

# UsernameToken can't be used in web services that are invoked by webcl

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- *From:* "blurgal" <[blurgal@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:blurgal@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
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This is my Web service Client. The filename is MathService.aspx. I use web client to invoke my web service. The coding is below:

```
Public Class Math
Inherits System.Web.UI.Page
Dim obj As New LoginForm
Public Token As UsernameToken = Nothing
Private Sub cmdAdd_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles cmdAdd.Click

Dim aa As String
Dim bb As String

aa = "hcti"
bb = "ching123"

Dim proxy As New SimpleMathWse

Token = New UsernameToken(aa, bb, PasswordOption.SendPlainText)
proxy.RequestSoapContext.Security.Tokens.Add(Token)
Dim iOp1 As Integer
Dim iOp2 As Integer
Dim iResult As Integer

iOp1 = CInt(txtOperand1.Text)
iOp2 = CInt(txtOperand2.Text)

iResult = proxy.Add(iOp1, iOp2)
txtResults.Text = iResult.ToString()
End Sub
End Class
```

```
This is my web service file SimpleMath.asmx
<WebMethod(>_
Public Function Add(ByVal x As Integer, ByVal y As Integer) As Integer
Dim tok As UsernameToken =
WseSecurityHelpers.GetUsernameToken(RequestSoapContext.Current)
```

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```
If Not tok.Principal.IsInRole("Allow") Then  
Throw New Exception("Access Denied")  
End If  
Add = x + y  
End Function
```

This is the WSESecurityHelper file I used in my web service.

```
Public Class WseSecurityHelpers
```

```
Public Shared Function GetUsernameToken(ByVal context As SoapContext) As  
UsernameToken
```

```
If context Is Nothing Then  
Throw New Exception("Only SOAP requests are permitted.")  
End If
```

```
If context.Security.Tokens.Count = 0 Then  
Throw New SoapException("Missing security token",  
SoapException.ClientFaultCode)  
Else  
Dim tok As UsernameToken  
For Each tok In context.Security.Tokens  
Return tok  
Next tok  
Throw New Exception("UsernameToken not supplied")  
End If
```

```
End Function
```

```
End Class
```

```
Public Class MyUsernameTokenManager  
Inherits UsernameTokenManager
```

```
Protected Overrides Function AuthenticateToken(ByVal token _  
As UsernameToken) As String
```

```
Dim roles As New ArrayList  
Dim result As Integer
```

```
Dim myConnection As SqlConnection
```

```
' Grab encrypted connection string from web.config  
myConnection = New SqlConnection(ConfigurationSettings.AppSettings("cnn"))
```

```
myConnection.Open()
```

```
Dim sqlComm As New SqlCommand
```

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```
sqlComm.Connection = myConnection
```

```
sqlComm.CommandText = "SELECT ID FROM WSUser WHERE Username = '" &  
token.Username & "' and Password = '" & token.Password & "'" &  
result = CInt(sqlComm.ExecuteScalar())
```

```
result = 1
```

```
If result > 0 Then
```

```
roles.Add("Allow")  
token.Principal = New GenericPrincipal(New GenericIdentity(token.Username),  
roles.ToArray(GetType(String)))
```

```
Else  
MyBase.AuthenticateToken(token)
```

```
End If
```

```
Return token.Password
```

```
End Function 'AuthenticateToken  
End Class
```

I got advice from Mr Bromberg on the SQL commands in my post previously and have coded it. Is it correct? Then I use web client to invoke the web service. But I always get this error as stated below. Please do help me. I really stuck with this problem for 2 months. I tried by using windows application and without using database and it works fine. But my boss wants to use database and use web client. How???????? I'm going to go crazy. Everyday I do for 2 months and read and ask in forum but no solution to my error. Please help needed urgently before I go crazy and have to be admitted in a mental hospital.

Server Error in '/UserValidation' Application.

