

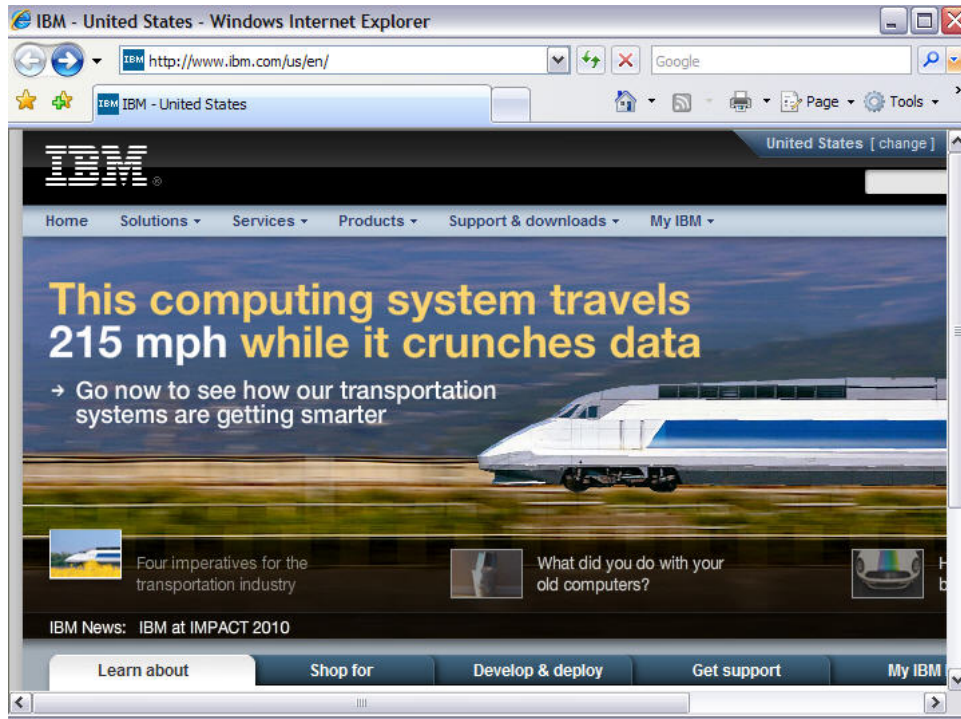
IBM WEBSHERE ADAPTER FOR JDBC V7.0 – REFERENCES

WebSphere adapter for JDBC references

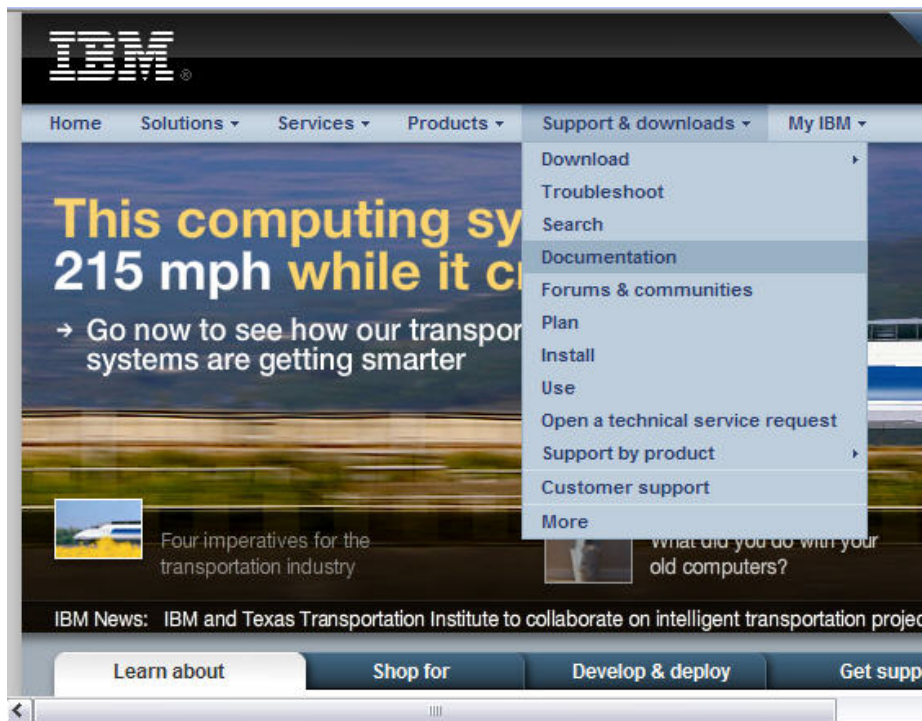
Part 1: How to find WebSphere adapters information center	2
Part 2: Select sample from information center.....	6
Part 3: How to browse and search different topics for JDBC adapter	9
Part 4: WebSphere adapter for JDBC Technotes.....	11
Part 5: Enterprise information system related information.....	15
Part 6: Runtime and tools document link	16
Part 7: WebSphere adapter forum	17

