



JAX-WS : wsgen tool example

By mkyong (<http://www.mkyong.com/author/mkyong/>) | December 31, 2010 | Updated : August 29, 2012 | Viewed : 204,148 times +457 pv/w

The `wsgen` tool is used to parse an existing web service implementation class and generates required files (JAX-WS portable artifacts) for web service deployment. This `wsgen` tool is available in `$JDK/bin` folder.

Use cases

2 common use cases for `wsgen` tool :

1. Generates JAX-WS portable artifacts (Java files) for web service deployment.
2. Generates WSDL and xsd files, for testing or web service client development.

Let's see a web service implementation class, quite simple, just a method to return a string.

File : `ServerInfo.java`

```
package com.mkyong.ws;

import javax.xml.ws.WebMethod;
import javax.xml.ws.WebService;

@WebService
public class ServerInfo{

    @WebMethod
    public String getIpAddress() {

        return "10.10.10.10";

    }

}
```



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1. Generates JAX-WS portable artifacts (Java files)

To generate all the JAX-WS portable artifacts for above web service implementation class (`ServerInfo.java`), use following command :

Command : `wsgen usage`

```
D:\>wsgen -verbose -keep -cp . com.mkyong.ws.ServerInfo

Note:   ap round: 1
[ProcessedMethods Class: com.mkyong.ws.ServerInfo]
[should process method: getIpAddress hasWebMethods: true ]
[endpointReferencesInterface: false]
[declaring class has WebService: true]
[returning: true]
[WrapperGen - method: getIpAddress()]
[method.getDeclaringType(): com.mkyong.ws.ServerInfo]
[requestWrapper: com.mkyong.ws.jaxws.GetIpAddress]
[ProcessedMethods Class: java.lang.Object]
com\mkyong\ws\jaxws\GetIpAddress.java
com\mkyong\ws\jaxws\GetIpAddressResponse.java
Note:   ap round: 2
```

In this case, it generated four files :

1. com\mkyong\ws\jaxws\GetIpAddress.java
2. com\mkyong\ws\jaxws\GetIpAddress.class
3. com\mkyong\ws\jaxws\GetIpAddressResponse.java
4. com\mkyong\ws\jaxws\GetIpAddressResponse.class

File : GetIpAddress.java

```
package com.mkyong.ws.jaxws;

import javax.xml.bind.annotation.XmlAccessType;
import javax.xml.bind.annotation.XmlAccessorType;
import javax.xml.bind.annotation.XmlRootElement;
import javax.xml.bind.annotation.XmlType;

@XmlRootElement(name = "getIpAddress", namespace = "http://ws.mkyong.com/")
@XmlAccessorType(XmlAccessType.FIELD)
@XmlType(name = "getIpAddress", namespace = "http://ws.mkyong.com/")
public class GetIpAddress {

}
```

File : GetIpAddressResponse.java

```
package com.mkyong.ws.jaxws;

import javax.xml.bind.annotation.XmlAccessType;
import javax.xml.bind.annotation.XmlAccessorType;
import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlRootElement;
import javax.xml.bind.annotation.XmlType;

@XmlRootElement(name = "getIpAddressResponse", namespace = "http://ws.mkyong.com/")
@XmlAccessorType(XmlAccessType.FIELD)
@XmlType(name = "getIpAddressResponse", namespace = "http://ws.mkyong.com/")
public class GetIpAddressResponse {

    @XmlElement(name = "return", namespace = "")
    private String _return;

    /**
     *
     * @return
     *     returns String
     */
    public String getReturn() {
        return this._return;
    }

    /**
     *
     * @param _return
     *     the value for the _return property
     */
    public void setReturn(String _return) {
        this._return = _return;
    }

}
```



2. Genarates WSDL and xsd

To generate WSDL and xsd files for above web service implementation class (ServerInfo.java), add an extra **-wsdl** in the wsgen command :

Command : wsgen usage

```
D:\>wsgen -verbose -keep -cp . com.mkyong.ws.ServerInfo -wsdl

Note:   ap round: 1
[ProcessedMethods Class: com.mkyong.ws.ServerInfo]
[should process method: getIpAddress hasWebMethods: true ]
[endpointReferencesInterface: false]
[declaring class has WebService: true]
[returning: true]
[WrapperGen - method: getIpAddress()]
[method.getDeclaringType(): com.mkyong.ws.ServerInfo]
[requestWrapper: com.mkyong.ws.jaxws.GetIpAddress]
[ProcessedMethods Class: java.lang.Object]
com\mkyong\ws\jaxws\GetIpAddress.java
com\mkyong\ws\jaxws\GetIpAddressResponse.java
Note:   ap round: 2
```

