

Sabre[®] APIs

soapUI[®] Test Client *Using with Sabre APIs*

December 31, 2014

© 2003-2014 Sabre. All rights reserved.

This documentation is the confidential and proprietary information of Sabre Inc. Any unauthorized use, reproduction, preparation of derivative works, performance, or display of this document, or software represented by this document, without the express written permission of Sabre Inc., is strictly prohibited.

Sabre, Sabre Travel Network, Sabre Airline Solutions and Sabre APIs are trademarks and/or service marks of an affiliate of Sabre. All other trademarks, service marks, and trade names are the property of their respective owners.

Disclaimer of Warranty and Limitation of Liability

This software and any compiled programs created using this software are furnished “as is” without warranty of any kind, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. No oral or written information or advice given by Sabre, its agents or employees shall create a warranty or in any way increase the scope of this warranty and you may not rely on any such information or advice.

Sabre does not warrant, guarantee, or make any representations regarding the use, or the results of the use, of this software, compiled programs created using this software, or written materials in terms of correctness, accuracy, reliability, currentness, or otherwise. The entire risk as to the results and performance of this software and any compiled applications created using this software is assumed by you. Neither Sabre nor anyone else who has been involved in the creation, production or delivery of this software shall be liable for any direct, indirect, consequential, or incidental damages (including damages for loss of business profits, business interruption, loss of business information, and the like) arising out of the use of or inability to use such product even if Sabre has been advised of the possibility of such damages.

Sabre
3150 Sabre Drive, Southlake, TX 76092
Tel: 682 605 1000
www.sabre.com

Table of Contents

Table of Contents	3
Illustrations	3
Overview	4
Download and Setup	4
Import the <i>Sabre APIs</i> Client Test Tool Project.....	5
<i>Sabre APIs</i> Endpoints	7
Running a Test Case	7
Test Case Results	8
Test Case Properties.....	9
Cloning a Test Case	10
Help and Support	10

Illustrations

Figure 1 - Import Client Test Tool Project	5
Figure 2 - Project Custom Properties.....	6
Figure 3 - Sample Air Workflow Test Case	7
Figure 6 - <i>Sabre APIs</i> RQ and RS Messages.....	8
Figure 4 – Sample Air Workflow Test Properties	9
Figure 5 - Cloning a Test Case	10

Overview

This document is a guide for using soapUI® with *Sabre APIs*. soapUI is an open source Web services tool which can be downloaded from <http://www.soapui.org>. (A supported version, soapUI Pro, is also available.) soapUI uses an editor-like interface and acts as a SOAP client, allowing you to invoke SOAP-based *Sabre APIs*. soapUI is easy to learn and use and is available at no cost. At the time of this writing soapUI 4.6.4 is the current version.

soapUI is a product of SmartBear Software (100 Cummings Center, Suite 234N, Beverly, MA 01915, 978-236-7900, SmartBear.com) and is not endorsed or supported by Sabre Inc. For more information or for help learning soapUI or soapUI Pro please visit: <http://www.soapui.org>.

This document is not intended as a comprehensive tutorial on the soapUI test tool or Sabre APIs. The Sabre APIs Client Test Tool project file for soapUI is provided as-is with no warranties expressed or implied. It is offered without charge to assist customers new to Sabre APIs or who wish to create wire-frame models of business processes using Sabre APIs.

Download and Setup

To test *Sabre APIs* using soapUI you must first download a copy from www.soapui.org and install it on a computer attached to your production network. To execute *Sabre APIs* soapUI must be able to access the *Sabre APIs* endpoints (URL) using the same network connection as your production systems. Follow the instructions on the [soapui.com](http://www.soapui.com) website to install the software.

Once soapUI is installed and configured for your environment (see the help section of www.soapui.com for instructions) you may download and import the soapUI *Sabre APIs* Client Test Tool artifacts from the Sabre Dev Studio (<https://developer.sabre.com/>). The Sabre APIs Client Test download includes a file named *Client-Test-Tool-soapui-project.xml*. This is the soapUI Project that includes bindings for sample *Sabre APIs* and demonstration test cases. Save these files to a folder and make a note of the location.

