

Re: WSE 3.0, usernameOverTransportSecurity, custom Token Manager w/ securityTokenManager,

## Re: WSE 3.0, usernameOverTransportSecurity, custom Token Manager w/ securityTokenManager,

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*Source:*

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.webservices.enhancements/2006-06/>

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- *From:* "Pablo Cibraro" <[pcibraro@xxxxxxxxxxxxx](mailto:pcibraro@xxxxxxxxxxxxx)>
  - *Date:* Mon, 26 Jun 2006 15:55:27 -0400
- 

Hi Frank,

Are the lines below being executed ?.

```
SetWebServiceUserToken();  
_WebServiceWse.SetPolicy( "Policy1" );
```

The code looks fine at first glance and these lines are responsible to add the username token to the message.

My advice is to use the sample provided by the Pattern & Practices team in this gotdotnet workspace, (They already provide a working sample of username authentication using a dabatabase).

<http://www.gotdotnet.com/codegallery/codegallery.aspx?id=67f659f6-9457-4860-80ff-0535dffed5e6>

The name of the sample is DirectAuthenticationWithDatabase and you can find it in the zip file WSSP.zip

Let me know if I can help you with something else regarding this problem.

Regards,  
Pablo Cibraro  
<http://weblogs.asp.net/cibrax>

"Frank Villasenor" <[jawzx01@xxxxxxxxxxx](mailto:jawzx01@xxxxxxxxxxx)> wrote in message  
[news:1151341641.515599.207770@xx](mailto:news:1151341641.515599.207770@xx)

Hello all,  
I'm attempting to learn how to use WSE 3.0 with Visual Studio 2005.  
I've read a lot of material about WSE 3.0 and I've started to grasp how this library works.

Although, much closer than I was a few days ago I'm not in at a point where I believe everything is configured properly, but since my solution isn't working it must not be. I really could use some help....

Re: WSE 3.0, usernameOverTransportSecurity, custom Token Manager w/ securityTokenManager,1

Re: WSE 3.0, usernameOverTransportSecurity, custom Token Manager w/ securityTokenManager,

My using:

Visual Studio 2005,

WSE 3.0

usernameOverTransportSecurity

A custom UsernameTokenManager. (I want to authenticate against an existing database)

In the UsernameTokenManager i've derived a class and have overridden the AuthenticateToken method. I'm still developing the method and have not "finished it." On my validCreditials variable, I've simply set it to true. Which should allow me to authenticate any user that I throw at it. (Please note, I've put this code in a separate project with it's own namespace.)

Below is my code:

```
-----  
protected override string AuthenticateToken( UsernameToken token )  
{  
    System.Diagnostics.Debug.WriteLine( "Starting:  
RmsTokenManager.AuthenticateToken(...)" );  
  
    string userName = token.Username;  
    string sPassword = token.Password;  
  
    bool validCreditials = true; // Validate creditials with some  
    method. (SQL Wrapper and stored proc.)  
  
    if (!validCreditials)  
    {  
        System.Diagnostics.Debug.WriteLine( "Auth Failed.  
RmsTokenManager.AuthenticateToken(...)" );  
        OnLogonUserFailed( token );  
    }  
    else  
    {  
        System.Diagnostics.Debug.WriteLine( "Auth succeeded.  
RmsTokenManager.AuthenticateToken(...)" );  
        GenericIdentity oIdentity = new GenericIdentity( token.Username  
        );  
        GenericPrincipal oPrincipal = new GenericPrincipal( oIdentity,  
        new string[] { "User" } );  
  
        token.Principal = oPrincipal;  
    }  
  
    //  
    // Return token.Password like the base (overriden function)  
    return token.Password;  
}
```

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Re: WSE 3.0, usernameOverTransportSecurity, custom Token Manager w/ securityTokenManager,

For my Web.Config file, for my web service I have:

```
-----  
<!--  
START: Configuration for the WSE.  
-->  
<microsoft.web.services3>  
<policy fileName="wse3policyCache.config" />  
<security>  
<securityTokenManager>  
<!-- <clear /> -->  
<add localName="UsernameToken"  
type="MicroTek.ImageVerification.Security.RmsTokenManager,  
MicroTek.ImageVerification.Security"  
namespace="http://docs.oasisopen.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"  
</>  
</securityTokenManager>  
</security>  
<diagnostics>  
<trace enabled="true" input="InputTrace.webinfo"  
output="OutputTrace.webinfo" />  
<detailedErrors enabled="true" />  
</diagnostics>  
</microsoft.web.services3>  
<!--  
END: Configuration for the WSE.  
-->  
-----
```

