

A Step-By-Step Guide on How to Test Web Service



Applies to:

SAP Exchange Infrastructure (XI) 3.0 / Process Integration (PI) 7.0

This document is for all XI aspirants who want to create File to File using Java Mapping scenario. Hence, it applies to **Intermediate** XI developers.

For more information, visit the [Web Services homepage](#).

Summary

A “Client” or a “Consumer” sends a web service request (a SOAP object) based on WSDL published by the provider. The provider responds with a SOAP response.

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Part 1

Scenario

A “Client” or a “Consumer” sends a web service request (a SOAP object) based on WSDL published by the provider. The provider responds with a SOAP response. The Load runner part is described in Part II.

Pre-Requirement

Knowledge Requirements

- Basic knowledge of XI and how it works.
- Basic knowledge of Java, Web Service.

System requirement

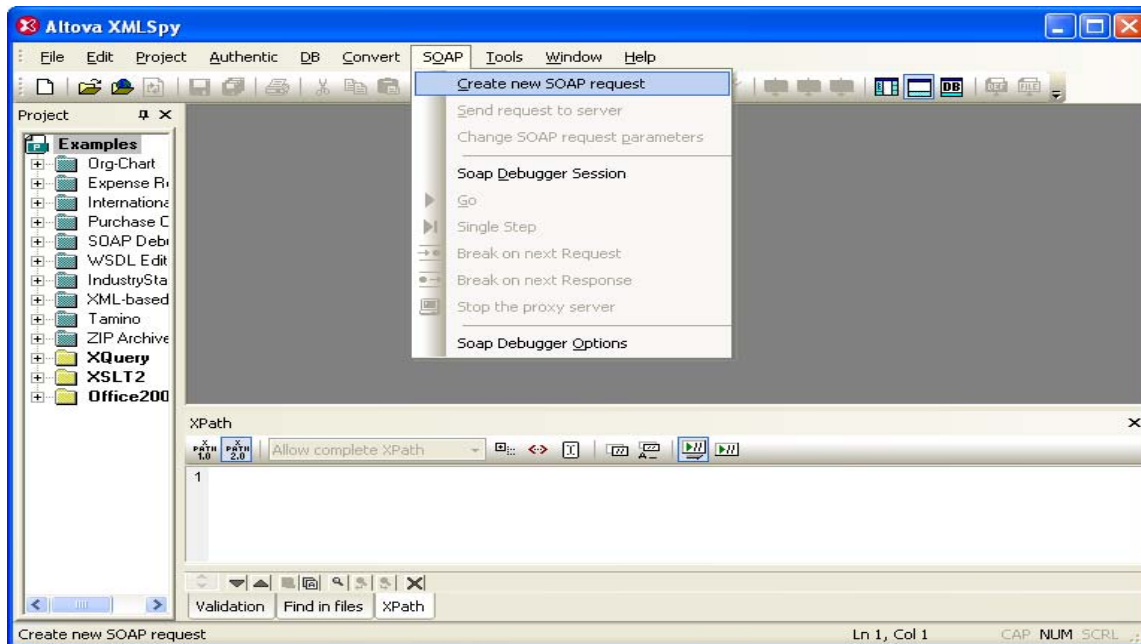
Download XMLSpy and HP LoadRunner from the following links

<http://www.altova.com/download.html>

<http://download.mercury.com/cgi-bin/portal/download/loginForm.jsp?id=234>

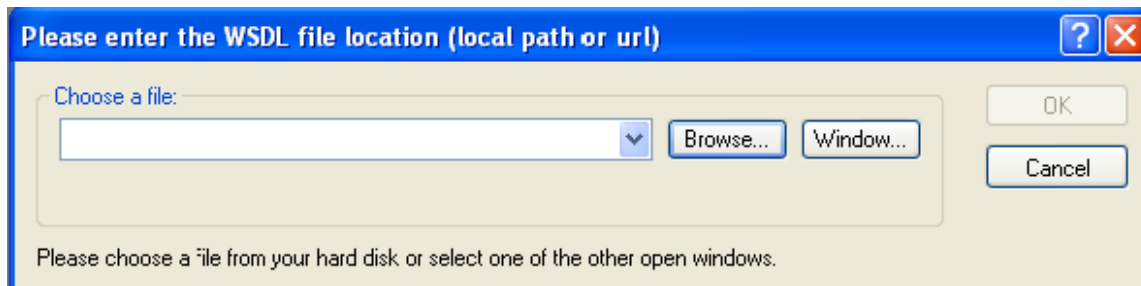
How to Generate request SOAP Message Using XMLspy (Enterprise Edition version 2007):

