

Re: security header is not present in the incoming message

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Source: <http://www.derkeiler.com/Newsgroups/microsoft.public.dotnet.security/2005-12/msg00030.html>

- *From:* Dominick Baier [DevelopMentor] <dbaier@xx>
 - *Date:* Fri, 02 Dec 2005 08:00:38 -0800
-

Hello JackMadeja,

ok - you have to import the certificate in the store of the account running the service - i guess thats NETWORK SERVICE

Look at the Security Hands on Lab for WSE3 - the steps are detailed there.

<http://www.microsoft.com/downloads/details.aspx?familyid=9acd1f8e-97e2-43e2-b484-a74a014a8206&dis>

Dominick Baier - DevelopMentor
<http://www.leastprivilege.com>

Iisreset - I have tried it with no results. [Policy] and SetPolicy are called correctly - my service application works fine with server and client running under ASP.NET Development Server, but not with server in IIS. Similar problem appears when I run my client directly under IIS instead of under ASP.NET Development Server. In IIS 'mode' I get this policy error:

```
----- WSEservice 2 Exception -----  
WSE2013: X509TokenProvider is unable to provide an X.509 token. There  
are no  
certificates in the certificate store that match the find value of  
'CN=WSE2QuickStartServer'.  
at  
Microsoft.Web.Services3.Design.X509TokenProvider.CreateToken(StoreLoca  
tion  
location, StoreName storeName, String findValue, X509FindType  
findType)  
at Microsoft.Web.Services3.Design.X509TokenProvider.GetToken()  
at
```

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```
Microsoft.Web.Services3.Design.MutualCertificate11Assertion.ClientOutputFilter..ctor(MutualCertificate11Assertion assertion)
at
Microsoft.Web.Services3.Design.MutualCertificate11Assertion.CreateClientOutputFilter(FilterCreationContext context)
at
Microsoft.Web.Services3.Design.Policy.CreateClientPipeline(PipelineCreationContext context)
at
Microsoft.Web.Services3.WebServicesClientProtocol.SetPolicy(Policy policy)
at
Microsoft.Web.Services3.WebServicesClientProtocol.SetPolicy(String policyName)
at _Default.Button1_Click(Object sender, EventArgs e) in
S:\Security\WSEbasic\WSEbasic6\WebSite6\Default.aspx.vb:line 10
-----
```

Jack Madeja
"Dominick Baier [DevelopMentor]" wrote:

Hello JackMadeja,

from experience - a iisreset does help sometimes...

[Policy] and SetPolicy are called correctly on client/server ?

Dominick Baier - DevelopMentor
<http://www.leastprivilege.com>

Security requirements are not satisfied because the security header is not present in the incoming message

I get this exception every time I run my service thru ordinary IIS instead of Default IIS in VS.NET Studio. My service is a simple 'Hello World with certificate policy. My client is simple ASP.NET Web Site with one button and textbox. I use Certificate Policy (mutualCertificate11Security) on both server and client. (I have tried this with anonymousForCertificateSecurity and got same bad result). Everything works fine if my service and webclient is in same solution and I run everything thru VS.NET studio build in IIS. But If I create a virtual directory in my computer IIS, run my service there, change my web reference to this service I get this exception:

WSE910: An error happened during the processing of a response

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message, and you can find the error in the inner exception. You can also find the response message in the Response property.

```
at
Microsoft.Web.Services3.Xml.SoapEnvelopeReaderWrapper..ctor(SoapClient
Message
message, String messageContentType)
at
Microsoft.Web.Services3.WebServicesClientProtocol.GetReaderForMessage(
SoapClientMessage message, Int32 bufferSize)
at
System.Web.Services.Protocols.SoapHttpClientProtocol.ReadResponse(Soap
ClientMessage message, WebResponse response, Stream responseStream,
Boolean asyncCall)
at
System.Web.Services.Protocols.SoapHttpClientProtocol.Invoke(String
methodName, Object[] parameters)
at localhost.ServiceWse.HelloWorld() in
e:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\Temporary ASP.NET
Files\website10\b15bc141\c8235faa\App_WebReferences.qqc4zbev.0.cs:li
ne
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at _Default.Button1_Click(Object sender, EventArgs e) in
S:\Security\WSEbasic\WSEbasic10\WebSite10\Default.aspx.vb:line 11
-----Inner Exception -----
Security requirements are not satisfied because the security header
is
not
present in the incoming message.
at
Microsoft.Web.Services3.Security.SecureConversationClientReceiveSecu
ri
tyFilter.ValidateMessageSecurity(SoapEnvelope envelope, Security
security)
at
Microsoft.Web.Services3.Security.ReceiveSecurityFilter.ProcessMessag
e(
SoapEnvelope envelope)
at
Microsoft.Web.Services3.Pipeline.ProcessInputMessage(SoapEnvelope
envelope)
at
Microsoft.Web.Services3.Xml.SoapEnvelopeReaderWrapper..ctor(SoapClient
Message
message, String messageContentType)
Here is my service code:
```