In this case, it generated six files :

1. com\mkyong\ws\jaxws\GetIpAddress.java
2. com\mkyong\ws\jaxws\GetIpAddress.class
3. com\mkyong\ws\jaxws\GetIpAddressResponse.java
4. com\mkyong\ws\jaxws\GetIpAddressResponse.class
5. ServerInfoService_schema1.xsd
6. ServerInfoService.wsdl

File : ServerInfoService_schema1.xsd

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
  targetNamespace="http://ws.mkyong.com/"
  xmlns:tns="http://ws.mkyong.com/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:element name="getIpAddress" type="tns:getIpAddress"/>

  <xs:element name="getIpAddressResponse" type="tns:getIpAddressResponse"/>

  <xs:complexType name="getIpAddress">
    <xs:sequence/>
  </xs:complexType>

  <xs:complexType name="getIpAddressResponse">
    <xs:sequence>
      <xs:element name="return" type="xs:string" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

File : ServerInfoService.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions targetNamespace="http://ws.mkyong.com/"
name="ServerInfoService" xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:tns="http://ws.mkyong.com/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
  <types>
    <xsd:schema>
      <xsd:import namespace="http://ws.mkyong.com/"
        schemaLocation="ServerInfoService_schema1.xsd"/>
    </xsd:schema>
  </types>
  <message name="getIpAddress">
    <part name="parameters" element="tns:getIpAddress"/>
  </message>
  <message name="getIpAddressResponse">
    <part name="parameters" element="tns:getIpAddressResponse"/>
  </message>
  <portType name="ServerInfo">
    <operation name="getIpAddress">
      <input message="tns:getIpAddress"/>
      <output message="tns:getIpAddressResponse"/>
    </operation>
  </portType>
  <binding name="ServerInfoPortBinding" type="tns:ServerInfo">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
    <operation name="getIpAddress">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
  </binding>
  <service name="ServerInfoService">
    <port name="ServerInfoPort" binding="tns:ServerInfoPortBinding">
      <soap:address location="REPLACE_WITH_ACTUAL_URL"/>
    </port>
  </service>
</definitions>
```

Published It!

All files are ready, publish it via endpoint publisher.

```
package com.mkyong.endpoint;

import javax.xml.ws.Endpoint;
import com.mkyong.ws.ServerInfo;

//Endpoint publisher
public class WsPublisher{

    public static void main(String[] args) {
        Endpoint.publish("http://localhost:8888/ws/server", new ServerInfo());