Part 1: How to find WebSphere adapters information center

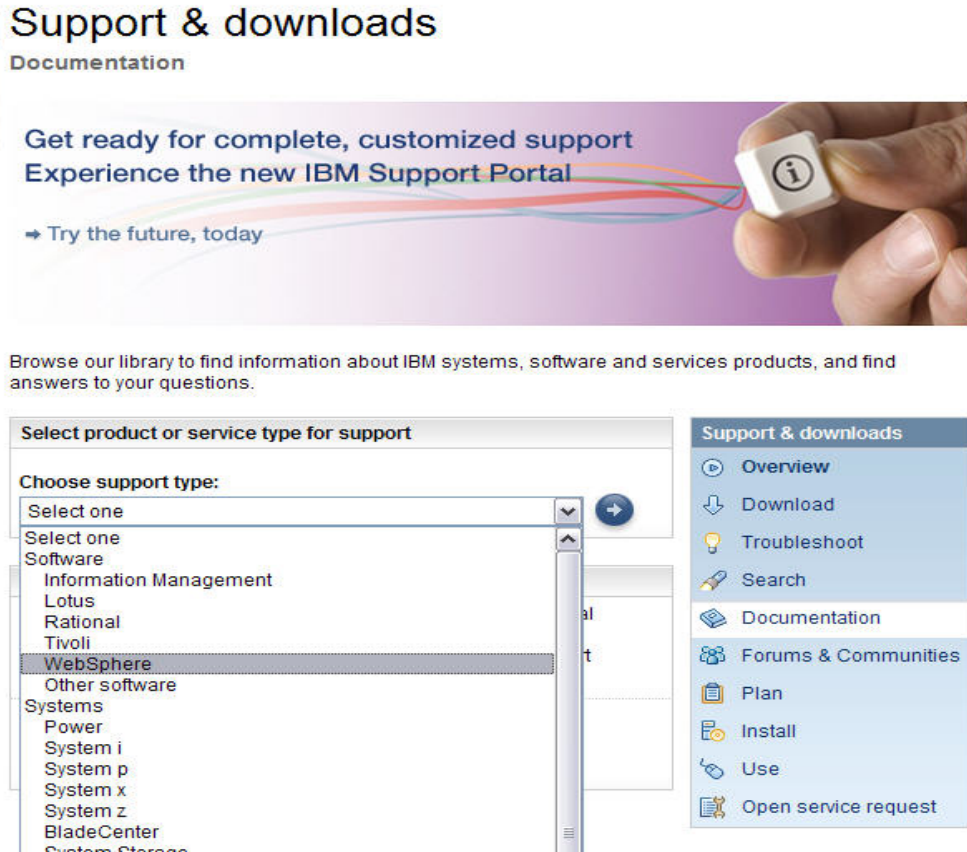
- ___ 1. Open Web browser and type <http://www.ibm.com> in the browser address field.



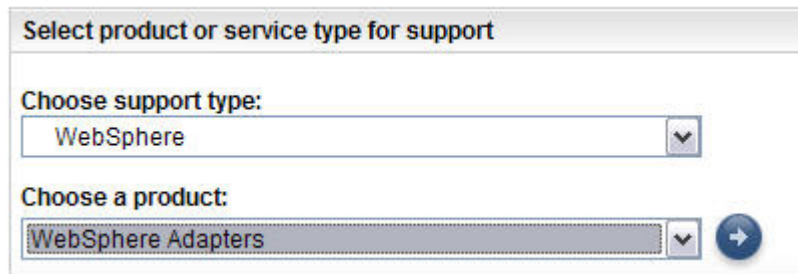
- ___ 2. Click the Support & downloads
___ a. Select **Documentation**



