



Informatica® Cloud Data Integration

Web Service Consumer Connector

October 2022

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Preface

Use *Web Service Consumer Connector* to learn how to read from or write to a web Service that supports SOAP API. Learn to create a connection, develop mappings, and run mapping tasks using Cloud Data Integration.

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CHAPTER 1

Introduction to Web Service Consumer Connector

Use Web Service Consumer Connector to connect to web service applications that support SOAP API. You can use Web Service Consumer Connector in a Web Services transformation.

You can use Web Service Consumer Connector midstream in a mapping to pass a single or multiple requests to a web service application and process the response data. You can also pass data obtained from multiple transformations in the mapping pipeline and process the data.

When you use Web Service Consumer Connector midstream in a mapping, you first create a business service for the operation that you want to perform in the web service application. You then associate the business service in a Web Services transformation midstream in a mapping to read from or write data to the web service application.

You can switch mappings to advanced mode to include transformations and functions that enable advanced functionality.

Web Service Consumer Connector assets

Create assets in Data Integration to integrate data using Web Service Consumer Connector.

When you use Web Service Consumer Connector, you can include the following Data Integration assets:

- Mapping
- Mapping task

For more information about configuring assets and transformations, see *Mappings*, *Transformations*, and *Tasks* in the Data Integration documentation.

WSDL Encoding

WSDL files include information about how to encode SOAP request and response messages. Encoding determines the format of the SOAP message body.

You can create a business service for Web Service Consumer using the following encoding styles:

- RPC/Literal

- Document/Literal

Configure a secure connection with the serverless runtime environment

You can use the serverless runtime environment with Web Services Consumer Connector to connect to Web Service Consumer service.

Before you use a serverless runtime environment with Web Services Consumer Connector, complete the following prerequisite tasks to add the WSDL file to the serverless runtime location:

1. Create the following structure for the serverless agent configuration in AWS: <Supplementary file location>/serverless_agent_config
2. Add the WSDL files in the Amazon S3 bucket in the following location in your AWS account: <Supplementary file location>/serverless_agent_config/ wsconsumer
3. Copy the following code snippet to a text editor:

```
version: 1
agent:
  dataIntegrationServer:
    autoDeploy:
      wsconsumer:
        wsdl:
          - fileCopy:
              sourcePath: wsconsumer/<WSDL_filename>.wsdl
          - fileCopy:
              sourcePath: wsconsumer/<WSDL_filename>.wsdl
```

4. Ensure that the syntax and indentations are valid, and then save the file as serverlessUserAgentConfig.yml in the following AWS location: <Supplementary file location>/serverless_agent_config
When the .yml file runs, the WSDL files are copied from the AWS location to the serverless agent directory.
5. In the Web Services Consumer connection properties, specify the following WSDL path in the serverless agent directory in the **URL** field:
/data2/home/cldagnt/SystemAgent/serverless/ configurations/wsconsumer/
<WSDL_filename>.wsdl

Note: If you added the WSDL file in the EC2 location, pass the EC2 path in the WSDL URL field.

Configure proxy settings

If your organization uses an outgoing proxy server to connect to the internet, the Secure Agent connects to Informatica Intelligent Cloud Services through the proxy server.

You can configure the Secure Agent to use the proxy server on Windows and Linux.

1. Configure the Secure Agent through the Secure Agent Manager on Windows or shell command on Linux.
2. Configure the JVM options for the DTM in the Secure Agent properties so that the agent can use the proxy server at run time.

Contact your network administrator for the correct proxy settings.

Note: You can configure an unauthenticated or authenticated proxy server through the JVM options of the Secure Agent. However, you cannot use NTLM authenticated proxy servers. In addition, you cannot use authenticated proxy servers when you configure NTLM authentication in a connection.

Configure proxy server settings on Windows

When you configure the proxy server on a Windows machine, configure the Secure Agent both through the Secure Agent Manager and the JVM options in the DTM.

Configure proxy server settings through the Secure Agent Manager

Use the Secure Agent Manager to configure the Secure Agent to use the proxy server on Windows.

1. In the Secure Agent Manager, click **Proxy**.
2. To enter proxy server settings, click **Use a proxy server**.
3. Configure the following fields:

Field	Description
Proxy Host	Required. Host name of the outgoing proxy server that the Secure Agent uses.
Proxy Port	Required. Port number of the outgoing proxy server.
User Name	Required. User name to connect to the outgoing proxy server.
Password	Required. Password to connect to the outgoing proxy server.

