Question

[Orlando Lagman](#) · Jan 16, 2020

debugging web client

I used the soap wizard to create a web client based on the wsdl. I was able to get a valid response back, and now it looks like the error is in decrypting the soap message response "inbound"

ERROR #6284: Security header error: SecurityTokenUnavailable.

%objlasterror = error: 0 ìŒ SecurityTokenUnavailableÃCPR¹.e^zImportHeader+62^%SOAP.Security.Header.1^1(e ^zProcessHeaders+48^%SOAP.WebBase.1^1-e^zProcessSOAPEnvelope+18^%SOAP.WebBase.1^10e^zSOAPR equestResponse+123^%SOAP.WebClient.1^1)e^zInvo
keCli
ent+112^%SOAP.WebClient.1^1Dd^zInvoke+2^qcpr.registration.ws.HCValidationPort.one.validate.1^1=e^zvalidat e+1^ws.HCValidationPort.one.1^1.e^zTest+40^api.Ontario.1^1&d^zDebugStub+30^%Debugger.System.1^2d^^^O

Primary question: What element is the referring to in the soap document?

Result : Beautify XML

```xml
1  <?xml version="1.0" encoding="UTF-8"?>
2  <soapenv:Envelope
3      xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
4      <soapenv:Header>
5          <wsse:Security soapenv:mustUnderstand="1"
6              xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
7              <xenc:EncryptedKey
8                  xmlns:xenc="http://www.w3.org/2001/04/xmlenc#">
9                  <xenc:EncryptionMethod Algorithm="http://www.w3.org/2001/04/xmlenc#rsa-1_5"
10                     xmlns:dsig="http://www.w3.org/2000/09/xmldsig#"/>
11                 <dsig:KeyInfo
12                     xmlns:dsig="http://www.w3.org/2000/09/xmldsig#">
13                     <wsse:SecurityTokenReference>
14                         <wsse:KeyIdentifier ValueType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1
                                .0#X509SubjectKeyIdentifier" EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap
                                -message-security-1.0#Base64Binary">Vzt6nLKDX0SPdqbk5ZJS7Mw1qwE=</wsse:KeyIdentifier>
15                     </wsse:SecurityTokenReference>
16                 </dsig:KeyInfo>
17                 <xenc:CipherData
18                     xmlns:dsig="http://www.w3.org/2000/09/xmldsig#">
19                     <xenc:CipherValue>R8PRix0l7uYfrvWNfgSbdwbzor8QQf4nvF24GxIx0+j+aCXM6IrgJrpXrfxF/EO/penaApFFzfX8cBPTRw4xbbU
                                /a8yDm1fYpOvL9AwNlMwMcM+4jst6BftXnOsUv2JCs+T64N8iCWZmj8fDiuJQ81NIPBNE4IkXofsRlV6dt+t
                                /b2EHZusUo71gho1bkW8uwwoq4Czbf861pgospZosdY6n5I0n2espQCL9Qr2xb3tNDnZhiH/harUyhDfev39vT08NgsuAdTNvgJvf9VvA
                                +hJOXOYdEpjnDEvFGEBapHVzzKOnxupmgJZimdo2bF0zhGqAt+xBeU1yeCNXZfoOFw==</xenc:CipherValue>
20                 </xenc:CipherData>
21                 <xenc:ReferenceList>
22                     <xenc:DataReference URI="#G0x7f17079f3d40-46D"/>
23                 </xenc:ReferenceList>
24             </xenc:EncryptedKey>
25             <wsu:Timestamp wsu:Id="Timestamp-638964ba-7550-4eda-93ad-9f75b7e4d964"
26                 xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
27                 <wsu:Created>2020-01-15T23:08:19Z</wsu:Created>
28                 <wsu:Expires>2020-01-15T23:13:19Z</wsu:Expires>
29             </wsu:Timestamp>