        System.out.println("Service is published!");
    }
}
```

Download Source Code

Download It – JAX-WS-wsgen-command-example.zip
<http://www.mkyong.com/wp-content/uploads/2010/12/JAX-WS-wsgen-command-example.zip> (5KB)

Reference

1. Official site : wsgen JavaDoc (<http://jax-ws.java.net/nonav/2.1.2/docs/wsgen.html>)

Tags : [jax-ws \(http://www.mkyong.com/tag/jax-ws/\)](http://www.mkyong.com/tag/jax-ws/) | [soap \(http://www.mkyong.com/tag/soap/\)](http://www.mkyong.com/tag/soap/) | [web services \(http://www.mkyong.com/tag/web-services/\)](http://www.mkyong.com/tag/web-services/) | [wsgen \(http://www.mkyong.com/tag/wsgen/\)](http://www.mkyong.com/tag/wsgen/)

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Mike Lama


Guest

Thank you.

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🕒 2 years 4 months ago




Excelanto


Guest

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🕒 3 years 16 days ago




jk


Guest

How can we have the schema included within the WSDL. I dnt wish to have a sepearte schema file.Is there a way to specify that.

 0 

 REPLY



🕒 3 years 2 months ago ^




Fazil


Guest

change the SoapBinding style to RPC then all the types will be included in WSDL itself.

 0 

 REPLY



🕒 2 years 6 months ago




arjun cr


Guest

What If I have My Own JaxB Classes,How to create the XSD from those JAXB Classes,using WSGEN,
I know there are couple of tools to generate XSD file from JAXB classes,But I want to create those XSD file from my own already created JaxB classes,during the generation of WSDL using wsgen.
Thanks in Advance

 0 

 REPLY



🕒 4 years 15 hours ago




Lily


Guest

hi, I have a problem when i execute the command wsgen
The path of my java project is "E:\java\Server\src\com\mkyong\ws\ServerInfo.java"
I use the wsgen commands as:
E:\>wsgen -verbose -keep -cp E:\java\Server\src\com.mkyong.ws.ServerInfo
error:
Missing SEI
Could you help me resolve?Thanks

 0 

 REPLY

🕒 4 years 1 month ago ^



Salwa

Guest

Follow the tutorial here: <http://www.youtube.com/watch?v=od6fNiegu-Q>
(<http://www.youtube.com/watch?v=od6fNiegu-Q>)
it will guide you through the eclipse in how to use the wsgen comment to generate the WSDL...

👍 0 🗨️ REPLY

🕒 4 years 1 month ago



Dilip

Guest

A very good example. I succeeded to create and run my first webservice after following this simple and straight forward example(I was struggling to create my helloworld type simple webservice). Thanks mr. MKYong.

👍 0 🗨️ REPLY

🕒 4 years 5 months ago



Amit Singh Hora

Guest

Hi,
i am using the wsgen command and i am getting the following output on command prompt but no source files or classes are getting generated and pointers on this...
C:\Program Files\Java\jdk1.6.0_31\bin>wsgen -verbose -keep -cp . Service.AddService
vicelImpl -d src
Note: ap round: 1
[ProcessedMethods Interface: Service.AddService]
[should process method: addNumber hasWebMethods: false]
[endpointReferencesInterface: true]
[declaring class has WebService: true]
[returning: true]
[WrapperGen - method: addNumber(int,int)]
[method.getDeclaringType(): Service.AddService]

👍 0 🗨️ REPLY

🕒 4 years 7 months ago ^



baoyu

Guest

remove the "parameterStyle = ParameterStyle.BARE"

👍 0 🗨️ REPLY

🕒 4 years 4 months ago



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Lâmôlabs

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👍 0 🗨️ REPLY

🕒 4 years 9 months ago



Praveen Das

Guest

Hi MKYong, I'm encountering a wsgen compilation failure for Hibernate Annotations. Scenario – Create JAX-WS webservice for validation of a user. Issue Faced – wsgen command fails with below error error: Could not create declaration for annotation type com. error: Could not create declaration for annotation type com. 2 errors error: compilation failed, errors should have been reported
Command- wsgen -s src/main/java -d target/Struts2Example/WEB-INF/classes -cp target/Struts2Example/WEB-INF/classes com.hcl.customer.dao.impl.WSCustomerDAOImpl Code –
@WebService(endpointInterface="com.hcl.customer.dao.WSCustomerDAO") public class WSCustomerDAOImpl implements WSCustomerDAO{
Logger logger = Logger.getLogger(WSCustomerDAOImpl.class);
@SessionTarget Session session;
@TransactionTarget Transaction transaction; // return customer model if the username & password exists
public Customer validateUser(String username, String... Read more »

👍 0 🗨️ REPLY

🕒 4 years 10 months ago



Abilash

Guest

I am getting the below exception while running your file. may I know where is the issue?

```
–
–
–
0
–
java.lang.ArrayIndexOutOfBoundsException: 0 at
```



```
org.apache.axis2.description.AxisService.getWSDL(AxisService.java:1643) at
org.apache.axis2.description.AxisService.printWSDL(AxisService.java:1413) at
org.apache.axis2.transport.http.HTTPWorker.service(HTTPWorker.java:154) at
org.apache.axis2.transport.http.server.AxisHttpService.doService(AxisHttpService.java:281) at
org.apache.axis2.transport.http.server.AxisHttpService.handleRequest(AxisHttpService.java:187) at
org.apache.axis2.transport.http.server.HttpServiceProcessor.run(HttpServiceProcessor.java:82) at
java.util.concurrent.ThreadPoolExecutor$Worker.runTask(Unknown Source) at
java.util.concurrent.ThreadPoolExecutor$Worker.run(Unknown Source) at
java.lang.Thread.run(Unknown Source)
```

👍 0 🗨️ [REPLY](#)

🕒 4 years 10 months ago ⬆



Abilash

Its in the browser, after publishing the WS.

Guest

👍 0 🗨️ [REPLY](#)

🕒 4 years 10 months ago



Guest

david

I had modify the generated xsd file said minOccurs change to 1. But how can I publish it on
http://127.0.0.1:9999/ws/hello?wsdl (http://127.0.0.1:9999/ws/hello?wsdl)

It always publish the default wsdl and xsd back to me. the one I change never display. Where should
I put the wsdl and xsd files under by file system?

👍 0 🗨️ [REPLY](#)

🕒 4 years 10 months ago



Guest

sebastian

hi, i am having a problem when i execute the command wsgen

