Schema **MensajeReceptor.xsd**

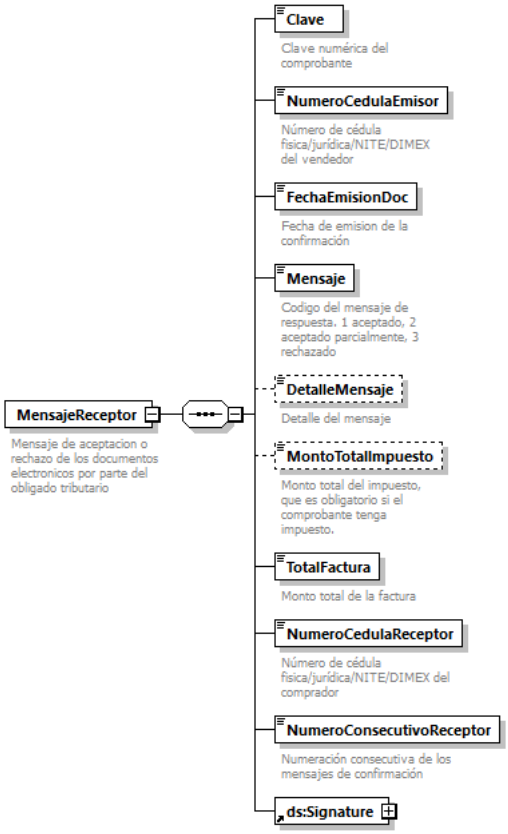
schema location: D:\Documents\NetBeansProjects\Ministerio de Hacienda\xml-schemas\MensajeReceptor.xsd
attributeFormDefault: **unqualified**
elementFormDefault: **qualified**
targetNamespace: **https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4.2/mensajeReceptor**

Elements
MensajeReceptor

schema location: C:\Program Files\Altova\Common2017\Schemas\xmldsig\files\xmldsig-core-schema.xsd
attributeFormDefault:
elementFormDefault: **qualified**
targetNamespace: **http://www.w3.org/2000/09/xmldsig#**

Elements	Complex types	Simple types
CanonicalizationMethod	**CanonicalizationMethodType**	**CryptoBinary**
DigestMethod	**DigestMethodType**	**DigestValueType**
DigestValue	**DSAKeyValueType**	**HMACOutputLengthType**
DSAKeyValue	**KeyInfoType**	
KeyInfo	**KeyValueType**	
KeyName	**ManifestType**	
KeyValue	**ObjectType**	
Manifest	**PGPDataType**	
MgmtData	**ReferenceType**	
Object	**RetrievalMethodType**	
PGPData	**RSAKeyValueType**	
Reference	**SignatureMethodType**	
RetrievalMethod	**SignaturePropertiesType**	
RSAKeyValue	**SignaturePropertyType**	
Signature	**SignatureType**	
SignatureMethod	**SignatureValueType**	
SignatureProperties	**SignedInfoType**	
SignatureProperty	**SPKIDataType**	
SignatureValue	**TransformsType**	
SignedInfo	**TransformType**	
SPKIData	**X509DataType**	
Transform	**X509IssuerSerialType**	
Transforms		
X509Data		

element **MensajeReceptor**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4.2/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:string">
            <xs:pattern value="\d{12,12}"/>
          </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>
```

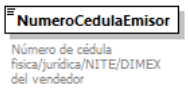
```
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:decimal">
            <xs:totalDigits value="18"/>
            <xs:fractionDigits value="5"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="TotalFactura">
        <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:string">
            <xs:pattern value="\d{12,12}"/>
          </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/v4.2/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**

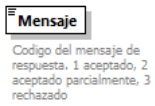
diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4.2/mensajeReceptor
type	restriction of **xs:string**
properties	content simple
facets	Kind Value Annotation pattern \d{12,12}
annotation	documentation Número de cédula fisica/jurídica/NITE/DIMEX del vendedor
source	<xs:element name="NumeroCedulaEmisor"> <xs:annotation> <xs:documentation>Número de cédula fisica/jurídica/NITE/DIMEX del vendedor</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="\d{12,12}"/> </xs:restriction> </xs:simpleType> </xs:element>

element **MensajeReceptor/FechaEmisionDoc**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4.2/mensajeReceptor