Import the Sabre APIs Client Test Tool Project

To import the project, launch soapUI and select *File > Import Project*. Navigate to the folder in which you stored the project files and select *Client-Test-Tool-soapui-project.xml*. soapUI will display a new project named *Sabre APIs Client Test Tool*.

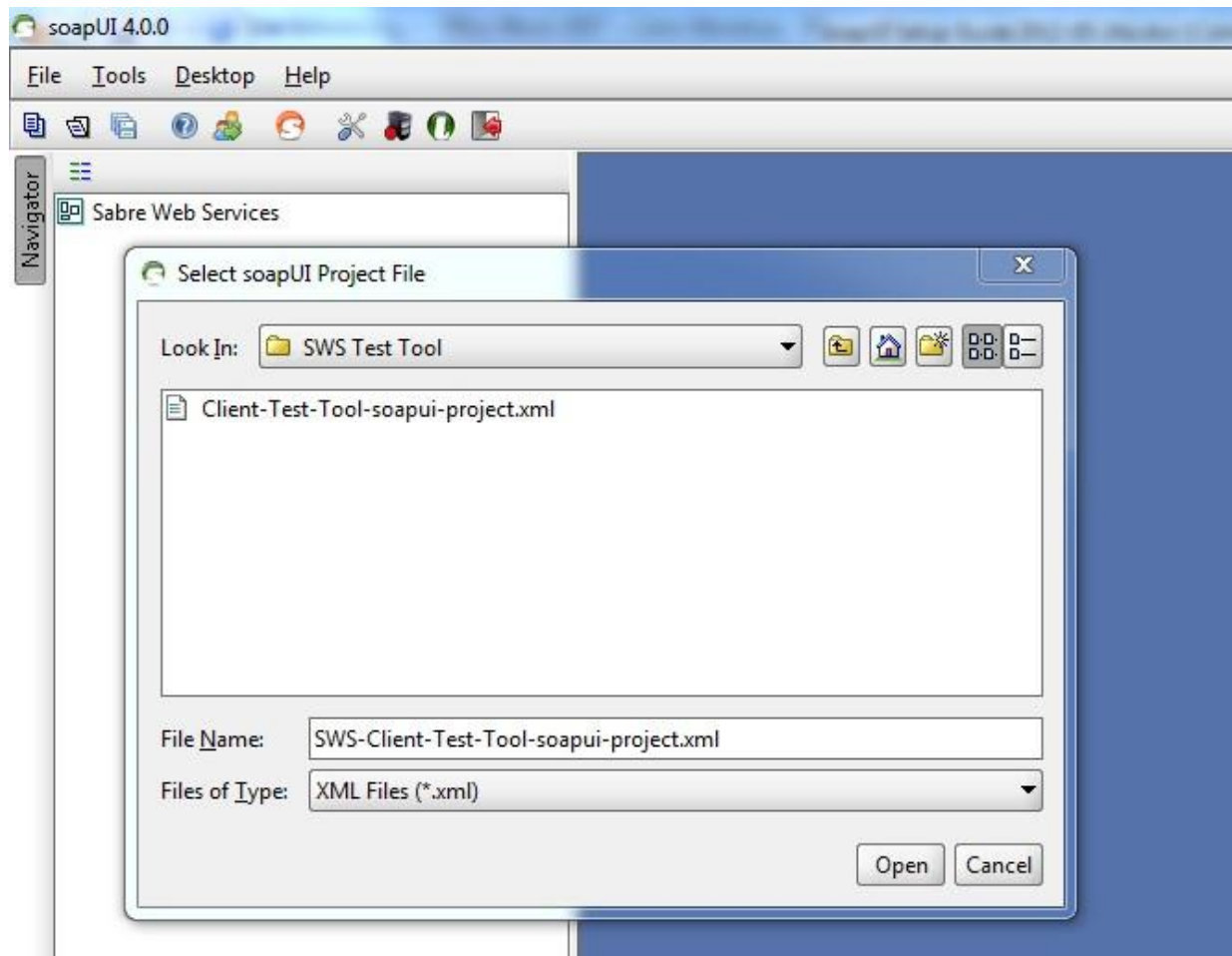


Figure 1 - Import Client Test Tool Project

To run the sample tests you will first need to add your credentials to the project's Custom Properties file. Your credentials are the *Sabre APIs* artifacts such as user name (EPR), password, and Internet Pseudo-City Code (IPCC) assigned when *Sabre APIs* was provisioned. If you do not have this information please contact your Sabre Sales Representative.

