

# How to Transfer Data from SYBASE to BI Using UD Connect

## Applies to:

SAP NetWeaver 2004 and SAP NetWeaver 2004s. BW 3.5 & BI 7.0

## Summary

This document describes how to use UD Connect to connect SYBASE system to BW system running on MSSQL. It will give complete flow from connection settings to creating a DataSource .Even though this document describes about connecting SYBASE with UD connect, the steps involved in any database is same as described in this document

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## Author Bio



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## Introduction

UD Connect (Universal Data Connect) uses the Application Server J2EE connectivity to enable the reporting and analysis of both SAP and non-SAP data. UD Connect allows accessing all relational and multidimensional data sources. UD Connect transfers the data as flat data. Multi-dimensional data is converted to a flat format when UD Connect is used.

For the connection to data sources, UD Connect can use the JCA-capable (J2EE Connector Architecture) BI Java Connectors that are available for various drivers, protocols and providers as resource adapters.

- BI JDBC Connector
- BI ODBO Connector
- BI SAP Query Connector
- BI XMLA Connector

Before starting using UD Connect , Please go through the following link to know the pre requisites of UD connect ,basic understanding of BI Java connectors and to transfer the data with UD connect.

[http://help.sap.com/saphelp\\_nw70/helpdata/en/78/ef1441a509064abee6ffd6f38278fd/frameset.htm](http://help.sap.com/saphelp_nw70/helpdata/en/78/ef1441a509064abee6ffd6f38278fd/frameset.htm)