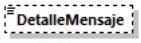
type	**xs:dateTime**
properties	content simple
annotation	documentation Fecha de emision de la confirmación
source	<xs:element name="FechaEmisionDoc" type="xs:dateTime"> <xs:annotation> <xs:documentation>Fecha de emision de la confirmación</xs:documentation> </xs:annotation> </xs:element>

element **MensajeReceptor/Mensaje**

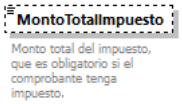
diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4.2/mensajeReceptor
type	restriction of **xs:integer**
properties	content simple
facets	Kind Value Annotation enumeration 1 documentation Aceptado enumeration 2 documentation Aceptado Parcialmente enumeration 3 documentation Rechazado
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/v4.2/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/v4.2/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>

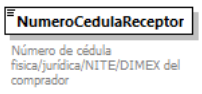
```
    <xs:restriction base="xs:decimal">
      <xs:totalDigits value="18"/>
      <xs:fractionDigits value="5"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

element **MensajeReceptor/TotalFactura**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4.2/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>`

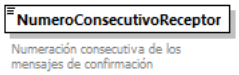
element **MensajeReceptor/NumeroCedulaReceptor**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4.2/mensajeReceptor
type	restriction of **xs:string**
properties	content simple
facets	Kind Value Annotation pattern \d{12,12}
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>`

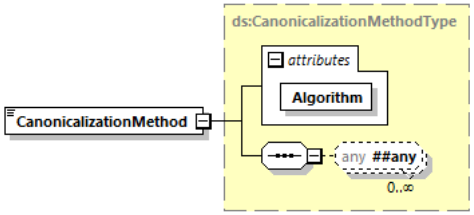
```
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="\d{12,12}"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

element **MensajeReceptor/NumeroConsecutivoReceptor**

diagram	
namespace	https://www.hacienda.go.cr/ATV/docs/esquemas/2016/v4.2/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

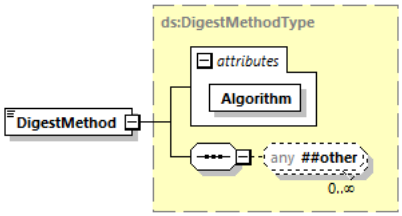
source	`<xs:element name="NumeroConsecutivoReceptor">`
	`  <xs:annotation>`
	`  <xs:documentation>Numeración consecutiva de los mensajes de confirmación</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:string">`
	`  <xs:pattern value="\d{20,20}"/>`
	`  </xs:restriction>`
	`  </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 Type Use Default Fixed Annotation Algorithm **xs:anyURI** required

source	<xs:element name="CanonicalizationMethod" type="ds:CanonicalizationMethodType"/>

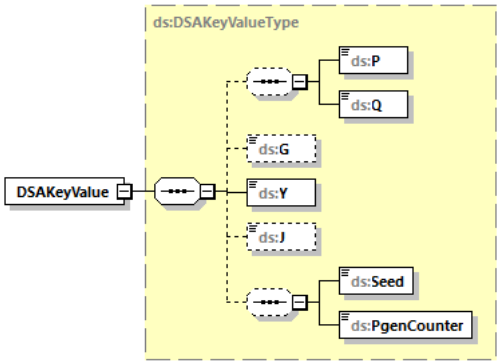
element **DigestMethod**

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

element **DigestValue**

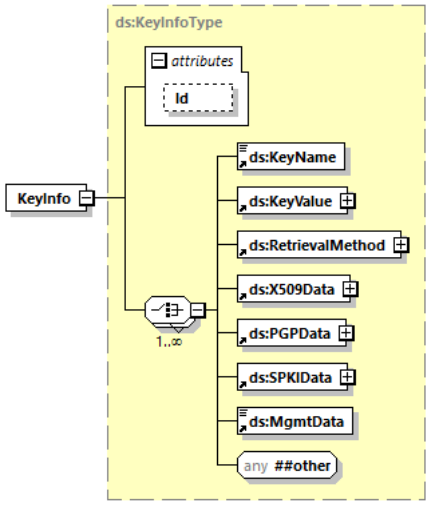
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:DigestValueType**
properties	content simple
used by	complexType **ReferenceType**
source	<xs:element name="DigestValue" type="ds:DigestValueType"/>

element **DSAKeyValue**

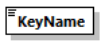
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#