From the main screen select the *Sabre APIs Client Test Tool* project and then click the *Custom Properties* tab at the bottom of the left-hand panel. Complete the fields in this table with your *Sabre APIs* credentials.

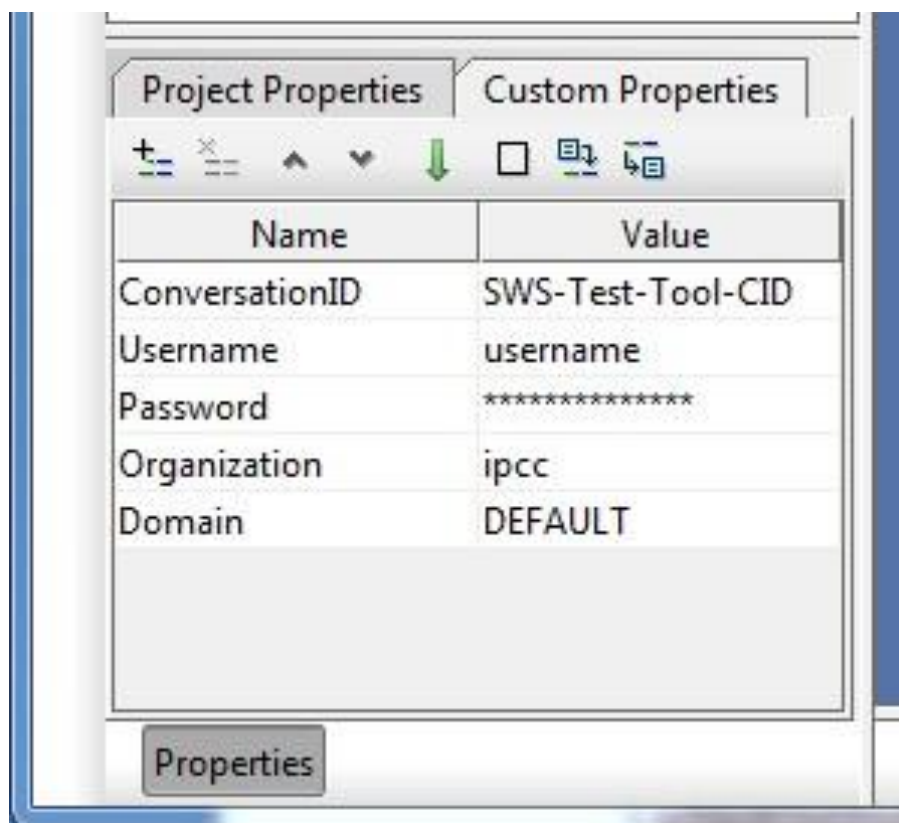


Figure 2 - Project Custom Properties

Where:

Name	Value
ConversationID	<i>A customer-supplied identifier used to identify the source of the transaction. For testing purposes you might use your name and the date of the test, e.g., SWS-Test-Bob-2012-07-25</i>
Username	<i>Your Sabre APIs User ID (Sabre APIs Credentials)</i>
Password	<i>Your Sabre APIs Password (Sabre APIs Credentials)</i>
Organization	<i>Your Internet Pseudo City Code (IPCC) for Sabre APIs</i>
Domain	<i>This designates the partition used. Leave this set to DEFAULT unless you were instructed to use a specific partition.</i>

You must supply the properties shown in **bold** above.

Your *Sabre APIs* credentials are stored as *Custom Properties* to the Project to make them available to all Test Cases and within the *Sabre APIs Client Test Tool* project.

If you would like to use a different set of *Sabre APIs* credentials for an individual Test Suite or Test Case you may create Test Properties specific to the Test Suite/Case and modify the service requests to reference the new data source. See the soapUI documentation at <http://www.soapui.org> for instructions.