1. Create WSDL file from Integration Directory, and save in the local directory.
2. Open Altova XMLSpy



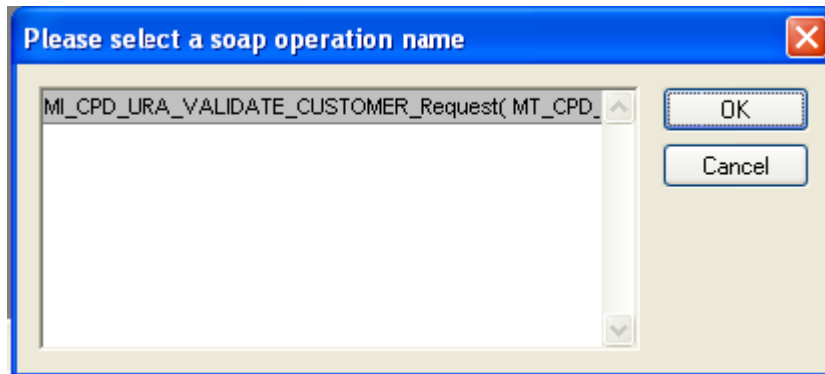
Picture – 1

3. Click SOAP link.
4. Click Create new SOAP request.



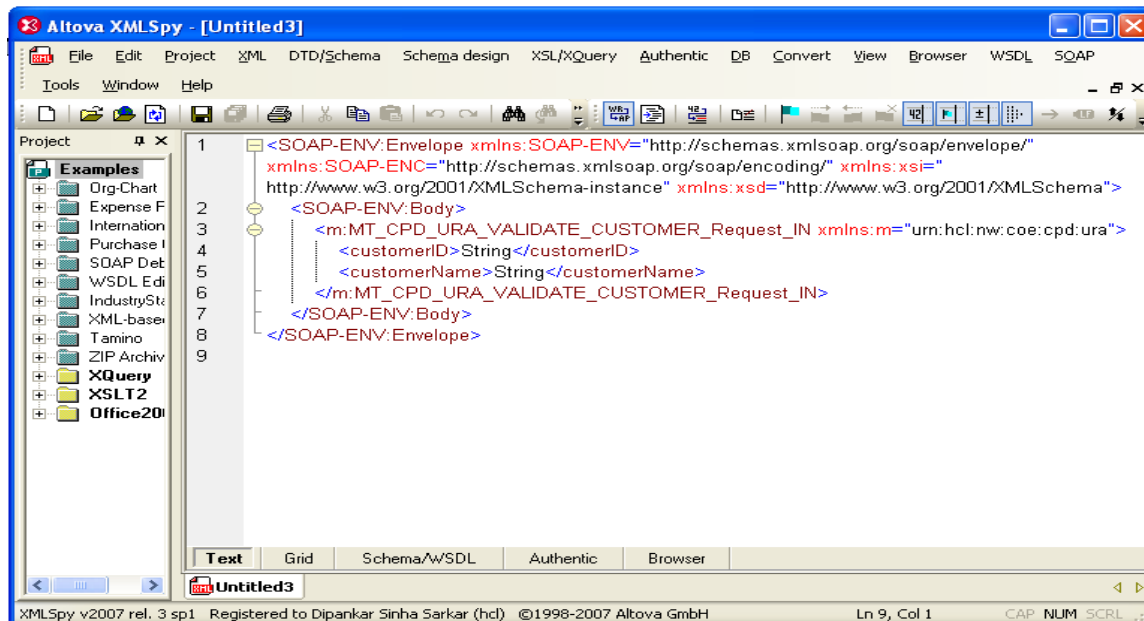
Picture - 2

5. Browse the saved WSDL file from the local directory.
(e.g. MI_CPD_URA_VALIDATE_CUSTOMER_Request.wsdl)
6. Click OK button.



Picture - 3

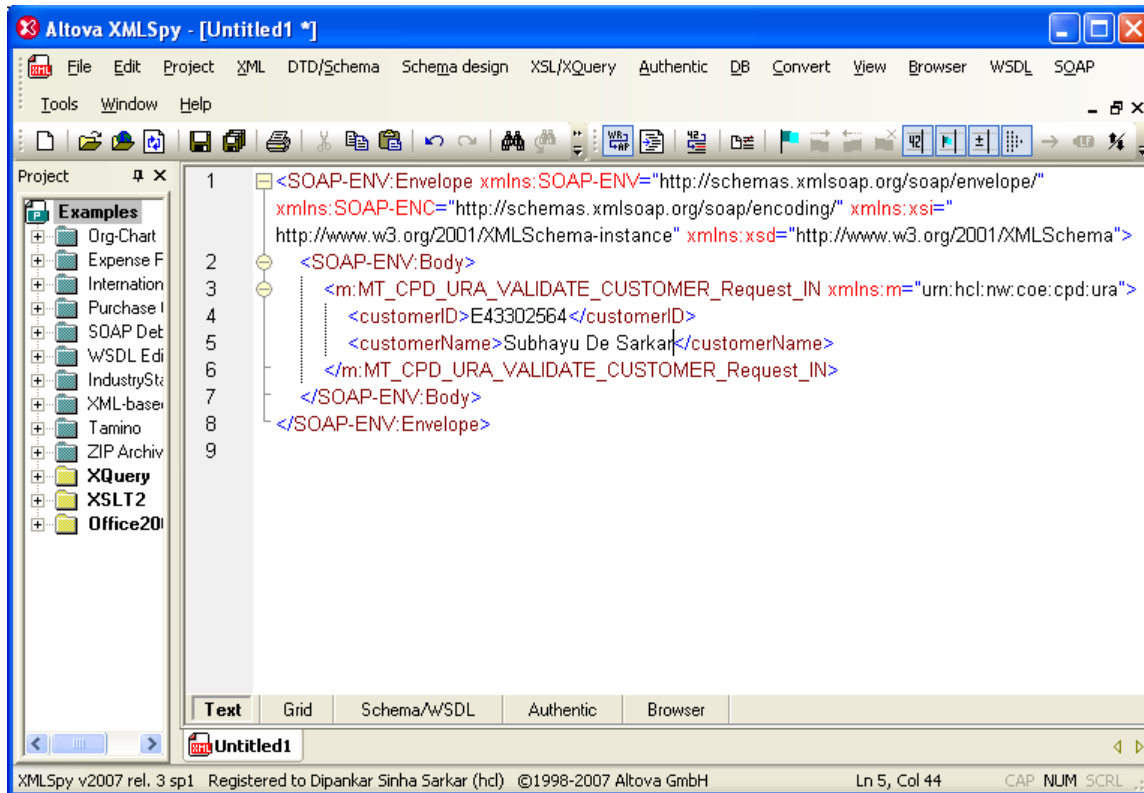
7. Click OK button.



