Using SOA Gateway to access Web Services

Web services are Web based applications that use open, XML-based standards and transport protocols to exchange data with clients.

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- Accessing Web Services

Introduction

SOA Gateway can be used to access other web services. The web service driver queries the WSDL exposed by these services and creates a service to enable these to be called.

Accessing Web Services

In this example we will use the web service http://footballpool.dataaccess.eu/data/info.wso.

- In the Control Centre SOA Gateway tab, select the chosen server. Under Services select the web service driver. Right-click and select Discover Service(s) :
- Specify the Service WSDL URI and click the 'Discover' button:

Driver Options	
- Service discovery	Discover
Specify discovery source	
Service WSDL URI http://footballpool.dataaccess.eu/data/info.wso?WSDL	
_ Status	<u> </u>
1 Please specify selection parameters	
Service Discovery commencing	

• The Status section will display the progress of each stage of the web service discovery and the Service discovery section will display the following information retrieved from the service description:

tions –

ervice name	Operation	Binding	▲]
WS_Driver_AllPlayersWithYellowCards_In	AllPlayersWithYellowCards	InfoSoapBinding	< Back
WS_Driver_AllPlayersWithRedCards_Info	AllPlayersWithRedCards	InfoSoapBinding	
WS_Driver_AllCards_InfoSoapBinding	AllCards	InfoSoapBinding	1
WS_Driver_Cities_InfoSoapBinding	Cities	InfoSoapBinding	
WS_Driver_StadiumNames_InfoSoapBinding	StadiumNames	InfoSoapBinding	
WS_Driver_StadiumURL_InfoSoapBinding	StadiumURL	InfoSoapBinding	
WS_Driver_StadiumInfo_InfoSoapBinding	StadiumInfo	InfoSoapBinding	
WS_Driver_AllStadiumInfo_InfoSoapBinding	AllStadiumInfo	InfoSoapBinding	Select al
WS_Driver_FullTeamInfo_InfoSoapBinding	FullTeamInfo	InfoSoapBinding	
WS_Driver_Teams_InfoSoapBinding	Teams	InfoSoapBinding	Deselect a
WS_Driver_GroupCount_InfoSoapBinding	GroupCount	InfoSoapBinding	
WS_Driver_Groups_InfoSoapBinding	Groups	InfoSoapBinding	
WS_Driver_GroupCompetitors_InfoSoapB	GroupCompetitors	InfoSoapBinding	-
			Evit
:us			
41 operations matching criteria		3.160.11	
Commencing import from URL http://footba	ilipool.dataaccess.eu/data/info.ws	DAM2DE.	
Please specify selection parameters			
Service Discovery commencing			

- Use Select all to choose all operations or select on an individual basis. For clarity we have chosen the FullTeamInfo operation only. When chosen click the Generate button.
- The Status section will be updated with the progress of the generation process, listing the operations selected and the results for each one:

Driver Options	
Service discovery	Discoulor
	Discover
Specify discovery source	
Service WSDLURI http://footballoool.dataaccess.eu/data/info.wso2WSDL	
	Exit
i Service Discovery completed. Choose "Exit" to finish, or specify the parameters to discover more services.	
i Please specify selection parameters	
i WebService Service creation completed	
i Service "WS_Driver_FullTeamInfo_InfoSoapBinding" (v1) created and published, DataView and XSD generated	
i Parsing WSDL: http://footballpool.dataaccess.eu/data/info.wso?WSDL	
1 41 operations matching criteria	
Commencing import from URI 'http://footballpool.dataaccess.eu/data/info.wso?WSDL'	
1 Please specify selection parameters	-
Service Discovery commencing	

- The Wizard is still active and ready for further discovery, click Discover to start the process again, or Exit to dismiss the wizard.
- The generated Service(s) will be listed under the Web Service driver.
- To view the WSDL generated select 'WSDL URL is..' : which can be found in the Properties View for the service. This will open in your default browser e.g.