30             <wsse:BinarySecurityToken wsu:Id="SecurityToken-04a9c435-88af-4905-84d1-9f75b7e45bf5" EncodingType="http://docs.oasis-open
                        .org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Binary" ValueType="http://docs.oasis-open.org/wss/2004
                        /01/oasis-200401-wss-x509-token-profile-1.0#X509v3"□</wsse:BinarySecurityToken>
33             <Signature
34                 xmlns="http://www.w3.org/2000/09/xmldsig#">
35                 <SignedInfo>
36                     <CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
37                     <SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256"/>
38                     <Reference URI="#Timestamp-638964ba-7550-4eda-93ad-9f75b7e4d964">□</Reference>
45                     <Reference URI="#Body-72b9e9dc-5715-4c57-beeb-9f75b7e4b1a0">□</Reference>
52                 </SignedInfo>
53                 <SignatureValue>OMAi89Th3iANuOv/ZCZiRQlnKnx3WHFDGoI3CezApL
                        +Hz88uSaUQPNbnpbe9IJYDs7o2ZsveQuNkCUclQmxi4d9ZS3Gx68tn4hypomFDz0WvHGK2yrD7LFPhM7+mhPEmDnbLsdvqc6GOJ
                        /QkK7ApOq5YNPY6krMSYlKrMov+NXP/xq9kuy
                        +yptMdZyiezjyR3Aj5UXWErLK9KjetcWFuWHH4PGMDEprpp4gUjhsSqob6x7jXWJfOg33GcINSEpkhjwV/LnaoMo6z24QkK4AzwlpmVAwuYzX5eg57L
                        /ojeYLoLwFqGNqP5q3CMTnfpr6mQXbqkB0qhONt1g42TO7hSw==</SignatureValue>
54                 <KeyInfo>
55                     <wsse:SecurityTokenReference
56                         xmlns="">
57                         <wsse:Reference URI="#SecurityToken-04a9c435-88af-4905-84d1-9f75b7e45bf5" ValueType="http://docs.oasis-open.org
                                /wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509v3"/>
58                     </wsse:SecurityTokenReference>
59                 </KeyInfo>
60             </Signature>
61         </wsse:Security>
62     </soapenv:Header>
63     <soapenv:Body wsu:Id="Body-72b9e9dc-5715-4c57-beeb-9f75b7e4b1a0"
64         xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
65         <c:validateResponse
66             xmlns:c="http://hcv.health.ontario.ca/"
67             xmlns:b="http://idp.ebs.health.ontario.ca/"
68             xmlns:a="http://ebs.health.ontario.ca/">
69             <xenc:EncryptedData Id="G0x7f17079f3d40-46D" Type="http://www.w3.org/2001/04/xmlenc#Element"
70                 xmlns:xenc="http://www.w3.org/2001/04/xmlenc#">
71                 <xenc:EncryptionMethod Algorithm="http://www.w3.org/2001/04/xmlenc#aes128-cbc"/>
72                 <xenc:CipherData>
73                     <xenc:CipherValue>QzFPMEwY0GedhTXhPrSqjjjETNkxyU6sFFOpQlabXAkxElNpj5m4uoiCHZ3hkaHBzDcShnT+EUAvOmAuxC4uEj3gfbTUO625Yz
                            /rdxiY7HkQRZEXcKOCm1V575FOicZHvQJgdnRlgVMYURkxUfXsXc4WGJa2DAT4x2dpDhD5Ggowbem89ibMByYKTcLknNuUXpRaYCHjJGSHyo1Xcig
                            1Ahc6Zs+XH11pcJkpXnvP+D/CcRkxfJXGfAiXehgMhokShr6iqB++WbL259uj6eft+ZJPwjTAiSZE3r/PRso
                            +sEtpTbE4JvJSq1oLVond6slxLa1MdUqRBlbOplC6F+F8OTiVHDntLnSoHQax9SIGDDz+ZgItwvA91bZJWZXAdq6
```

Other questions:

1. How can I debug into the system classes? I've been encountering the Soap.1 does not exist in the system.

2. Any other way to decrypt the message?

3. Other debugging tips?

#Security #SOAP #Caché