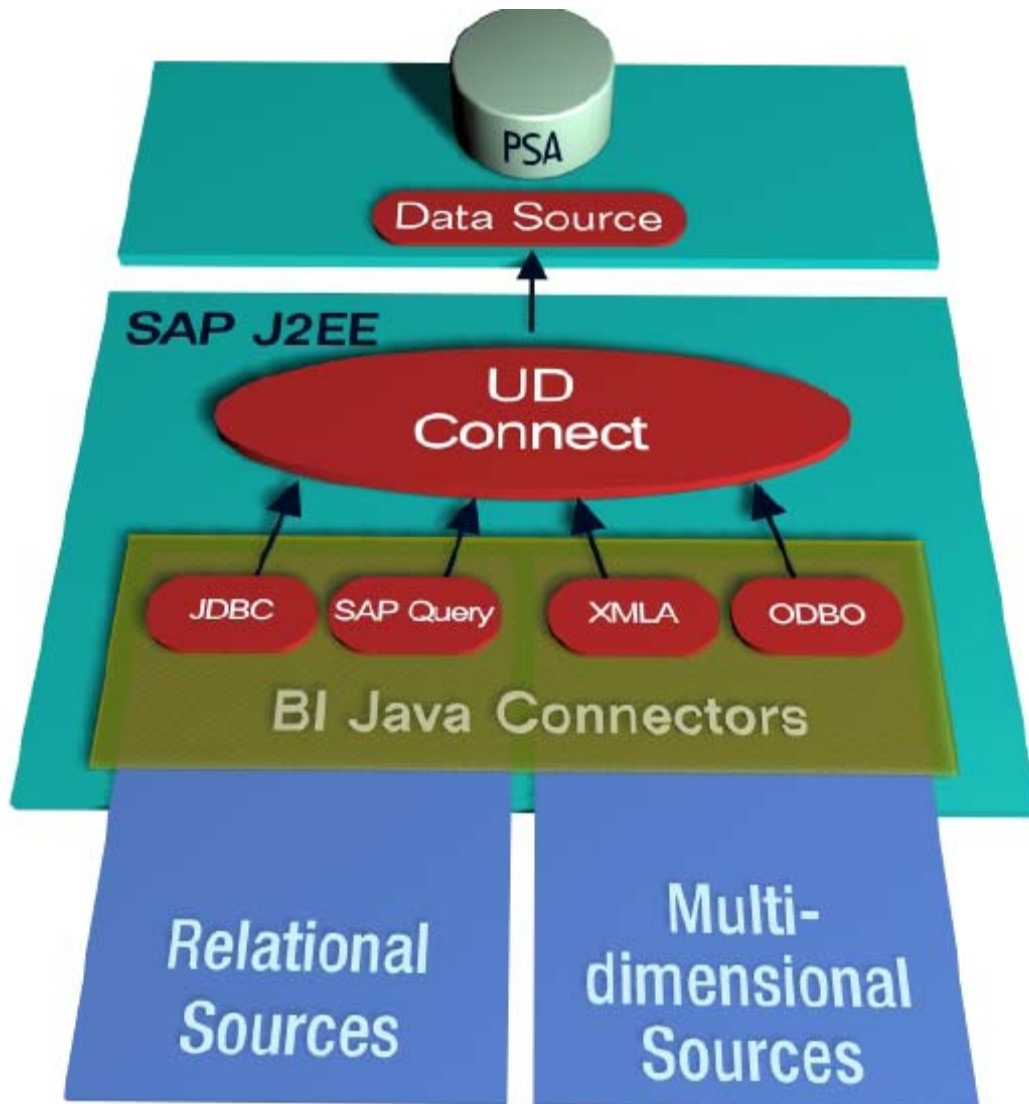
## UD Connect Architecture

Conceptually UD Connect is similar to DB Connect in that it allows connection to remote databases; hence the similar naming of the two interfaces. UD Connect can read the remote data dictionary, replicate table (and view) metadata into the local SAP BW Meta Data Repository, and allow extraction from those tables and views. However, from an architectural and technical point of view the UD Connect interface provides support for a wider variety of data sources due to its support for open, industry standard APIs.

As shown in Figure the UD Connect interface is composed of three major components:

- BI Java Connectors for diverse relational and multidimensional data sources
- The UD Connect J2EE application component
- A generic Data Source using a function module automatically generated by SAP BW.

The BI Java Connectors are Java modules that are deployed onto the SAP J2EE engine. For any application components that are installed on the server, they enable unified access to external data providers such as RDBMS, OLAP or application servers. BI Java connectors comply with the J2EE Connector Architecture (JCA), a specification that defines a standard architecture for integration of J2EE servers with virtually any Enterprise Information System (EIS) as well as a set of requirements which a connector has to implement in order to plug into an application server.



### Step by Step Procedure

Please follow the steps in the attached PDF. The objective of this document is to Update the syntax errors of the following How to do UD document

<https://www.sdn.sap.com/irj/sdn/go/portal/prtroot/docs/library/uuid/58f4db47-0501-0010-a2bf-ff01b150fdff>

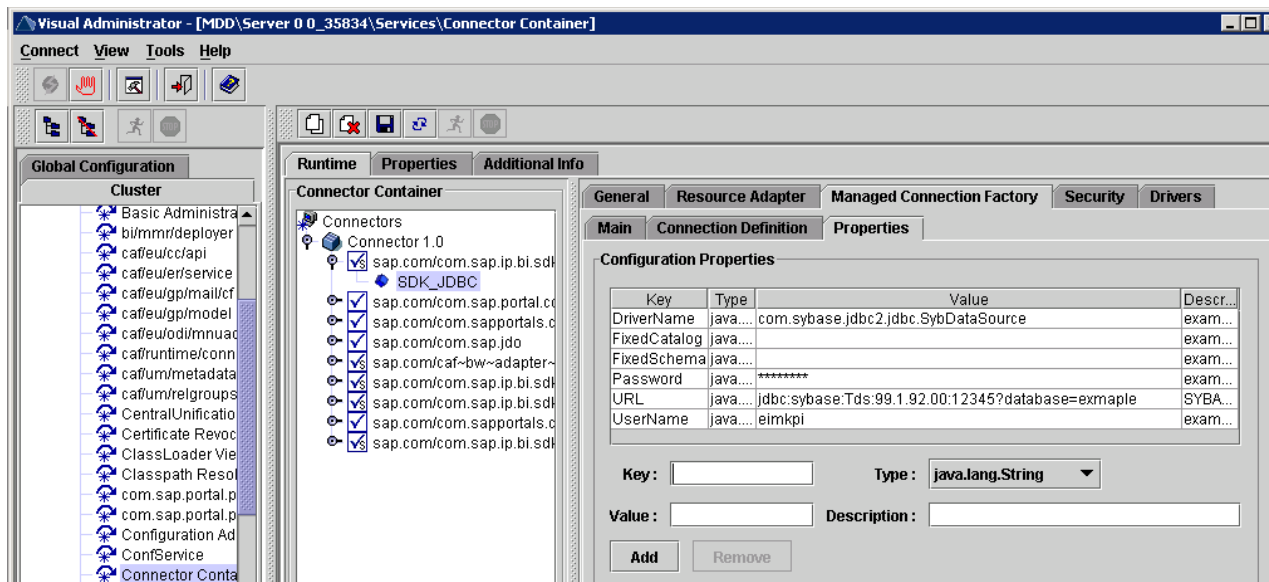
And to give the details creating data sources and frequent problems that occur while using UD connect.