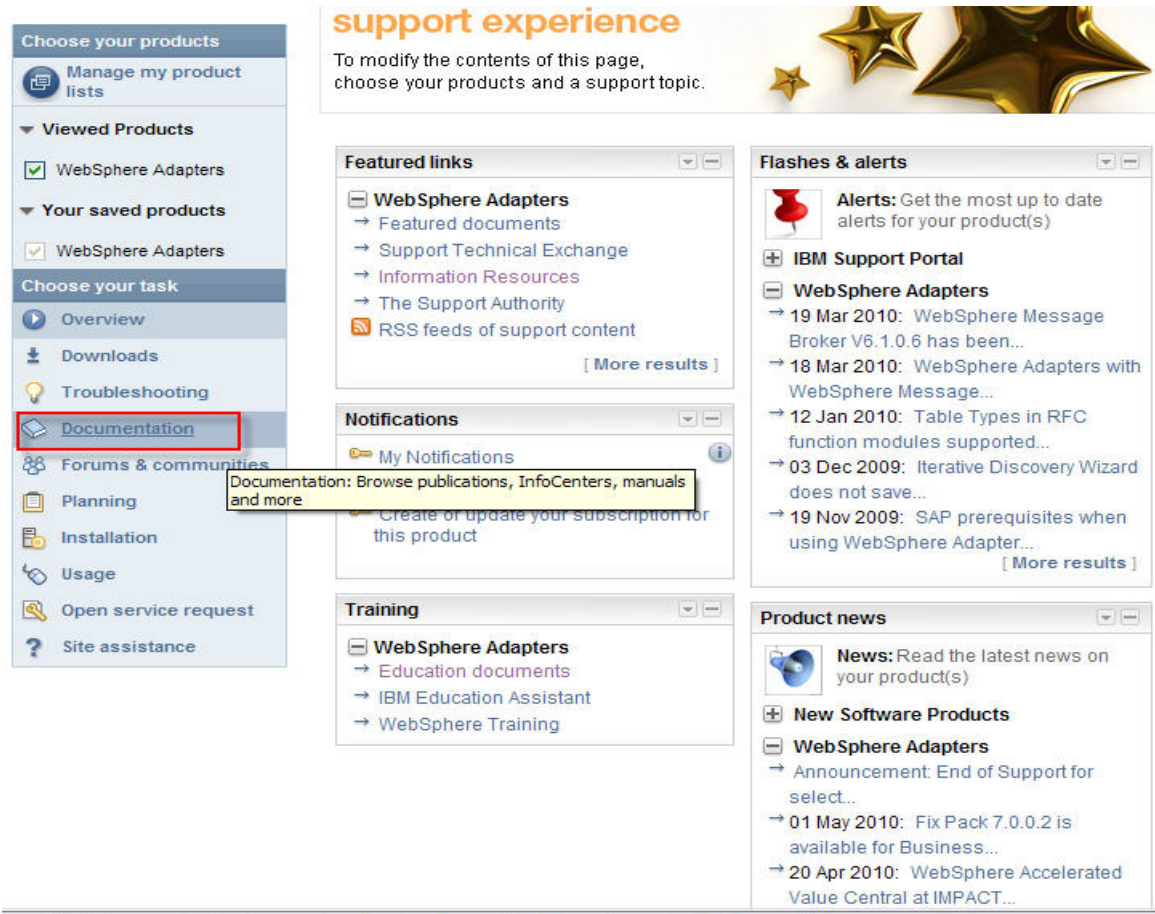
- ___ 3. Select **WebSphere** under Software category from support type dropdown list



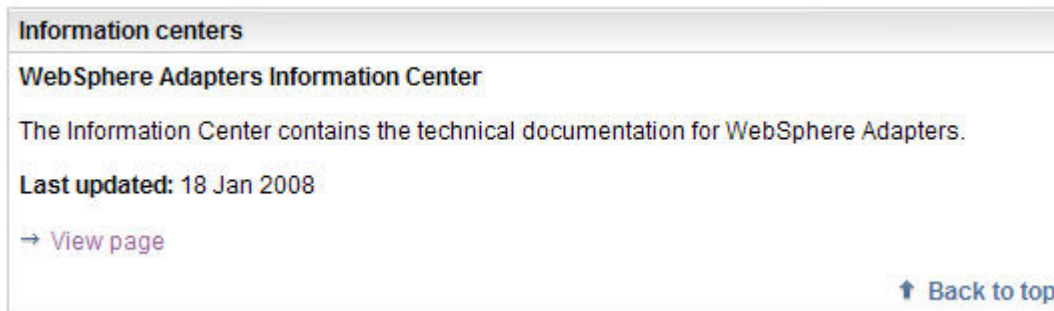
- ___ 4. Select **WebSphere adapters** and click  to continue



- ___ 5. Once you are at support overview page, select **Documentation** link under Choose your task box



- ___ 6. From there, select **Information Center** under WebSphere adapters
- ___ 7. Scroll down to Information Center category and click View page to view WebSphere adapters links



- ___ 8. Click **View page** to view information centers page
- ___ 9. Select the adapter version you want to view. For example, WebSphere adapters, V7.0
 - ___ a. Option to choose to view documentation online or to download to local system.

