

# **Oasis ebXML Registry TC**

## **UDDI tModels Proposal**

### **23 October 2001**

**Version 1**

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## 1. Introduction

This document introduces a set of tModels that the Oasis ebXML TC should register within the UDDI Business Registry. Once published, these tModels could then be referenced when publishing Business Entities and Business Services based on Oasis ebXML based Services and documents. Doing this will enable “global discovery” of ebXML Registries and services based on the Oasis ebXML specifications.

This document assumes that the reader has a working knowledge of Version1 and Version 2 of the UDDI Programmer’s Reference API and the UDDI Data Structure Specifications. In this case tModels are utilized to represent the fact that the Services registered in UDDI are in fact ebXML compliant services. These tModels and their categorization within UDDI can then be conveniently used in searches.

It is also assumed that the reader has a detailed working knowledge of key Oasis and ebXML Specifications efforts.

This documents reflects the significant contribution from Sun and reviews and input from other contributors.

## 2. Concepts and Definitions

This section summarizes the tModels that are being proposed. Each tModel is then discussed in length in the subsequent sections. tModels typically consist of a name, description(s), a URL to a complete description of the relevant specifications, and categorizations.

For brevity in this section, I show the name, the key URL, a description, and the categorizations of the tModel. The tModels proposed reference the “approved” ebXML specifications. As Oasis approves successive versions of the related specifications, the specific URLs within these tModels can easily be updated.

Name	URL	Description	UDDI Categories
ebXML	<a href="http://www.ebxml.org/specs">http://www.ebxml.org/specs</a>	parent URL to complete set of ebXML specifications	specification xmlSpec
ebXML Run-time	<a href="http://www.ebxml.org/ebTA.pdf">http://www.ebxml.org/ebTA.pdf</a>	specific link to technical architecture specification	specification xmlSpec
ebXML Messaging	<a href="http://www.ebxml.org/specs/ebMS.pdf">http://www.ebxml.org/specs/ebMS.pdf</a>	specific link to the ebXML messaging specification	specification xmlSpec soapSpec ebXMLSpec

ebXML Registry Services	<a href="http://www.ebxml.org/specs/ebRS.pdf">http://www.ebxml.org/specs/ebRS.pdf</a>	Registry Services specification	specification xmlSpec soapSpec ebXMLSpec
ebXML RIM	<a href="http://www.ebxml.org/specs/ebRIM.pdf">http://www.ebxml.org/specs/ebRIM.pdf</a>	Data Model for the ebXML Registry	specification xmlSpec soapSpec ebXMLSpec
ebXML CPP	<a href="http://www.ebxml.org/specs/ebCCP.pdf">http://www.ebxml.org/specs/ebCCP.pdf</a>	ebXML Collaboration Protocol Profile and Agreement specifications	specification xmlSpec ebXMLSpec
ebXML CPA	<a href="http://www.ebxml.org/specs/ebCCP.pdf">http://www.ebxml.org/specs/ebCCP.pdf</a>	ebXML Collaboration Protocol Profile and Agreement specifications	specification xmlSpec ebXMLSpec
ebXML BPSS	<a href="http://www.ebxml.org/specs/ebBPSS.pdf">http://www.ebxml.org/specs/ebBPSS.pdf</a>	ebXML Business Process Specification Schema	specification xmlSpec ebXMLSpec ebXMLMessagingSpec

43

## 44 2.1 The ebXML Specification tModel

45 This tModel represents the complete set of ebXML specifications and general framework  
46 for business-to-business eCommerce. All ebXML services will reference this tModel.

47 The UUIDs shown below are not real. These are representative of what the keys will look  
48 like once the tModels are published in UDDI. This tModel is categorized using a built-in  
49 taxonomy within UDDI. The keyed references within the categoryBag element represent a  
50 "specification" and an "XML specification." These categories enable successful searches  
51 during service discovery.

52

```

53 <tModel tModelKey="uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b5">
54   <name>ebXML</name>
55   <description lang="en">complete set of ebXML specifications</description>
56   <overviewDoc>
57     <description lang="en">ebXML</description>
58     <overviewURL>http://www.ebxml.org/specs</overviewURL>
59   </overviewDoc>
60   <categoryBag>
61     <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
62     keyName="uddi: A specification" keyValue="specification"/>
63     <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="uddi:
64     An XML specification" keyValue="xmlSpec"/>
65   </categoryBag>
66 </tModel>

```

## 2.2 The ebXML Run-time Specification tModel

This tModel is defined for applications and services that comply with the ebXML architecture specification.

```
<tModel tModelKey="uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b6">
  <name>ebXML</name>
  <description lang="en">ebXML conformant run-time</description>
  <overviewDoc>
    <description lang="en">EbXML run-time</description>
    <overviewURL>http://www.ebxml.org/specs/ebTA.pdf</overviewURL>
  </overviewDoc>
  <categoryBag>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
keyName="uddi: A specification " keyValue="specification"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="uddi:
An XML specification " keyValue="xmlSpec"/>
  </categoryBag>
</tModel>
```

## 2.3 The ebXML Messaging Specification tModel

This tModel represents the use of the ebXML Messaging Specification for business-to-business applications. Note the additional categorizations within the categoryBag. This tModel references an additional value choice within one of the built-in UDDI taxonomies. The new one referenced here is “soapSpec.”