4. Click **OK**.
The Secure Agent Manager restarts the Secure Agent to apply the settings.

Configure proxy server settings through the JVM options

Configure the JVM options for the DTM in the Secure Agent properties to use the proxy server at run time.

1. Log in to Informatica Intelligent Cloud Services.
2. Open Administrator, and select **Runtime Environments**.
3. Select the Secure Agent for which you want to configure a proxy server.
4. On the upper-right corner of the page, click **Edit**.
5. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Server.
6. Add the following parameters in any **JVMOption** field and specify appropriate values for each parameter:
JVMOption1= -Dhttps.proxyHost=<proxy_server_hostname>
JVMOption2= -Dhttps.proxyPort=<proxy_server_portnumber>
JVMOption3= -Dhttps.proxyUser=<user name>
JVMOption4= -Dhttps.proxyPassword=<password>
7. Click **Save**.
The Data Integration Server restarts to apply the settings.

Configure proxy server settings on Linux

Configure the Secure Agent to use the proxy server on a Linux machine using both the shell command and the JVM options in the DTM.

Configure proxy server settings through the shell command

Use the shell command to configure proxy server settings for the Secure Agent on a Linux machine.

1. Navigate to the following directory:
`<Secure Agent installation directory>/apps/agentcore/`
2. Run the following command:
`./consoleAgentManager.sh configureProxy <proxy host> <proxy port> <user name> <password>`
3. Restart the Secure Agent.

Configure proxy server settings through the JVM options

Configure the JVM options of the DTM in the Secure Agent properties to use the proxy server at run time.

1. Log in to Informatica Intelligent Cloud Services.
2. Open Administrator, and select **Runtime Environments**.
3. Select the Secure Agent for which you want to configure the proxy server.
4. On the upper-right corner of the page, click **Edit**.
5. In the **System Configuration Details** section, select the **Type** as **DTM** for the Data Integration Server.
6. Add the following parameters in any **JVMOption** field and specify appropriate values for each parameter:
`JVMOption1= -Dhttps.proxyHost= <proxy_server_hostname>`
`JVMOption2= -Dhttps.proxyPort=<proxy_server_portnumber>`
`JVMOption3= -Dhttps.proxyUser=<user name>`
`JVMOption4= -Dhttps.proxyPassword=<password>`
7. Click **Save**.
The Data Integration Server restarts to apply the settings.

Reading and writing unicode characters

The Secure Agent reads and writes Unicode data using the UTF-8 code page. The Secure Agent requires that the code page environment variable is set to UTF-8.

Before you run a task to read or write unicode characters, you must set the environmental variable on the machine that runs the Secure Agent.

1. Perform the following tasks based on the Windows or Linux 64 machine where you installed the Secure Agent:
 - For Windows, create an environmental variable `INFA_CODEPAGENAME` under System Variables, and then set it to UTF-8.
 - For Linux 64, set the environmental variable `LC_ALL` to `en_US.utf8`. To set the environmental variable, run the following command from Linux 64: `setenv LC_ALL en_US.utf8`
2. Restart the Secure Agent after you set the environmental variable.

For information about reading or writing Unicode characters in Data Integration, see https://kb.informatica.com/solution/23/Pages/58/498064.aspx?myk=infa_codepagename%20utf-8

CHAPTER 2

Connections for Web Service Consumer

Create a Web Service Consumer connection to make calls to a web service application. Web Service Consumer Connector supports SOAP version 1.1 and 1.2. You can create a Web Service Consumer connection on the **Connections** page. Use the Web Service Consumer connection to read data from or write data to Web Service Consumer.

Web Service Consumer connection properties

When you configure a Web Service Consumer connection, you must configure the connection properties.

The following table describes the Web Service Consumer connection properties:

Property	Description
Connection Name	Enter a unique name for the connection.
Description	Provide a relevant description for the connection.
Type	Select Web Service Consumer from the list.
Runtime Environment	The name of the runtime environment where you want to run the tasks.
Authentication	You can configure the connection to use the following types of authentication: Username Token Use the user name token and the password to authenticate the web services. Other Authentication Use the WSDL URL and endpoint URL to authenticate the web services. NTLM Authentication Use NTLM V2 authentication to authenticate the web services.
WSDL URL	The URL provided by the web service.
Endpoint URL	Endpoint URL for the web service. The WSDL file specifies this URL in the location element.