Information Center

This page contains links to the technical documentation sets for the following versions of WebSphere Adapters:

- ↓ [WebSphere Adapters, version 7.0](#)
- ↓ [WebSphere Adapters, version 6.2](#)
- ↓ [WebSphere Adapters, version 6.1](#)
- ↓ [WebSphere Adapters, version 6.0.2, Adapter for SAP Software, fix pack 6.0.2.1, and Adapter for JDBC, fix pack 6.0.2.2](#)
- ↓ [WebSphere Adapters, version 6.0](#)
- ↓ [WebSphere Business Integration Adapters](#)

WebSphere Adapters, version 7.0

View documentation online

- ➔ [WebSphere Adapters documentation in WebSphere Integration Developer, version 7.0, information center](#)
- ➔ [WebSphere Adapters documentation in Rational Application Developer, version 7.5.5, information center](#)

Download documentation

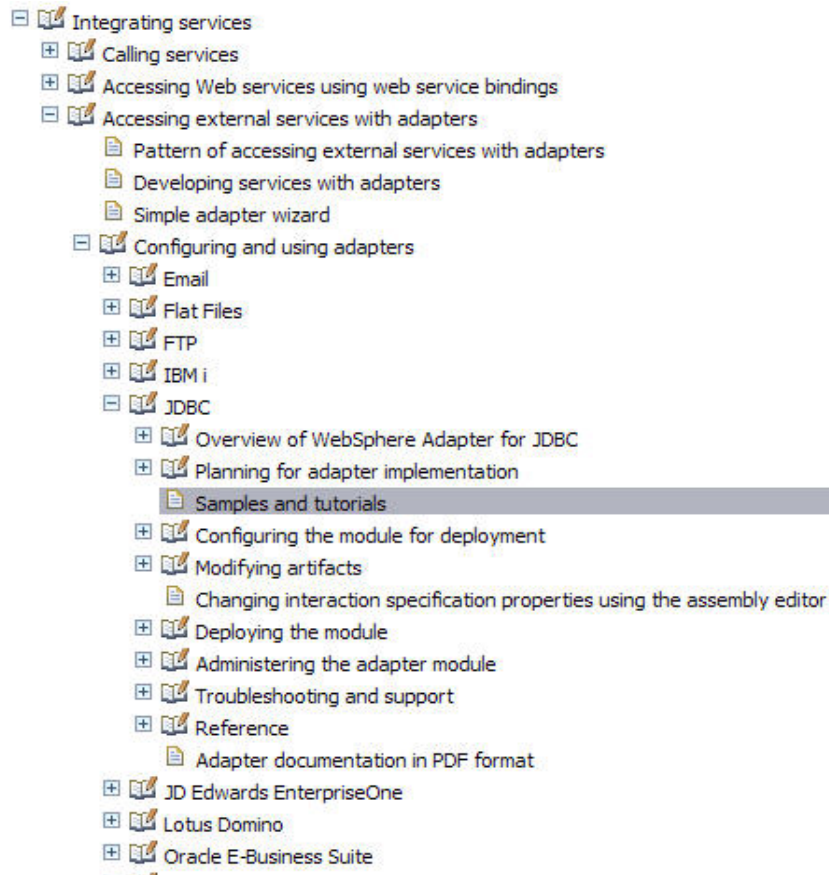
- ➔ [WebSphere Adapters documentation in WebSphere Integration Developer, version 7.0, in PDF format](#)
- ➔ [WebSphere Adapters documentation in Rational Application Develop, version 7.0, in PDF format](#)
- ➔ [WebSphere Adapters SAP and JDBC Education packages](#)

10. Select the type of adapters you want to view

The screenshot shows the IBM WebSphere Information Center interface. At the top, there is a navigation bar with links for Home, Products, Services & solutions, Support & downloads, and My account. Below this is a search bar and a 'GO' button. The main content area is divided into two columns. The left column is a 'Contents' sidebar with a tree view of topics. The right column is the main content area, which is titled 'Configuring and using adapters'. This section includes an introductory paragraph and five sub-sections, each with a link and a brief description: 'WebSphere Adapter for Email', 'WebSphere Adapter for Flat Files', 'WebSphere Adapter for FTP', 'WebSphere Adapter for IBM i', and 'WebSphere Adapter for JDBC'.

Part 2: Select sample from information center

___ 1. Click **Samples and Tutorials** link under JDBC adapter



___ 2. Samples and Tutorials page will open on the right panel

___ 3. Click the link pointing to the samples and tutorials for WebSphere adapter

___ 4. A new pop up window opens

___ a. Expand **Adapters and Data Handlers**

WebSphere software *Business Process Management*
Samples & Tutorials

- ▣ Home **V7.0**
- ▣ What is new
- ▣ Getting started
- ▣ Advanced BPEL features
- ▣ Process modeling techniques
- ▣ Interaction with processes and human tasks
- ▣ Human Task features
- ▣ Mediation features
- ▣ SDO Programming
- ▣ Adapters and data handlers
 - WebSphere Adapter for Email
 - WebSphere Adapter for Flat Files
 - WebSphere Adapter for FTP
 - WebSphere Adapter for IBM i
 - WebSphere Adapter for JDBC
 - WebSphere Adapter for JD Edwards EnterpriseOne
 - WebSphere Adapter for Lotus Domino
 - WebSphere Adapter for Oracle E-Business
 - WebSphere Adapter for PeopleSoft
 - WebSphere Adapter for SAP Software
 - WebSphere Adapter for Siebel Business Applications
 - Integration Sample for WebSphere Adapters
 - Sample WebSphere Adapter for EISS

Getting started

The samples of this section are intended for beginners of business integration using adapters. They show the basic features of various adapters for enterprise information systems and technologies. They describe the most important steps for using the adapters in business integration.