In the article linked above, at Step number 11 you need to specify the driver name and URL details.

For SYBASE use the following:

```

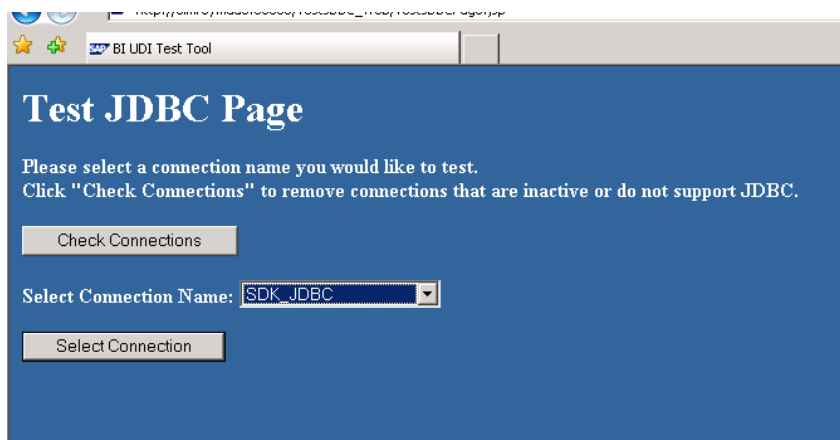
Driver name: com.sybase.jdbc2.jdbc.SybDatasource
URL: jdbc:sybase:Tds:XX.XX.XX.XX:12345?database=example
(jdbc:syabse:Tds:<server>:<port>?database=example)
  
```



The test URL which is mentioned in step12 has been has been changed to the following.

http://<server>:<port>/TestJDBC\_Web/TestJDBCPage.jsp

Select the Connection name as SDK\_JDBC and then click Select Connection button. It will show all the tables in source in database.

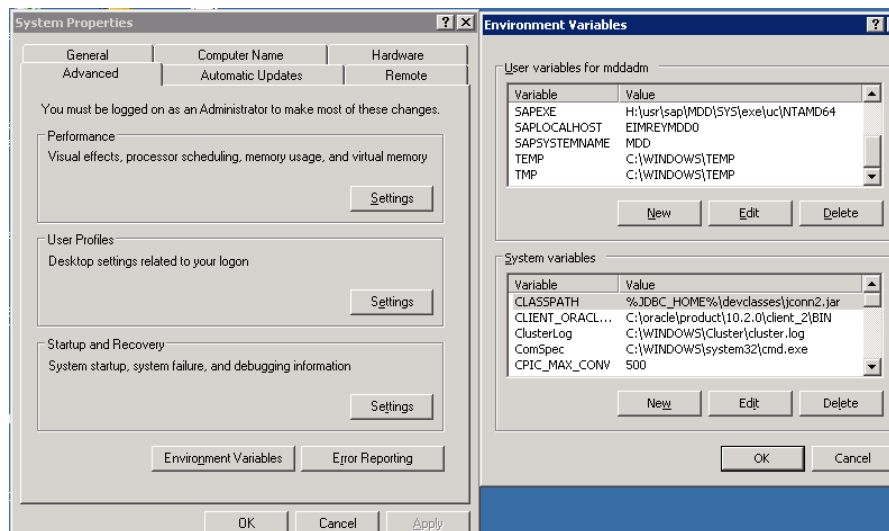


Please refer [Note 1064939 - Default 11.5 IDBC Servers](#) for connecting to various data bases using UD connect and their corresponding drive names and URL's

## Settings at J2EE Visual Administrator

These are the few setting that will help you.

