

microsoft.public.dotnet.framework.aspnet.webservices: X509Certificate not passed to webservice.

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Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.aspnet.webservices/2004-10/0335.htm>

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Date: 10/28/04

Date: 28 Oct 2004 08:18:46 -0700

Hi all,

I have the following scenario (XP / IIS 5, FX v1.1.4322) Both the client app and web service are running on my local development machine.

I am using a straightforward HTTPWebRequest, and WSE 2 to add an X509 certificate, as follows:

```
=====
Private Function CreateWebRequest() As HttpWebRequest

    Dim objRequest As HttpWebRequest = WebRequest.Create(m_URL &
"/" & m_Operation)

    SetProxy(objRequest.Proxy)

    objRequest.Method = "POST"
    objRequest.ContentType = "application/x-www-form-urlencoded"
    objRequest.Timeout = 300000

    Dim certStore As X509CertificateStore
    certStore = X509CertificateStore.LocalMachineStore(X509CertificateStore.RootStore.ToString)
    certStore.OpenRead()

    Dim cert As X509Certificates.X509Certificate
    If certStore.FindCertificateBySubjectString("XYZ").Count > 0
Then
        cert = certStore.FindCertificateBySubjectString("XYZ")(0)
    End If

    objRequest.ClientCertificates.Add(cert)

    Return objRequest

End Function
```

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This is using a test cert generated with makecert, and imported into the local machine root store. When in debug mode, I can see the cert is retrieved and added to the request's clientcertificates collection fine.

However when inspecting the Context.Request.ClientCertificate property in the WebService code, there is only an HTTPClientCertificate object there with its properties unpopulated. (this seems to be present irrespective of whether or not the certificate is added client side)

I have attempted a similar exercise with the following test code which I found here : <http://www.15seconds.com/issue/020312.htm> to test a straightforward web service scenario, with the same result. (The cert does not seem to be passed to the service...)

```
private void TestService_Click(object sender, System.EventArgs e)
{
    CSWebservices.CCWebservice objws ;
    objws = new CSWebservices.CCWebservice() ;

    X509Certificate objCert ;
    objCert = X509Certificate.CreateFromCertFile("xyz.cer") ;

    objws.ClientCertificates.Add(objCert) ;

    CSWebservices.ClientCertificateDetails objCertDetails ;
    objCertDetails = objws.GetCertificateDetails() ;

}
```

Server Side:

```
[WebMethod]
public ClientCertificateDetails GetCertificateDetails()
{
    HttpClientCertificate objCertificate =
HttpContext.Current.Request.ClientCertificate ;
    ClientCertificateDetails objCertificateDetails = new
ClientCertificateDetails() ;
    objCertificateDetails.Cookie = objCertificate.Cookie ;
    objCertificateDetails.IsPresent = objCertificate.IsPresent ;
    objCertificateDetails.Issuer = objCertificate.Issuer ;
    objCertificateDetails.IsValid = objCertificate.IsValid ;
    objCertificateDetails.KeySize = objCertificate.KeySize ;
    objCertificateDetails.SecretKeySize = objCertificate.SecretKeySize
```

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```
;  
    objCertificateDetails.SerialNumber = objCertificate.SerialNumber ;  
    objCertificateDetails.ServerIssuer = objCertificate.ServerIssuer ;  
    objCertificateDetails.ServerSubject = objCertificate.ServerSubject  
;  
    objCertificateDetails.ValidFrom = objCertificate.ValidFrom ;  
    objCertificateDetails.ValidUntil = objCertificate.ValidUntil ;  
  
    return objCertificateDetails ;  
}
```

=====

If I configure IIS to require Client certificates: I experience HTTP 403.7 (cert required) errors.

Any ideas / pointers would be appreciated.

Thanks,

Matthew