Explore the samples in this section and learn how to:

- use adapters in business processes
- use the most common outbound and inbound integration scenarios using adapters
- run adapter applications in the WebSphere Integration Developer test environment
- install adapter applications on WebSphere Process Server
- uninstall adapter applications from WebSphere Process Server

Prerequisites:

- To work with the samples, basic knowledge of EIS system (e.g SAP) or technology (e.g JDBC) is required.
- To build the samples and to inspect the provided workspaces, you need WebSphere Integration Developer.
- To run the sample processes, you need WebSphere Process Server.

5. **Select WebSphere Adapter for JDBC**

a. The Introduction page opens on the right panel

WebSphere Adapter for JDBC Samples

| Introduction | Build it Yourself | Download |

Introduction

The samples in this section are intended for intermediate users of the WebSphere Adapter for JDBC. They show how to use various interfaces supported by the adapter. Samples are provided for bidirectional data exchange with database management systems.

Explore the samples in this section and learn how to:

- Generate required business objects, Service descriptions and other artifacts
- Execute Stored Procedures on different databases with the JDBC outbound business service
- Work with different databases -like Oracle, DB2, MS SQL Server- to exploit the database-specific features
- Utilize advanced features of the adapter like Batch SQL query execution and Prepared Statement cache

6. From the download link, select to download the tutorials you want to test.

Download

WebSphere Adapter for JDBC Samples

The following project interchange files contains the sample files for reference. To download the project interchange file, click the following links:

- Sample to demonstrate creating stored procedures in Oracle : [Tutorial1.zip](#)
- Sample to demonstrate creating stored procedures in SQLServer : [Tutorial2.zip](#)
- Sample to demonstrate Oracle StructArray : [Tutorial3.zip](#)
- Sample to demonstrate the Batch SQL functionality : [Tutorial4.zip](#)
- Sample to demonstrate inbound functionality : [Tutorial5.zip](#)
- Sample to demonstrate executing stored procedures in DB2 : [Tutorial6.zip](#)
- Sample to demonstrate using an XA Datasource to establish connection to DB2 database : [Tutorial7.zip](#)
- Sample to demonstrate using an XA Datasource to establish connection to Oracle database : [Tutorial8.zip](#)
- Sample to demonstrate PreparedStatementCache in Oracle : [Tutorial9.zip](#)
- Sample to demonstrate WrapperBO in Oracle : [Tutorial10.zip](#)
- Sample to demonstrate executing stored procedures in SQLServer : [Tutorial11.zip](#)
- Sample to demonstrate user-defined queries and using the RetrieveAll operation with DB2 database : [Tutorial12.zip](#)
- Sample to demonstrate checking for the existence of a Business Object : [Tutorial13.zip](#)
- Sample to demonstrate generating wrapper business objects for Inbound : [Tutorial14.zip](#)

The following script files support quicker execution of the sample files. To download these SQL scripts, click the following links:

- Tutorial SQL scripts : [Scripts.zip](#)

Part 3: How to browse and search different topics for JDBC adapter

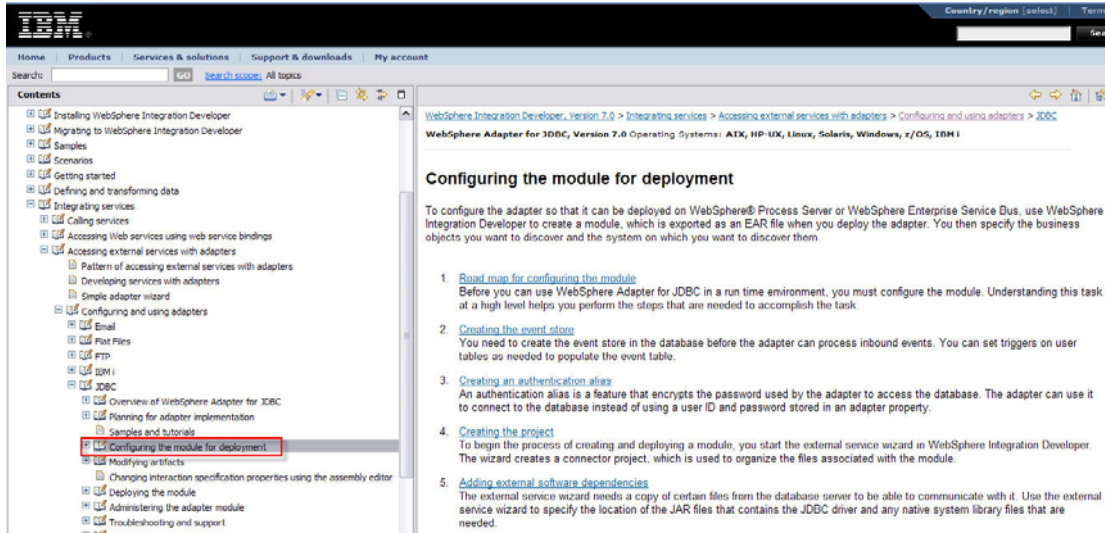
1. You can browse the overview of JDBC adapter for introduction to the adapter

