

Question

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Dependency loop error when importing Salesforce WSDL

I am trying to import the Salesforce Enterprise WSDL in InterSystems Ensemble Studio using the SOAP Add-In. However, when I do so I receive a class dependency loop, Error #5316 during compilation. The WSDL is the standard WSDL provided with Salesforce and works fine in SoapUI. In the Salesforce WSDL it is allowed for an object A to include an object B as an element, while at the same time object B is allowed object A as an element. I think this is what causes the class dependency loop for InterSystems. Does anyone has any suggestion how I can circumvent this error? Rewriting the WSDL is not an option as it includes over 900 objects which all refer to at least 10 other objects.

Here is the error:

```
ERROR #5316: Class dependency loop for classes 'SforceService.AcceptedEventRelation,SforceService.Account,SforceService.AccountContactRelation,SforceService.AccountContactRole,SforceService.AccountFeed,SforceService.AccountHistory,SforceService.AccountPartner,SforceService.AccountShare,SforceService.AccountTag,SforceService.AccountTeamMember,SforceService.ActionLinkGroupTemplate,SforceService.ActionLinkTemplate,SforceService.ActivityHistory,SforceService.AdditionalNumber,SforceService.Announcement,SforceService.ApexClass,SforceService.ApexComponent,SforceService.ApexEmailNotification,...'
Detected 1 errors during compilation in 0.523s.
```

Here is a small excerpt of the Salesforce WSDL. You see that this AccountContactRole-element refers to an Account element. In turn, the account-element (not included in excerpt) refers in the same way to the AccountContactRole-element.

```
<complexType name="AccountContactRole">
  <complexContent>
    <extension base="ens:sObject">
      <sequence>
        <element name="Account" nillable="true" minOccurs="0" type="ens:Account"/>
      </sequence>
      <element name="AccountId" nillable="true" minOccurs="0" type="tns:ID"/>
      <element name="Contact" nillable="true" minOccurs="0" type="ens:Contact"/>
      <element name="ContactId" nillable="true" minOccurs="0" type="tns:ID"/>
      <element name="CreatedBy" nillable="true" minOccurs="0" type="ens:User"/>
      <element name="CreatedById" nillable="true" minOccurs="0" type="tns:ID"/>
      <element name="CreatedDate" nillable="true" minOccurs="0" type="xsd:dateTime"/>
      <element name="IsDeleted" nillable="true" minOccurs="0" type="xsd:boolean"/>
      <element name="IsPrimary" nillable="true" minOccurs="0" type="xsd:boolean"/>
      <element name="LastModifiedBy" nillable="true" minOccurs="0" type="ens:User"/>
      <element name="LastModifiedById" nillable="true" minOccurs="0" type="tns:ID"/>
      <element name="LastModifiedDate" nillable="true" minOccurs="0" type="xsd:dateTime"/>
    </extension>
  </complexContent>
</complexType>
```

```
<element name="Role" nillable="true" minOccurs="0" type="xsd:string"/>
<element name="SystemModstamp" nillable="true" minOccurs="0" type="xsd:da
teTime"/>
</sequence>
</extension>
</complexContent>
</complexType>
```

Based on the answer(s) below I tried the following:

1. Recompiling the project only recompiles the existing classes and not those imported from the Salesforce WSDL.
2. Recompiling the specific classes just gives the dependency loop.
3. When I recompile after adding the DependsOn-keyword I get an error that the classes that are depended upon don't exist. I can't compile them either due to the dependency loop.

So the problem here is that class A refers to class B and vice versa so I don't have a good starting point for compiling my classes. Any further ideas?

Solution

1. Change the classes to %Persistent. I was importing the WSDL with the classes as %Serial. When I re-imported them and checked them as %Persistent it all compiled!

[#Compiler](#) [#SOAP](#) [#Ensemble](#)

Source URL: <https://community.intersystems.com/post/dependency-loop-error-when-importing-salesforce-wsdl>