Sabre APIs Endpoints

Running *Sabre APIs* calls via soapUI may be performed using standard *Sabre APIs* endpoints. These are the endpoints pre-configured in the *Sabre APIs* Client Test Tool project:

- <https://sws3-sts.cert.sabre.com> (Certification Environment)
- <https://sws3-sts.cert.sabre.com> (Sabre APIs Certification / Sabre Test Environment)
- <https://webservices3.sabre.com> (Production Sabre APIs Environment)

NOTE: The *Sabre APIs* Client Test Tool is capable of generating *Sabre APIs* service calls against the Sabre production environment which can book live inventory. Please verify the endpoint before executing a Test Case. Segments booked in the production environment when using this tool are genuine and all the standard rules apply. Standard Sabre scan charges apply to all Sabre APIs transactions executed with soapUI.

Running a Test Case

The *Sabre APIs* Client Test Tool Project is ready to use. Select the Test Suite and Test Case you wish to run, double-click the Test Steps step, and press the start icon (green triangle) to run the test.

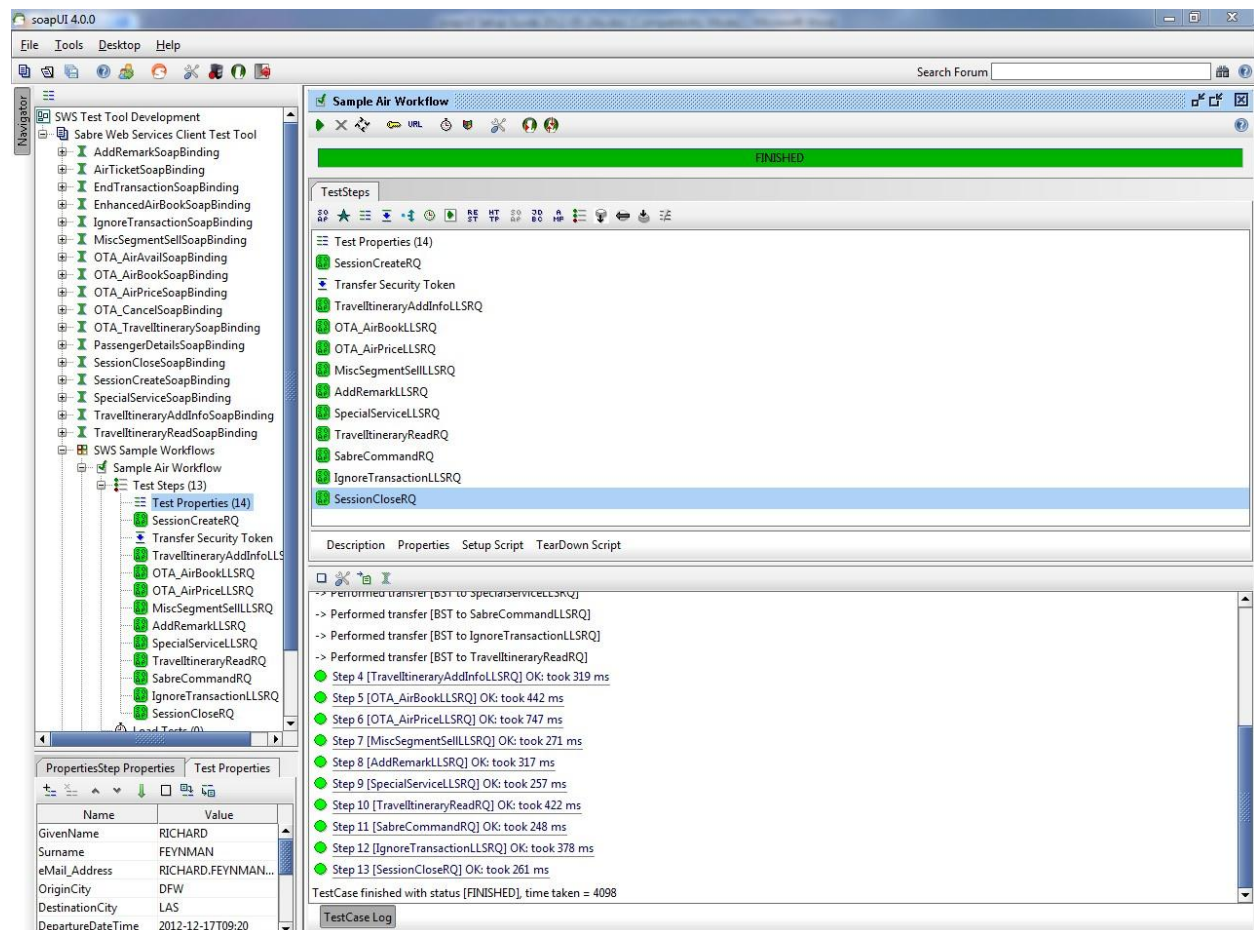


Figure 3 - Sample Air Workflow Test Case

Test Case Results

When a Test Case is run soapUI sends each request to the *Sabre APIs* endpoint selected (the certification endpoint is pre-configured) and displays the response. The editor displays the complete XML request and response so the contents of each are unambiguous.

