

# UDDI - WITH WSDL

[http://www.tutorialspoint.com/uddi/uddi\\_with\\_wsdl.htm](http://www.tutorialspoint.com/uddi/uddi_with_wsdl.htm)

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The UDDI data model defines a generic structure for storing information about a business and the web services it publishes. The UDDI data model is completely extensible, including several repeating sequence structures of information.

However, WSDL is used to describe the interface of a web service. WSDL is fairly straightforward to use with UDDI.

- WSDL is represented in UDDI using a combination of *businessService*, *bindingTemplate*, and *tModel* information.
- As with any service registered in UDDI, generic information about the service is stored in the *businessService* data structure, and information specific to how and where the service is accessed is stored in one or more associated *bindingTemplate* structures. Each *bindingTemplate* structure includes an element that contains the network address of the service and has associated with it one or more *tModel* structures that describe and uniquely identify the service.
- When UDDI is used to store WSDL information, or pointers to WSDL files, the *tModel* should be referred to by convention as type *wsdlSpec*, meaning that the *overviewDoc* element is clearly identified as pointing to a WSDL service interface definition.
- For UDDI, WSDL contents are split into two major elements the interface file and the implementation file.

The Hertz reservation system web service provides a concrete example of how UDDI and WSDL works together. Here is the `<tModel>` for this web service:

```
<tModel authorizedName="..." operator="..." tModelKey="...">
  <name>HertzReserveService</name>
  <description xml:lang="en">
    WSDL description of the Hertz reservation service interface
  </description>

  <overviewDoc>
    <description xml:lang="en">
      WSDL source document.
    </description>
    <overviewURL>
      http://mach3.ebphost.net/wsdl/hertz_reserve.wsdl
    </overviewURL>
  </overviewDoc>

  <categoryBag>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
      keyName="uddi-org:types" keyValue="wsdlSpec"/>
  </categoryBag>
</tModel>
```

The key points are:

- The *overviewURL* element gives the URL to where the service interface definition WSDL file can be found. This allows humans and UDDI/WSDL aware tools to locate the service interface definition.
- The purpose of the *keyedReference* element in the *categoryBag* is to make sure that this *tModel* is categorized as a WSDL specification document.