Property	Description
Username	Applicable if you use Username Token or NTLM authentication. User name to authenticate the web service.
Password	Applicable if you use Username Token or NTLM authentication. Password to authenticate the web service.
DOMAIN NAME	Applicable if you use NTLM authentication. Name of the domain that authenticates the accounts.
Encrypt Password	Applicable if you use Username Token authentication. Enables the PasswordDigest property which combines the password with a nonce and a time stamp. The mapping task applies a SHA hash on the password, encodes it in base64 encoding, and uses the encoded password in the SOAP header.
Must Understand	Applicable if you use Username Token authentication. Specifies whether to process a header entry or not.
HTTP Username	User name to access the web service.
HTTP Password	Password to access the web service.

Creating a Web Service Consumer connection

Connect to a web service using Web Services Description Language (WSDL) and an endpoint URL. You can also enable security for the web service.

1. In Administrator, select **Connection connections**, and click **New Connection**.
2. Enter the connection details. For the **Type**, select **WSConsumer**.
If the WSConsumer connection is not in the list of connections, in Administrator, open the **Add-On Connectors** page to install the connector for your organization.
3. Enter the connection properties:
 - a. Select the runtime environment for the web service connection.
 - b. For **Authentication**, select one of the following options:
 - Select **Username Token** to enter the user name and the password to authenticate the web service. You can choose to encrypt the password by sending a digest that is derived from the password in the security token.
 - Select **Other Authentication** to enter the WSDL URL and endpoint URL to access the web service. If the web service is a private web service, enter the HTTP user name and password.
 - Select **NTLM Authentication** to enter the username, password, and domain name to access the web service.
4. Enter the authentication connection properties. The properties that appear depend on the authentication that you selected.
5. Save the connection.
Note: You cannot test the connection to verify if the connection is successful as the **Test Connection** option is disabled.

CHAPTER 3

Mapping and Mapping Tasks with Web Service Consumer Connector

Create a mapping to read or write data to the web service application. When you create a mapping, you can configure midstream transformation to transform data from a web service. The Secure Agent connects to the web service application to access, transform, or deliver data.

In advanced mode, the Mapping Designer updates the mapping canvas to include transformations and functions that enable advanced functionality.

Web Service Consumer midstream transformation in mappings

After you have defined the business service, you can configure the Web Services transformation in a mapping to access or transform data from a web service. The requirements and available options depend on whether you are connecting the Web Services transformation to one source object or to more than one source object.

Advance midstream properties

The following table describes the properties available for the Web Services transformation from the Advanced tab:

Property	Description
Cache Size for Web Service Request (KB)	Memory available for the web service request. Default is 100 KB. If the request is more than 100 KB, you can increase the cache size.
Cache Size for Web Service Response (KB)	Memory available for the web service response. If the web service response contains many rows or columns, you might want to increase the cache size. Default is 100 KB. Maximum is 99999 KB.

Property	Description
Allow Input Flush	The mapping task creates XML when it has all of the data for a group. When enabled, the mapping task flushes the XML after it receives all of the data for the root value. When not enabled, the mapping task stores the XML in memory and creates the XML after it receives data for all the groups. Note: You cannot select the option to allow input flush if you are connecting to multiple source objects.
Transaction Commit Control	Control to commit or roll back transactions based on the set of rows that pass through the transformation. Enter an IIF function to specify the conditions to determine whether the mapping task commits, rolls back, or makes no transaction changes to the row. Use the transaction commit control if you have a large amount of data and you want to control how it is processed. Note: You cannot configure a transaction commit control if you are connecting to multiple source objects.

Midstream transformation mapping example

The following example demonstrates how to use the Web Service Consumer midstream transformation to interact with NetSuite to get product availability details.