The screenshot shows the IBM WebSphere Adapter for JDBC documentation page. The left sidebar contains a 'Contents' tree with 'Overview of WebSphere Adapter for JDBC' highlighted. The main content area displays the title 'Overview of WebSphere Adapter for JDBC' and a paragraph: 'With WebSphere® Adapter for JDBC, you can create integrated applications that include the exchange of information with a database. By using the adapter, an application can send requests to the database, as well as receive events from the database, often without the need for SQL code.' Below this is a detailed paragraph about the adapter's capabilities, including two-way communication and support for various database vendors.

2. **Configuring the module for deployment** provides roadmap from creating adapter module to deploying it to runtime

The screenshot shows the IBM WebSphere Adapter for JDBC documentation page. The left sidebar contains a 'Contents' tree with 'Configuring the module for deployment' highlighted. The main content area displays the title 'Configuring the module for deployment' and a paragraph: 'To configure the adapter so that it can be deployed on WebSphere® Process Server or WebSphere Enterprise Service Bus, use WebSphere Integration Developer to create a module, which is exported as an EAR file when you deploy the adapter. You then specify the business objects you want to discover and the system on which you want to discover them.' Below this is a numbered list of five steps: 1. Road map for configuring the module, 2. Creating the event store, 3. Creating an authentication alias, 4. Creating the project, and 5. Adding external software dependencies.

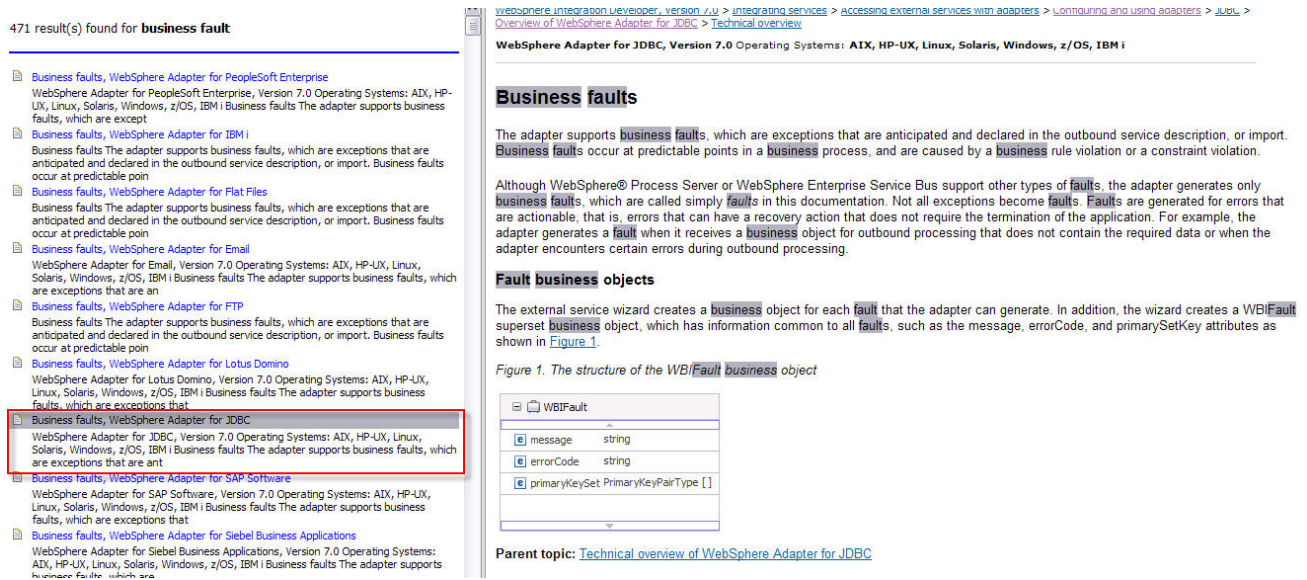
3. The **Troubleshooting and support** section provides solutions to common problems that you might encounter with JDBC adapter



