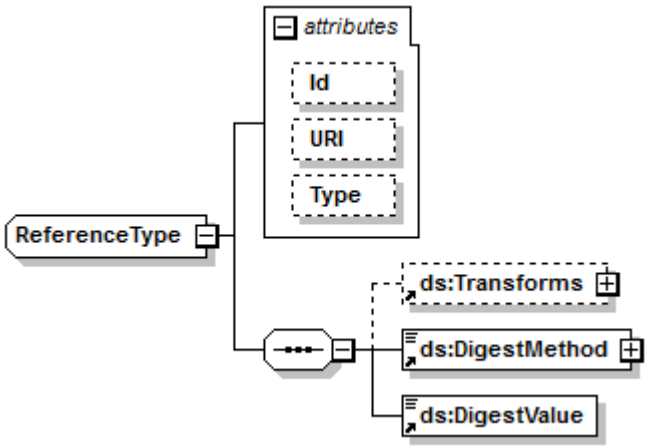
element **PGPDataType/PGPKeyPacket**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="PGPKeyPacket" type="base64Binary" minOccurs="0"/>

element **PGPDataType/PGPKeyPacket**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	content simple
source	<xs:element name="PGPKeyPacket" type="base64Binary"/>

complexType **ReferenceType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:Transforms** **ds:DigestMethod** **ds:DigestValue**
used by	element **Reference**

attributes

Name	Type	Use	Default	Fixed	Annotation
Id	**xs:ID**	optional			
URI	**xs:anyURI**	optional			
Type	**xs:anyURI**	optional			

source	<xs:complexType name="ReferenceType">

```
  <xs:sequence>
    <xs:element ref="ds:Transforms" minOccurs="0"/>
    <xs:element ref="ds:DigestMethod"/>
    <xs:element ref="ds:DigestValue"/>
  </xs:sequence>
  <xs:attribute name="Id" type="ID" use="optional"/>
  <xs:attribute name="URI" type="anyURI" use="optional"/>
  <xs:attribute name="Type" type="anyURI" use="optional"/>
</xs:complexType>
```

attribute **ReferenceType/@Id**

type	**xs:ID**
properties	use optional
source	<xs:attribute name="Id" type="ID" use="optional"/>

attribute **ReferenceType/@URI**

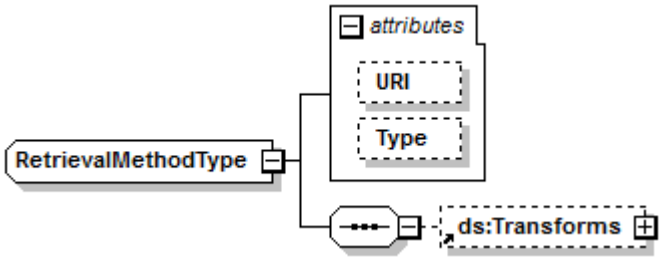
type	**xs:anyURI**
properties	use optional
source	<xs:attribute name="URI" type="anyURI" use="optional"/>

attribute **ReferenceType/@Type**

type	**xs:anyURI**
properties	use optional
source	<xs:attribute name="Type" type="anyURI" use="optional"/>

complexType **RetrievalMethodType**

diagram



namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:Transforms**
used by	element **RetrievalMethod**

attributes

Name	Type	Use	Default	Fixed	Annotation
URI	**xs:anyURI**				
Type	**xs:anyURI**	optional			

source

```
<xs:complexType name="RetrievalMethodType">
```

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

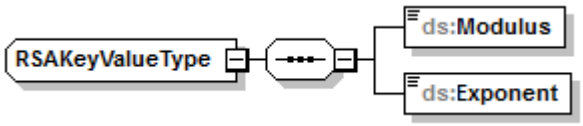
attribute **RetrievalMethodType/@URI**

type	**xs:anyURI**
source	<xs:attribute name="URI" type="anyURI"/>

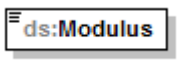
attribute **RetrievalMethodType/@Type**

type	**xs:anyURI**
properties	use optional
source	<xs:attribute name="Type" type="anyURI" use="optional"/>

complexType **RSAKeyValueType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:Modulus** **ds:Exponent**
used by	element **RSAKeyValue**
source	<xs:complexType name="RSAKeyValueType"> <xs:sequence> <xs:element name="Modulus" type="ds:CryptoBinary"/> <xs:element name="Exponent" type="ds:CryptoBinary"/> </xs:sequence> </xs:complexType>