```
Imports System.Web
Imports System.Web.Services
Imports System.Web.Services.Protocols
Imports System.Security.Principal
Imports Microsoft.Web.Services3
Imports Microsoft.Web.Services3.Design
```

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```
<WebService(Namespace:="http://tempuri.org/)>
<WebServiceBinding(ConformsTo:=WsiProfiles.BasicProfile1_1)>
<Global.Microsoft.VisualBasic.CompilerServices.DesignerGenerated()>
-
<Policy("ServerCertPolicy")>
Public Class xService
Inherits System.Web.Services.WebService
<WebMethod()>
Public Function HelloWorld() As String
Return "Hello World from xWebService 5"
End Function
End Class
My service web.config looks like that:
```

```
<?xml version="1.0" encoding="utf-8"?>
<configuration
xmlns="http://schemas.microsoft.com/.NetConfiguration/v2.0>
<configSections>
<section name="microsoft.web.services3"
type="Microsoft.Web.Services3.Configuration.WebServicesConfiguration
Microsoft.Web.Services3, Version=3.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" />
</configSections>
<appSettings />
<connectionStrings />
<system.web>
<compilation debug="true" strict="false" explicit="true">
<assemblies>
<add assembly="Microsoft.Web.Services3, Version=3.0.0.0,
Culture=neutral, PublicKeyToken=31BF3856AD364E35" />
</assemblies>
</compilation>
<pages>
<namespaces>
<clear />
<add namespace="System" />
<add namespace="System.Collections" />
<add namespace="System.Collections.Specialized" />
<add namespace="System.Configuration" />
<add namespace="System.Text" />
<add namespace="System.Text.RegularExpressions" />
<add namespace="System.Web" />
<add namespace="System.Web.Caching" />
<add namespace="System.Web.SessionState" />
<add namespace="System.Web.Security" />
<add namespace="System.Web.Profile" />
<add namespace="System.Web.UI" />
<add namespace="System.Web.UI.WebControls" />
<add namespace="System.Web.UI.WebControls.WebParts" />
<add namespace="System.Web.UI.HtmlControls" />
</namespaces>
</pages>
<webServices>
<soapExtensionImporterTypes>
<add
type="Microsoft.Web.Services3.Description.WseExtensionImporter,
Microsoft.Web.Services3, Version=3.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" />
</soapExtensionImporterTypes>
```