Picture - 4

8. The required request SOAP message gets generated.

9. Modify the generated request SOAP message with valid input.

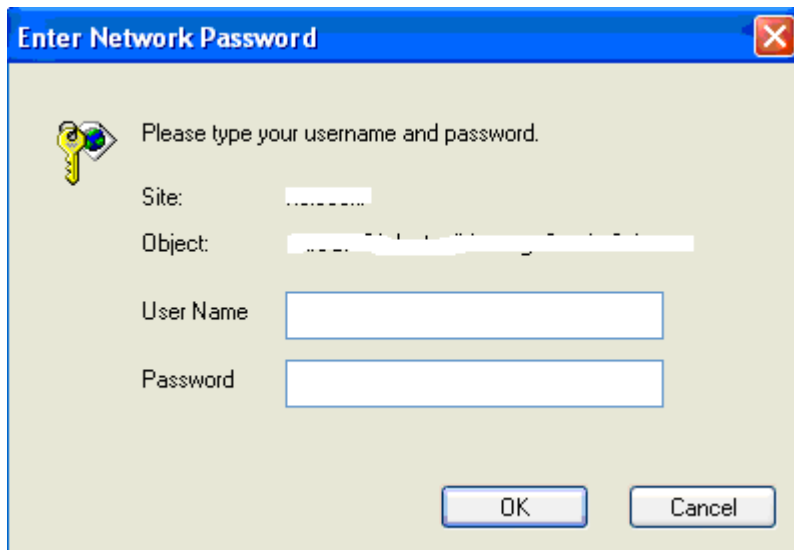


Picture - 5

10. To test the request SOAP message click SOAP link again.

SOAP → Send request to server

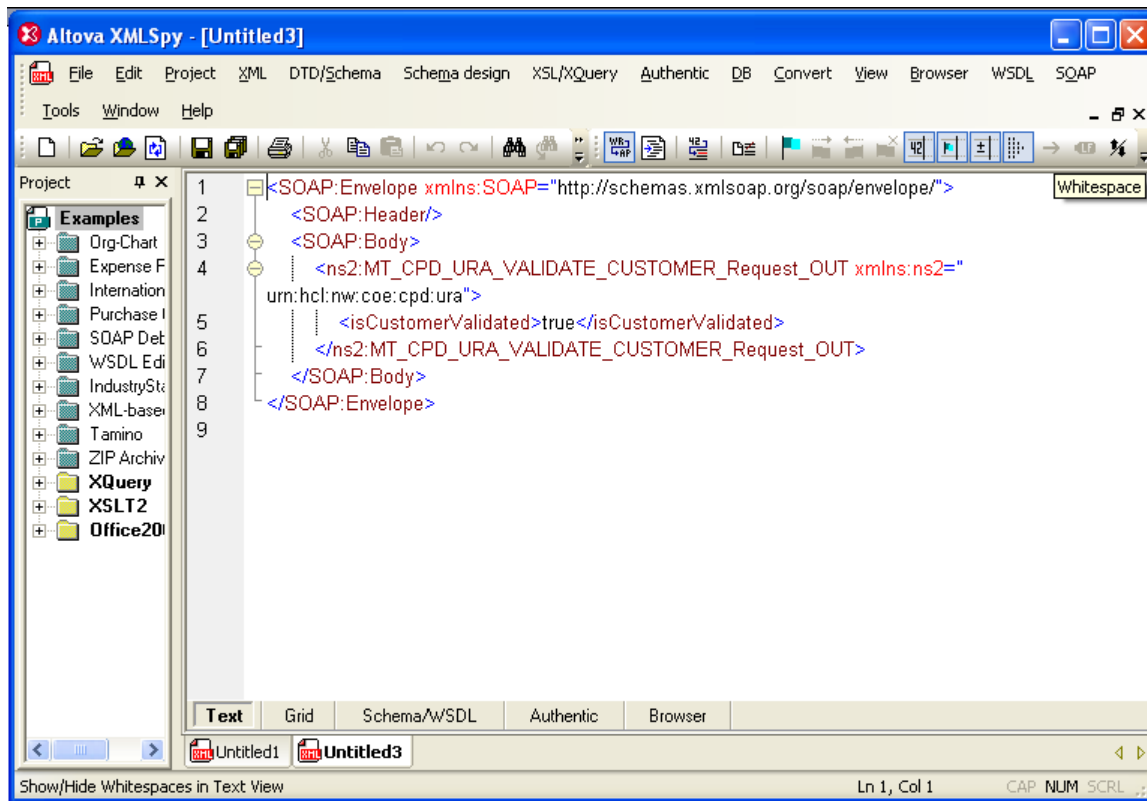
The following screen appeared.