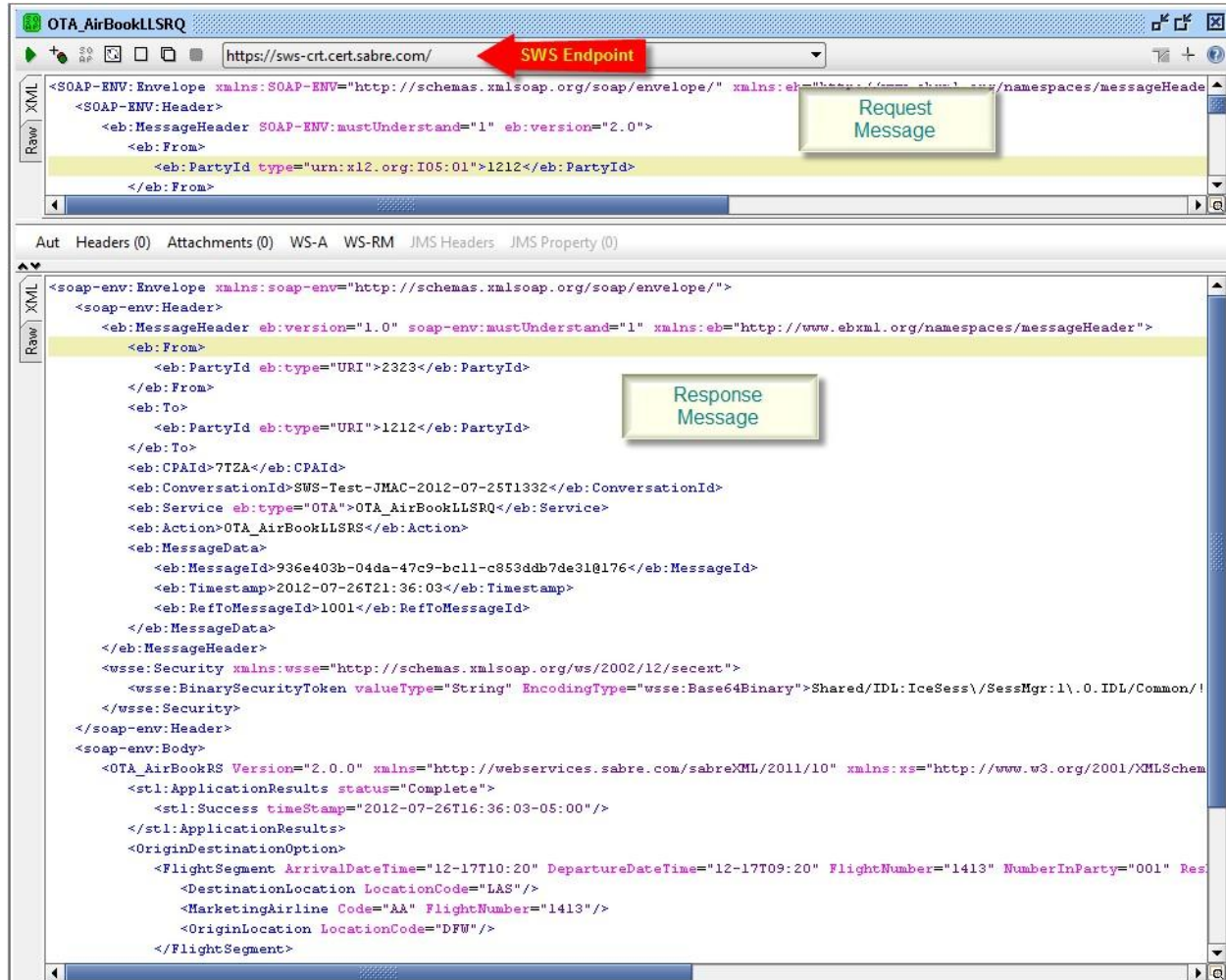