E http://localhost:56005/W5_Driver_FullTeamInfo_InfoSoapBinding?WSDL	🖉 🔀 🖘 🗙 🚼 Google	P -
× Google Search + + · · · · · · · · · · · · · · · · ·	🙋 Share • 🔕 • 👷 Bookmarks • 🌛 Check • 複 Translate • »	🦄 🔹 💍 Sign In 🔹
🗴 💿 - 🔽 Translate pac 💌 😰 📄 🏹	Translate Translate Define 📄 🙀 Tools	• » <u>+</u>
🖕 Favorites 🛛 👍 🙍 Netopia Router 💈 ASP.NET Web Service - Cod 🤕 Programming II	IP Sockets on 😰 Create a summary workshe 🙋 Create a summary wo	rkshe
<pre>//localhost:56005/W5_Driver_FullTeamInfo_Info</pre>	🚹 • 🔂 - 📼 🖶 • Page •	Safety + Tools + 🕢 *
<pre><?ml version="1.0" encoding="UTF-8" ?> - <definitions xmlns="http://schemas.xmlsoap.org/wsdl/" xmlns:<br="">xmlns:xs="http://www.w3.org/2001/XMLSchema" targetNamespace="uri://localhost:56005/WS_Driver_FullTear xmlns:tns="uri://localhost:56005/WS_Driver_FullTear xmlns:usag="http://www.risaris.com/namespaces/WS_Driver xmlns:wsse="http://schemas.xmlsoap.org/ws/2002/04/sec name="WS_Driver_FullTeamInfo_InfoSoapBindingRootCollect < <tpre>types> - <schema 2001="" http:="" targetnamespace="http://schemas.xmlsoap.org/w
xmlns=" www.w3.org="" xmlns:tns="</th" xmlschema"=""><th>soap="http://schemas.xmlsoap.org/wsdl/soap/" mInfo_InfoSoapBinding" InfoSoapBinding" r_FullTeamInfo_InfoSoapBinding_v1" isext" tion"> vs/2002/04/secext" ="http://schemas.xmlsoap.org/ws/2002/04/secext"</th><th>"></th></schema></tpre></definitions></pre>	soap="http://schemas.xmlsoap.org/wsdl/soap/" mInfo_InfoSoapBinding" InfoSoapBinding" r_FullTeamInfo_InfoSoapBinding_v1" isext" tion"> vs/2002/04/secext" ="http://schemas.xmlsoap.org/ws/2002/04/secext"	">

• Here we are using soapUI to demonstrate how this web service can be invoked. Open soapUI, right click on Projects and choose New soapUI Project :

🌰 soapUI 3.5			
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ت.	≡		
at	Projects		▲
Vavi	🖶 🕒 Ac	New soapUI Project	Ctrl-N
	🖶 🔁 BC	Import Project	Ctrl-I
	🖻 🔁 BC	Import Remote Project	
	😟 🖷 🔁 BC		
	🖻 🔁 BC	Save All Projects	Ctrl+Alt-S
	😟 🔁 BI	Open All Closed Projects	5
	🕀 🖳 📑	Close All Open Projects	
	🖶 🔁 Blo		
	🖶 🔁 Blo	Rename	F2
	🖶 📳 Bu	New Workspace	
	🖻 – 🗐 🕬	Switch Workspace	
	🖻 🗐 🖷	F	
	🖻 🕛 🔍	Online Help	F1

• Enter the name of the project and set the WSDL to the value copied previously :

👝 New soapUI Project 📉 🔨		
New soapUI Proj Creates a new so	apUI Project in this workspace	
Project Name:	Web Service Driver Demo	
Initial WSDL/WADL:	[WS_Driver_FullTeamInfo_InfoSoapBinding?WSDL] Browse	
Create Requests:	Create sample requests for all operations?	
Create TestSuite:	Creates a TestSuite for the imported WSDL or WADL	
Create MockService:	Creates a Web Service Simulation of the imported WSDL	
Add REST Service:	Opens dialog to create REST Service	
Relative Paths:	Stores all file paths in project relatively to project file (requires save)	
	OK Cancel	

- When the import is complete double click on the Request 1 entry to open the dialog :
 - È… 팀 Web Service Driver Demo È… I WS_Driver_FullTeamInfo_InfoSoapBindingRootSoapBinding È… ☎ soag_invoke L.... ३३ Request 1
- For this request there is no need for the <soapenv:Header> so select all of this and delete it. Set "Germany" as the content of the <sTeamName> element and issue the request by selecting the play button



• The results will be displayed as shown:

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Congratulations! You have now accessed a Web Service using SOA Gateway!