Picture - 6

11. Enter required Username and password.

Click OK button.



Picture - 7

12. The response SOAP message gets generated.

13. Save the request SOAP message in the local directory with .xml extension.

Part 2

Scenario

A “Client” or a “Consumer” sends a web service request (a SOAP object) based on WSDL published by the provider. The provider responds with a SOAP response. Please check the part I.

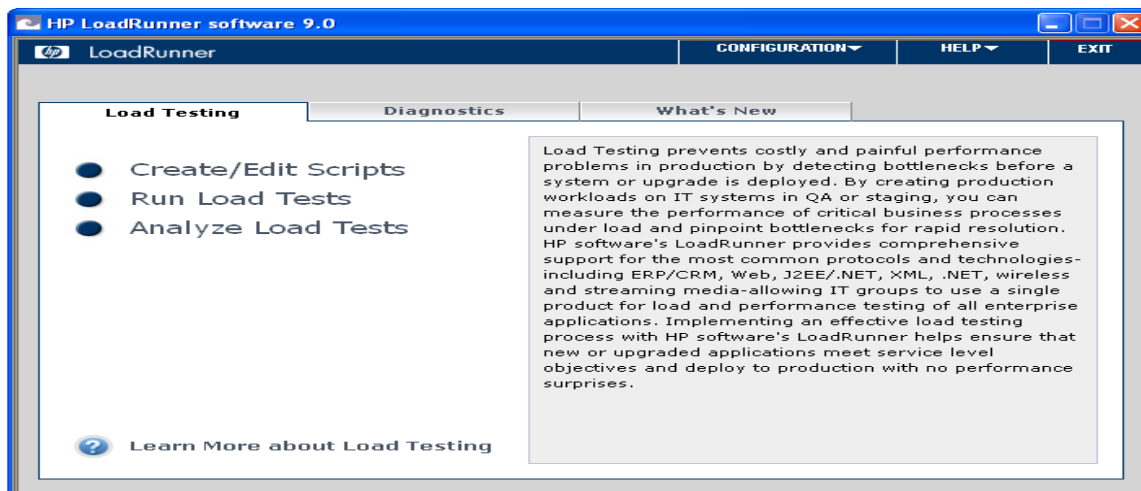
Pre-Requisite:

Knowledge Requirements:

- Basic knowledge of XI and how it works.
- Basic knowledge of Java, Web Service.

How to do Load Testing using Load Runner (HP LoadRunner Software 9.0):

1. Open loadRunner.



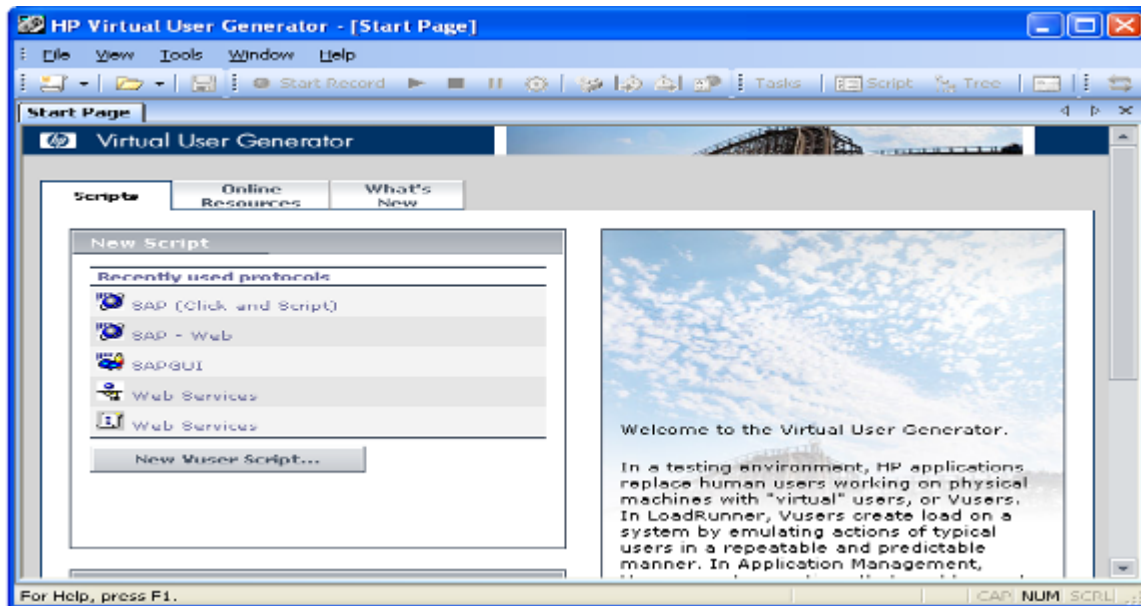
Picture - 8

2. Click Create/Edit Scripts link. The following screen appears. With the help of this link one can generate Virtual User.