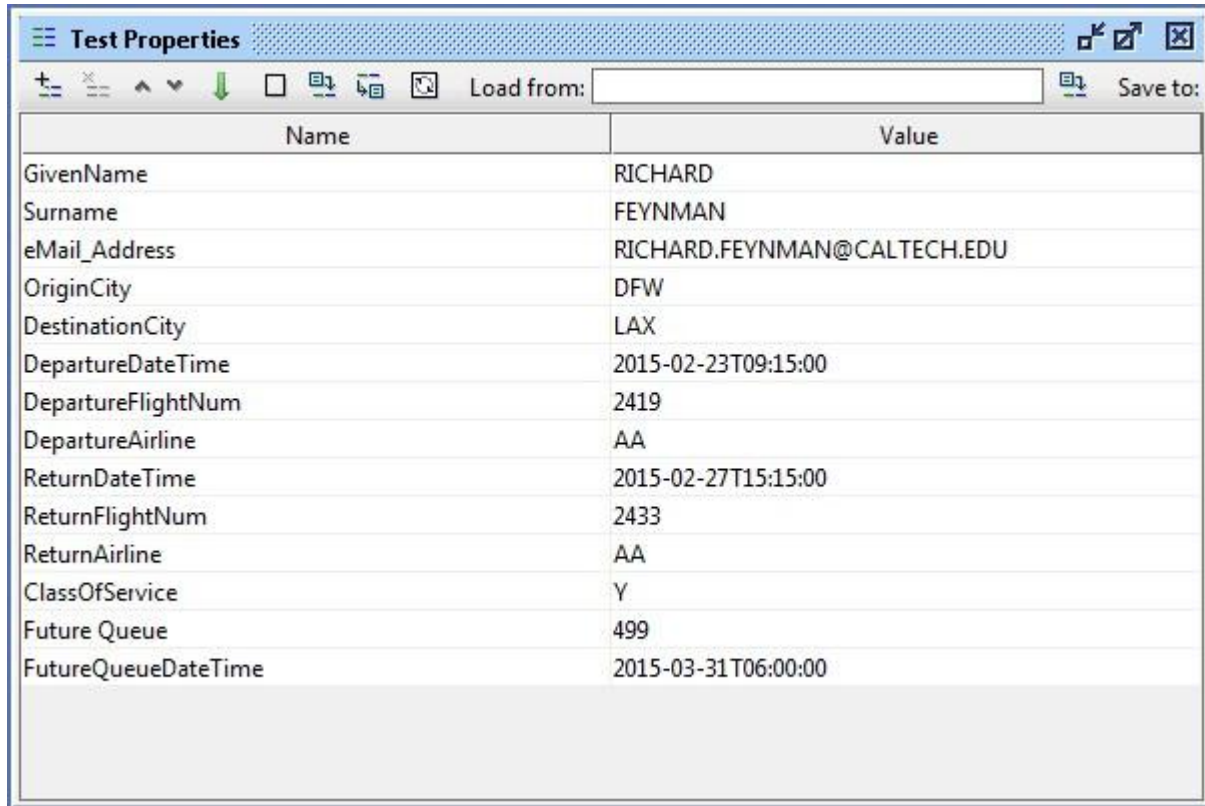