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```
<soapServerProtocolFactory
type="Microsoft.Web.Services3.WseProtocolFactory,
Microsoft.Web.Services3,
Version=3.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35"
/>
</webServices>
</system.web>
<microsoft.web.services3>
<security>
<x509 allowTestRoot="false" storeLocation="LocalMachine" />
</security>
<policy fileName="wse3policyCache.config" />
<diagnostics>
<trace enabled="true" input="logs\InputTrace.webinfo"
output="logs\OutputTrace.webinfo" />
</diagnostics>
</microsoft.web.services3>
</configuration>
. and my service policy looks like that:
<policies xmlns="http://schemas.microsoft.com/wse/2005/06/policy>
<extensions>
<extension name="mutualCertificate11Security"
type="Microsoft.Web.Services3.Design.MutualCertificate11Assertion,
Microsoft.Web.Services3, Version=3.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" />
<extension name="x509"
type="Microsoft.Web.Services3.Design.X509TokenProvider,
Microsoft.Web.Services3, Version=3.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" />
<extension name="requireActionHeader"
type="Microsoft.Web.Services3.Design.RequireActionHeaderAssertion,
Microsoft.Web.Services3, Version=3.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35" />
</extensions>
<policy name="ServerCertPolicy">
<mutualCertificate11Security establishSecurityContext="false"
renewExpiredSecurityContext="true"
requireSignatureConfirmation="true"
messageProtectionOrder="SignBeforeEncrypt" requireDerivedKeys="true"
ttlInSeconds="300">
<serviceToken>
<x509 storeLocation="LocalMachine" storeName="My"
findValue="CN=WSE2QuickStartServer"
findType="FindBySubjectDistinguishedName"
/>
</serviceToken>
<protection>
<request signatureOptions="IncludeAddressing,
IncludeTimestamp,
IncludeSoapBody" encryptBody="true" />
<response signatureOptions="IncludeAddressing,
IncludeTimestamp,
IncludeSoapBody" encryptBody="true" />
<fault signatureOptions="IncludeAddressing, IncludeTimestamp,
IncludeSoapBody" encryptBody="false" />
</protection>
</mutualCertificate11Security>
<requireActionHeader />
</policy>
</policies>
My client looks like that:
<%@ Page Language="VB" AutoEventWireup="false"
```

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```
CodeFile="Default.aspx.vb" Inherits=" Default" %>  
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml" >  
<head runat="server">  
<title>WebSite1</title>  
</head>  
<body>  
<form id="form1" runat="server">  
<div>  
<asp:Button ID="Button1" runat="server" Text="WSEservice 2"  
Width="160px" /><asp:TextBox  
ID="TextBox1" runat="server" Height="440px"  
TextMode="MultiLine"  
Width="800px"></asp:TextBox> </div>  
</form>  
</body>  
</html>  
. and client code:
```

```
Imports Microsoft.VisualBasic.ControlChars
```

```
Partial Class _Default  
Inherits System.Web.UI.Page  
Protected Sub Button1_Click(ByVal sender As Object, ByVal e As  
System.EventArgs) Handles Button1.Click  
Try  
TextBox1.Text = String.Empty  
Dim proxy As New localhost.ServiceWse  
proxy.SetPolicy("ClientCertPolicy")  
TextBox1.Text = proxy.HelloWorld  
Catch ex As Exception  
Dim strMsg As String = ex.Message & CrLf & CrLf &  
ex.StackTrace  
Dim exIn As Exception = ex  
Do  
exIn = exIn.InnerException  
If Not exIn Is Nothing Then  
strMsg += CrLf & "-----Inner Exception  
-----" & CrLf  
strMsg += exIn.Message & CrLf & CrLf &  
exIn.StackTrace  
Else  
Exit Do  
End If  
Loop  
TextBox1.Text = "----- WSEservice 2 Exception -----" &  
CrLf &  
strMsg  
End Try  
End Sub  
End Class  
.with client policy like this:
```

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```
<policies xmlns="http://schemas.microsoft.com/wse/2005/06/policy">
  <extensions>
    <extension name="mutualCertificate11Security"
      type="Microsoft.Web.Services3.Design.MutualCertificate11Assertion,
      Microsoft.Web.Services3, Version=3.0.0.0, Culture=neutral,
      PublicKeyToken=31bf3856ad364e35" />
    <extension name="x509"
      type="Microsoft.Web.Services3.Design.X509TokenProvider,
      Microsoft.Web.Services3, Version=3.0.0.0, Culture=neutral,
      PublicKeyToken=31bf3856ad364e35" />
    <extension name="requireActionHeader"
      type="Microsoft.Web.Services3.Design.RequireActionHeaderAssertion,
      Microsoft.Web.Services3, Version=3.0.0.0, Culture=neutral,
      PublicKeyToken=31bf3856ad364e35" />
  </extensions>
  <policy name="ClientCertPolicy">
    <mutualCertificate11Security establishSecurityContext="false"
      renewExpiredSecurityContext="true"
      requireSignatureConfirmation="true"
      messageProtectionOrder="SignBeforeEncrypt" requireDerivedKeys="true"
      ttlInSeconds="300">
      <clientToken>
        <x509 storeLocation="CurrentUser" storeName="My"
          findValue="CN=WSE2QuickStartClient"
          findType="FindBySubjectDistinguishedName"
          />
      </clientToken>
      <serviceToken>
        <x509 storeLocation="CurrentUser" storeName="AddressBook"
          findValue="CN=WSE2QuickStartServer"
          findType="FindBySubjectDistinguishedName"
          />
      </serviceToken>
    <protection>
      <request signatureOptions="IncludeAddressing,
      IncludeTimestamp,
      IncludeSoapBody" encryptBody="true" />
      <response signatureOptions="IncludeAddressing,
      IncludeTimestamp,
      IncludeSoapBody" encryptBody="true" />
      <fault signatureOptions="IncludeAddressing, IncludeTimestamp,
      IncludeSoapBody" encryptBody="false" />
    </protection>
  </mutualCertificate11Security>
  <requireActionHeader />
</policy>
</policies>
Authentications methods in IIS "Anonymous access" are on and
```