About VuGen

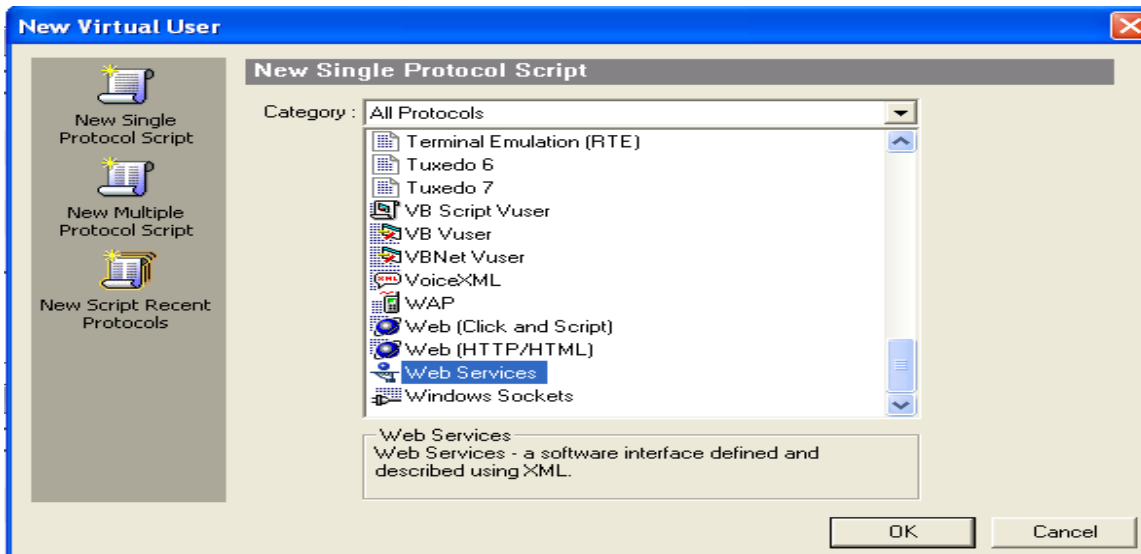
The Virtual User Generator, also known as VuGen, is the primary tool for developing Vuser scripts.

VuGen not only records Vuser scripts, but also runs them. Running scripts from VuGen is useful for debugging. It enables you to emulate how a Vuser script will run when executed as part of a larger test.



