CREATING ORACLE 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 an Oracle 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: User-defined Implementation class name: com.ibm.isf.jdbcx.oracle.OracleDataSource Name: QSSRD XA JDBC Provider
- 13. Click Next.



14. Enter \${USER_INSTALL_ROOT}/classes/ISoracle.jar in the Class path field. 15. Click Next.

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- 16. Enter *com.ibm.is.isf.j2ee.impl.was.ISFOracleDataStoreHelper* in the **Data store helper class name** field.
- 17. Uncheck **Use this data source in container managed persistence (CMP)**. 18. Click **Next**.



- 19. Select QSSRD Credentials from the **Component-managed authentication alias** drop down list.
- 20. Click Next.
- 21. Click Finish.
- 22. 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: User-defined Implementation class name: com.ibm.isf.jdbcx.oracle.OracleDataSource Name: QSSRD JDBC Provider

13. Click Next.



14. Enter \${USER_INSTALL_ROOT}/classes/ISoracle.jar in the Class path field. 15. Click Next.

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- 16. Enter *com.ibm.is.isf.j2ee.impl.was.ISFOracleDataStoreHelper* in the **Data store helper class name** field.
- 17. Uncheck Use this data source in container managed persistence (CMP). 18. Click Next.



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



Modify the QSSRD DataSource to set 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**.

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6. Click WebSphere Application Server data source properties.

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- Uncheck Log missing transaction context.
 Check Non-transactional data source.
- 9. Click **OK** at the bottom of the page. Do not click **Save** at this time.

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10. Click **Custom properties**.

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11. Find and modify the following properties as indicated:

Name	Value
webSphereDefaultIsolationLevel	2
SID	Unique system identifier for the Oracle database
batchPerformanceWorkaround	TRUE
serverName	Database system host name
portNumber	Database system port
queryTimeout	Delete this property

Add the enable2Phase property: 1. Click New.

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Application Server V4)		freeResourcesOnClose	false	Controls whether or not the application server automatically frees Arrays, Blobs, Cl Readers when the object that created them is closed. The ability to free resources the free (or close) method.
El Asynchronous beans El Cache instances El Mail El URL El Resource Environment		<u>userDefinedErrorMap</u>		Overlays existing entries in the error map by invoking DataStoreHelper.setUserDet used to add, change, or remove entries from the error map. Entries are delimited and value, where the key is an error code (numeric value) or SQLState (text endo are separated by = (equals sign). For example, to remove the mapping of SQLSta to DuplicateKeyException, and add a mapping of SQLState 08004 to StaleConnect userDefinedErrorMap:
🗄 Security				arood =/rooz=connon.websphere.te.ch.bdphtatereyexteption, oodd4 =conni
🗄 Environment		beginTranForResultSetScrollingAPIs	false	If beginTranForResultSetScrollingAPIs is enabled, the application server attempts when the connection is not currently enlisted in a transaction and a result set scrol
■ System administration	Г	beginTranForVendorAPIs	false	If beginTranForVendorAPIs is enabled, the application server attempts to begin a
🗄 Users and Groups				WSCallHelper.jdbcCall or WSCallHelper.jdbcPass.
🗄 Monitoring and Tuning		connectionSharing	1	Determines whether connections are shared based on the current state of the conr (0). To coord, with groater group which connection properties are matched by
Troubleshooting				the following constants by adding them together: 1=transaction isolation level, 2=
Service integration	-	webSphereDefaultIsolationLevel	2	Specifies a default transaction isolation level for new connections. Resource Refere
I UDDI			(7)	To configure a default transaction isolation level, use the constants defined by JDE COMMITTED), 4 (REPEATABLE READ), 8 (SERIALIZABLE).
		JDBCBehavior		n na sen en en el contra de la contr Contra de la contra de
		SDUSize		
		SID	xmeta	
lone	1.00			Local intranet Protected Moder Off

- 2. Enter *enable2Phase* in the **Name** field.
- 3. Enter *false* in the **Value** field.
- 4. Select *java.lang.boolean* in the **Type** field.
- 5. Click OK.

6. Click Save.

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= Welcome	Data sources	? _
🗄 Guided Activities	🖯 Messages	
🗄 Servers	⚠ Changes have been made to your local configuration. You can:	
	 <u>Save</u> directly to the master configuration. Review changes before saving or discarding. 	
🗄 Services	The server may need to be restarted for these changes to take effect.	
🖯 Resources		
 Schedulers Object pool managers JDBC JDBC providers Data sources Data sources (WebSphere Application Server V4) Resource Adapters	Data sources > 055RD DataSource > Custom properties > New Use this page to specify custom properties that your enterprise information system (EIS) requires for the resource providers and resources that your configure. For example, most database vendors require additional custom properties for data sources that access the database. Configuration General Properties * Scope cellsiipsym00189Node01Cell:nodes:ipsym00189Node01:servers:server1 * Name enable2Phase Value	
⊞ Security	false	
Environment ■	Description	
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	Apply OK Reset Cancel	
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- Modify the QSSRD Global XA DataSource to set the connection 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 Global XA DataSource.

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E Servers	topic.		galace scandy provides a list o	in cash steps and more gen		boat are
	Scope: Cell=ipsvm00189Node0	1Cell, Node=ipsvm00189Node0	11, Server=server1			
Services	Scope specifies the level	at which the resource definition	is visible. For detailed information on what	t scope is and how		
🛛 Resources	it works, <u>see the scope s</u>	ettings help.		8		
 Schedulers 	Node=ipsvm00189Nod	de01, Server=server1 💌				
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E Security	ASB Staging Repository JDBC DS	jdbc/StagingDataSource	Node=ipsvm00189Node01,Server=server1	ASB Staging Repository JDBC Provider	Data source template	
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System administration					WebSphere	
Users and Groups					Application	
🗄 Monitoring and Tuning	JReport JDBC DataSource	jdbc/JReportDataSource	Node=ipsvm00189Node01,Server=server1	ASB JDBC Provider	Data source template	
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E Service integration	COSSRD Global XA	idbc/RCDBD at a Source XA	Node=insum00189Node01_Server=server1	OSSRD VA IDBC Provider	New IDBC	

6. Click Custom properties.

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7. Find and modify the following properties as indicated:

Name	Value
webSphereDefaultIsolationLevel	2
SID	Unique system identifier for the Oracle database
batchPerformanceWorkaround	TRUE
serverName	Database system host name
portNumber	Database system port
queryTimeout	Delete this property

Add the enable2Phase property:

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🗆 Resources							
= Schedulers	Datas	ources > OSSRD Global XA DataSou	ce > Cust	tom properties			
 Object pool managers 	Use th	is page to specify custom properties	that your	enterprise information system (EIS) requires (for the resource pr		
⊞JMS	vendo	rs require additional custom propertie	s for data	a sources that access the database.			
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🗄 Resource Environment		userDefinedErrorMap		Overlays existing entries in the error map by invoking DataSto used to add, change, or remove entries from the error map. E and value, where the key is an error code (numeric value) or 3 are separated by = (equals sign). For example, to remove the to DuplicateKeyException, and add a mapping of SQLState 08 userDefinedErrorMap: "S1000"=;1062=com.ibm.websphere.ce.cm.DuplicateKeyExcep			
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		JDBCBehavior					
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		SID	xmeta				
1					1		

- 2. Enter *enable2Phase* in the **Name** field.
- 3. Enter *true* in the **Value** field.
- 4. Select *java.lang.boolean* in the **Type** field.
- 5. Click **OK**.
- 6. Click Save.

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