4. Type in adapter related key word to search for adapter topics.

a. For example, search for business fault

b. Choose the list topic that is most close to the component you want. In this case, you can select **Business fault, WebSphere adapter for JDBC**



Part 4: WebSphere adapter for JDBC Technotes

- ___ 1. Search site for Technotes

<http://www.ibm.com/support/us/en/>

- ___ 2. Recommended fixes for WebSphere adapters

<http://www-01.ibm.com/support/docview.wss?doc=aimadp&rs=695&uid=swg27010397>

- ___ 3. Frequently asked questions specific to database server or JDBC driver

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSMKUK&dc=DB560&dc=DB520&uid=swg21399321&loc=en_US&cs=utf-8&lang=en

- ___ 4. Compatibility Matrix

- ___ a. WebSphere Business Integration adapters and WebSphere adapters (JCA)

http://www-01.ibm.com/support/docview.wss?rs=0&q1=adapter+matrix&uid=swg21252626&loc=en_US&cs=utf-8&lang=en

- ___ 5. WebSphere adapter for JDBC V7.0 software requirements

<http://www-01.ibm.com/support/docview.wss?uid=swg27016752>

- ___ 6. Adapter for JDBC and MySQL database support

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSMKUK&q1=mysql&uid=swg21257790&loc=en_US&cs=utf-8&lang=en

- ___ 7. Sample SQL scripts for generating tables and triggers in i5/OS

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21248010&loc=en_US&cs=utf-8&lang=en

- ___ 8. How to change the schema where the tables are stored without regenerating the inbound/outbound from External Service wizard?

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSMKUK&q1=1383179&uid=swg21383179&loc=en_US&cs=utf-8&lang=en

- ___ 9. WebSphere JDBC adapter is locking rows on database table and causing other applications to timeout accessing same tables

<http://www-01.ibm.com/support/docview.wss?uid=swg21316337>

- ___ 10. Incorrect binary data is returned when WebSphere JDBC adapter performing a query against DB2/AS400

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSCV62U&dc=DB560&dc=DB520&uid=swg21375412&loc=en_US&cs=utf-8&lang=en

- ___ 11. Instruct how to implement an auto-generated/identity column by means of a database sequence when JDBC adapter connects to Oracle database

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSCV62U&dc=DB560&dc=DB520&uid=swg21379876&loc=en_US&cs=utf-8&lang=en

- ___ 12. WebSphere Adapter for JDBC throws recordNotFoundException

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSMKUK&q1=unordered&uid=swg21390860&loc=en_US&cs=utf-8&lang=en

- ___ 13. JR29348: JDBC JCA ADAPTER 6.X JDBC ADAPTER THROWS EXCEPTION IF RETRIEVINGDATA DOES NOT FIND ANY RECORD.

<http://www-01.ibm.com/support/docview.wss?rs=695&uid=swg1JR29348>

- ___ 14. RecordNotFoundException may occur when performing a RetrieveAll/Retrieve operation in the WebSphere Integration Developer test client

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21281884&loc=en_US&cs=utf-8&lang=en

- ___ 15. Use XA transaction with IBM WebSphere Adapter for JDBC to connect to the remote DB2 database

http://www-01.ibm.com/support/docview.wss?rs=0&dc=DB500&q1=1373335&uid=swg21373335&loc=en_US&cs=utf-8&cc=us&lang=en

- ___ 16. Using XA transactions for Outbound support with a remote DB2 database

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21236865&loc=en_US&cs=utf-8&lang=en

- ___ 17. Error occurs while starting a transaction on Oracle

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21240695&loc=en_US&cs=utf-8&lang=en

- ___ 18. ESD of JDBC JCA Adapter can not save the MaxNumOfRetRS and ResultSet ASI during generate the BO

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21322802&loc=en_US&cs=utf-8&lang=en

- ___ 19. WebSphere Adapter for JDBC does not support multiple stored procedures with the same name in one schema

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21321642&loc=en_US&cs=utf-8&lang=en

___ 20. Error encountered when using Stored Procedure with return value

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21232722&loc=en_US&cs=utf-8&lang=en

___ 21. ResultSet ASI for stored procedures requires manual intervention for returning a result set

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21248243&loc=en_US&cs=utf-8&lang=en

___ 22. Date type application-specific information for business object attributes refers to columns of type Date and Time

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21242044&loc=en_US&cs=utf-8&lang=en

___ 23. Date and time format for object_key column in event table of WebSphere Adapter for JDBC

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21240920&loc=en_US&cs=utf-8&lang=en

