WSDL Creation

Step1:-To crate WSDL creation first we need to convert xml payload to xsd (xsd is validate the payload )

Sample Xml:-

<?xml version="1.0" encoding="UTF-8"?>

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:head="http://services.mig.com/common/header" xmlns:v1="http://services.mig.com/schema/deductible-ledger/v1">

<soapenv:Header />

<soapenv:Body>

<v1:CreateDLAccountAndInitRequest>

<v1:Policy>

<v1:PolicyNumber>11111111111</v1:PolicyNumber>

<v1:LineOfBusiness>PA</v1:LineOfBusiness>

<v1:CompanyCode>21</v1:CompanyCode>

<v1:TermType>6M</v1:TermType>

<v1:BaseState>OH</v1:BaseState>

<v1:TermEffDate>2020-08-01</v1:TermEffDate>

</v1:Policy>

<v1:LedgerAccount>

<v1:AccountId>100001</v1:AccountId>

</v1:LedgerAccount>

<v1:Transaction>

<v1:TransactionDate>2020-10-24T04:00:00.000-04:00</v1:TransactionDate>

<v1:UserId>t904123</v1:UserId>

<v1:ReferenceId>5000008</v1:ReferenceId>

<v1:EventType>Renewal</v1:EventType>

</v1:Transaction>

</v1:CreateDLAccountAndInitRequest>

</soapenv:Body>

</soapenv:Envelope>

🡪 To convert this xml to xsd we have some free online tools

Ex:- <https://www.freeformatter.com/xsd-generator.html#ad-output>

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Below same sample xml helps us to understand the xml body structure

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<?xml version="1.0" encoding="UTF-8"?>

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

xmlns:head="http://services.mig.com/common/header"

xmlns:v1="http://services.mig.com/schema/deductible-ledger/v1">----------->name spaces

<soapenv:Header />------------------------------------------------------------------------>payload Headers

<soapenv:Body> ----------------------------------------------------------------------------> payload body starts

<v1:CreateDLAccountAndInitRequest> ---------------------------------------------------->payload Name

<v1:Policy> ------------------------------------------------------------->Rote-1-starts

<v1:PolicyNumber>11111111111</v1:PolicyNumber>

<v1:LineOfBusiness>PA</v1:LineOfBusiness>

<v1:CompanyCode>21</v1:CompanyCode>

<v1:TermType>6M</v1:TermType>

<v1:BaseState>OH</v1:BaseState>

<v1:TermEffDate>2020-08-01</v1:TermEffDate>

</v1:Policy> -------------------------------------------------------------->Rote -1-ends

<v1:LedgerAccount> ----------------------------------------------------->Rote-2-starts

<v1:AccountId>100001</v1:AccountId>

</v1:LedgerAccount> ----------------------------------------------------->Rote-2-ends

<v1:Transaction> ---------------------------------------------------------->Rote-3-Starts

<v1:TransactionDate>2020-10-24T04:00:00.000-04:00</v1:TransactionDate>

<v1:UserId>t904123</v1:UserId>

<v1:ReferenceId>5000008</v1:ReferenceId>

<v1:EventType>Renewal</v1:EventType>

</v1:Transaction> ---------------------------------------------------------->Rote-3-ends

</v1:CreateDLAccountAndInitRequest>

</soapenv:Body>

</soapenv:Envelope>

Step2:- once we convert the (xml to xsd) we have to arrange the xsd in proper way to understand easily

**Xsd:**-

<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified" targetNamespace="http://services.mig.com/schema/deductible-ledger/v1" xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:element name="CreateDLAccountAndInitRequest" type="v1:CreateDLAccountAndInitRequestType" xmlns:v1="http://services.mig.com/schema/deductible-ledger/v1"/>

<xs:complexType name="PolicyType">

<xs:sequence>

<xs:element type="xs:long" name="PolicyNumber"/>

<xs:element type="xs:string" name="LineOfBusiness"/>

<xs:element type="xs:byte" name="CompanyCode"/>

<xs:element type="xs:string" name="TermType"/>

<xs:element type="xs:string" name="BaseState"/>

<xs:element type="xs:date" name="TermEffDate"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="LedgerAccountType">

<xs:sequence>

<xs:element type="xs:int" name="AccountId"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="TransactionType">

<xs:sequence>

<xs:element type="xs:dateTime" name="TransactionDate"/>

<xs:element type="xs:string" name="UserId"/>

<xs:element type="xs:int" name="ReferenceId"/>

<xs:element type="xs:string" name="EventType"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="CreateDLAccountAndInitRequestType">

<xs:sequence>

<xs:element type="v1:PolicyType" name="Policy" xmlns:v1="http://services.mig.com/schema/deductible-ledger/v1"/>

<xs:element type="v1:LedgerAccountType" name="LedgerAccount" xmlns:v1="http://services.mig.com/schema/deductible-ledger/v1"/>

<xs:element type="v1:TransactionType" name="Transaction" xmlns:v1="http://services.mig.com/schema/deductible-ledger/v1"/>

