CREATING SQL SERVER DATA SOURCES

This document describes how to create and configure WAS (WebSphere Application Server) JDBC (Java Database Connectivity) data sources for a Standardization Rules Designer installation that uses a SQL Server repository.

Two data sources are required:

- 1. An XA (distributed transaction) data source.
- 2. A non-transactional connection pool data source.

Complete the steps listed below to create each data source.

Create the distributed transaction data source:

- 1. Login to the WebSphere Application Server Administrative Console.
- 2. Expand the **Resources** node in the left pane.
- 3. Expand the **JDBC** node.
- 4. Click Data sources.
- 5. Select the **Scope** for the data source from the drop down list in the right pane.
- 6. Click New.

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- 7. Enter QSSRD Global XA DataSource in the Data source name field.
- 8. Enter *jdbc/RCDBDataSourceXA* in the **JNDI name** field.
- 9. Click **Next**.



10. Select **Create new JDBC provider**. 11. Click **Next**.



12. Enter the information for the JDBC provider:
 Database type: SQL Server
 Provider type: DataDirect ConnectJDBC type 4 driver for MS SQL Server
 Implementation type: XA data source
 Name: QSSRD XA JDBC Provider

13. Click Next.



14. Click Next on the screen that follows. Do not modify this screen.

15. Enter the database information for the data source:

(Note: Values entered should be the same as those specified in the gssrd_repository.properties file that was configured in the Standardization Rules Designer repository registration step. The sample values below illustrate a default configuration.)

Server name: the name of the system that hosts the SQL Server server

Database name: the name of the SQL Server database where the Standardization Rules Designer repository was created

Port number: the port number on which the SQL Server server listens. The default value is 1433.

16. Uncheck Use this data source in container managed persistence (CMP).



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- 18. Select QSSRD Credentials from the **Component-managed authentication alias** drop down list.
- 19. Click Next.
- 20. Click Finish.
- 21. Click Save.



Create the non-transactional connection pool data source:

- 1. If you have not already done so, login to the WebSphere Application Server Administrative Console.
- 2. Expand the **Resources** node in the left pane.
- 3. Expand the **JDBC** node.
- 4. Click Data sources.
- 5. Select the **Scope** for the data source from the drop down list in the right pane.
- 6. Click New.



- 7. Enter QSSRD DataSource in the **Data source name** field.
- 8. Enter *jdbc/RCDBDataSourceNonTx* in the **JNDI** name field.
- 9. Click **Next**.



10. Select Create new JDBC provider. 11. Click Next.



12. Enter the information for the JDBC provider:
 Database type: SQL Server
 Provider type: DataDirect ConnectJDBC type 4 driver for MS SQL Server
 Implementation type: Connection pool data source
 Name: QSSRD JDBC Provider

13. Click Next.



14. Click **Next** on the screen that follows. Do not modify this screen.

15. Enter the database information for the data source:

(Note: Values entered should be the same as those specified in the gssrd_repository.properties file that was configured in the Standardization Rules Designer repository registration step. The sample values below illustrate a default configuration.)

Server name: the name of the system that hosts the SQL Server server

Database name: the name of the SQL Server database where the Standardization Rules Designer repository was created

Port number: the port number on which the SQL Server server listens. The default value is 1433.

16. Uncheck Use this data source in container managed persistence (CMP).



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- 18. Select QSSRD Credentials from the **Component-managed authentication alias** drop down list.
- 19. Click Next.
- 20. Click Finish.
- 21. Click Save.



Modify the QSSRD Data Source to set the user-defined data store helper and the non-transactional data source properties:

- 1. If you have not already done so, login to the WebSphere Application Server Administrative Console.
- 2. Expand the **Resources** node in the left pane.
- 3. Expand the **JDBC** node.
- 4. Click **Data sources**.
- 5. Click **QSSRD DataSource** in the right pane.