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"/>`

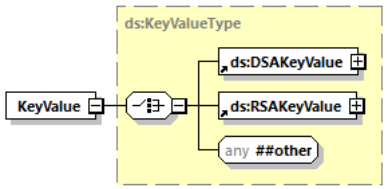
element **KeyInfo**

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"/>`

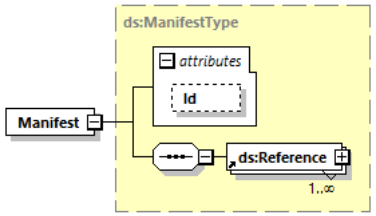
element **KeyName**

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**

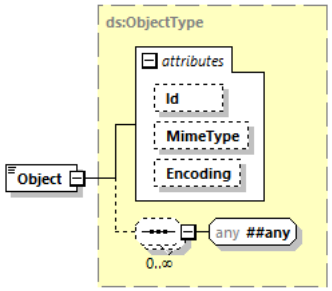
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:ManifestType**
properties	content complex
children	**ds:Reference**
attributes	Name Type Use Default Fixed Annotation Id **xs:ID** optional
source	`<xs:element name="Manifest" type="ds:ManifestType"/>`

element **MgmtData**

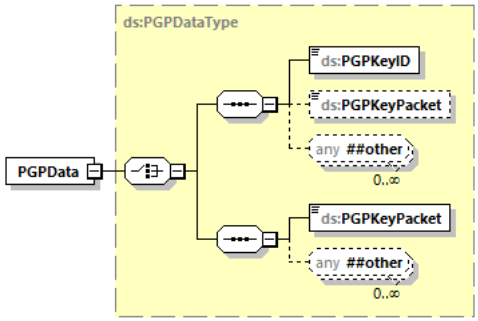
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:string**
properties	content simple
used by	complexType **KeyInfoType**

source	`<xs:element name="MgmtData" type="string"/>`

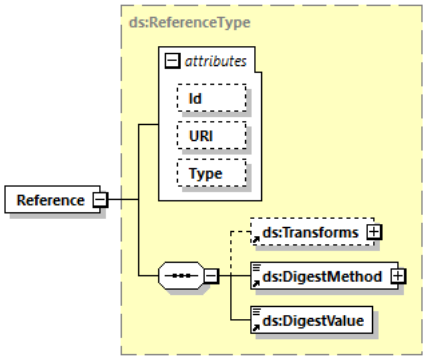
element **Object**

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**

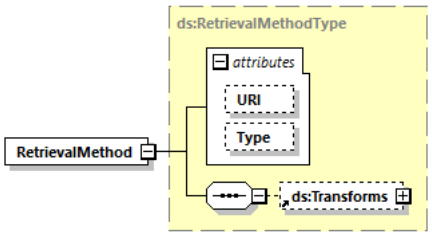
attributes

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**

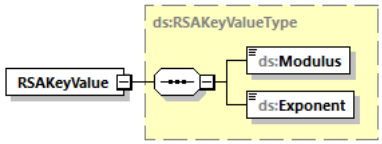
attributes

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

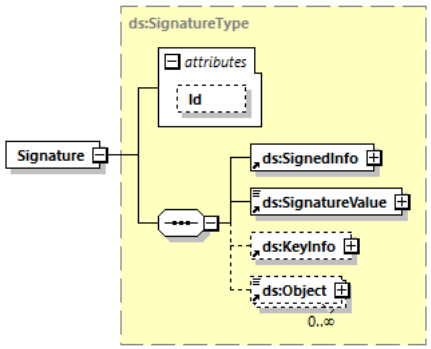
source

```
<xs:element name="RetrievalMethod" type="ds:RetrievalMethodType"/>
```

