

Create a Pass-through SOAP WebService



[Kurro Lopez](#) 24 June 2019

[Interoperability](#), [SOAP](#), [Ensemble](#)

Hi all,

I'm trying to create a SOAP Pass-through according to [Configuring Pass-through Business Services](#) instructions, but I'm not able to run it 😞

I'm using the following WebService

<http://www.dneonline.com/calculator.asmx?wsdl>

I've created both items

CalculatorSOAPCSPServ

- Classname: EnsLib.SOAP.GenericService
- Target Config Name: CalculatorSOAPCSPOp
- Port: Empty
- Enable Standard Request: Checked
- Pool size: 0

CalculatorSOAPCSPOp

- Classname: EnsLib.SOAP.GenericOperation
- HttpServer: www.dneonline.com
- Url: |

Also, I've created the Web Application using the following parameters:

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Menu Home | About | Help | Logout System > Security Management > Web Applications > Edit Web Application

Server: nbsd26 Namespace: %SYS
User: _SYSTEM Licensed to: [blurred] Instance: [blurred]

This is a Test System

Edit: /SOAPpassthrough

Save Cancel

Edit definition for web application /SOAPpassthrough:

General Application Roles Matching Roles

Name: /SOAPpassthrough
Required. (e.g. /csp/appname)

Description: [empty]

Namespace: [dropdown] Default Application for [blurred]: /csp/slt-tacrm Namespace Default Application

Enabled: Application CSP/ZEN Inbound Web Services
 DeepSee iKnow

Permitted Classes: [empty]

Security Settings: Resource Required [dropdown] Group By ID [dropdown]
Allowed Authentication Methods: Unauthenticated Password Kerberos Login Cookie

Session Settings: Session Timeout: 900 seconds Event Class [dropdown]
Use Cookie for Session: Always Session Cookie Path: /SOAPpassthrough/

Dispatch Class: EnsLib.SOAP.GenericService

CSP File Settings: Serve Files: Always Serve Files Timeout: 3600 seconds
CSP Files Physical Path: [empty]

Name: /SOAPpassthrough

Dispatch Class: EnsLib.SOAP.GenericServer

If I ask directly the WSDL to Calculator Webservice it retrieves this XML:

<http://www.dneonline.com/calculator.asmx?wsdl>

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="
http://schemas.xmlsoap.org/wsdl/soap/ xmlns:tm="
http://microsoft.com/wsdl/mime/textMatchi
ng/ xmlns:soapenc="
http://schemas.xmlsoap.org/soap/encoding/ xmlns:mime="
http://schemas.xmlsoap.org/wsdl/mime/ xmlns:tns="
http://tempuri.org/ xmlns:s="
http://www.w3.org/2001/XMLSchema xmlns:soap12="
http://schemas.xmlsoap.org/wsdl/soap12/ xmlns:http="
http://schemas.xmlsoap.org/wsdl/http/ targetNamespace="
http://tempuri.org/ xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:types>
  <s:schema elementFormDefault="qualified" targetNamespace="http://tempuri.org/">
    <s:element name="Add">
      <s:complexType>
        <s:sequence>
          <s:element minOccurs="1" maxOccurs="1" name="intA" type="s:int" />
          <s:element minOccurs="1" maxOccurs="1" name="intB" type="s:int" />
        </s:sequence>
      </s:complexType>
    </s:element>
  </s:schema>
</wsdl:types>
```

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```
</s:element>
<s:element name="AddResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="1" maxOccurs="1" name="AddResult" type="s:int" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="Subtract">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="1" maxOccurs="1" name="intA" type="s:int" />
      <s:element minOccurs="1" maxOccurs="1" name="intB" type="s:int" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="SubtractResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="1" maxOccurs="1" name="SubtractResult" type="
s:int" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="Multiply">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="1" maxOccurs="1" name="intA" type="s:int" />
      <s:element minOccurs="1" maxOccurs="1" name="intB" type="s:int" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="MultiplyResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="1" maxOccurs="1" name="MultiplyResult" type="
s:int" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="Divide">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="1" maxOccurs="1" name="intA" type="s:int" />
      <s:element minOccurs="1" maxOccurs="1" name="intB" type="s:int" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="DivideResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="1" maxOccurs="1" name="DivideResult" type="
s:int" />
    </s:sequence>
  </s:complexType>
</s:element>
</s:schema>
</wsdl:types>
<wsdl:message name="AddSoapIn">
```

