



IBM Software Group

IBM® WebSphere® Business Modeler V6.1

Integration with WebSphere Service Registry and Repository



@business on demand.

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This presentation will discuss the support for the IBM WebSphere Service Registry and Repository in WebSphere Business Modeler V6.1

WebSphere Service Registry and Repository

- Is a searchable repository of services
- Helps to manage the reuse of existing services in the enterprise
- WebSphere business modeler 6.1 provides an interface to the *WebSphere Service Registry and Repository*
- Enables the business analyst to search for and retrieve existing services that can be used in modeling business processes



WebSphere Business Modeler provides an interface to the WebSphere Service Registry and Repository, which is a searchable database of available services.

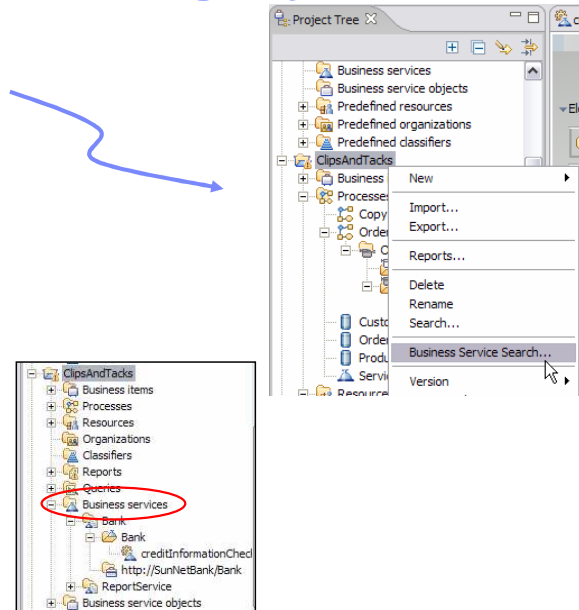
It enables you to publish, find, enrich, manage and govern services in your Service Oriented Architecture.

If you know that the business process you're working on is composed of services that already exist in the enterprise, then you can retrieve the interface specification and data descriptions from the repository. This ensures consistency and enables reuse.

For more information about the capabilities of the WebSphere Service Registry and Repository visit the product Web site.

Using WebSphere Service Registry and Repository

- Access is provided from the project pop-up menu.
- This will invoke a series of dialogs that will guide the analyst through...
 - ▶ setting up the connection to the repository
 - ▶ searching for existing Web services
 - ▶ retrieving the Web service
- When the Service is retrieved it is placed in the *Business Services* folder in the project tree.



Before using the WebSphere Services Registry and Repository from WebSphere Business Modeler, it must be installed and populated with information.

To use the WebSphere Services Registry and Repository you will also need to have the connection and security information.

To locate a service you begin by selecting the business search service from the pop-up menu for the project. There is a wizard that will guide you through the available search options. When you've located the service or data definitions you need they are retrieved and placed in the business services folder of your project.

Ontology support

- WebSphere Business Modeler also supports the use of ontology systems in WebSphere Service Registry and Repository.
- You use classifications in the WebSphere Service Registry and Repository server to...
 - ▶ limit the number of business service and business service objects returned in a business service search.
- When you click the **Search Properties** button in the Business Service Search wizard,
 - ▶ The window that opens now has a classifications tree.
 - ▶ You can select which classifications a business service or business service object must have by enabling the corresponding classifications.



When working with reusable assets in a large enterprise, it's not always possible to know exactly which service you need. There can be several services with similar functionality at various stages of development. Or it can be that you have a description of what the service does, such as mortgage calculator, but do not know the exact name of it. This is where the WebSphere Services Registry and Repository comes into play.

The WebSphere Services Registry and Repository has the facilities to associate metadata with the services which can be used to help with searches. The metadata is organized into a classification tree. Using the search properties available in the classification tree you can formulate a query that will return a subset relevant to your needs.

For example, you have several kinds of mortgage calculators, each specific to a different geographical region. Using the ontology support for WebSphere Services Registry and Repository you can create an attribute that describes each kind of mortgage calculator and use the description to search for and return the kind you need.