```
C:\Users\ominatti\Documents\JAVA\JWS\EXAMPLE WSGEN\WebServices>wsgen -verbose -k
eep -cp . com.mkyong.ws.ServerInfo
```

error

Class not found: "com.mkyong.ws.ServerInfo"

Could you help me please ¿?

Thanks

👍 0 🗨️ [REPLY](#)

🕒 5 years 14 days ago ⬆



Mao

You must have com.mkyong.ws.ServerInfo class file after compilation(javac)

Guest

👍 0 🗨️ [REPLY](#)

🕒 5 years 23 hours ago



Guest

gyan

Please Anyone Advice me ..

How to annotate this class to create web service.

As I found null value in list type field from web service.

```
@WebMethod(operationName = "getTickets")
```

```
public List getTickets(long ticketId) throws TicketingException {
    try {
        return new TicketBO().getTickets(ticketId);
    } catch (TicketingException e) {
        logger.error(e);
        throw e;
    }
}
```

```
public class Ticket{
    private Long ticketId;
    private String callerNumber;
    private List dynaFieldValues;
}
```

```
public class DynaFieldValue implements Serializable,Comparable {  
  
    private DynaFieldValue id;  
    private String value;  
  
}
```

👍 0 🗨️ REPLY

🕒 5 years 2 months ago



JAX-WS Hello World Example –

Document Style

(<http://www.mkyong.com/webservices/jax-ws/jax-ws-hello-world-example-document-style/>)

[...] tool is available in the "JDK_Pathbin" folder. For detail, please read this JAX-WS : wsgen tool example [...]

👍 0 🗨️ REPLY

🕒 5 years 3 months ago



Guest

Jitendra

Hi

Thanks for nice tutorial, Is it possible to generate wsdl with inline schema, is there way we can automate generation of wsdl with inline (instead of having separate schema file) Many Thanks in advance :)

👍 0 🗨️ REPLY

🕒 5 years 7 months ago



Guest

Levan

Just a little side-note: before using wsgen tool, web service implementation class must be compiled (using javac).

:-)

👍 0 🗨️ REPLY

🕒 5 years 10 months ago



JAX-WS Tutorial

(<http://www.mkyong.com/tutorials/jax-ws-tutorials/>)

[...] files (JAX-WS portable artifacts) for web service client to access the published web services.JAX-WS : wsgen tool example The wsgen tool is used to parse an existing web service implementation class and generates required [...]

👍 0 🗨️ REPLY

🕒 6 years 5 months ago





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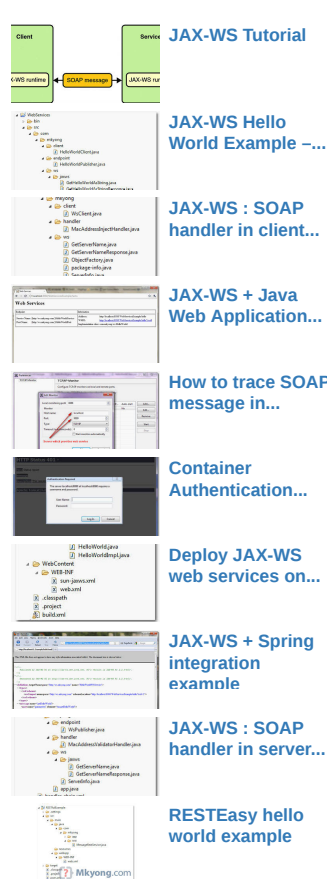
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 Gradle User Guide (<https://docs.gradle.org/current/userguide/userguide.html>)

Hibernate ORM (<http://hibernate.org/orm/>)
JAX-WS Home Page (<https://jax-ws.java.net/>)
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Mkyong.com is for Java and J2EE developers, all examples are simple and easy to understand, and well tested in my development environment.

Mkyong.com is created, written by, and maintained by Yong Mook Kim, aka Mkyong. It is built on WordPress (<https://wordpress.org/>), hosted by Liquid Web (<http://www.liquidweb.com/?RID=mkyong>), and the caches are served by CloudFlare CDN.

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