This categorization appropriately refers to the previously defined ebXML “parent” specification. In other words a tModel is used to categorize other tModels. Other ebXML tModels will reference this messaging tModel.

```
<tModel tModelKey="uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b7">
  <name>ebXML Messaging</name>
  <description lang="en">ebXML conformant messaging implementation</description>
  <overviewDoc>
    <description lang="en">EbXML Messaging Specification</description>
    <overviewURL> http://www.ebxml.org/specs/ebMS.pdf </overviewURL>
  </overviewDoc>
  <categoryBag>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
keyName="uddi: A specification " keyValue="specification"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="uddi:
An XML specification " keyValue="xmlSpec"/>
    <keyedReference tModelKey="uuid:uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b5"
keyName="uddi: An ebXML specification" keyValue="ebXMLSpec"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="uddi:
Using SOAP messages " keyValue="soapSpec"/>
  </categoryBag>
</tModel>
```

## 2.4 The ebXML Registry Services Specification

This tModel represents the ebXML Registry specification.

```
<tModel tModelKey="uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b9">
  <name>ebXML Registry Services</name>
  <description lang="en">ebXML Service Specification conformant
registry/repository</description>
  <overviewDoc>
    <description lang="en">EbXML Reg/Rep Service Specification</description>
    <overviewURL> http://www.ebxml.org/specs/ebRS.pdf </overviewURL>
  </overviewDoc>
  <categoryBag>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
keyName="uddi: A specification " keyValue="specification"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="uddi:
An XML specification " keyValue="xmlSpec"/>
    <keyedReference tModelKey="uuid:uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b5"
keyName="uddi: An ebXML specification" keyValue="ebXMLSpec"/>
    <keyedReference tModelKey="uuid:uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b7"
keyName="uddi: Using ebXML Messaging messages " keyValue="ebXMLMessagingSpec"/>
  </categoryBag>
</tModel>
```

## 2.5 The ebXML Registry Information Model

This tModel represents the ebXML Registry information Model.

```
<tModel tModelKey="uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b8">
  <name>ebXML RIM</name>
  <description lang="en">ebXML information model conformant
registry/repository</description>
  <overviewDoc>
    <description lang="en">EbXML Reg/Rep Specification</description>
    <overviewURL>http://www.ebxml.org/specs/ebRIM.pdf</overviewURL>
  </overviewDoc>
  <categoryBag>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
keyName="uddi: A specification " keyValue="specification"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="uddi:
An XML specification " keyValue="xmlSpec"/>
    <keyedReference tModelKey="uuid:uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b5"
keyName="uddi: An ebXML specification" keyValue="ebXMLSpec"/>
    <keyedReference tModelKey="uuid:uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b7"
keyName="uddi: Using ebXML Messaging messages " keyValue="ebXMLMessagingSpec"/>
  </categoryBag>
</tModel>
```

## 2.6 The ebXML Collaboration Protocol Profile (CPP) tModel

This tModel represents the CPP portion of the specification.

```
<tModel tModelKey="uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690ba">
  <name>ebXML Collaboration Protocol Profile </name>
  <description lang="en">ebXML conformant CPP</description>
  <overviewDoc>
    <description lang="en">EbXML CPP Specification</description>
    <overviewURL>http://www.ebxml.org/specs/ebCCP.pdf</overviewURL>
  </overviewDoc>
  <categoryBag>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
keyName="uddi: A specification " keyValue="specification"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="uddi:
An XML specification " keyValue="xmlSpec"/>
    <keyedReference tModelKey="uuid:uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b5"
keyName="uddi: An ebXML specification" keyValue="ebXMLSpec"/>
  </categoryBag>
</tModel>
```

## 2.7 The ebXML Collaboration Protocol Agreement (CPA) tModel

This tModel represents the CPA portion of the specification.

```
<tModel tModelKey="uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690bb">
  <name>ebXML Collaboration Protocol Agreement</name>
  <description lang="en">ebXML conformant CPA</description>
  <overviewDoc>
    <description lang="en">EbXML CPA Specification</description>
    <overviewURL>http://www.ebxml.org/specs/ebCCP.pdf</overviewURL>
  </overviewDoc>
  <categoryBag>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
keyName="uddi: A specification " keyValue="specification"/>
    <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="uddi:
An XML specification " keyValue="xmlSpec"/>
    <keyedReference tModelKey="uuid:uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b5"
keyName="uddi: An ebXML specification" keyValue="ebXMLSpec"/>
  </categoryBag>
</tModel>
```

## 2.8 The ebXML Business Process Specification Schema tModel

This tModel represents the BPSS specification.

```
<tModel tModelKey="uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690bc">
  <name>ebXML Business Process</name>
  <description lang="en">ebXML conformant BP</description>
  <overviewDoc>
```

```

209     <description lang="en">EbXML BP Specification</description>
210     <overviewURL>http://www.ebxml.org/specs/ebBPSS.pdf</overviewURL>
211     </overviewDoc>
212     <categoryBag>
213         <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
214 keyName="uddi: A specification " keyValue="specification"/>
215         <keyedReference tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4" keyName="uddi:
216 An XML specification " keyValue="xmlSpec"/>
217         <keyedReference tModelKey="uuid:uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b5"
218 keyName="uddi: An ebXML specification" keyValue="ebXMLSpec"/>
219         <keyedReference tModelKey="uuid:uuid:563726c8-bbb4-c5ec-768b-7d5c4fb690b7"
220 keyName="uddi: Using ebXML Messaging messages " keyValue="ebXMLMessagingSpec"/>
221     </categoryBag>
222 </tModel>
223
224

```

### 3. Summary and Next Steps

8 tModels have been described that can now be used when defining the UDDI registrations of ebXML compliant services.

Two key Use Cases are enabled through the use of these tModels: 1) Using UDDI as a Registry of ebXML Registries; and 2) Using UDDI as a Registry of ebXML Services.

Global discovery of ebXML related services will be accomplished by utilizing these tModels and then registering ebXML services appropriately within UDDI. Subsequent notes to this team will examine these Use Cases in detail.