UDDI
Universal Description, Discovery and Integration

- Describe and publish service
- Look up and discover service
- Bind and integrate
UDDI

Platform-neutral, distributed, global specification built on top of SOAP

- Structure for business registries
- API for the programmers
- Not a fully-blown directory service
Nodes and Registries

- **Node**: A UDDI server that supports at least the minimum set of functionality defined in the specification.

- **Registry**: Composed of one or more nodes

- **Affiliated registries**: Individual UDDI registries that implement policy-based sharing of information among them.
Business Registries

- White Pages
- Name
- Contact Information

- Yellow Pages
- Services
- Product Index to the services

- Green Pages
- Specific to the functionality of the service provision
UDDI Data Model

• A description of a service’s business function (called the businessService)

• Information about the organization that published the service (businessEntity)

• The service’s technical details (bindingTemplate), including a reference to the service’s programmatic interface or API, and

• Various other attributes or metadata such as taxonomy, transports, digital signatures, etc. (tModels)

• Relationships among entities in the registry (publisherAssertion)

• Standing requests to track changes to a list of entities (subscription)
UDDI Data Structures

- Business
- Registration information

- Service
- High-level description

- Binding
- Semantic definition for invocations

- Specification for service
- Behavior and programming interface to service
UDDI API

- Inquiry
- Browse
- Drill-down
- Invocation
- Publishing
UDDI Benefits

- Global visibility
- Ad-hoc service integration
- Data and platform independence
- Economic scalability for future expansions

The original vision of UDDI to create various Public registries did not catch on but it became a great tool to create private registries.