
Question

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Create a Pass-through SOAP WebService

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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Published on InterSystems Developer Community (<https://community.intersystems.com>)

General Application Roles Matching Roles

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

Description:

Namespace: nbsd26 Default Application for csp/sl-tacrm Namespace Default Application

Enabled: Application CSP/ZEN Inbound Web Services
 DeepSee iKnow

Permitted Classes:

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

Session Settings: Session Timeout: 900 seconds Event Class:
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 File Physical Path:

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/textMatching/" xmlns:nsq="http://tempuri.org/" 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>
```

```
</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">
```

```

<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/">
      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:operation>
</wsdl:binding>

```

```
</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>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>

```

```
<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 documentation, I should have the same result in both calls

What is wrong?

Best regards,

Francisco López

#Interoperability #SOAP #Ensemble

Source URL:<https://community.intersystems.com/post/create-pass-through-soap-webservice>