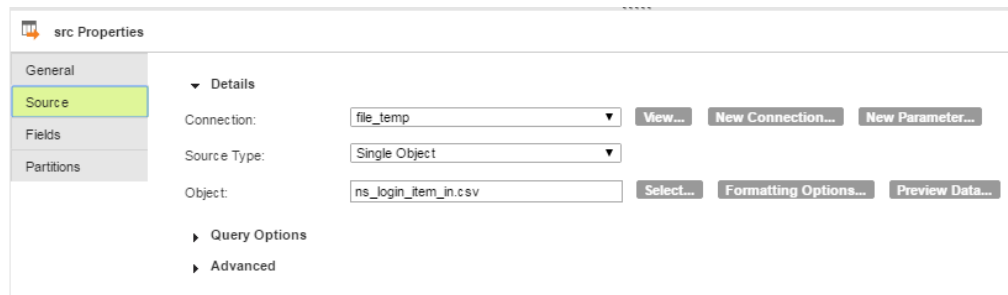
You can review this example to learn how to configure a Web Service Consumer midstream transformation to structure a SOAP request and response using the NetSuite operation, `getItemAvailability`. The midstream transformation passes the item ID in the request. The web service then returns information on the latest item availability in a SOAP response.

First, to connect to the web service, create a WSCConsumer connection. You add a WSDL that describes the request and response web service messages and configures the necessary security.

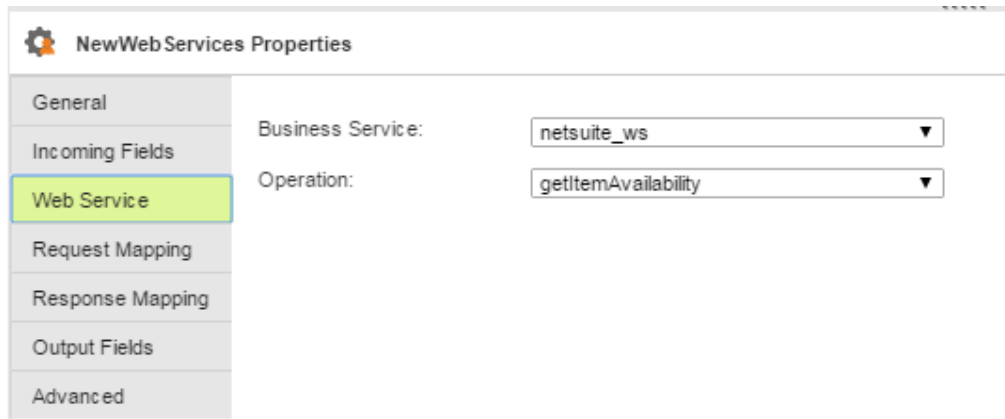
Second, define a business service using the WSCConsumer connection. Use the connection to define a business service and access the `getItemAvailability` operation:

Third, create a mapping that uses the Web Service transformation. The example mapping includes the following configuration options:

1. The source is a simple `.csv` file that includes four fields with the login details and an item ID:



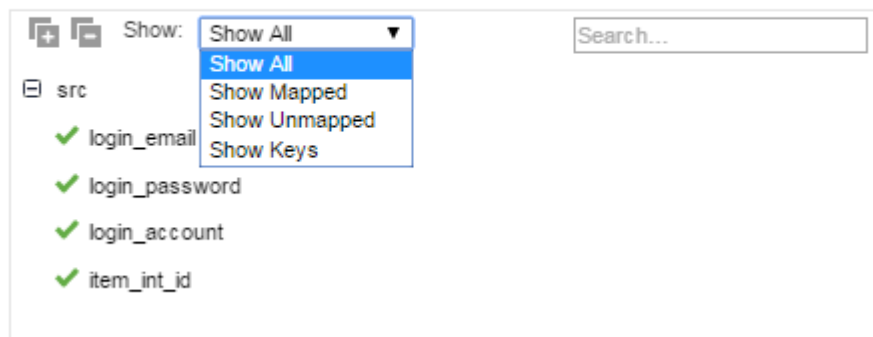
- On the Web Service tab, select the business service and operation previously defined:



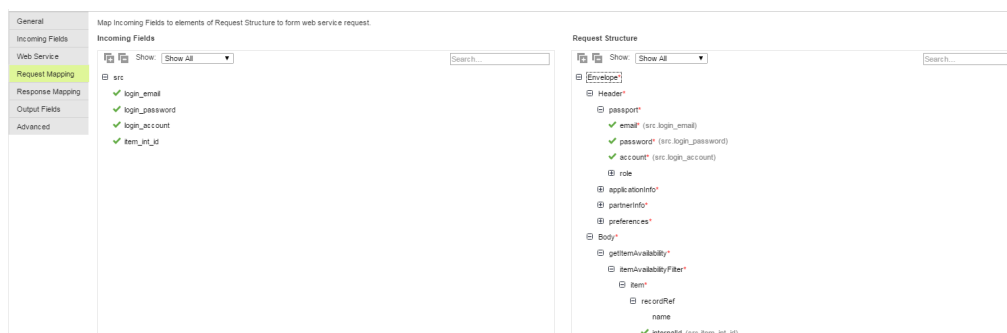
- After you add a Web Services transformation, you can connect the source and see four incoming fields. You can filter your view of the incoming fields to show all fields, mapped fields, unmapped fields, or keys:

Map Incoming Fields to elements of Request Structure to form web service request.

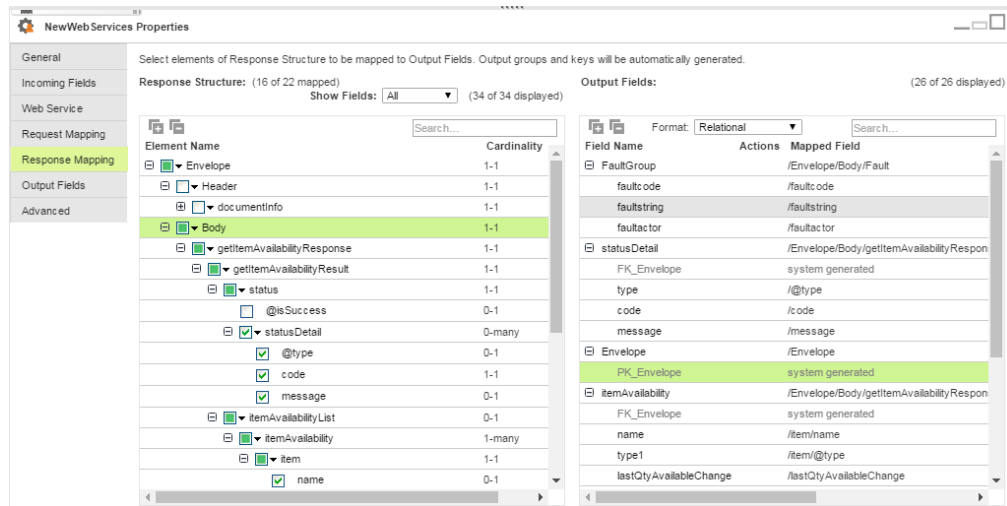
Incoming Fields



- In the Request Mapping, the incoming fields are mapped to the SOAP message. The Envelope contains the credentials and the Body contains the item ID, as shown in the following image. You drag incoming fields onto items in the request structure to create the mapping:



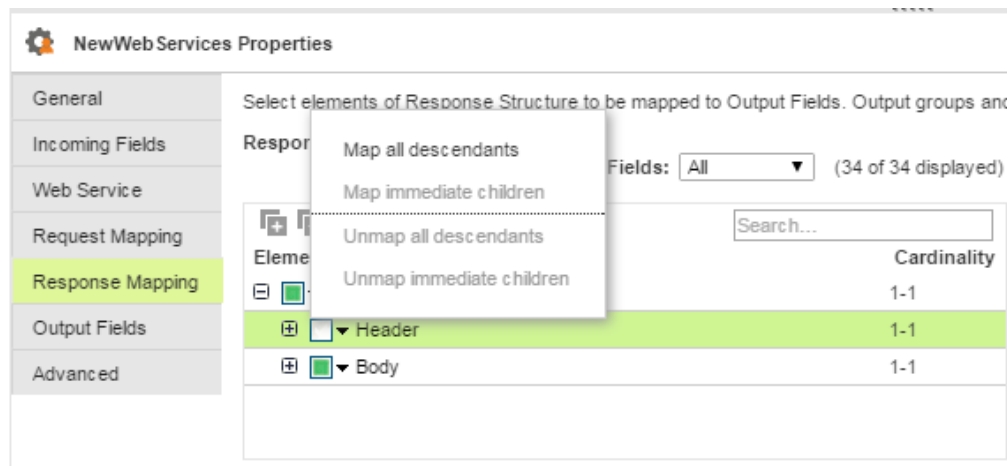
- On the Response Mapping tab, you map the SOAP message to the output fields you want to use. You can choose Relational or Denormalized format for output fields. This example uses Relational format:



The system generates these output field groups automatically:

- FaultGroup, if it is supported by the connection type you are using.
- Envelope, which contains the documentInfo, if you select elements of response to be mapped to output fields.
- One group for each element you have mapped where the cardinality is greater than one.