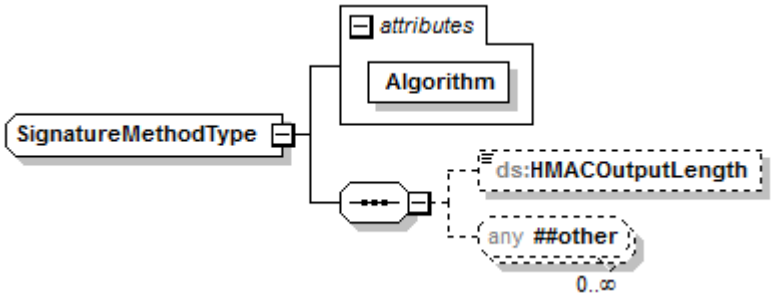
element **RSAKeyValueType/Modulus**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CryptoBinary**
properties	content simple
source	<xs:element name="Modulus" type="ds:CryptoBinary"/>

element **RSAKeyValueType/Exponent**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:CryptoBinary**
properties	content simple
source	<xs:element name="Exponent" type="ds:CryptoBinary"/>

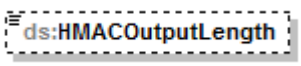
complexType **SignatureMethodType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
properties	mixed true
children	**ds:HMACOutputLength**
used by	element **SignatureMethod**
attributes	Name: Algorithm; Type: **xs:anyURI**; Use: required; Default: ; Fixed: ; Annotation:
source	<xs:complexType name="SignatureMethodType" mixed="true"> <xs:sequence> <xs:element name="HMACOutputLength" type="ds:HMACOutputLengthType" minOccurs="0"/> <xs:any namespace="##other" minOccurs="0" maxOccurs="unbounded"/> <!-- (0,unbounded) elements from (1,1) external namespace --> </xs:sequence> <xs:attribute name="Algorithm" type="anyURI" use="required"/> </xs:complexType>

attribute **SignatureMethodType/@Algorithm**

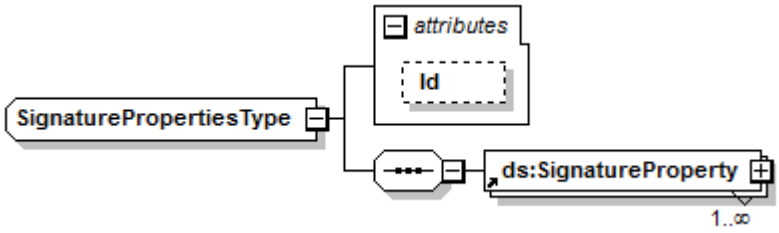
type	**xs:anyURI**
properties	use required
source	<xs:attribute name="Algorithm" type="anyURI" use="required"/>

element **SignatureMethodType/HMACOutputLength**

diagram	

namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:HMACOutputLengthType**
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="HMACOutputLength" type="ds:HMACOutputLengthType" minOccurs="0"/>

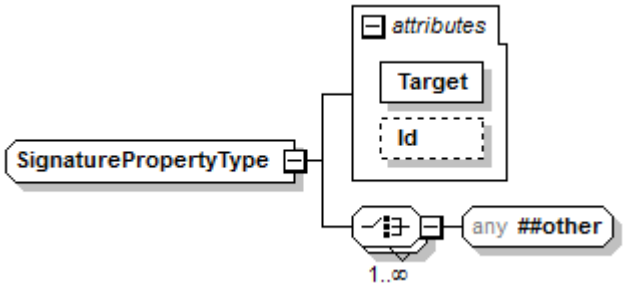
complexType **SignaturePropertiesType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:SignatureProperty**
used by	element **SignatureProperties**
attributes	Name: Id; Type: **xs:ID**; Use: optional; Default: ; Fixed: ; Annotation:
source	<xs:complexType name="SignaturePropertiesType"> <xs:sequence> <xs:element ref="ds:SignatureProperty" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="Id" type="ID" use="optional"/> </xs:complexType>