___ 24. Correction to DateType parameter for simple attributes in WebSphere Adapter for JDBC

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSCV62U&dc=DB560&dc=DB520&uid=swg21272710&loc=en_US&cs=utf-8&lang=en

___ 25. How J2CA Adapter works with XML datatype in DB2

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21312805&loc=en_US&cs=utf-8&lang=en

___ 26. BPEL cannot catch specific Business Fault

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSMKUK&q1=fault+BO&uid=swg21322942&loc=en_US&cs=utf-8&lang=en

___ 27. Configuring WSDL file for business faults in JCA Adapter V6.1

<http://www-01.ibm.com/support/docview.wss?rs=695&uid=swg21376614>

___ 28. Multiple connections should be specified for "UNORDERED" event delivery in WebSphere Adapter for JDBC

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSMKUK&q1=unordered&uid=swg21390860&loc=en_US&cs=utf-8&lang=en

___ 29. Could Multiple JDBC Adapter export components coexist in the same SCA module?

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSCV62U&dc=DB560&dc=DB520&uid=swg21382383&loc=en_US&cs=utf-8&lang=en

___ 30. How to set the object_key column value in event table a for composite key

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSCV62U&dc=DB560&dc=DB520&uid=swg21265518&loc=en_US&cs=utf-8&lang=en

___ 31. How to use the WebSphere Adapter for JDBC with the WebSphere Business Integration Adapter for JDBC event table for the user-defined event query

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSCV62U&dc=DB560&dc=DB520&uid=swg21380141&loc=en_US&cs=utf-8&lang=en

___ 32. Implementing archive events function for inbound service of WebSphere Adapter for JDBC

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSCV62U&dc=DB560&dc=DB520&uid=swg21399056&loc=en_US&cs=utf-8&lang=en

___ 33. JDBC adapter cannot find method for native method during inbound process

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSCV62U&dc=DB560&dc=DB520&uid=swg21377324&loc=en_US&cs=utf-8&lang=en

___ 34. Syntax for the SPBeforePoll and SPAfterPoll Activation Specification properties :

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSC9TU9&dc=DB560&dc=DB520&uid=swg21252746&loc=en_US&cs=utf-8&lang=en

Part 5: Enterprise information system related information

___ 1. DB2 information center

___ a. DB2 Linux , UNIX , Windows document link :

http://www-01.ibm.com/software/data/db2/support/db2_9/doc.html

___ b. DB2 z/OS document link:

<http://www-01.ibm.com/software/data/db2/support/db2zos/doc.html>

___ 2. Informix document link

<http://www-01.ibm.com/software/data/informix/se/support/>

___ 3. SQLServer document link

<http://msdn.microsoft.com/en-us/library/ms130214.aspx>

___ 4. Oracle document link

<http://www.oracle.com/technology/documentation/database.html>

___ 5. How to get EIS driver

___ a. JDBC Driver for Linux, UNIX, Windows

http://www-01.ibm.com/support/docview.wss?rs=0&q1=db2+driver&uid=swg21363866&loc=en_US&cs=utf-8&cc=us&lang=en

<http://www-01.ibm.com/support/docview.wss?rs=71&uid=swg27007053>

___ b. JDBC Driver for iSeries

<https://www-03.ibm.com/systems/i/software/toolbox/index.html>

<http://meatwad.rchland.ibm.com/toolbox/downloads.html>

___ c. MicroSoft SQL Server driver link:

<http://msdn.microsoft.com/en-us/data/aa937724.aspx>

___ d. Oracle driver link:

http://www.oracle.com/technology/software/tech/java/sqlj_jdbc/index.html

___ e. Informix driver link:

<http://www14.software.ibm.com/webapp/download/search.jsp?go=y&rs=ifxjdbc>

___ 6. Frequently asked questions relate to EIS :

http://www-01.ibm.com/support/docview.wss?rs=695&context=SSMKUK&dc=DB560&dc=DB520&uid=swg21399321&loc=en_US&cs=utf-8&lang=en

Part 6: Runtime and tools document link

____ 1. WebSphere Process Server doc link

<http://www-01.ibm.com/software/integration/wps/library/>

____ 2. How to configure data source on WebSphere Process Server:

<http://publib.boulder.ibm.com/infocenter/dmndhelp/v7r0mx/topic/com.ibm.websphere.wbpmhelp.doc/com.ibm.ws.console.wbi.dbconfig/index.html>

____ 3. WebSphere Integration Developer documentation link

<http://www-01.ibm.com/software/integration/wid/library/>

Part 7: WebSphere adapter forum

- ____ 1. You can use this link to browse popular questions and add new topic in this forum. We frequently monitor this forum and answer as many questions as possible.

<http://www.ibm.com/developerworks/forums/forum.jspa?forumID=2157&start=0>