The example above has three groups. In the response, you can choose to map or unmap objects and fields by selecting a node in the hierarchy and choosing an option to map (or unmap), as shown in this image. Click the down arrow to display the mapping options for a specific node:



- On the Output Fields tab, you can see each group. If needed, you can edit the type, precision, and scale of the fields:

NewWebServices Properties

General: By default, all fields are included in the mapping data flow. You can edit field metadata by selecting the field you want to edit.

Web Service: Fields: (22 of 22 displayed)

Name	Type	Precision	Scale	Origin
▼ FaultGroup				
1 faultcode	string	255	0	
2 faultstring	string	255	0	
3 faultactor	string	255	0	
▶ statusDetail				
▶ Envelope				
▶ itemAvailability				

- The mapping includes three targets: one for the status, one for the availability, and one for the FaultGroup data:

tgt_default Properties

General

Incoming Fields: Preview Fields (Preview does not reflect results of parameterization)

Included(7)	Field Name	Type	Precision	Scale	Origin
	faultactor	string	255	0	NewWebServices
	faultcode	string	255	0	NewWebServices
	faultstring	string	255	0	NewWebServices
	item_int_id	string	255	0	ns_login_item_i...
	login_account	string	255	0	ns_login_item_i...
	login_email	string	255	0	ns_login_item_i...

Excluded(0)

tgt_item_avail Properties

General

Incoming Fields: Preview Fields (Preview does not reflect results of parameterization)

Included(18)	Field Name	Type	Precision	Scale	Origin
	FK_Envelope	bigint	19	0	NewWebServices
	item_int_id	string	255	0	ns_login_item_i...
	lastQtyAvailableChange	datetime	29	9	NewWebServices
	login_account	string	255	0	ns_login_item_i...
	login_email	string	255	0	ns_login_item_i...
	login_password	string	255	0	ns_login_item_i...

Excluded(0)

tgt_status Properties

General

Incoming Fields: Preview Fields (Preview does not reflect results of parameterization)

Included(8)	Field Name	Type	Precision	Scale	Origin
	ccode	string	255	0	NewWebServices
	FK_Envelope	bigint	19	0	NewWebServices
	item_int_id	string	255	0	ns_login_item_i...
	login_account	string	255	0	ns_login_item_i...
	login_email	string	255	0	ns_login_item_i...
	login_password	string	255	0	ns_login_item_i...

Excluded(0)

When the mapping runs, it returns the item availability and status code. If it cannot successfully run, it creates a record in the default target that contains the fault information.

Rules and guidelines for Web Service Consumer mappings

Consider the following rules and guidelines for Web Service Consumer mappings:

- Web Service Consumer Connector does not support i18N characters with SOAP 1.1.
- You cannot extract header details from a response message.
- You cannot extract value from a fault response for the following fields:
 - Detail
 - Role
- When you use the Username Token authentication in a Web Service Consumer connection, the header entry must be empty.
- When you extract subcode values in a fault response for multiple levels in an existing mapping , you must re-select the operation of web service consumer in the mapping.

Note: You can extract only five level of subcode values.

CHAPTER 4

Troubleshooting

Use the following section to troubleshoot errors in Web Service Consumer Connector.

Troubleshooting Web Service Consumer Connector

The performance of a mapping task might be slow due to the following reasons:

- The Internet connection is slow.
- Endpoint server request is in wait state and the server is processing the request slowly.

The mapping creation might fail due to the following reasons:

- You do not have the permissions to create the WSDL folder or file.
- WSDL is not available in the provided path.
- Endpoint URL is not valid.
- The endpoint is not up and running, because of which there can be an issue with loading the WSDL. Use your web browser to verify if the WSDL URL is valid.

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