attribute **SignaturePropertiesType/@Id**

type	**xs:ID**
properties	use optional
source	<xs:attribute name="Id" type="ID" use="optional"/>

complexType **SignaturePropertyType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#

properties	mixed true
used by	element **SignatureProperty**
attributes	Name / Type / Use / Default / Fixed / Annotation Target — **xs:anyURI** — required Id — **xs:ID** — optional
source	<xs:complexType name="SignaturePropertyType" mixed="true"> <xs:choice maxOccurs="unbounded"> <xs:any namespace="##other" processContents="lax"/> <!-- (1,1) elements from (1,unbounded) namespaces --> </xs:choice> <xs:attribute name="Target" type="anyURI" use="required"/> <xs:attribute name="Id" type="ID" use="optional"/> </xs:complexType>

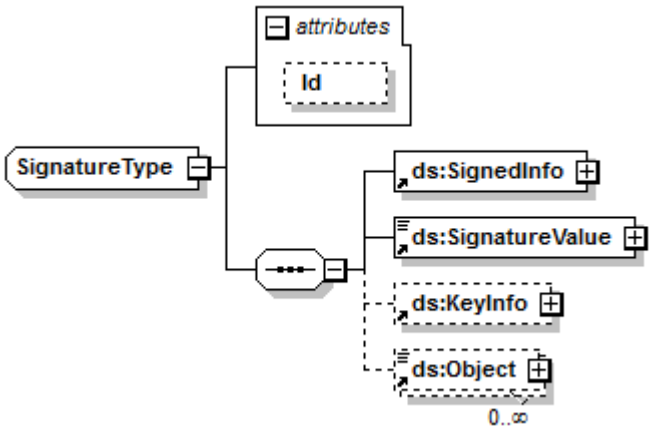
attribute **SignaturePropertyType/@Target**

type	**xs:anyURI**
properties	use required
source	<xs:attribute name="Target" type="anyURI" use="required"/>

attribute **SignaturePropertyType/@Id**

type	**xs:ID**
properties	use optional
source	<xs:attribute name="Id" type="ID" use="optional"/>

complexType **SignatureType**

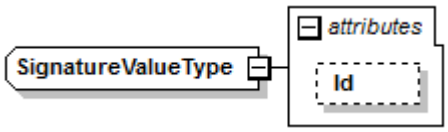
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:SignedInfo** **ds:SignatureValue** **ds:KeyInfo** **ds:Object**
used by	element **Signature**
attributes	Name / Type / Use / Default / Fixed / Annotation

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

attribute **SignatureType/@Id**

type	**xs:ID**
properties	use optional
source	<xs:attribute name="Id" type="ID" use="optional"/>

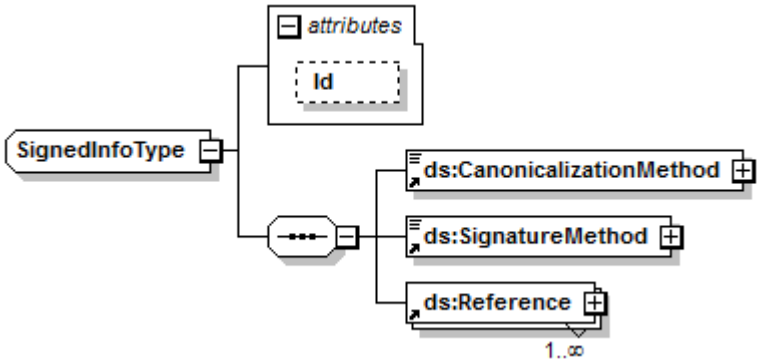
complexType **SignatureValueType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	extension of **xs:base64Binary**
properties	base base64Binary
used by	element **SignatureValue**
attributes	Name Type Use Default Fixed Annotation Id **xs:ID** optional
source	<xs:complexType name="SignatureValueType"> <xs:simpleContent> <xs:extension base="base64Binary"> <xs:attribute name="Id" type="ID" use="optional"/> </xs:extension> </xs:simpleContent> </xs:complexType>