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```
Microsoft.Web.Services2.Security.SecurityFault: The security token could not  
be authenticated or authorized at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.OnLogonUserFailed(UsernameToken  
token) at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.LogonUser(UsernameToken  
token) at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.AuthenticateToken(UsernameToken  
token) at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.VerifyToken(SecurityToken  
securityToken) at  
Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.LoadXmlSecurityToken(XmlElement  
element) at  
Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.GetTokenFromXml(XmlElement  
element) at Microsoft.Web.Services2.Security.Security.LoadToken(XmlElement  
element, SecurityConfiguration configuration, Int32& tokenCount) at
```

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## UsernameToken can't be used in web services that are invoked by webcl

Microsoft.Web.Services2.Security.Security.LoadXml(XmlElement element) at  
Microsoft.Web.Services2.Security.SecurityInputFilter.ProcessMessage(SoapEnvelope envelope) at  
Microsoft.Web.Services2.Pipeline.ProcessInputMessage(SoapEnvelope envelope) at  
Microsoft.Web.Services2.WebServicesExtension.BeforeDeserializeServer(SoapServerMessage message)  
Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.Web.Services.Protocols.SoapHeaderException:  
Microsoft.Web.Services2.Security.SecurityFault: The security token could not be authenticated or authorized at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.OnLogonUserFailed(UsernameToken token) at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.LogonUser(UsernameToken token) at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.AuthenticateToken(UsernameToken token) at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.VerifyToken(SecurityToken securityToken) at  
Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.LoadXmlSecurityToken(XmlElement element) at  
Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.GetTokenFromXml(XmlElement element) at Microsoft.Web.Services2.Security.Security.LoadToken(XmlElement element, SecurityConfiguration configuration, Int32& tokenCount) at  
Microsoft.Web.Services2.Security.Security.LoadXml(XmlElement element) at  
Microsoft.Web.Services2.Security.SecurityInputFilter.ProcessMessage(SoapEnvelope envelope) at  
Microsoft.Web.Services2.Pipeline.ProcessInputMessage(SoapEnvelope envelope) at  
Microsoft.Web.Services2.WebServicesExtension.BeforeDeserializeServer(SoapServerMessage message)

Source Error:

Line 40:

```
<System.Web.Services.Protocols.SoapDocumentMethodAttribute("http://tempuri.org/Math/SimpleMath/Add, RequestNamespace:=http://tempuri.org/Math/SimpleMath, ResponseNamespace:=http://tempuri.org/Math/SimpleMath, Use:=System.Web.Services.Description.SoapBindingUse.Literal, ParameterStyle:=System.Web.Services.Protocols.SoapParameterStyle.Wrapped)>  
Line 41: Public Function Add(ByVal x As Integer, ByVal y As Integer) As Integer  
Line 42: Dim results() As Object = Me.Invoke("Add", New Object() {x, y})  
Line 43: Return CType(results(0), Integer)  
Line 44: End Function
```

Source File: C:\Inetpub\wwwroot\UserValidation\Web References\localhost\Reference.vb Line: 42

Stack Trace:

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[SoapHeaderException: Microsoft.Web.Services2.Security.SecurityFault: The security token could not be authenticated or authorized  
at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.OnLogonUserFailed(UsernameToken token)  
at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.LogonUser(UsernameToken token)  
at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.AuthenticateToken(UsernameToken token)  
at  
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.VerifyToken(SecurityToken securityToken)  
at  
Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.LoadXmlSecurityToken(XmlElement element)  
at  
Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.GetTokenFromXml(XmlElement element)  
at Microsoft.Web.Services2.Security.Security.LoadToken(XmlElement element, SecurityConfiguration configuration, Int32& tokenCount)  
at Microsoft.Web.Services2.Security.Security.LoadXml(XmlElement element)  
at  
Microsoft.Web.Services2.Security.SecurityInputFilter.ProcessMessage(SoapEnvelope envelope)  
at Microsoft.Web.Services2.Pipeline.ProcessInputMessage(SoapEnvelope envelope)  
at  
Microsoft.Web.Services2.WebServicesExtension.BeforeDeserializeServer(SoapServerMessage message)]  
System.Web.Services.Protocols.SoapHttpClientProtocol.ReadResponse(SoapClientMessage message, WebResponse response, Stream responseStream, Boolean asyncCall)  
System.Web.Services.Protocols.SoapHttpClientProtocol.Invoke(String methodName, Object[] parameters)  
UserValidation.localhost.SimpleMathWse.Add(Int32 x, Int32 y) in  
C:\inetpub\wwwroot\UserValidation\Web References\localhost\Reference.vb:42  
UserValidation.Math.cmdAdd\_Click(Object sender, EventArgs e) in  
C:\inetpub\wwwroot\UserValidation\MathService.aspx.vb:74  
System.Web.UI.WebControls.Button.OnClick(EventArgs e)  
System.Web.UI.WebControls.Button.System.Web.UI.IPostBackEventHandler.RaisePostBackEvent(String eventArgument)  
System.Web.UI.Page.RaisePostBackEvent(IPostBackEventHandler sourceControl, String eventArgument)  
System.Web.UI.Page.RaisePostBackEvent(NameValueCollection postData)  
System.Web.UI.Page.ProcessRequestMain()

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