Preferences

- **Query service host address field replaces**
 - ▶ **Address field**
- **Classification service host address field is new.**

Edit WebSphere Service Registry and Repository Server

Name: WSRR Server

Query service host address: <https://9.125.129.50:9443/WSRRCoreSDO/services/WSRRCoreSDOPort>

Classification service host address: https://9.125.129.50:9443/WSRROntologyWS/services/WSRR_Ontology_Port

Description:

Connect to server with security

Security

User ID: zhafty

Password:

KeyStore file: D:\Modeler WSRR Support\Defect 155928\DummyClientKeyFile.jks

KeyStore type: JKS

KeyStore password:

TrustStore file: D:\Modeler WSRR Support\Defect 155928\DummyClientTrustFile.jks

TrustStore type: JKS

TrustStore password:

Test connection successful

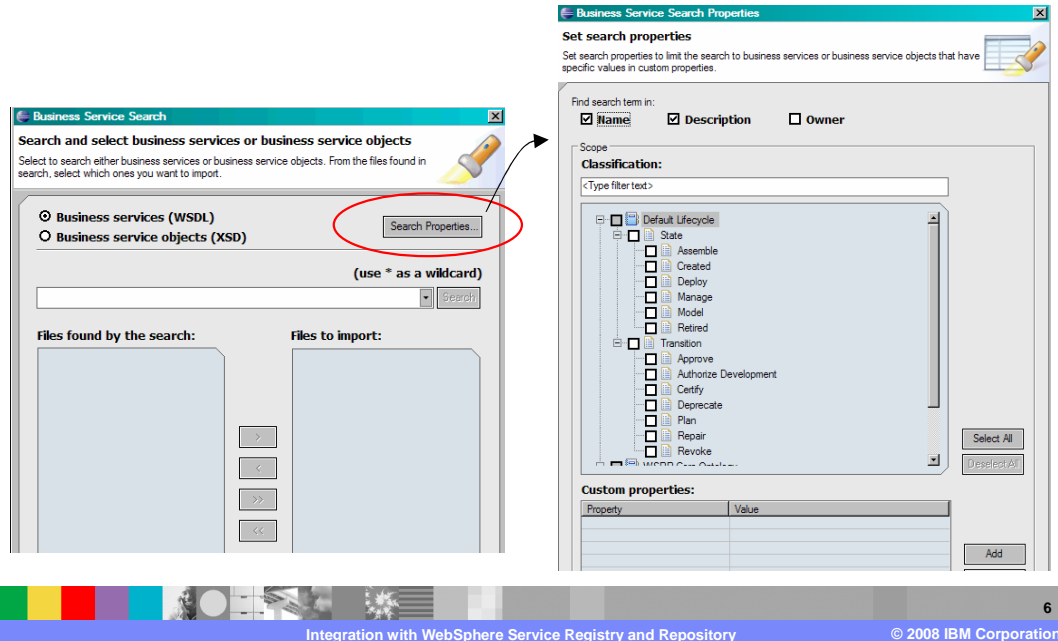


When you first access the WebSphere Services Registry and Repository you need to have the connection and security information available.

You'll need to know the address of both the query service and the classification service.

Next you will need to have a user ID and password along with keystore and truststore information. Once all the information is entered, you can test the connection to make sure you have everything setup correctly.

Business service search



Once the connection is made you can use the interface shown here to search for your Web service and or business object definitions.

First notice the radio buttons in the dialog on the left. You can search for either a business service interface, the WSDL or a business service object definition, the XSD.

The entry field on the first screen can be used when you have a simple search and some idea of the name being used. The results are returned and listed in the 'files found' list. You then select the ones you want to retrieve and then using the buttons between the two lists, push them over to the 'files to import' list.

If you need a more refined search, based on properties that are part of the metadata then you select the 'search properties' button. This will give you the 'set search properties' dialog shown on the right. Here you can select the properties to search on. You can search by the name, the description, the owner or the properties in the classification tree. Notice that the selections are not mutually exclusive.

Summary

- WebSphere Business Modeler 6.1 provides an interface to the *WebSphere Service Registry and Repository*.
- Enables the business analyst to search for and retrieve existing services that can be used in modeling business processes.
- Helps to manage the reuse of existing services in the enterprise.



Support for the IBM WebSphere Services Registry and Repository in WebSphere Business Modeler V6.1 is an incremental step in the overall Service Oriented Architecture enablement for the WebSphere Business Integration suite of development tools.

With a query interface to the WebSphere Services Registry and Repository the business analyst can easily locate and incorporate the correct service interfaces for their business processes. Having the service definitions available in a repository will decrease the development time and increase the consistency throughout the enterprise, fostering reuse of the service components.

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