UDDI Overview Presentation, 
http://www.uddi.org/pubs/UDDI_Overview_Presentation.ppt

UDDI V 2.04 API Specification, 
http://uddi.org/pubs/ProgrammersAPI-V2.04-Published-20020719.htm#_Toc25137706

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UDDI

Universal Description, Discovery and Integration

Started September 2000

DNS like system for finding out about services

A Soap server for accessing information about Soap servers

IBM & Microsoft maintain root UDDI servers

http://uddi.microsoft.com/

http://www-3.ibm.com/services/uddi/
Lots of Specs

Version 2 Spec list

UDDI API Spec
UDDI Data Structure
UDDI XML Schema
UDDI Replication Specification
UDDI XML Replication Schema
UDDI XML Custody Schema
UDDI Operator’s Specification
UDDI WSDL Service Interface
UDDI WSDL Service Interface Descriptions
  UDDI Inquire API
  UDDI Publish API

UDDI tModels
  UDDI Registry tModels
  UDDI Other Core tModels
  Replication tModels
  Taxonomy tModels
UDDI Versions

V1 (Sept 2000)
For Business Units
3 taxonomies for describing/searching for services
Descriptions of Services

V2 (March 2001)
For Corporations
More taxonomies
Layered Services

V3 (December 2001)
Associations
Custom taxonomies
Workflow
UDDI Server Contains

Descriptions of businesses and the services they support

Descriptions of web services
UDDI supports two types of Access

Inquiry
Publishing
Business View

Businesses register public information about themselves

Use
• White pages
• Yellow pages
• Green pages
White Pages

Business name
Text description
Contact information
Known identifiers

Yellow Pages

Business Categories

- Industry: NAICS industry code
- Product/Services: UN/SPSC
- Location

 Implemented as name-value pairs

Green Pages

How to do e-commerce with company

Business processes
Service descriptions
Binding information
See examples in UDDI Registry

http://uddi.microsoft.com/
Some Technical Information

Inquiry API

Browsing
• find_binding
• find_business
• find_relatedBusiness
• find_service
• find_tModel

Drill-Down
• get_bindingDetail
• get_businessDetail
• get_businessDetailExt
• get_serviceDetail
• get_tModelDetail
Publishing API

add_publisherAssertions
delete_binding
delete_business
delete_publisheerAssertions
delete_service
delete_tModel
discard_authenToken
get_assertionStatusReport
get_authenToken
get_publisherAssertions
get_registeredInfo
save_binding
save_business
save_service
save_tModel
set_publisherAssertions
Data Structures Used

businessEntity: Information about the party who publishes information about a family of services

businessService: Descriptive information about a particular service

bindingTemplate: Technical information about a service entry point and construction specs

PublisherAssertion: Information about a relationship between two parties, asserted by one of both

tModel: Descriptions of specifications for services or taxonomies. Basis for technical fingerprints

bindingTemplate data contains references to tModels. These tModels designate the interface specifications for a service

Refers to tModels

PublisherAssertion: Info about a relationship between two parties
UUID or GUID

Universally Unique Identifier

Globally Unique Identifier

Used to label much of data used in UDDI
**BusinessEntity**

Schema

```xml
<element name="businessEntity" type="uddi:businessEntity" />
<complexType name="businessEntity">
   <sequence>
      <element ref="uddi:discoveryURLs" minOccurs="0" />
      <element ref="uddi:name" maxOccurs="unbounded" />
      <element ref="uddi:description" minOccurs="0"
         maxOccurs="unbounded" />
      <element ref="uddi:contacts" minOccurs="0" />
      <element ref="uddi:businessServices" minOccurs="0" />
      <element ref="uddi:identifierBag" minOccurs="0" />
      <element ref="uddi:categoryBag" minOccurs="0" />
   </sequence>
   <attribute name="businessKey" type="uddi:businessKey"
      use="required" />
   <attribute name="operator" type="string" use="optional" />
   <attribute name="authorizedName" type="string" use="optional" />
</complexType>
```
## BusinessEntity

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>businessKey</td>
<td>UUID for structure.</td>
</tr>
<tr>
<td>authorizedName</td>
<td>name of individual that published the businessEntity data.</td>
</tr>
<tr>
<td>operator</td>
<td>Name of the UDDI registry that manages the master copy of the businessEntity</td>
</tr>
<tr>
<td>discoveryURLs</td>
<td>URLs that point to alternate, file based service discovery mechanisms.</td>
</tr>
<tr>
<td>name</td>
<td>Required repeating element. Human readable names for the businessEntity</td>
</tr>
<tr>
<td>description</td>
<td>short business description</td>
</tr>
<tr>
<td>contacts</td>
<td>Optional list of contact information.</td>
</tr>
<tr>
<td>businessServices</td>
<td>One or more logical business service descriptions.</td>
</tr>
<tr>
<td>identifierBag</td>
<td>Optional list of name-value pairs that can be used to record identifiers for a businessEntity.</td>
</tr>
<tr>
<td>categoryBag</td>
<td>Optional list of name-value pairs that are used to add taxonomy information</td>
</tr>
</tbody>
</table>
tModel
<ttModel tModelKey="uuid: 4CD7E4BC-648B-426D-9936-443EAAE8AE23 ">
  <name>uddi-org:inquiry</name>
  <description xml:lang="en">UDDI Inquiry API - Core Specification</description>
  <overviewDoc>
    <description xml:lang="en">
      This tModel defines the inquiry API calls for interacting with a V1 UDDI node.
    </description>
    <overviewURL>
      http://www.uddi.org/wsdl/inquire_v1.wsdl
    </overviewURL>
  </overviewDoc>
  <categoryBag>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="types" keyValue="specification"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="types" keyValue="xmlSpec"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="types" keyValue="soapSpec"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="types" keyValue="wsdlSpec"/>
  </categoryBag>
</tModel>