

Chapter Sending and receiving complex data
structures- Referring existing
elements

Objectives

- At the end of this chapter you will be able to understand
 - How to send and receive complex data to and from a web service, which has been generated by consuming third party schemas

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Referring to existing XML elements

- For the moment we're defining XML elements such as productQuery
 directly in the WSDL file.
- However, in practice, most likely such elements are defined by a 3rd party such as an industrial consortium or neutral association.
- Suppose that they are provided in a file purchasing.xsd such as this:



Referring to existing XML elements

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How to refer to those XML elements in our WSDL file?



Referring to existing XML elements

- First, put the *purchasing.xsd* file into the same folder as the WSDL file (i.e., the project root).
- Then modify the WSDL file:



Referring to existing XML elements- wsdl

```
You're saying. I'd like to refer to the XML elements — How can the WSDL parser find out defined in the http://bar.org/purchasing in saying. Then the XML elements will be visible in saying and the part of the XML elements will be visible in Java used to import a package or a class.

You don't need to define your own elements — I have been supported by the part of the xdf lie would be a class of the part of the xdf lie would be a class of the x
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Referring to existing XML elements

Modify build.xml:



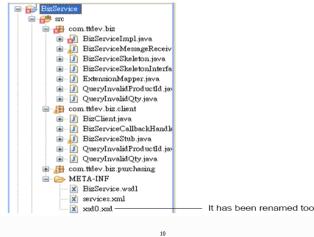
4

Referring to existing XML elements- build.xml

```
As the XML elements are in the
   <target name="generate-service">
                                                                 http://bar.org/purchasing namespace,
      <wsdl2code
  wsdlfilename="${name}.wsdl"</pre>
                                                                 you may want to map it to a Java
                                                                 package.
          serverside="true"
         generateservicexml="true" Separate them by a comma serversideinterface="true"
         namespacetopackages=
            "http://foo.com=com.ttdev.biz,http://bar.org/purchasing=com.ttdev.biz.purchasing"
          targetsourcefolderlocation="src
      targetresourcesfolderlocation="src/META-INF"
overwrite="true"/>
<replaceregexp</pre>
         file="src/META-INF/services.xml"
match="${name}Skeleton"
                                                                     You could do the same thing for the
          replace="${name}Impl"/>
                                                                    client, but by default the XML elements
   </target>
                                                                    will be mapped to inner classes of the 
client stub. So you don't need to specify
   <target name="generate-client">
      <wsdl2code
  wsdlfilename="${name}.wsdl"</pre>
                                                                    a package for them.
          skipbuildxml="true"
         namespacetopackages="http://foo.com=com.ttdev.biz.client" targetsourcefolderlocation="src" overwrite="true"/>
    </target>
</project>
```

Referring to existing XML elements

 Run the build and we will be able to see following generated files.



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Quick Recap...

 We can generate the web services based on a wsdl which import the elements from third party

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