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```
<wsdl:part name="parameters" element="tns:Add" />
</wsdl:message>
<wsdl:message name="AddSoapOut">
  <wsdl:part name="parameters" element="tns:AddResponse" />
</wsdl:message>
<wsdl:message name="SubtractSoapIn">
  <wsdl:part name="parameters" element="tns:Subtract" />
</wsdl:message>
<wsdl:message name="SubtractSoapOut">
  <wsdl:part name="parameters" element="tns:SubtractResponse" />
</wsdl:message>
<wsdl:message name="MultiplySoapIn">
  <wsdl:part name="parameters" element="tns:Multiply" />
</wsdl:message>
<wsdl:message name="MultiplySoapOut">
  <wsdl:part name="parameters" element="tns:MultiplyResponse" />
</wsdl:message>
<wsdl:message name="DivideSoapIn">
  <wsdl:part name="parameters" element="tns:Divide" />
</wsdl:message>
<wsdl:message name="DivideSoapOut">
  <wsdl:part name="parameters" element="tns:DivideResponse" />
</wsdl:message>
<wsdl:portType name="CalculatorSoap">
  <wsdl:operation name="Add">
    <wsdl:documentation xmlns:wsdl="
http://schemas.xmlsoap.org/wsdl/">
http://schemas.xmlsoap.org/wsdl/
Adds two integers. This is a test WebService. ©DNE Online</wsdl:documentation>
    <wsdl:input message="tns:AddSoapIn" />
    <wsdl:output message="tns:AddSoapOut" />
  </wsdl:operation>
  <wsdl:operation name="Subtract">
    <wsdl:input message="tns:SubtractSoapIn" />
    <wsdl:output message="tns:SubtractSoapOut" />
  </wsdl:operation>
  <wsdl:operation name="Multiply">
    <wsdl:input message="tns:MultiplySoapIn" />
    <wsdl:output message="tns:MultiplySoapOut" />
  </wsdl:operation>
  <wsdl:operation name="Divide">
    <wsdl:input message="tns:DivideSoapIn" />
    <wsdl:output message="tns:DivideSoapOut" />
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="CalculatorSoap" type="tns:CalculatorSoap">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
  <wsdl:operation name="Add">
    <soap:operation soapAction="http://tempuri.org/Add" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="Subtract">
    <soap:operation soapAction="http://tempuri.org/Subtract" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
```

```
</wsdl:input>
<wsdl:output>
  <soap:body use="literal" />
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="Multiply">
  <soap:operation soapAction="http://tempuri.org/Multiply" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="Divide">
  <soap:operation soapAction="http://tempuri.org/Divide" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:binding name="CalculatorSoap12" type="tns:CalculatorSoap">
  <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" />
  <wsdl:operation name="Add">
    <soap12:operation soapAction="http://tempuri.org/Add" style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="Subtract">
    <soap12:operation soapAction="http://tempuri.org/Subtract" style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="Multiply">
    <soap12:operation soapAction="http://tempuri.org/Multiply" style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="Divide">
    <soap12:operation soapAction="http://tempuri.org/Divide" style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
```

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```
<soap12:body use="literal" />
</wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="Calculator">
  <wsdl:port name="CalculatorSoap" binding="tns:CalculatorSoap">
    <soap:address location="http://www.dneonline.com/calculator.asmx" />
  </wsdl:port>
  <wsdl:port name="CalculatorSoap12" binding="tns:CalculatorSoap12">
    <soap12:address location="http://www.dneonline.com/calculator.asmx" />
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>
```

However, If I'm using the passthrough SOAP it retrieves the following:

<http://localhost:57772/SOAPpassthrough/CalculatorSOAPCSPServ/calculator....>

```
<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns="http://schemas.xmlsoap.org/wsdl/" xmlns:mime="
http://schemas.xmlsoap.org/wsdl/mime/" xmlns:s="
http://www.w3.org/2001/XMLSchema" xmlns:s0="http://tempuri.org" xmlns:soap="
http://schemas.xmlsoap.org/wsdl/soap/" xmlns:SOAP-ENC="
http://schemas.xmlsoap.org/soap/encoding/" xmlns:wsdl="
http://schemas.xmlsoap.org/wsdl/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" targetNamespace="http://tempuri.org">
  <types/>
  <portType name="MyEnsembleRequestWebServiceSoap"/>
  <binding name="MyEnsembleRequestWebServiceSoap" type="
s0:MyEnsembleRequestWebServiceSoap">
    <soap:binding transport="
http://schemas.xmlsoap.org/soap/http" style="document"/>
  </binding>
  <service name="MyEnsembleRequestWebService">
    <port name="MyEnsembleRequestWebServiceSoap" binding="
s0:MyEnsembleRequestWebServiceSoap">
      <soap:address location="
http://localhost:57772/SOAPpassthrough/CalculatorSOAPCSPServ/EnsLib.SOAP.GenericService.cls" />
    </port>
  </service>
</definitions>
```

According to the documentacion, I should have the same result in both calls

What is wrong?

Best regards,

Francisco López

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