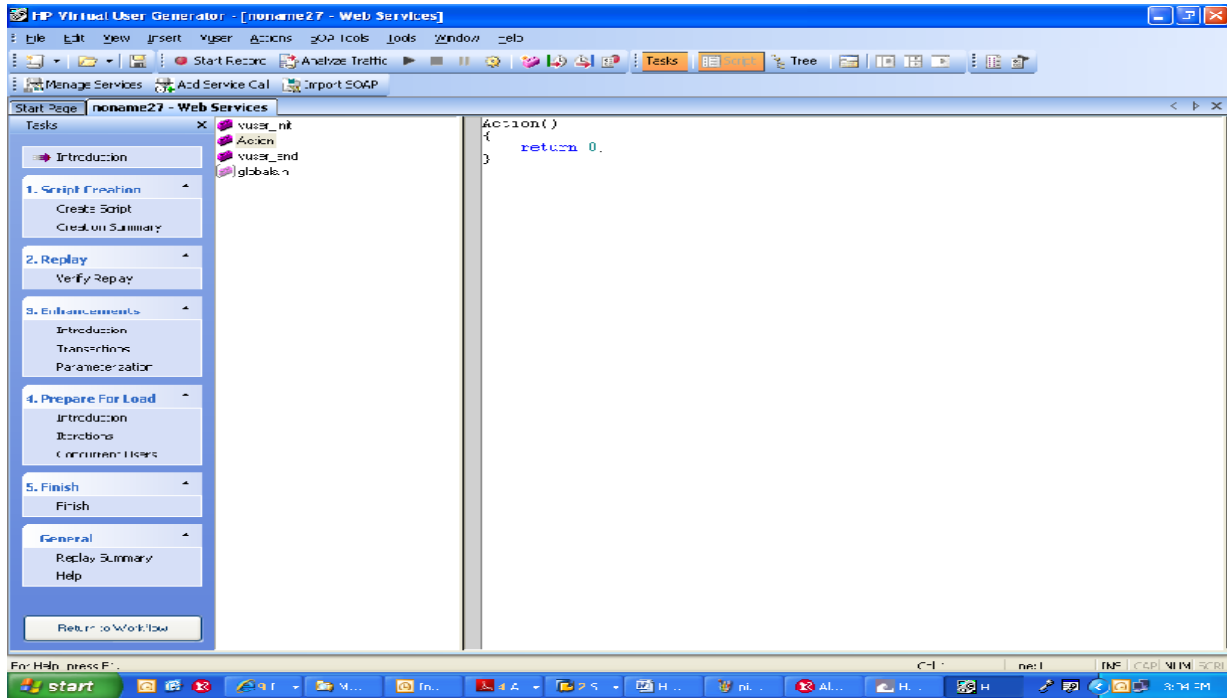
Picture - 9

3. Click New Vuser(Virtual User) Script.



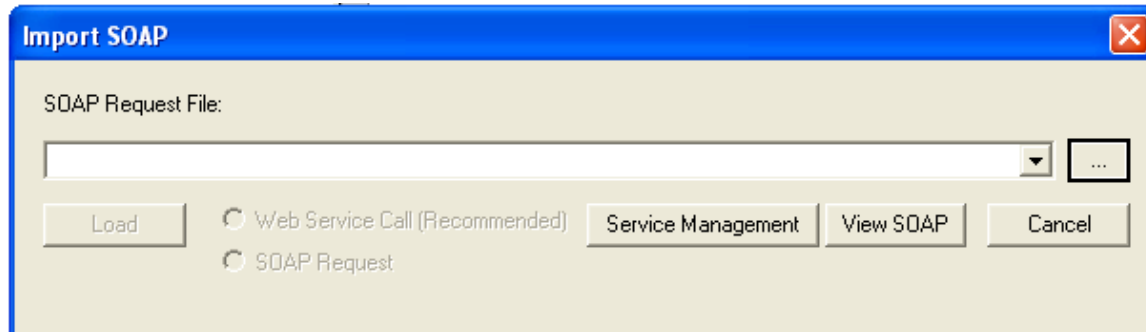
Picture - 10

4. Select Web Services from the Protocol Lists. Click OK button.



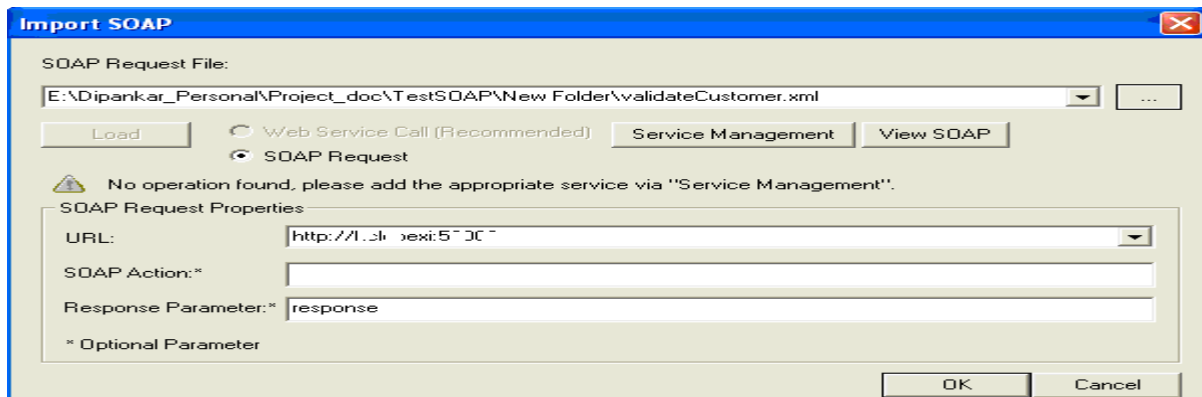
Picture - 11

5. Select Import Soap tab. The following screen appears.



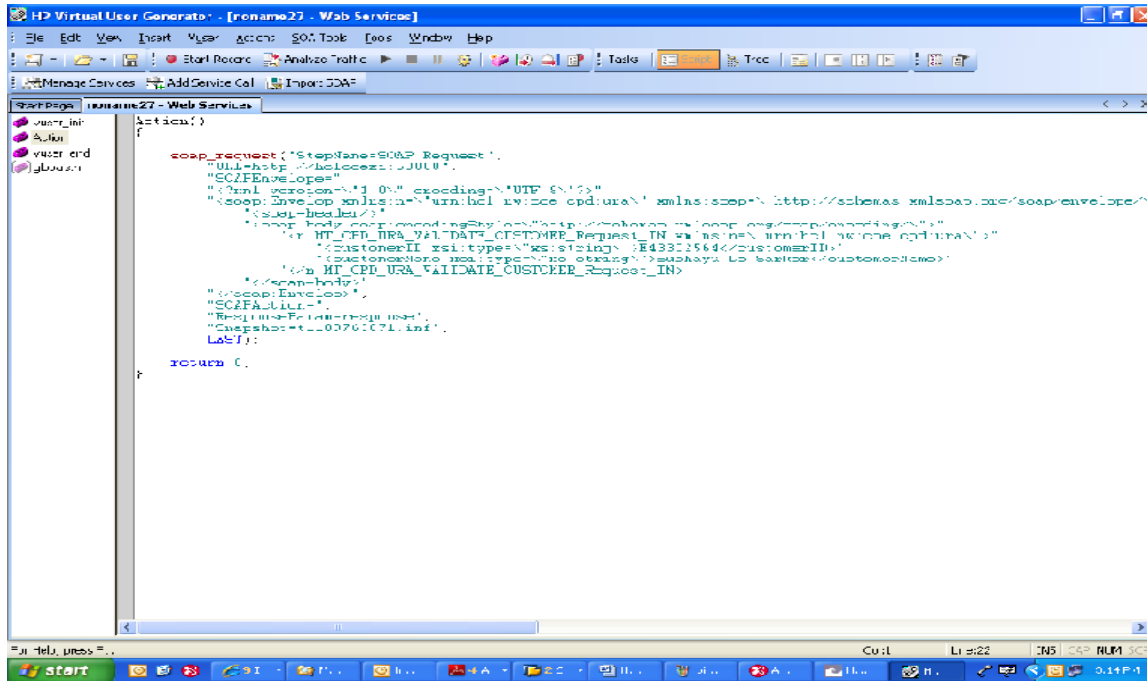
Picture - 12

6. Browse the saved request SAOP message from the local directory. The following screen appears.