Environment variables: JDBC\_HOME and CLASSPATH variables (on Operation System) these variables must be correct

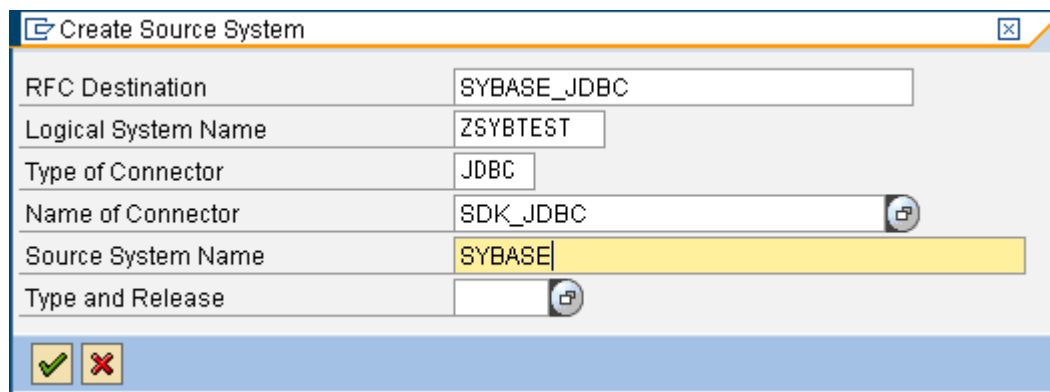


Ensure in running the isql scripts that install stored procedures for function escapes and DatabaseMetaData methods on a database server

Few More setting for Debugging will be explained in the Next session for debugging purpose

## Creating Source System

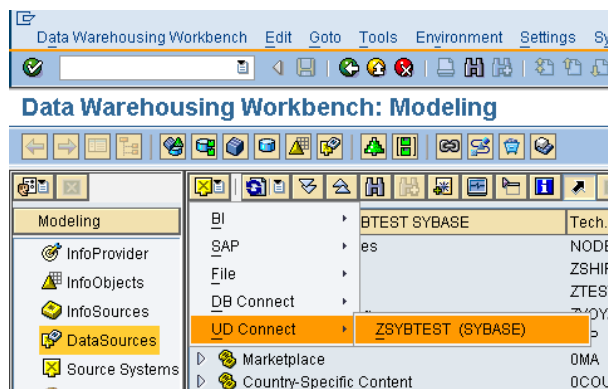
Create the Source system by RSA1-> Source systems-> UD Connect –Right click Create enter the source system details



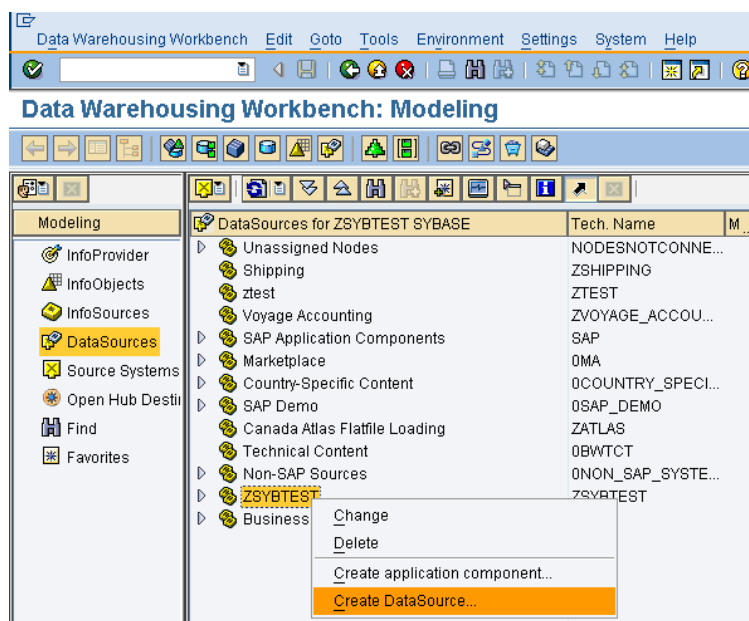
### Create the Data source

Once the Source System is created a datasource can be generated in the following way.