attribute **SignatureValueType/@Id**

type	**xs:ID**
properties	use optional
source	<xs:attribute name="Id" type="ID" use="optional"/>

complexType **SignedInfoType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:CanonicalizationMethod** **ds:SignatureMethod** **ds:Reference**
used by	element **SignedInfo**

attributes

Name	Type	Use	Default	Fixed	Annotation
Id	**xs:ID**	optional			

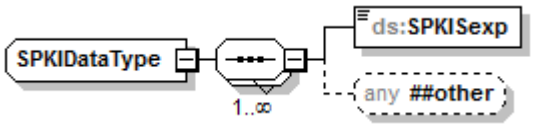
source

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

attribute **SignedInfoType/@Id**

type	**xs:ID**
properties	use optional
source	`<xs:attribute name="Id" type="ID" use="optional"/>`

complexType **SPKIDataType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:SPKISexp**
used by	element **SPKIData**

source

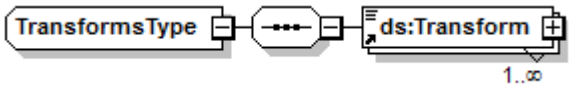
```
<xs:complexType name="SPKIDataType">
  <xs:sequence maxOccurs="unbounded">
    <xs:element name="SPKISexp" type="base64Binary"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0"/>
  </xs:sequence>
```

	</xs:complexType>

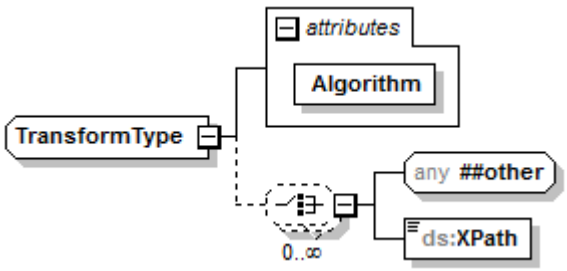
element **SPKIDataType/SPKISexp**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	content simple
source	<xs:element name="SPKISexp" type="base64Binary"/>

complexType **TransformsType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:Transform**
used by	element **Transforms**
source	<xs:complexType name="TransformsType"> <xs:sequence> <xs:element ref="ds:Transform" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType>

complexType **TransformType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
properties	mixed true
children	**ds:XPath**
used by	element **Transform**
attributes	Name: Algorithm; Type: **xs:anyURI**; Use: required; Default; Fixed; Annotation
source	<xs:complexType name="TransformType" mixed="true"> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:any namespace="##other" processContents="lax"/>

```
    <!-- (1,1) elements from (0,unbounded) namespaces -->
    <xs:element name="XPath" type="string"/>
  </xs:choice>
  <xs:attribute name="Algorithm" type="anyURI" use="required"/>
</xs:complexType>
```

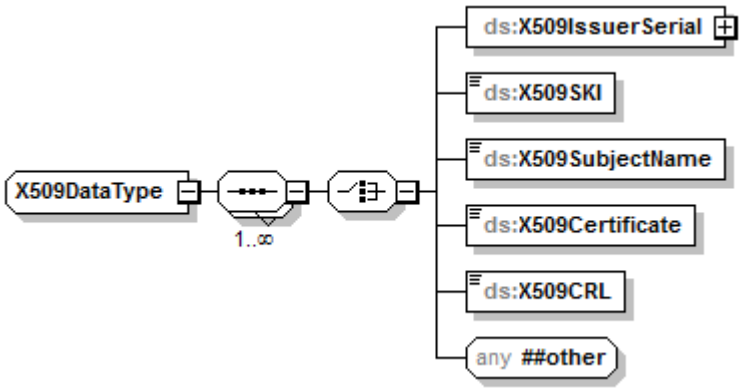
attribute **TransformType/@Algorithm**

type	**xs:anyURI**
properties	use required
source	`<xs:attribute name="Algorithm" type="anyURI" use="required"/>`

element **TransformType/XPath**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:string**
properties	content simple
source	`<xs:element name="XPath" type="string"/>`