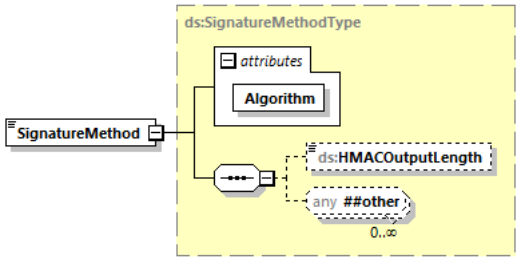
element **RSAKeyValue**

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**

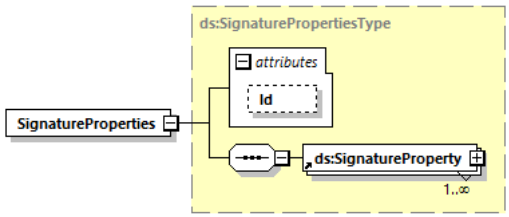
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SignatureMethodType**
properties	content complex mixed true
children	**ds:HMACOutputLength**
used by	complexType **SignedInfoType**

attributes	Name	Type	Use	Default	Fixed	Annotation
	Algorithm	**xs:anyURI**	required			

source

```
<xs:element name="SignatureMethod" type="ds:SignatureMethodType"/>
```

element **SignatureProperties**

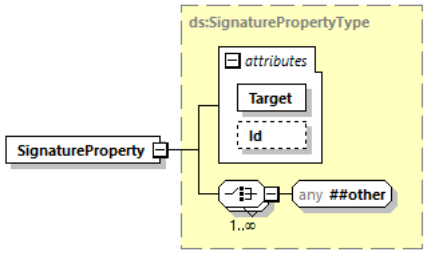
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SignaturePropertiesType**
properties	content complex
children	**ds:SignatureProperty**

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**

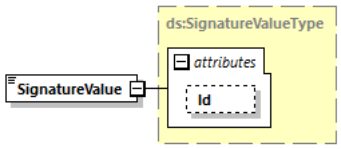
attributes

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**

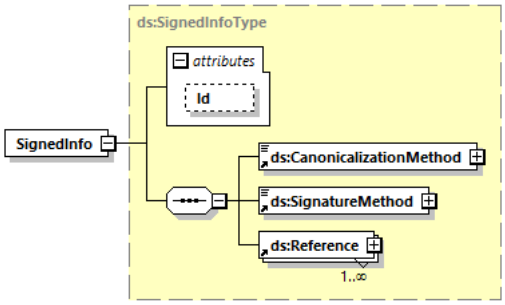
attributes

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

source

```
<xs:element name="SignatureValue" type="ds:SignatureValueType"/>
```

element **SignedInfo**

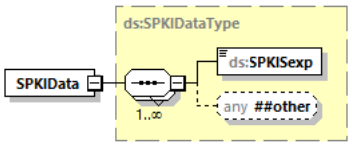
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SignedInfoType**
properties	content complex
children	**ds:CanonicalizationMethod** **ds:SignatureMethod** **ds:Reference**
used by	complexType **SignatureType**

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

source

```
<xs:element name="SignedInfo" type="ds:SignedInfoType"/>
```

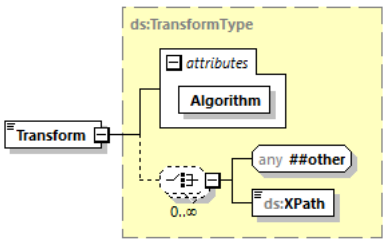
element **SPKIData**

diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**ds:SPKIDataType**
properties	content complex
children	**ds:SPKISexp**
used by	complexType **KeyInfoType**