For my Policy file, for the web service I have:

```
-----  
<policies xmlns="http://schemas.microsoft.com/wse/2005/06/policy">  
<extensions>  
<extension name="usernameOverTransportSecurity"  
type="Microsoft.Web.Services3.Design.UsernameOverTransportAssertion,  
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="Policy1">  
<authorization>  
<allow role="User" />  
<deny role="*" />  
</authorization>  
<usernameOverTransportSecurity />  
<!--  
<requireActionHeader />  
-----
```

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```
==>  
</policy>  
</policies>
```

---

Now for the client. The client is to be a smart client application. (Windows Forms). I had the client application working against the web service without any WSE. It was working great. But, I needed the security so I added WSE in to the mix.

The configuration for the client application:  
I use a proxy to wrap the generated proxy. The "proxy" class simply performs authentication tasks and allows me to pass the web service variable around to different parts of my program. I can't post the entire part of the program because there would be too much code. But the initialization of the web service is:

---

```
//  
// Class fields.  
private string sUrl;  
private localhost.ServiceWse WebServiceWse;  
private string sUserName;  
private string sPassword;  
  
public WebServiceProxy( string psWebServiceURL, string psUserName,  
string psPassword )  
: this()  
{  
if (psWebServiceURL.Length == 0 || psUserName.Length == 0 ||  
psPassword.Length == 0 )  
{  
throw new ApplicationException( "psWebServiceURL can not be a  
blank string!" );  
}  
  
sUrl = psWebServiceURL;  
sUserName = psUserName;  
sPassword = psPassword;  
  
WebServiceWse = new  
MicroTek.ImageVerification.localhost.ServiceWse();  
WebServiceWse.Url = sUrl;  
WebServiceWse.UseDefaultCredentials = false;  
  
WebServiceWse.PreAuthenticate = true;  
SetWebServiceUserToken();
```

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```
WebServiceWse.SetPolicy( "Policy1" );  
}  
  
private void SetWebServiceUserToken()  
{  
if (sUserName == null)  
{  
throw new ArgumentNullException( "UserName" );  
}  
if (sPassword == null)  
{  
throw new ArgumentNullException( "Password" );  
}  
  
UsernameToken _unt = new UsernameToken( sUserName, sPassword,  
PasswordOption.SendPlainText );  
WebServiceWse.SetClientCredential( _unt );  
}  
  
public bool ValidateImage( int piReservationID, string psImageGUID,  
string psClientSpecs )  
{  
psClientSpecs = HttpUtility.HtmlEncode( psClientSpecs );  
return WebServiceWse.ValidateImage( piReservationID,  
psImageGUID, psClientSpecs );  
}
```

=====  
Once initialized, I can call any web service method from the  
WebServiceProxy instance. My client configuration is as follows:

app.config:

```
=====  
<microsoft.web.services3>  
<policy fileName="wse3policyCache.config" />  
<diagnostics>  
<trace enabled="true" input="InputTrace.webinfo"  
output="OutputTrace.webinfo" />  
<detailedErrors enabled="true" />  
</diagnostics>  
</microsoft.web.services3>  
=====
```

Policy:

```
=====  
<policies xmlns="http://schemas.microsoft.com/wse/2005/06/policy>  
<extensions>  
<extension name="usernameOverTransportSecurity"  
type="Microsoft.Web.Services3.Design.UsernameOverTransportAssertion,  
Microsoft.Web.Services3, Version=3.0.0.0, Culture=neutral,  
PublicKeyToken=31bf3856ad364e35" />  
=====
```

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```
</extensions>  
<policy name="Policy1">  
<!--  
Need to use SSL here for message Integrity, Confidentiality and  
security.  
-->  
<usernameOverTransportSecurity />  
</policy>  
</policies>
```

NOW FOR THE ACTUAL PROBLEM. When I run this code I'm getting an  
exception. The exception is as follows:

