

# Cannot use usernameForCertificateSecurity with IIS application pool custom account

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Hi,

I am using web service secured by the WSE 3.0 usernameForCertificateSecurity policy. The service is running on Windows 2003, IIS 6.0. Everything works fine if the IIS application pool uses default NETWORK\_SERVICE identity. If I change the identity to the custom account I am getting the following error in server WSE 3.0 output trace:

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<log>
```

```
<outputMessage utc="30/11/2006 08:43:18"
messageId="urn:uuid:993091ef-b795-4fc2-8707-03076e9107c4">
```

```
<processingStep description="Unprocessed message">
```

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
```

```
<soap:Body>
```

```
<soap:Fault>
```

```
<faultcode>soap:Server</faultcode>
```

```
<faultstring>Server was unable to process request. ---&gt; The system cannot
find the file specified.
```

```
</faultstring>
```

```
<detail />
```

```
</soap:Fault>
```

```
</soap:Body>
```

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</soap:Envelope>

</processingStep>

<processingStep description="Entering SOAP filter  
Microsoft.Web.Services3.Design.UsernameForCertificateAssertion+ServiceOutputFilter"

</>

<processingStep description="Exception thrown: Cannot secure outgoing  
message from the service. The security context token cannot be retrieved  
from the session state."> at

Microsoft.Web.Services3.Security.SecureConversationService.SendSecurityFilter.SecureSecurityConversationMessage  
envelope, Security security, MessageProtectionRequirements response)

at

Microsoft.Web.Services3.Security.SecureConversationService.SendSecurityFilter.SecureMessage(SoapEnvelope  
envelope, Security security)

at

Microsoft.Web.Services3.Security.SendSecurityFilter.ProcessMessage(SoapEnvelope  
envelope)

at Microsoft.Web.Services3.Pipeline.ProcessOutputMessage(SoapEnvelope  
envelope)</processingStep>

</outputMessage>

</log>

### Some extra information:

\* If I change the usernameForCertificateSecurity policy to  
usernameOverTransportSecurity it works. That suggests that the error has  
something to do with the certificate.

\* I have set access to the certifiacate private key for the custom service  
account (if I do not do that the error looks different anyway)

\* The IIS application pool custom service account identity was created using  
the instruction in

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnpag2/html/PAGHT000009.asp>

\* It does not matter if the service account is local or domain. I am getting  
the same error.

\* The exact policy specification is bellow:

<policy name="OperatorClientPolicy">  
<usernameForCertificateSecurity establishSecurityContext="true"  
renewExpiredSecurityContext="true" requireSignatureConfirmation="false"  
messageProtectionOrder="SignBeforeEncryptAndEncryptSignature"  
requireDerivedKeys="true" ttlInSeconds="300">

<serviceToken>

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<x509 storeLocation="LocalMachine" storeName="My" findValue="CN=EMSAppSever, CN=PES.CNCZ.CZ, CN=PES, O=CN Resources International (CZ) a.s., C=Czech Republic" 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>

</usernameForCertificateSecurity>

<requireActionHeader />

</policy>

Any help would be greatly appreciated.

Regards,

Martin

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