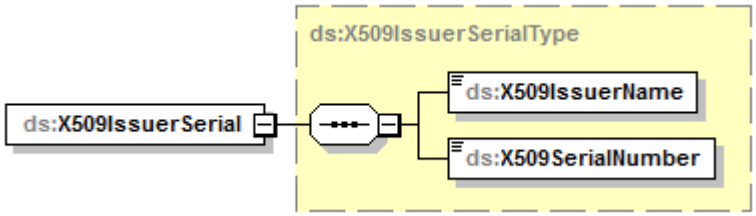
complexType **X509DataType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:X509IssuerSerial ds:X509SKI ds:X509SubjectName ds:X509Certificate ds:X509CRL**
used by	element **X509Data**

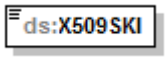
source	`<xs:complexType name="X509DataType">`
	`  <xs:sequence maxOccurs="unbounded">`
	`  <xs:choice>`
	`  <xs:element name="X509IssuerSerial" type="ds:X509IssuerSerialType"/>`
	`  <xs:element name="X509SKI" type="base64Binary"/>`
	`  <xs:element name="X509SubjectName" type="string"/>`
	`  <xs:element name="X509Certificate" type="base64Binary"/>`
	`  <xs:element name="X509CRL" type="base64Binary"/>`

	<xs:any namespace="##other" processContents="lax"/> </xs:choice> </xs:sequence> </xs:complexType>

element **X509DataType/X509IssuerSerial**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:X509IssuerSerialType**
properties	content complex
children	**ds:X509IssuerName** **ds:X509SerialNumber**
source	<xs:element name="X509IssuerSerial" type="ds:X509IssuerSerialType"/>

element **X509DataType/X509SKI**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	content simple
source	<xs:element name="X509SKI" type="base64Binary"/>

element **X509DataType/X509SubjectName**

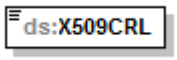
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:string**
properties	content simple
source	<xs:element name="X509SubjectName" type="string"/>

element **X509DataType/X509Certificate**

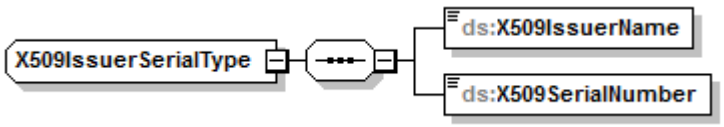
diagram	

namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	content simple
source	<xs:element name="X509Certificate" type="base64Binary"/>

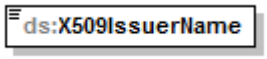
element **X509DataType/X509CRL**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	content simple
source	<xs:element name="X509CRL" type="base64Binary"/>

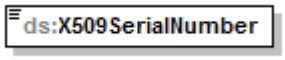
complexType **X509IssuerSerialType**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:X509IssuerName** **ds:X509SerialNumber**
used by	element **X509DataType/X509IssuerSerial**
source	<xs:complexType name="X509IssuerSerialType"> <xs:sequence> <xs:element name="X509IssuerName" type="string"/> <xs:element name="X509SerialNumber" type="integer"/> </xs:sequence> </xs:complexType>

element **X509IssuerSerialType/X509IssuerName**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:string**
properties	content simple
source	<xs:element name="X509IssuerName" type="string"/>

element **X509IssuerSerialType/X509SerialNumber**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:integer**
properties	content simple
source	<xs:element name="X509SerialNumber" type="integer"/>

simpleType **CryptoBinary**

namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	base base64Binary
used by	elements **RSAKeyValueType/Exponent** **DSAKeyValueType/G** **DSAKeyValueType/J** **RSAKeyValueType/Modulus** **DSAKeyValueType/P** **DSAKeyValueType/PgenCounter** **DSAKeyValueType/Q** **DSAKeyValueType/Seed** **DSAKeyValueType/Y**
source	<xs:simpleType name="CryptoBinary"> <xs:restriction base="base64Binary"/> </xs:simpleType>

simpleType **DigestValueType**

namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	base base64Binary
used by	element **DigestValue**
source	<xs:simpleType name="DigestValueType"> <xs:restriction base="base64Binary"/> </xs:simpleType>

simpleType **HMACOutputLengthType**

namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:integer**
properties	base integer
used by	element **SignatureMethodType/HMACOutputLength**
source	<xs:simpleType name="HMACOutputLengthType"> <xs:restriction base="integer"/> </xs:simpleType>