

Web Services

WS Home
WS Intro
WS Example
WS Use

WSDL Tutorial

WSDL Intro
WSDL Documents
WSDL PortType
WSDL Binding
WSDL and UDDI

SOAP Tutorial

SOAP Intro
SOAP Syntax
SOAP Envelope
SOAP Header
SOAP Body
SOAP Fault
SOAP HTTP Binding
SOAP Examples

Governed Data Discovery with BI Office

✓ Consistent Look and Feel

✓ Re-usability

✓ Interaction on the Go

[Read More...](#)



WSDL PortType

[« Previous](#)

[Next Chapter »](#)

The **<portType>** element is the most important WSDL element.

WSDL - The <portType> Element

The <portType> element defines a **web service**, the **operations** that can be performed, and the **messages** that are involved.

<portType> defines the connection point to a web service. It can be compared to a function library (or a module, or a class) in a traditional programming language. Each operation can be compared to a function in a traditional programming language.

Operation Types

Search w3schools.com:

Google™ Custom Search

WEB HOSTING

UK Reseller Hosting

WEB BUILDING

XML Editor - Free Trial!

FREE Website BUILDER

Free HTML5 Templates

W3SCHOOLS EXAMS

HTML, CSS, JavaScript,
PHP, jQuery, XML, and
ASP Certifications

SHARE THIS PAGE



RDF Tutorial

- RDF Intro
- RDF Rules
- RDF Example
- RDF Elements
- RDF Containers
- RDF Collections
- RDF Schema
- RDF Dublin Core
- RDF OWL
- RDF Reference

The request-response type is the most common operation type, but WSDL defines four types:

Type	Definition
One-way	The operation can receive a message but will not return a response
Request-response	The operation can receive a request and will return a response
Solicit-response	The operation can send a request and will wait for a response
Notification	The operation can send a message but will not wait for a response

One-Way Operation

A one-way operation example:

```
<message name="newTermValues">
  <part name="term" type="xs:string"/>
  <part name="value" type="xs:string"/>
</message>

<portType name="glossaryTerms">
  <operation name="setTerm">
    <input name="newTerm" message="newTermValues"/>
  </operation>
</portType >
```

In the example above, the portType "glossaryTerms" defines a one-way operation called "setTerm".

The "setTerm" operation allows input of new glossary terms messages using a "newTermValues" message with the input parameters "term" and "value". However, no output is defined for the operation.


Request-Response Operation

A request-response operation example:

```
<message name="getTermRequest">
  <part name="term" type="xs:string"/>
</message>

<message name="getTermResponse">
  <part name="value" type="xs:string"/>
</message>

<portType name="glossaryTerms">
  <operation name="getTerm">
```

**DedicatedSolutions**
www.dedicatedsolutions.com

1 & 10GBITS PREMIUM
UNLIMITED BANDWIDTH
10+ CARRIERS NETWORK
UNLIMITED BANDWIDTH

ORDER NOW

WEB RESOURCES

Web Statistics

Web Validation

```
<input message="getTermRequest"/>
<output message="getTermResponse"/>
</operation>
</portType>
```

In the example above, the portType "glossaryTerms" defines a request-response operation called "getTerm".

The "getTerm" operation requires an input message called "getTermRequest" with a parameter called "term", and will return an output message called "getTermResponse" with a parameter called "value".

[« Previous](#)

[Next Chapter »](#)



Top 10 Tutorials

- » [HTML Tutorial](#)
- » [HTML5 Tutorial](#)
- » [CSS Tutorial](#)
- » [CSS3 Tutorial](#)
- » [JavaScript Tutorial](#)
- » [jQuery Tutorial](#)
- » [SQL Tutorial](#)
- » [PHP Tutorial](#)
- » [ASP.NET Tutorial](#)
- » [XML Tutorial](#)

Top 10 References

- » [HTML/HTML5 Reference](#)
- » [CSS 1,2,3 Reference](#)
- » [CSS 3 Browser Support](#)
- » [JavaScript](#)
- » [HTML DOM](#)
- » [XML DOM](#)
- » [PHP Reference](#)
- » [jQuery Reference](#)
- » [ASP.NET Reference](#)
- » [HTML Colors](#)

Top 10 Examples

- » [HTML Examples](#)
- » [CSS Examples](#)
- » [JavaScript Examples](#)
- » [HTML DOM Examples](#)
- » [PHP Examples](#)
- » [jQuery Examples](#)
- » [XML Examples](#)
- » [XML DOM Examples](#)
- » [ASP Examples](#)
- » [SVG Examples](#)

Web Certificates

- » [HTML Certificate](#)
- » [HTML5 Certificate](#)
- » [CSS Certificate](#)
- » [JavaScript Certificate](#)
- » [jQuery Certificate](#)
- » [PHP Certificate](#)
- » [XML Certificate](#)
- » [ASP Certificate](#)

Color Picker



[REPORT ERROR](#) | [HOME](#) | [TOP](#) | [PRINT](#) | [FORUM](#) | [ABOUT](#) | [ADVERTISE WITH US](#)

W3Schools is optimized for learning, testing, and training. Examples might be simplified to improve reading and basic understanding. Tutorials, references, and examples are constantly reviewed to avoid errors, but we cannot warrant full correctness of all content. While using this site, you agree to have read and accepted our terms of use,