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5 Troubleshooting						Default Application	
E Service integration		JReport JDBC	jdbc/JReportDataSource	Node=ipsvm00189Node01,Server=server1	ASB JDBC	Data source	
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		OSSRD DataSource	jdbc/RCDBDataSourceNonTx	Node=ipsvm00189Node01,Server=server1	QSSRD JDBC Provider	DB2 JCC data source using the IBM Data Server Driver for JDBC and SQLJ, IBM	

- Select Specify a user-defined data store helper.
 Enter *com.ibm.is.isf.j2ee.impl.was.ISFSQLServerReadCommittedDataStoreHelper* Click Apply at the bottom of the screen. Do not click Save at this time.

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9. Click WebSphere Application Server data source properties.

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- 10. Uncheck Log missing transaction context.
- 11. Check Non-transactional data source.
- 12. Click **OK** at the bottom of the page.
- 13. Click Save.



Modify the QSSRD Global XA DataSource to set the user-defined data store helper:

- 1. If you have not already done so, login to the WebSphere Application Server Administrative Console.
- 2. Expand the **Resources** node in the left pane.
- 3. Expand the **JDBC** node.
- 4. Click **Data sources**.
- 5. Click **QSSRD Global XA DataSource** in the right pane.

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- 6. Select Specify a user-defined data store helper.
- 7. Enter com.ibm.is.isf.j2ee.impl.was.ISFSQLServerReadCommittedDataStoreHelper
- 8. Click **OK** at the bottom of the page.

9. Click Save.



Modify the QSSRD JDBC Provider to set the correct path for the JDBC driver and the implementation class name:

- 1. If you have not already done so, login to the WebSphere Application Server Administrative Console.
- 2. Expand the **Resources** node in the left pane.
- 3. Expand the **JDBC** node.
- 4. Click JDBC providers.
- 5. Click **QSSRD JDBC Provider** in the right pane.

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- 6. Replace Class path values with \${USER_INSTALL_ROOT}/classes/ISsqlserver.jar
 7. Enter com.ibm.isf.jdbcx.sqlserver.SQLServerDataSource in the Implementation class name field.
- 8. Click **OK**.
- 9. Click Save.

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Modify the QSSRD XA JDBC Provider to set the correct path for the JDBC driver and the implementation class name:

- 1. If you have not already done so, login to the WebSphere Application Server Administrative Console.
- 2. Expand the **Resources** node in the left pane.
- 3. Expand the JDBC node.
- 4. Click JDBC providers.
- 5. Click QSSRD XA JDBC Provider in the right pane.



- 6. Replace **Class path** values with \${USER_INSTALL_ROOT}/classes/ISsqlserver.jar
- 7. Enter *com.ibm.isf.jdbcx.sqlserver.SQLServerDataSource* in the **Implementation class name** field.
- 8. Click **OK**.
- 9. Click Save.

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T Saruare	Configuration	
I Applications	Ceneral Properties	
1) Services	deneral rruperdes	Additional Properties
3 Resources	* Scope cells:ipsym00189Node01Cell:nodes:ipsym00189Node01:servers:serv	er1 Data sources
= Schedulers		Data sources
 Object pool managers 	Name	(WebSphere
⊞ JMS	QSSRD XA JDBC Provider	Application Server V4)
DIDBC	Description	
JDBC providers	DataDirect Connect for JDBC driver for Microsoft SQL	
Data sources	Server (XA).	
 Data sources (WebSphere Application Server V4) 		
🗄 Resource Adapters	Class path	
🗄 Asynchronous beans	\$UISER_INSTALL_ROOT3/classes/ISsolserver.jar	
🗄 Cache instances		
⊞ Mail		
1 URL		
🗄 Resource Environment	Native library path	
E Security		
∃ Environment		
1 System administration		
🗄 Users and Groups	Isolate this resource provider	
E Monitoring and Tuning	* Implementation class name	
∃ Troubleshooting	com.iom.ist.jdbcx.sqlserver.SQLServerDataSource	
🗄 Service integration 📃 💌	Analy OV Barat Control	

The Standardization Rules Designer data source creation step for SQL Server is now complete.