</xs:sequence>

</xs:complexType>

</xs:schema>

XSD understandable format :-

Step1:-Place the all (schema or name spaces ) in schema location

Step2:-element

Step3:-next place Complextype that name watch with element name in that complextype we no need of namespaces so we can remove that because in all name spaces are available in schemas

Step4:- once modification is done need to validate in eclipse

<xs:schema attributeFormDefault="unqualified"

elementFormDefault="qualified"

targetNamespace="http://services.mig.com/schema/deductible-ledger/v1"

xmlns:xs="<http://www.w3.org/2001/XMLSchema>"

xmlns:v1="http://services.mig.com/schema/deductible-ledger/v1"/>

<xs:element name="CreateDLAccountAndInitRequest" type="v1:CreateDLAccountAndInitRequestType"/>

<xs:complexType name="CreateDLAccountAndInitRequestType">

<xs:sequence>

<xs:element type="v1:PolicyType" name="Policy" />

<xs:element type="v1:LedgerAccountType" name="LedgerAccount" />

<xs:element type="v1:TransactionType" name="Transaction" />

</xs:sequence>

</xs:complexType>

<xs:complexType name="PolicyType">

<xs:sequence>

<xs:element type="xs:long" name="PolicyNumber"/>

<xs:element type="xs:string" name="LineOfBusiness"/>

<xs:element type="xs:byte" name="CompanyCode"/>

<xs:element type="xs:string" name="TermType"/>

<xs:element type="xs:string" name="BaseState"/>

<xs:element type="xs:date" name="TermEffDate"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="LedgerAccountType">

<xs:sequence>

<xs:element type="xs:int" name="AccountId"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="TransactionType">

<xs:sequence>

<xs:element type="xs:dateTime" name="TransactionDate"/>

<xs:element type="xs:string" name="UserId"/>

<xs:element type="xs:int" name="ReferenceId"/>

<xs:element type="xs:string" name="EventType"/>

</xs:sequence>

</xs:complexType>

</xs:schema>

WSDL CREATION

**Step1:-**

**We have to set the namespaces from xsd**

**🡪 targetNamespace:-**

**copy targetNamespace from xsd and change schema to wsdl**

**EXAMPLE:-**

**XSD:-** "http://services.mig.com/schema/deductible-ledger/v1"

WSDl:- "http://services.mig.com/wsdl/deductible-ledger/v1"

(same url only change is schema to wsdl)

* **xmlns:tns :-**

**xmlns:tns is also same like as targetNamespace**

**🡪 xmlns:v1:- for this copy the targetNamespace from xsd and past in wsdl no need of**

**any changes**

* **xmlns:ert :- if there any error thypes in project here we can past that**
* **xmlns:hdr:- if there any headers available past here**
* **xmlns:wsdl (and ) xmlns:soap (and) xmlns:xsd :-Automatically generated**

**<?xml version="1.0" encoding="UTF-8"?>**

**<wsdl:definitions name="DeductibleLedgerService"**

**targetNamespace="http://services.mig.com/wsdl/deductible-ledger/v1"**

**xmlns:tns="http://services.mig.com/wsdl/deductible-ledger/v1"**

**xmlns:v1="http://services.mig.com/schema/deductible-ledger/v1"**

**xmlns:ert="http://services.mig.com/ErrorTypes"**

**xmlns:hdr="http://services.mig.com/common/header"**

**xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"**

**xmlns:soap=**[**http://schemas.xmlsoap.org/wsdl/soap/**](http://schemas.xmlsoap.org/wsdl/soap/)

**xmlns:xsd="http://www.w3.org/2001/XMLSchema">**

xxxx1:- **name="DeductibleLedgerService" what is DeductibleLedgerService why we need to use this name ?**

**Step2:-**

**Next we have to declare types.Here we have to copy the targetNamespace from xsd and**

**Past in namespace .**

**For schemaLocation we have to give the folder name**

**<wsdl:types>**

**<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">**

**<xs:import namespace="http://services.mig.com/schema/deductible-ledger/v1"**

**schemaLocation="DeductibleLedger.xsd" />**

**</xs:schema>**

**</wsdl:types>**

Xxxx2:- **schemaLocation need to conform**

**Step3:-**

next we have to declare message .in this message we have the give the name and element values

Name== copy the xsd element name value here and end of the value we have to add message

Ex:-

Xsd :- CreateDLAccountAndInitRequest

Wsdl:-CreateDLAccountAndInitRequestMessage

Element== copy the xsd element name value

<wsdl:message name=*"CreateDLAccountAndInitRequestMessage"*>

<wsdl:part element=*"v1:CreateDLAccountAndInitRequest"* name=*"parameters"* />

</wsdl:message>

Step4:-

Next we have to declare portType

🡪 In wsdl:operation name it a flow name

🡪 In wsdl:input message=

value we have to add tns :+ xsd element +message

Ex:-

Xsd :- CreateDLAccountAndInitRequest

Wsdl :-tns:CreateDLAccountAndInitRequestMessage

Name=copy the xsd element name value

Need to conform:-xxxx3

🡪<wsdl:portType name=*"DeductibleLedgerPortType"*> what we have to mention for name