source

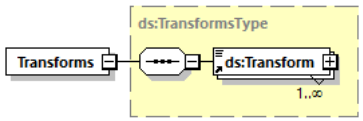
```
<xs:element name="SPKIData" type="ds:SPKIDataType"/>
```

element **Transform**

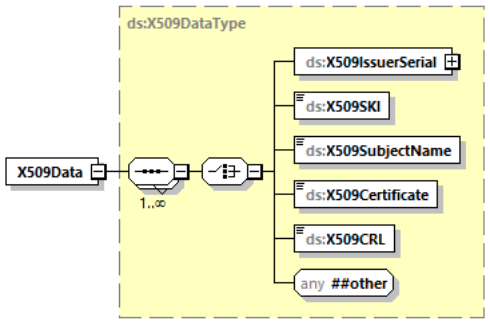
diagram	

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"/>`

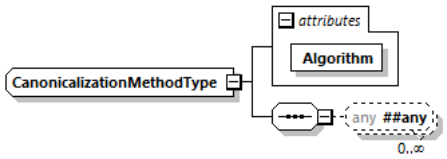
element **Transforms**

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	Type	Use	Default	Fixed	Annotation
Algorithm	**xs:anyURI**	required			

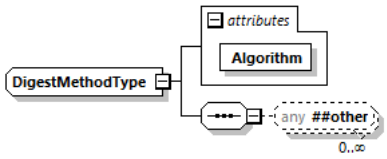
source

```
<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	Type	Use	Default	Fixed	Annotation
Algorithm	**xs:anyURI**	required			

source

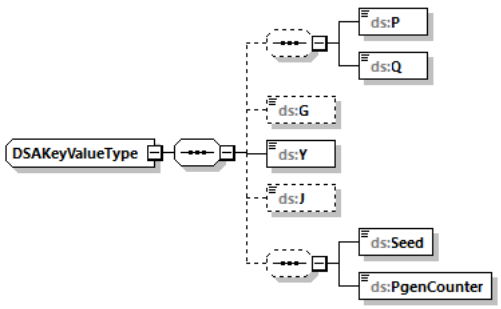
```
<xs:complexType name="DigestMethodType" mixed="true">
  <xs:sequence>
    <xs:any namespace="##other" processContents="lax" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="Algorithm" type="anyURI" use="required"/>
```

	`</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"/>

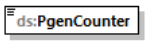
element **DSAKeyValueType/J**

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"/>

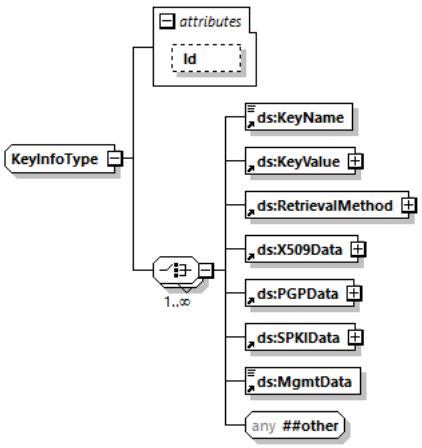
element **DSAKeyValueType/Seed**

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

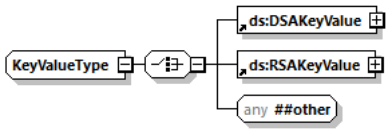
source	`<xs:complexType name="KeyInfoType" mixed="true">`
	`  <xs:choice maxOccurs="unbounded">`
	`  <xs:element ref="ds:KeyName"/>`
	`  <xs:element ref="ds:KeyValue"/>`

```
    <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**

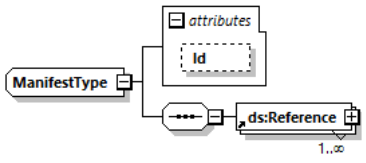
type	**xs:ID**
properties	use optional
source	`<xs:attribute name="Id" type="ID" use="optional"/>`

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**

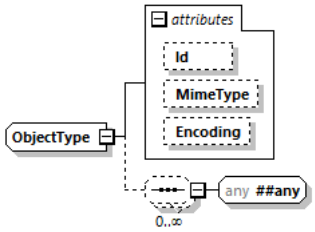
used by	element **Manifest**
attributes	Name: Id; Type: **xs:ID**; Use: optional; Default: ; Fixed: ; Annotation:

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: Id; Type: **xs:ID**; Use: optional; Default: ; Fixed: ; Annotation: Name: MimeType; Type: **xs:string**; Use: optional Name: Encoding; Type: **xs:anyURI**; Use: 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"/>`

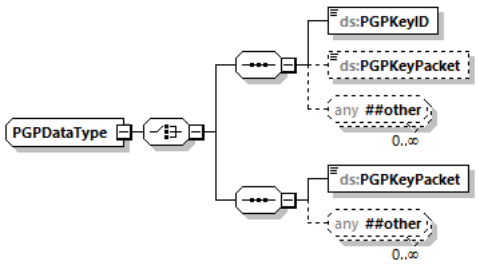
attribute **ObjectType/@MimeType**

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**

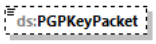
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:PGPKeyID ds:PGPKeyPacket ds:PGPKeyPacket**
used by	element **PGPData**

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"/>`

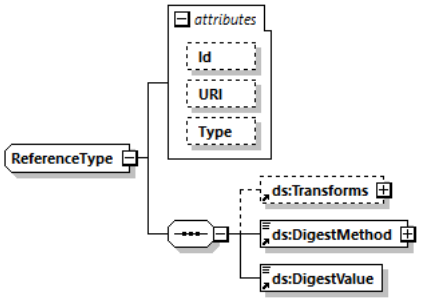
element **PGPDataType/PGPKeyPacket**

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"/>`

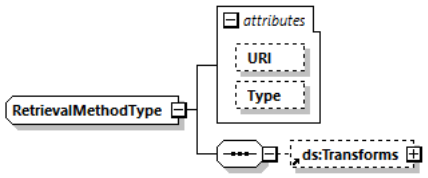
attribute **ReferenceType/@URI**

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>
```

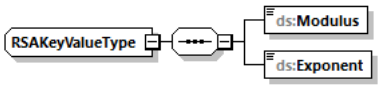
attribute **RetrievalMethodType/@URI**

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"/>`

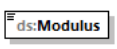
complexType **RSAKeyValueType**

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**

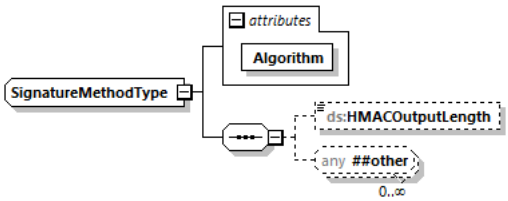
diagram	

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:

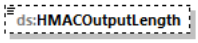
source	`<xs:complexType name="SignatureMethodType" mixed="true">`
	`  <xs:sequence>`
	`  <xs:element name="HMACOutputLength" type="ds:HMACOutputLengthType" minOccurs="0"/>`
	`  <xs:any namespace="##other" minOccurs="0" maxOccurs="unbounded"/>`
	`  <!-- (0,unbounded) elements from (1,1) external namespace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

attribute **SignatureMethodType/@Algorithm**

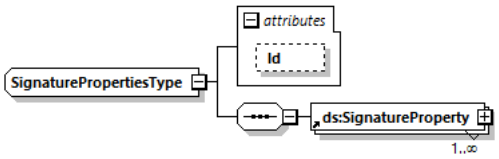
type	**xs:anyURI**
properties	use required

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**

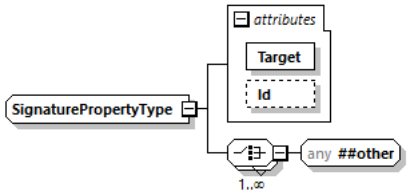
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:SignatureProperty**
used by	element **SignatureProperties**
attributes	Name: Id — Type: **xs:ID** — Use: optional — Default — Fixed — Annotation

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>
```