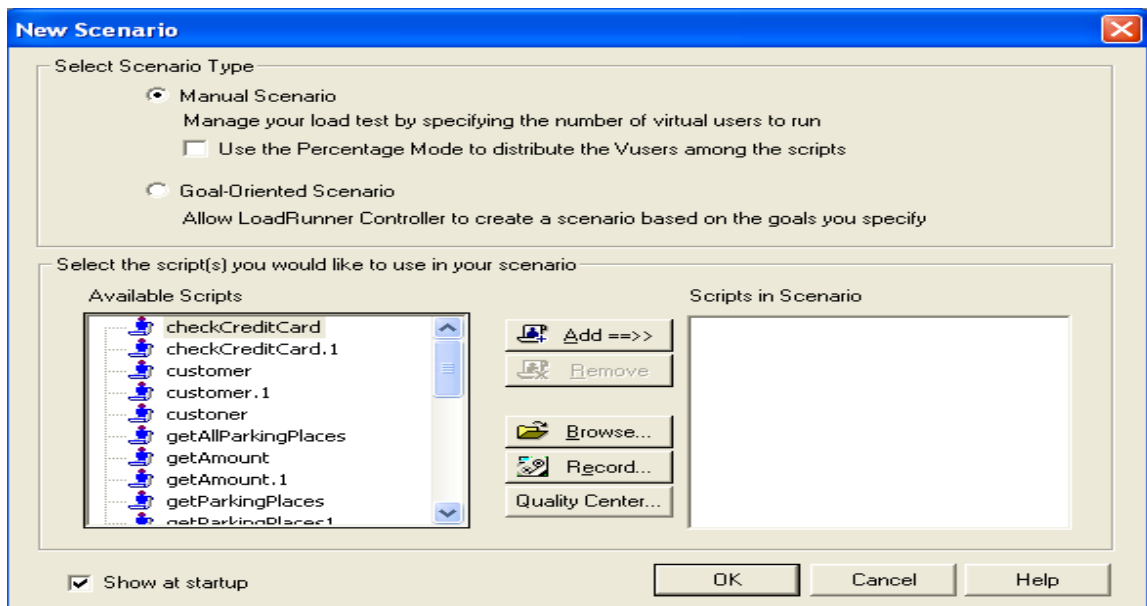
Picture - 13

7. Enter URL address (e.g. http://xxxi:50000) Click OK button. The following screen appears.



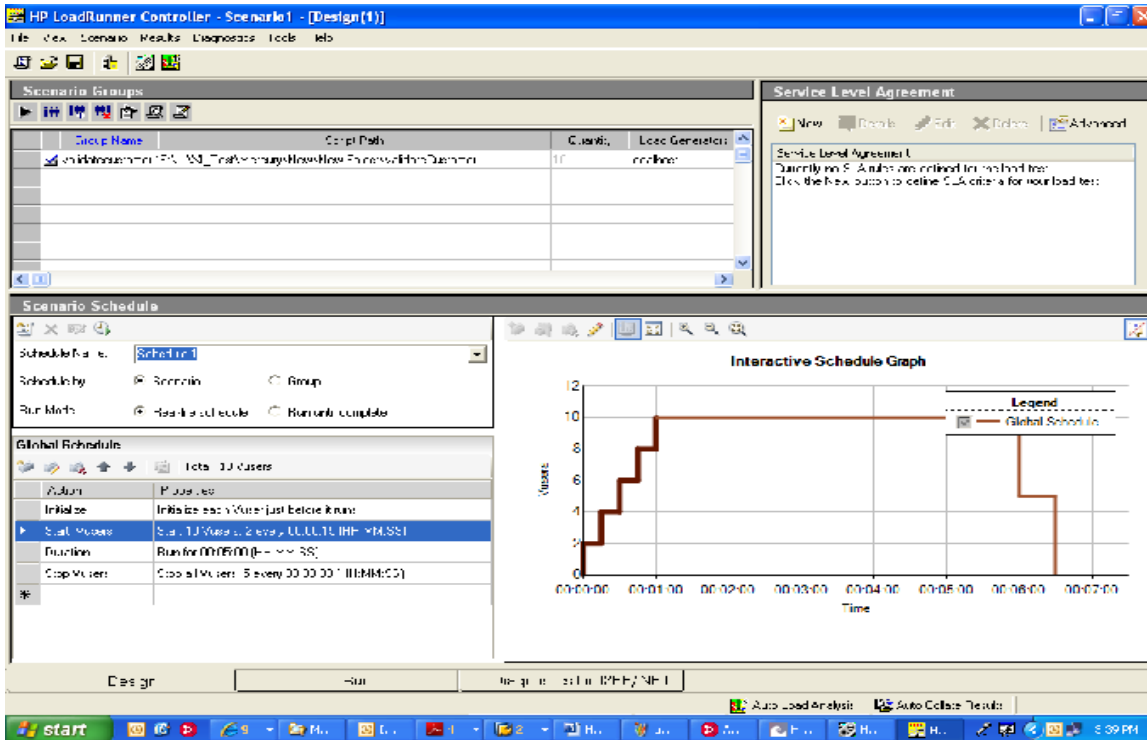
Picture – 14

8. Select Vuser from menu item. Vuser → Compile.
9. If No errors detected message gets generated in the Replay log then again go to Vuser menu. Vuser → Run.
10. If no error gets generated then save the Vuser script in the local directory.
11. Open Load run Test from the screen in Picture – 8



