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The Java EE 5 Tutorial

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Header Example

The example <code>HeaderExample.java</code>, based on the code fragments in the section <code>Adding Attributes</code>, creates a message that has several headers. It then retrieves the contents of the headers and prints them. The example <code>generates</code> either a SOAP 1.1 message or a SOAP 1.2 message, depending on arguments you specify. You will find the code for <code>HeaderExample</code> in the following directory:

tut-install/javaeetutorial5/examples/saaj/headers/src/

Building and Running the Header Example

To build the program using NetBeans IDE, follow these steps:

- 1. In NetBeans IDE, choose Open Project from the File menu.
- 2. In the Open Project dialog, navigate to tut-install/javaeetutorial5/examples/saaj/.
- 3. Select the headers folder.
- 4. Select the Open as Main Project check box.
- 5. Click Open Project.

A Reference Problems dialog appears. Click Close.

- 6. Right-click the headers project and choose Resolve Reference Problems.
- 7. In the Resolve Reference Problems dialog, select the first of the missing JAR files and click Resolve.

The missing files are $\mbox{activation.jar}$, $\mbox{javaee.jar}$, and $\mbox{appserv-ws.jar}$.

- 8. Navigate to the as-install/lib/ directory.
- 9. Select the missing JAR file (activation.jar , for example) and click Open.

In the Resolve Reference Problems dialog, all the files have green check marks to the left of their names.

- 10. Click Close.
- 11. Right-click the project and choose Build.

To run the program using NetBeans IDE, follow these steps:

- 1. Right-click the headers project and choose Properties.
- 2. Select Run from the Categories tree.
- 3. In the Arguments field, type the following:

1.1

This argument specifies the version of SOAP to be used in generating the message.

- 4. Click OK.
- 5. Right-click the project and choose Run.
- 6. Right-click the project and choose Properties.
- 7. Select Run from the Categories tree.

8. In the Arguments field, type the following:

```
1.2
```

- 9. Click OK.
- 10. Right-click the project and choose Run.

To build and run HeaderExample using Ant, go to the directory tut-install/javaeetutorial5/examples/saaj/headers/ . Use one of the following commands:

```
ant run-headers -Dsoap=1.1

ant run-headers -Dsoap=1.2
```

When you run HeaderExample to generate a SOAP 1.1 message, you will see output similar to the following:

```
---- Request Message ----
<SOAP-ENV: Envelope xmlns: SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
<SOAP-ENV: Header>
<ns:orderDesk xmlns:ns="http://gizmos.com/NSURI"</pre>
SOAP-ENV:actor="http://gizmos.com/orders"/>
<ns:shippingDesk xmlns:ns="http://gizmos.com/NSURI"</pre>
SOAP-ENV:actor="http://gizmos.com/shipping"/>
<ns:confirmationDesk xmlns:ns="http://gizmos.com/NSURI"</pre>
SOAP-ENV:actor="http://gizmos.com/confirmations" SOAP-ENV:mustUnderstand="1"/>
<ns:billingDesk xmlns:ns="http://gizmos.com/NSURI"</pre>
SOAP-ENV:actor="http://gizmos.com/billing"/>
</SOAP-ENV:Header><SOAP-ENV:Body/></SOAP-ENV:Envelope>
Header name is {http://gizmos.com/NSURI}orderDesk
Actor is http://gizmos.com/orders
mustUnderstand is false
Header name is {http://gizmos.com/NSURI}shippingDesk
Actor is http://gizmos.com/shipping
mustUnderstand is false
Header name is {http://gizmos.com/NSURI}confirmationDesk
Actor is http://gizmos.com/confirmations
mustUnderstand is true
Header name is {http://gizmos.com/NSURI}billingDesk
Actor is http://gizmos.com/billing
mustUnderstand is false
```

When you run HeaderExample to generate a SOAP 1.2 message, you will see output similar to the following:

```
--- Request Message ----
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
<env:Header>
<ns:orderDesk xmlns:ns="http://gizmos.com/NSURI"</pre>
env:role="http://gizmos.com/orders"/>
<ns:shippingDesk xmlns:ns="http://gizmos.com/NSURI"</pre>
env:role="http://gizmos.com/shipping"/>
<ns:confirmationDesk xmlns:ns="http://gizmos.com/NSURI"</pre>
env:mustUnderstand="true" env:role="http://gizmos.com/confirmations"/>
<ns:billingDesk xmlns:ns="http://gizmos.com/NSURI"</pre>
env:relay="true" env:role="http://gizmos.com/billing"/>
</env:Header><env:Body/></env:Envelope>
Header name is {http://gizmos.com/NSURI}orderDesk
Role is http://gizmos.com/orders
mustUnderstand is false
relay is false
Header name is {http://gizmos.com/NSURI}shippingDesk
Role is http://gizmos.com/shipping
mustUnderstand is false
```

relay is false

Header name is {http://gizmos.com/NSURI}confirmationDesk
Role is http://gizmos.com/confirmations
mustUnderstand is true
relay is false

Header name is {http://gizmos.com/NSURI}billingDesk
Role is http://gizmos.com/billing
mustUnderstand is false
relay is true

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