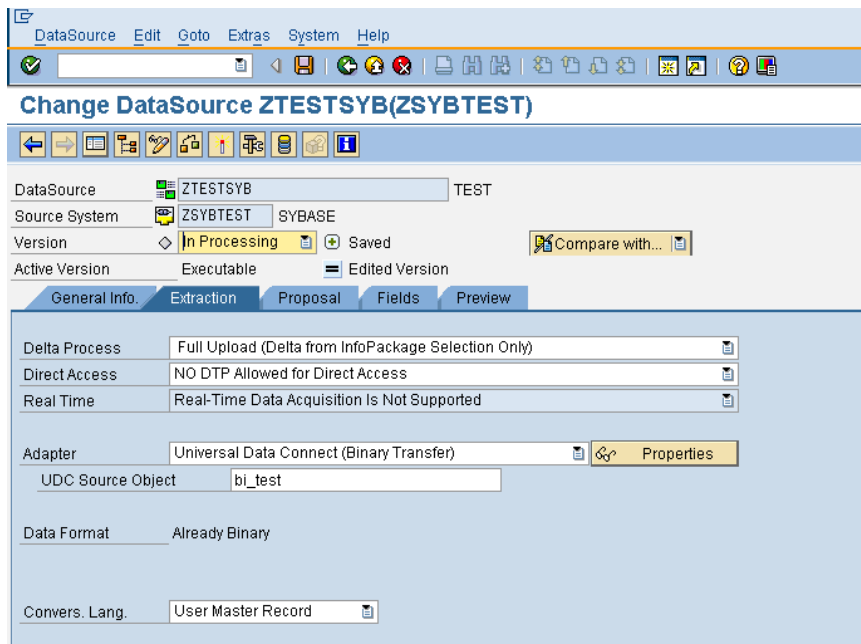
RSA1-Sourcesystems-UDConnect select the Sourcesystem as shown below



After selecting the source system Right click on it to create DataSource



After clicking the Create Datasource, give the name of the data source under general infotab and enter the UDC Source object under the extraction tab as shown(PF4 will give the list of table or type the name )



Select the proposal fields and assign the fields to infoObjects in the proposal & fields tab respectively. After the Click preview to view the data and it will ask for activation, Please Activate.

## Frequent Problems

The Frequent problem you will get is RSSDKXXX (RSSDK400 Field is Empty). To track the error it is always better to have the log files in debug mode.

Make sure that there is no `c:\usr\sap\<instance_ID>\<JC*>|DV*>\j2ee\cluster\server?\log\BI_SDK_Trace.log` present. If there is one then delete or rename it. A new file will be generated.

Please set the log files as given in the note 1004194, also restart the J2EE server which won't take much time.

Please refer to the Sybase JDBC Driver configuration document by the vendor. It's possible that the driver name entered and also the URL values are not correct in the connector container.

Refer to: [http://infocenter.sybase.com/help/topic/com.sybase.help.jconnjdbc\\_6.05.jconnig/jconnig.pdf](http://infocenter.sybase.com/help/topic/com.sybase.help.jconnjdbc_6.05.jconnig/jconnig.pdf)



## Conclusion

The Data Source is generated and is visible in the DataSource overview for a database source system in the AWB. Create an InfoPackage and load the data to PSA. Then create a DTP and load the data

**Note:** Data can be loaded only via a PSA. We cannot use the Delta Update method with UD Connect. In this case, a delta request is possible using the selections (time stamp, for example).

## Related Content

- [Note 1004194 - UDC: How to create log files for problem analysis](#)
- [Note 1064939 - Default 11.5 IDBC Servers](#)
- [Note 1009063 - UDConnect displays erratic behaviour in loading data](#)
- [http://infocenter.sybase.com/help/topic/com.sybase.help.jconnjdbc\\_6.05.jconnig/jconnig.pdf](http://infocenter.sybase.com/help/topic/com.sybase.help.jconnjdbc_6.05.jconnig/jconnig.pdf)

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