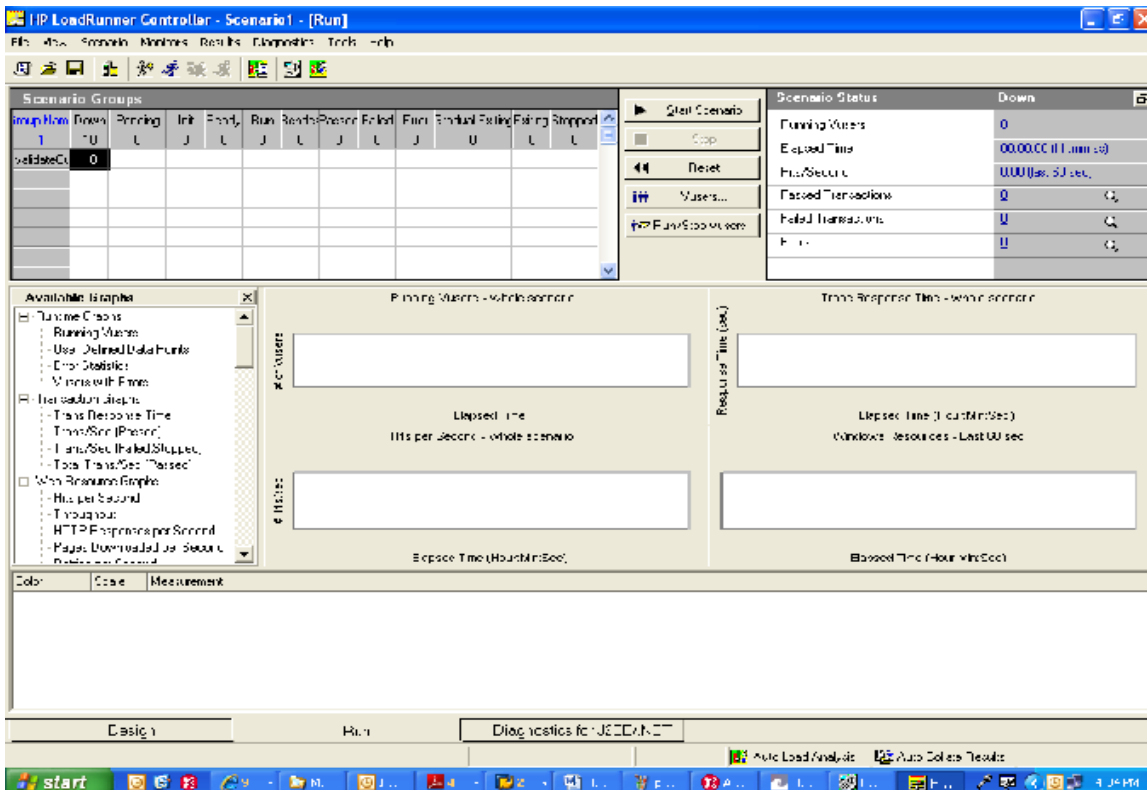
Picture - 15

12. Browse the saved Vuser script from the local directory and then click OK button.



Picture - 16

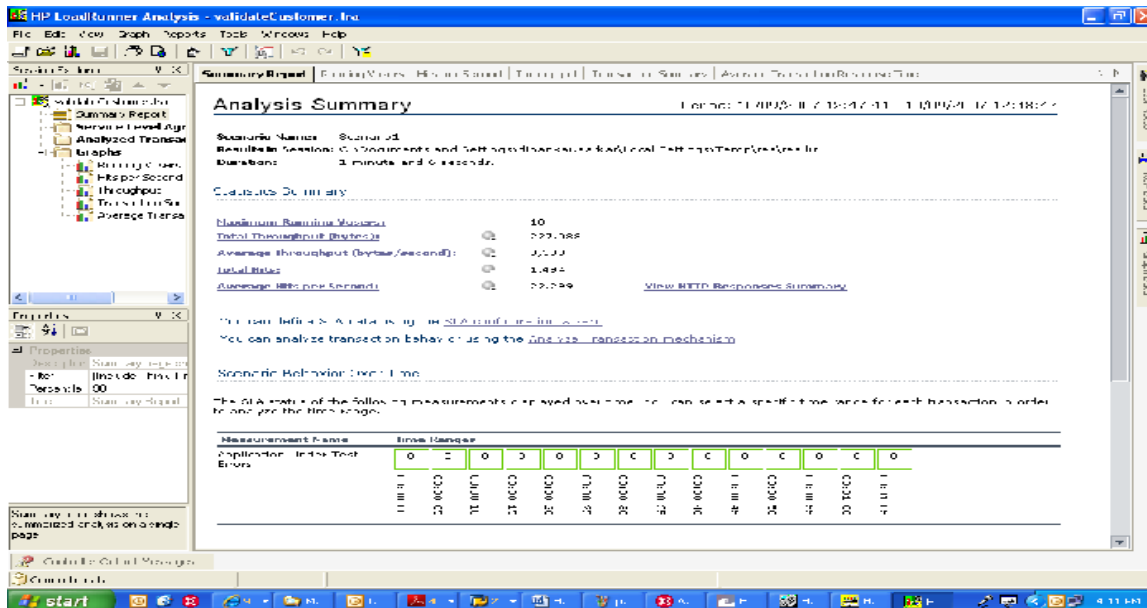
13. Select Run tab. The following screen appears.



Picture - 17

14. Click Start scenario button. The passed transaction, failed transaction, Errors can be displayed in Scenario status.

When user click Stop button automatically the LoadRunner Analyzer opens.



Picture - 18

15. Select Report menu item. Click the required report format to generate the Analysis Report.

Related Content

[File to Web Service](#)

For more information, visit the [Web Services homepage](#).

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