Figure 4 - Sabre APIs RQ and RS Messages

Test Case Properties

The Test Cases supplied with the *Sabre APIs Client Test Tool Project* each include a Test Properties step. This allows detail for the test case such as passenger name, airline, flight number, etc., to be entered in a single location and used by one or more services in the Test Case. Below is an example of Test Properties from the Sample Air Workflows Test Case.



Name	Value
GivenName	RICHARD
Surname	FEYNMAN
eMail_Address	RICHARD.FEYNMAN@CALTECH.EDU
OriginCity	DFW
DestinationCity	LAX
DepartureDateTime	2015-02-23T09:15:00
DepartureFlightNum	2419
DepartureAirline	AA
ReturnDateTime	2015-02-27T15:15:00
ReturnFlightNum	2433
ReturnAirline	AA
ClassOfService	Y
Future Queue	499
FutureQueueDateTime	2015-03-31T06:00:00

Figure 5 – Sample Air Workflow Test Properties

You may replace any of the values in Test Properties to see how the service responds when the request is populated with a different data set. *(NOTE: the current version of soapUI does not request confirmation when you change a property value. Once you move the cursor out of the field the value has been updated.)*

Cloning a Test Case

A quick way to create a new test case that has all of the basic operation pre-populated is to clone an existing case. You can add new service requests or modify the existing test steps in the clone without modifying the original test case. Select the Test Case you wish to clone in the navigation panel. Right click and select Clone Test Case. Complete the fields for the new Test Case and click OK.

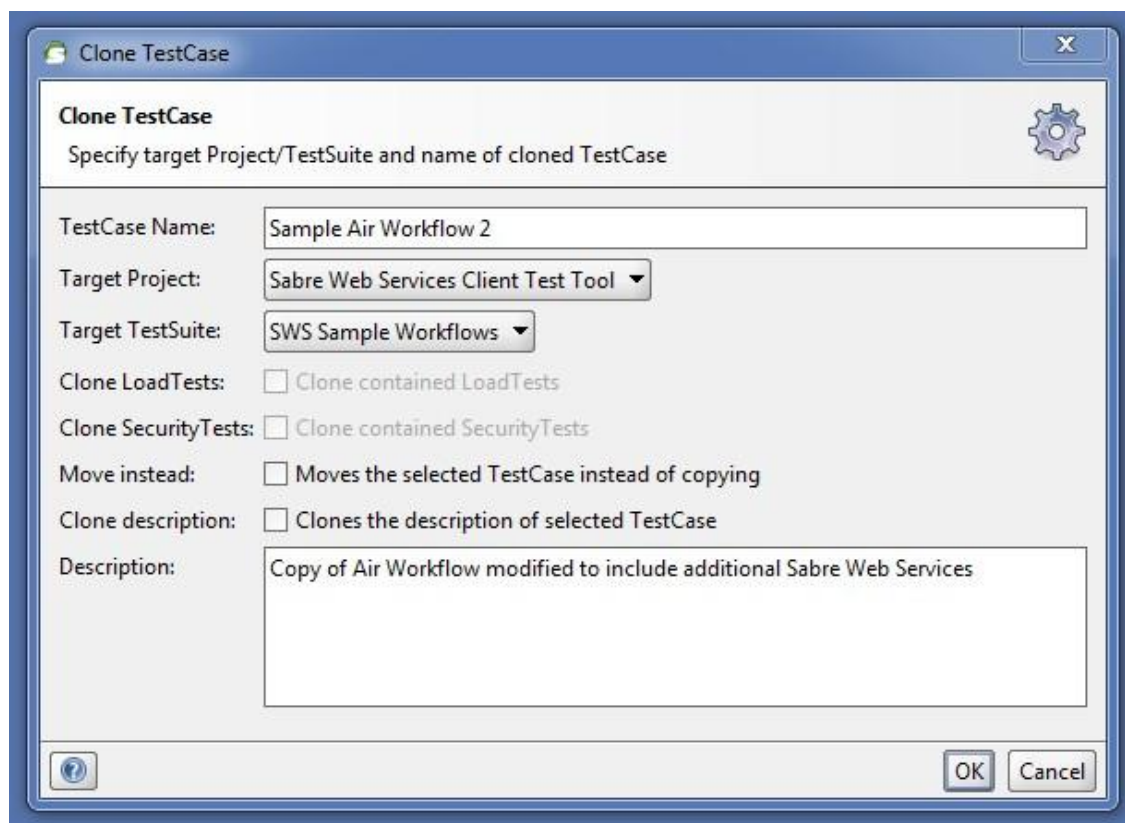


Figure 6 - Cloning a Test Case

Once you press OK the cloned Test Case is ready and can be modified as required.

Help and Support

soapUI is a powerful tool with many features beyond those described in this document or used in the *Sabre APIs Client Test Tool* sample project. It is beyond the scope of this document to fully describe all of the features or provide documentation or training in their use. For more information please consult the *Getting Started* section at: <http://www.soapUI.org>.