

Question

[Daniel Sanches](#) · Jun 28, 2019

Problem with xml signature

I'm trying to sign an xml but this is showing an Id attribute in the Signature tag and the xmlns attribute is not appearing.

This is the xml generated:

```
<Signature Id="Id-80170FF0-0678-47D5-8C8B-771AA4E334E6">
  <SignedInfo>
    <CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-
c14n-20010315"/>
    <SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-
sha1"/>
    <Reference URI="#ID21021035190374422759000107550000000033091155695075
01">
      <Transforms>
        <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#envel
oped-signature"/>
        <Transform Algorithm="http://www.w3.org/TR/2001/REC-xml-
c14n-20010315"/>
      </Transforms>
      <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/
>
        <DigestValue>wwcIz10ydGwGr3DYsCl+l6IfwyY=</DigestValue>
      </Reference>
    </SignedInfo>
    <SignatureValue>PyJvYnxxS/...</SignatureValue>
    <KeyInfo>
      <X509Data>
        <X509Certificate>MIIHqjCCBZKg...</X509Certificate>
      </X509Data>
    </KeyInfo>
  </Signature>
```

And this is the xml expected:

```
<Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
  <SignedInfo>
    <CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-
c14n-20010315" />
    <SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-
sha1" />
    <Reference URI="#ID21021035190374422759000107550000000033091155695075
01">
      <Transforms>
        <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#envel
oped-signature" />
        <Transform Algorithm="http://www.w3.org/TR/2001/REC-xml-
c14n-20010315" />
      </Transforms>
    </Reference>
  </SignedInfo>
  <SignatureValue>PyJvYnxxS/...</SignatureValue>
  <KeyInfo>
    <X509Data>
      <X509Certificate>MIIHqjCCBZKg...</X509Certificate>
    </X509Data>
  </KeyInfo>
</Signature>
```

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```

        </Transforms>
        <DigestMethod Algorithm="http://www.w3.org/2000/09/xmlsig#sha1"
/>
        <DigestValue>wwcIz10ydGwGr3DYsCl+l6IfwyY=</DigestValue>
    </Reference>
</SignedInfo>
<SignatureValue>aJLT3XDORDA8..</SignatureValue>
<KeyInfo>
    <X509Data>
        <X509Certificate>MIIHqjCCBZKgAwIBAg...</X509Certificate>
    </X509Data>
</KeyInfo>
</Signature>
```

I'm trying sign the xml using this code:

```
SET tCredencial = ##class(%SYS.X509Credentials).GetByAlias("Credential")

SET tParts = $$$SOAPWSIncludeSoapBody
SET tRef = $$$KeyInfoX509Certificate

SET tSignature = ##class(%XML.Security.Signature).CreateX509(
tCredencial,tParts,tRef,.tSC)

DO tSignature.SetSignatureMethod($$$$SOAPWSrsasha1)
DO tSignature.SetDigestMethod($$$$SOAPWSsha1)
Set tSignature.SignedInfo.CanonicalizationMethod.Algorithm=$$$$SOAPWSc14n

SET tRefid = XML.evento.infEvento.Id

SET tAlgorithm = $$$SOAPWSEnvelopedSignature_"", "_$$$SOAPWSc14n
#DIM tReference As %XML.Security.Reference
SET tReference = ##class(%XML.Security.Reference).Create(tRefid,tAlgorithm)
DO tSignature.AddReference(tReference)

SET XML.evento.Signature = tSignature
// this method convert %XML.Adapter on %XML.Document
SET document = ..GetXMLDoc(XML)

SET tSC = tSignature.SignDocument(document)
```

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