<wsdl:portType name=*"DeductibleLedgerPortType"*>

<wsdl:operation name=*"CreateDLAccount"*>

<wsdl:input message=*"tns:CreateDLAccountAndInitRequestMessage"*

name=*"CreateDLAccountAndInitRequest"* />

</wsdl:operation>

</wsdl:portType>

Step5:-

Next we have to declare a binding

\* <wsdl:binding name=*"DeductibleLedgerBinding"* type=*"tns:DeductibleLedgerPortType"*>

Name== need to conform xxxx4

Type=== [ tns:+portType Name ]

\* <soap:binding style=*"document"* transport=*"http://schemas.xmlsoap.org/soap/****http"* />**

(no changes it automatically generated )

\* <wsdl:operation name=*"CreateDLAccount"*>

Name ===need to conform xxxx5

\* <soap:operation

soapAction*="http://services.mig.com/wsdl/deductible-ledger/v1/CreateDLAccount"*

style*="document"* />

soapAction= cody the element value and change the schema to wsdl and add /flowname

ex:-

xsd:- <http://services.mig.com/schema/deductible-ledger/v1>

WSDL:-[*http://services.mig.com/wsdl/deductible-ledger/v1/CreateDLAccount*](http://services.mig.com/wsdl/deductible-ledger/v1/CreateDLAccount)

\* <wsdl:input name*="CreateDLAccountAndInitRequest">*

<soap:body use*="literal"* />

</wsdl:input>

Name= copy the xsd element name value

<wsdl:binding name=*"DeductibleLedgerBinding"* type=*"tns:DeductibleLedgerPortType"*>

<soap:binding style=*"document"* transport=*"http://schemas.xmlsoap.org/soap/http"* />

<wsdl:operation name=*"CreateDLAccount"*>

<soap:operation

soapAction=*"http://services.mig.com/wsdl/deductible-ledger/v1/CreateDLAccount"*

style=*"document"* />

<wsdl:input name=*"CreateDLAccountAndInitRequest"*>

<soap:body use=*"literal"* />

</wsdl:input>

</wsdl:operation>

</wsdl:binding>

Step6:-

Next we have to declare the service

\*.<wsdl:service name=*"DeductibleLedgerService"* >

Name= =need to conform xxxx6

\*.<wsdl:port binding=*"tns:DeductibleLedgerBinding"* name=*"DeductibleLedgerPort"*>

Binding== [tns:+wsdl:binding name]

Name ====need to check

\*.<soap:address location=*"http://placeholderUrl/"* />

Location ==auto generated

<wsdl:service name=*"DeductibleLedgerService"*>

<wsdl:port binding=*"tns:DeductibleLedgerBinding"* name=*"DeductibleLedgerPort"*>

<soap:address location=*"http://placeholderUrl/"* />

</wsdl:port>

</wsdl:service>

Wsdl:-

<?xml version="1.0" encoding="UTF-8"?>

<wsdl:definitions name="DeductibleLedgerService"

targetNamespace="http://services.mig.com/wsdl/deductible-ledger/v1"

xmlns:tns="http://services.mig.com/wsdl/deductible-ledger/v1"

xmlns:v1="http://services.mig.com/schema/deductible-ledger/v1"

xmlns:ert="http://services.mig.com/ErrorTypes" xmlns:hdr="http://services.mig.com/common/header"

xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"

xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<wsdl:types>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:import namespace="http://services.mig.com/schema/deductible-ledger/v1"

schemaLocation="sample.xsd" />

</xs:schema>

</wsdl:types>

<wsdl:message name="CreateDLAccountAndInitRequestMessage">

<wsdl:part element="v1:CreateDLAccountAndInitRequest" name="parameters" />

</wsdl:message>

<wsdl:portType name="DeductibleLedgerPortType">

<wsdl:operation name="CreateDLAccount">

<wsdl:input message="tns:CreateDLAccountAndInitRequestMessage" name="CreateDLAccountAndInitRequest" />

</wsdl:operation>

</wsdl:portType>

<wsdl:binding name="DeductibleLedgerBinding" type="tns:DeductibleLedgerPortType">

<soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http" />

<wsdl:operation name="CreateDLAccount">

<soap:operation

soapAction="http://services.mig.com/wsdl/deductible-ledger/v1/CreateDLAccount" style="document" />

<wsdl:input name="CreateDLAccountAndInitRequest">

<soap:body use="literal" />

</wsdl:input>

</wsdl:operation>

</wsdl:binding>

<wsdl:service name="DeductibleLedgerService">

<wsdl:port binding="tns:DeductibleLedgerBinding" name="DeductibleLedgerPort">

<soap:address location="http://placeholderUrl/" />

</wsdl:port>

</wsdl:service>

</wsdl:definitions>