SoapUI- Tool to test both Soap and Rest webservices.

TestSuite- Has set of TestCases

TestSteps in TestCase:

1. SoapRequest – which is used to create request for given webservice and get the response

2. JDBCRequest- To test DB w.r.to changes as per webservice functionality.

Eg- TestStep1-creates customer in db, we can verify using JDBC test step.

3.Properties and propertyTransfer

Properties- is to declare and load properties

Property transfer- to transfer properties from step to other step.

Useful to load request properties from external file.

Also if we have dependent webservices- O/p of one webservice is in/pp to other webservice.

Eg- 1.User should login to application- sessionId is created in response

2.User should track orderNumber –

What/How to test in webservices-Soap or Rest – both:

FunctionalityTesting: SoapUI tool or programitically

Statuscode,statusmessage

HeaderInformation- content type,contentlength

ActualResponse- element is present or not, count of data,

Order of data, element value, mandatory parameters

Set request with differnet combinations -Valid and invalid input data, boundary conditions.

EndPointTesting:

<http://qa.cdyne.com/ip2geo/ip2geo.asmx?wsdl>

<http://dev.cdyne.com/ip2geo/ip2geo.asmx?wsdl>

<http://ws1.cdyne.com/ip2geo/ip2geo.asmx?wsdl>

<http://ws2.cdyne.com/ip2geo/ip2geo.asmx?wsdl>

LoadTesting – SoapUI, Jmeter

SecurityTesting – SoapUI, programatically