

# SOAP Tool

The **SOAP Tool** allows one to invoke call to webservice for integration purpose to return useful information from external sources into the process instance.

Configure SOAP Tool

Configure SOAP Tool > Store To Form > Store To Workflow Variable > Advanced

WSDL URL \*

http://www.webserviceex.net/airport.asmx?WSDL

Operation Name \*

GetAirportInformationByCountry

Username

Password

Parameters

Value

#variable.country#

SOAP Body (XML)

The XML content of <soap:Body> tag. Parameters setting is ignored when SOAP Body is used.

1

SOAP Action

SOAP Action is required when SOAP Body is used and SOAP version is 1.1

Figure 1: SOAP Tool Properties

Name	Description
WSDL URL	Webservice WSDL URL to be called.
Operation Name	Operation Name
Username	Credential - Username
Password	Credential - Password
Parameters	Values in sequence order of the operation parameters.
SOAP Body (XML)	The XML content of <soap:Body> tag. Parameters setting is ignored when SOAP Body is used.
SOAP Action	SOAP Action is required when SOAP Body is used and SOAP version is 1.1

Store To Form

Configure SOAP Tool > Store To Form > Store To Workflow Variable > Advanced

Form

Store Data

Base XML Object Name for Multirow Data

GetAirportInformationByCountryResult.NewDataSet.Table

Field Mapping

Field ID	XML Object Name	
AirportCode	GetAirportInformationByCountryRes	↑ ↓ ×
CityOrAirportName	GetAirportInformationByCountryRes	↑ ↓ ×
Country	GetAirportInformationByCountryRes	↑ ↓ ×
CountryAbbreviation	GetAirportInformationByCountryRes	↑ ↓ ×
CountryCode	GetAirportInformationByCountryRes	↑ ↓ ×
GMTOffset	GetAirportInformationByCountryRes	↑ ↓ ×

Figure 2: SOAP Tool Properties - Store to Form

Name	Description						
Form	Target form to store data.						
Base XML Object Name for Multirow Data	If returned data is intended to an array / multirow data, define the path to the array.						
Field Mapping	<table><tr><th>Name</th><th>Description</th></tr><tr><td>Field ID</td><td>Field ID correspondent to the target form.</td></tr><tr><td>XML Object Name</td><td>Path to object defined in the <b>Base XML Object Name for Multirow Data</b> above.</td></tr></table>	Name	Description	Field ID	Field ID correspondent to the target form.	XML Object Name	Path to object defined in the <b>Base XML Object Name for Multirow Data</b> above.
Name	Description						
Field ID	Field ID correspondent to the target form.						
XML Object Name	Path to object defined in the <b>Base XML Object Name for Multirow Data</b> above.						

Store To Workflow Variable

Configure SOAP Tool > Store To Form > Store To Workflow Variable > Advanced

Workflow Variable Mapping

Workflow Variable	XML Object Name
+	

Figure 3: SOAP Tool Properties - Store to Workflow Variable

Name	Description						
Workflow Variable Mapping	<table><tr><th>Name</th><th>Description</th></tr><tr><td>Workflow Variable</td><td>Workflow Variable name.</td></tr><tr><td>XML Object Name</td><td>XML Object Name path.</td></tr></table>	Name	Description	Workflow Variable	Workflow Variable name.	XML Object Name	XML Object Name path.
Name	Description						
Workflow Variable	Workflow Variable name.						
XML Object Name	XML Object Name path.						

Advanced

Configure SOAP Tool > Store To Form > Store To Workflow Variable > Advanced

Debug Mode

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Figure 4: SOAP Tool Properties - Advanced

Name	Description
Debug Mode	When checked, debug messages will be printed out in the server log for troubleshooting purpose.

Enable the Debug Mode to for troubleshooting purpose. In the server's console, one will see the returned formatted data as the following.

```
INFO 07 Jun 2013 10:54:37 SoapTool - <ns1:GetGeoIPResult xmlns:ns1="http://www.webservicex.net/"><ns1:
ReturnCode>1</ns1:ReturnCode><ns1:IP>8.8.8.8</
ns1:IP><ns1:ReturnCodeDetails>Success</ns1:ReturnCodeDetails><ns1:CountryName>United States</ns1:
CountryName><ns1:CountryCode>USA</ns1:CountryCode></n
s1:GetGeoIPResult>
INFO 07 Jun 2013 10:54:37 SoapTool - {"GetGeoIPResult":{"CountryName":"United States","ReturnCodeDetails":"
Success","ReturnCode":"1","IP":"8.8.8.8",
"CountryCode":"USA"}}
```

## Example 1

In the example above, we are making a webservice call to <http://www.webservicex.net/geolpservice.asmx>, calling the method `GetGeoIP`.

Below is a sample app to make a webservice call to <http://www.webservicex.net/airport.asmx?op=GetAirportInformationByCountry>.

[APP\\_soapToolSample-2-20131126170202.zip](#)

## Example 2

The sample app below contains a SOAP call to the operation name `GetStockQuote` from <http://www.restfulwebservices.net/wcf/StockQuoteService.svc?wsdl>.

[APP\\_webservice1-1-20161123115423.jwa](#)

When Debug Mode is enabled, the output will be similar to the following:

```
INFO 23 Nov 2016 18:51:47 SoapTool - <ns1:GetStockQuoteResult xmlns:a="http://www.restfulwebservices.net
/DataContracts/2008/01" xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns:ns1="http://www.
restfulwebservices.net/ServiceContracts/2008/01"><a:Symbol>IBM</a:Symbol><a:Last>162.67</a:Last><a:Date>11/22
/2016</a:Date><a:Time>4:01pm</a:Time><a:Change>-0.10</a:Change><a:Open>163.00</a:Open><a:High>163.00</a:High><a:
Low>161.95</a:Low><a:Volume>2770899</a:Volume><a:MktCap>154.68B</a:MktCap><a:PreviousClose>162.77</a:
PreviousClose><a:PercentageChange>-0.06%</a:PercentageChange><a:AnnRange>116.90 - 165.00</a:AnnRange><a:
Earns>12.27</a:Earns><a:PE>13.25</a:PE><a:Name>International Business Machines</a:Name></ns1:
GetStockQuoteResult>
INFO 23 Nov 2016 18:51:47 org.joget.plugin.enterprise.SoopTool - {"GetStockQuoteResult":{"High":"163.00","
Earns":"12.27","MktCap":"154.68B","Symbol":"IBM","Time":"4:01pm","Change":"-0.10","Date":"11/22/2016","
PreviousClose":"162.77","Open":"163.00","Name":"International Business Machines","Last":"162.67","Low":"
161.95","Volume":"2770899","PE":"13.25","PercentageChange":"-0.06%","AnnRange":"116.90 - 165.00"}}
INFO 23 Nov 2016 18:51:47 org.joget.workflow.shark.WorkflowAssignmentManager -
[processId=134992_webservice1_process1, processDefId=webservice1#6#process1, participantId=requester, next user=
[admin]]
```