```
-----  
System.Web.Services.Protocols.SoapHeaderException was unhandled  
Message="Microsoft.Web.Services3.Security.SecurityFault:  
UsernameToken is expected but not present in the security header of the  
incoming message.\r\n at  
Microsoft.Web.Services3.Design.UsernameOverTransportAssertion.ServiceInputFilter.ValidateMessageSecur  
envelope, Security security)\r\n at  
Microsoft.Web.Services3.Security.ReceiveSecurityFilter.ProcessMessage(SoapEnvelope  
envelope)\r\n at  
Microsoft.Web.Services3.Pipeline.ProcessInputMessage(SoapEnvelope  
envelope)\r\n at  
Microsoft.Web.Services3.WseProtocol.FilterRequest(SoapEnvelope  
requestEnvelope)\r\n at  
Microsoft.Web.Services3.WseProtocol.RouteRequest(SoapServerMessage  
message)\r\n at  
System.Web.Services.Protocols.SoapServerProtocol.Initialize()\r\n at  
System.Web.Services.Protocols.ServerProtocolFactory.Create(Type type,  
HttpContext context, HttpRequest request, HttpResponse response,  
Boolean& abortProcessing)"  
Source="System.Web.Services"  
Actor="http://localhost:1346/WSImgVer/Service.asmx  
Lang=""  
Node="http://localhost:1346/WSImgVer/Service.asmx  
Role=""  
StackTrace:  
at  
System.Web.Services.Protocols.SoapHttpClientProtocol.ReadResponse(SoapClientMessage  
message, WebResponse response, Stream responseStream, Boolean  
asyncCall)  
at  
System.Web.Services.Protocols.SoapHttpClientProtocol.Invoke(String  
methodName, Object[] parameters)  
at  
MicroTek.ImageVerification.localhost.ServiceWse.ZipCodeSearch(String  
psZipCode) in C:\MicroTek  
(Net2.0)\ImageVerification\ImageVerification\Web  
References\localhost\Reference.cs:line 127
```

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at

MicroTek.ImageVerification.Proxy.WebServiceProxy.ZipCodeSearch(String psZipCode) in C:\MicroTek

(Net2.0)\ImageVerification\ImageVerification\WebServiceProxy.cs:line 87

at MicroTek.ImageVerification.Controls.ucFacilityList.FillList()

in C:\MicroTek

(Net2.0)\ImageVerification\ImageVerification\Controls\ucFacilityList.cs:line

47

at

MicroTek.ImageVerification.Controls.ucFacilityList.set\_sZipCode(String value) in C:\MicroTek

(Net2.0)\ImageVerification\ImageVerification\Controls\ucFacilityList.cs:line

81

at MicroTek.ImageVerification.frmMain2.ChangeStepView() in

C:\MicroTek

(Net2.0)\ImageVerification\ImageVerification\frmMain2.cs:line 199

at MicroTek.ImageVerification.frmMain2.btnNext\_Click(Object

sender, EventArgs e) in C:\MicroTek

(Net2.0)\ImageVerification\ImageVerification\frmMain2.cs:line 73

at System.Windows.Forms.Control.OnClick(EventArgs e)

at System.Windows.Forms.Button.OnClick(EventArgs e)

at System.Windows.Forms.Button.OnMouseUp(MouseEventArgs mevent)

at System.Windows.Forms.Control.WmMouseUp(Message& m,

MouseButtons button, Int32 clicks)

at System.Windows.Forms.Control.WndProc(Message& m)

at System.Windows.Forms.ButtonBase.WndProc(Message& m)

at System.Windows.Forms.Button.WndProc(Message& m)

at

System.Windows.Forms.Control.ControlNativeWindow.OnMessage(Message& m)

at

System.Windows.Forms.Control.ControlNativeWindow.WndProc(Message& m)

at System.Windows.Forms.NativeWindow.DebuggableCallback(IntPtr

hWnd, Int32 msg, IntPtr wParam, IntPtr lParam)

at

System.Windows.Forms.UnsafeNativeMethods.DispatchMessageW(MSG& msg)

at

System.Windows.Forms.Application.ComponentManager.System.Windows.Forms.UnsafeNativeMethods.IMS

dwComponentID, Int32 reason, Int32 pvLoopData)

at

System.Windows.Forms.Application.ThreadContext.RunMessageLoopInner(Int32

reason, ApplicationContext context)

at

System.Windows.Forms.Application.ThreadContext.RunMessageLoop(Int32

reason, ApplicationContext context)

at System.Windows.Forms.Application.Run(Form mainForm)

at MicroTek.ImageVerification.Program.Main() in C:\MicroTek

(Net2.0)\ImageVerification\ImageVerification\Program.cs:line 17

at System.AppDomain.nExecuteAssembly(Assembly assembly, String[]

args)

at System.Runtime.Hosting.ManifestRunner.Run(Boolean

checkAptModel)

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at System.Runtime.Hosting.ManifestRunner.ExecuteAsAssembly()  
at  
System.Runtime.Hosting.ApplicationActivator.CreateInstance(ActivationContext  
activationContext, String[] activationCustomData)  
at  
System.Runtime.Hosting.ApplicationActivator.CreateInstance(ActivationContext  
activationContext)  
at  
Microsoft.VisualStudio.HostingProcess.HostProc.RunUsersAssemblyDebugInZone()  
at System.Threading.ThreadHelper.ThreadStart\_Context(Object  
state)  
at System.Threading.ExecutionContext.Run(ExecutionContext  
executionContext, ContextCallback callback, Object state)  
at System.Threading.ThreadHelper.ThreadStart()

---

Thank you for reading all this and thank you for any help you (all of  
you can provide) I realize this that this is a lot of info but I wanted  
to be as detailed as possible so that this problem can be found  
quickly. Again thank you and if you need any more info feel free to  
ask. I'm desperate to get this problem solved. It is driving me  
insane...

Thank you again!  
Frank V.  
JawzX01[at]gmail.com  
<http://www.TheOpenSourceU.com>