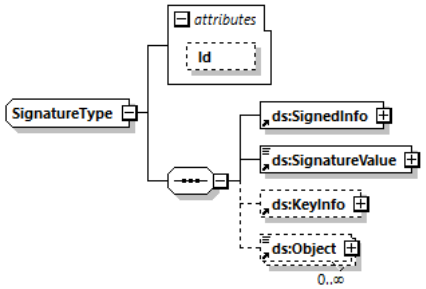
attribute **SignaturePropertyType/@Target**

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			

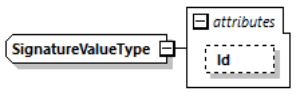
source

```
<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>
```

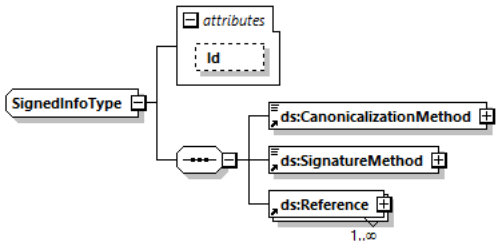
```
    <xs:extension base="base64Binary">
      <xs:attribute name="Id" type="ID" use="optional"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

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			

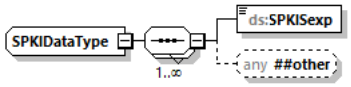
source

```
<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**

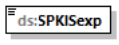
type	**xs:ID**
properties	use optional
source	`<xs:attribute name="Id" type="ID" use="optional"/>`

complexType **SPKIDataType**

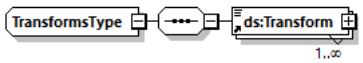
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:SPKISexp**
used by	element **SPKIData**

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**

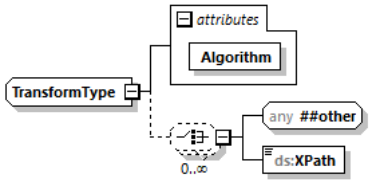
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	content simple
source	`<xs:element name="SPKISexp" type="base64Binary"/>`

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>`

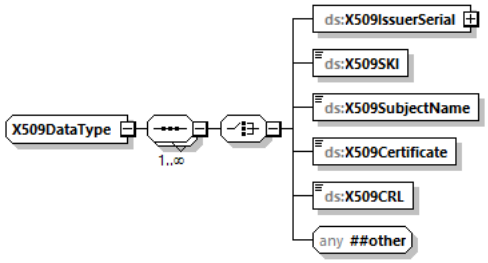
attribute **TransformType/@Algorithm**

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

element **TransformType/XPath**

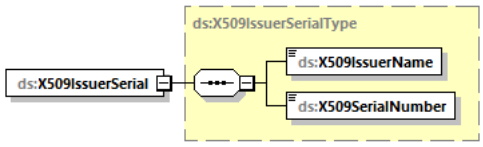
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:string**
properties	content simple
source	`<xs:element name="XPath" type="string"/>`

complexType **X509DataType**

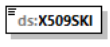
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:X509IssuerSerial** **ds:X509SKI** **ds:X509SubjectName** **ds:X509Certificate** **ds:X509CRL**
used by	element **X509Data**

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"/>

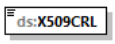
element **X509DataType/X509SubjectName**

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

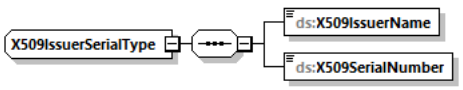
element **X509DataType/X509Certificate**

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**

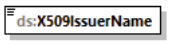
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
type	**xs:base64Binary**
properties	content simple
source	<xs:element name="X509CRL" type="base64Binary"/>

complexType **X509IssuerSerialType**

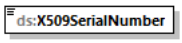
diagram	
namespace	http://www.w3.org/2000/09/xmldsig#
children	**ds:X509IssuerName** **ds:X509SerialNumber**
used by	element **X509DataType/X509IssuerSerial**
source	<xs:complexType name="X509IssuerSerialType"> <xs:sequence> <xs:element name="X509IssuerName" type="string"/>

```
    <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>