JDBC Adapters



Objectives

After completing this lesson, you should be able to:

- Discuss the adapter architecture
- Identify the types of technology adapters
- Configure and use a Database adapter
- Describe the configuration of runtime connections for adapters



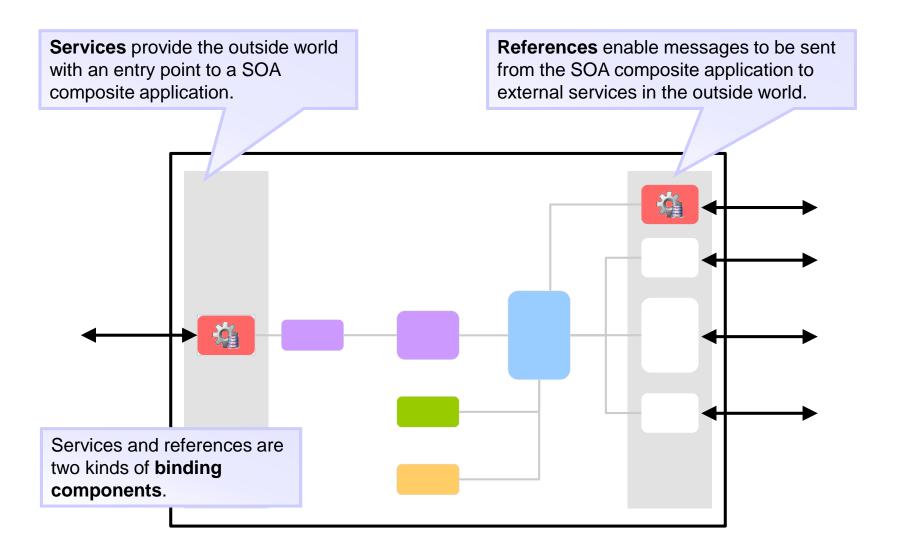
Agenda

- Oracle JCA Adapters
- Database Adapter



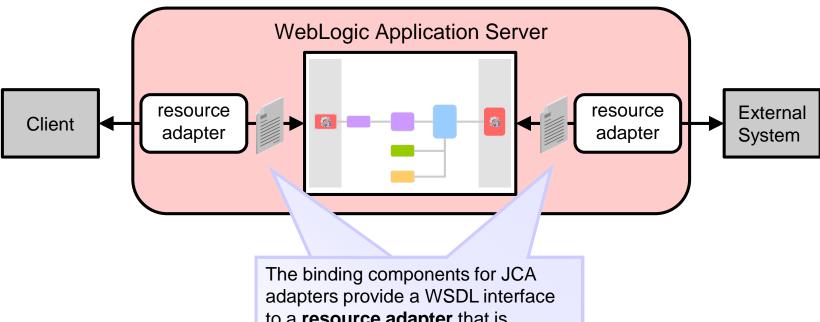


Binding Components



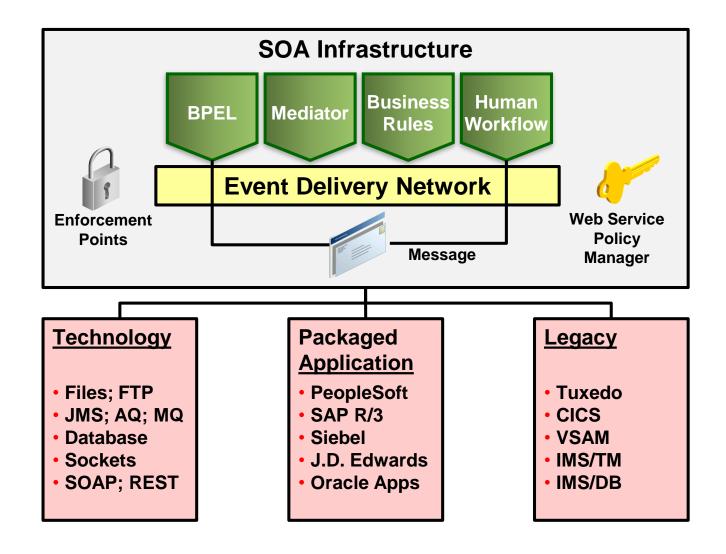


JCA Adapters



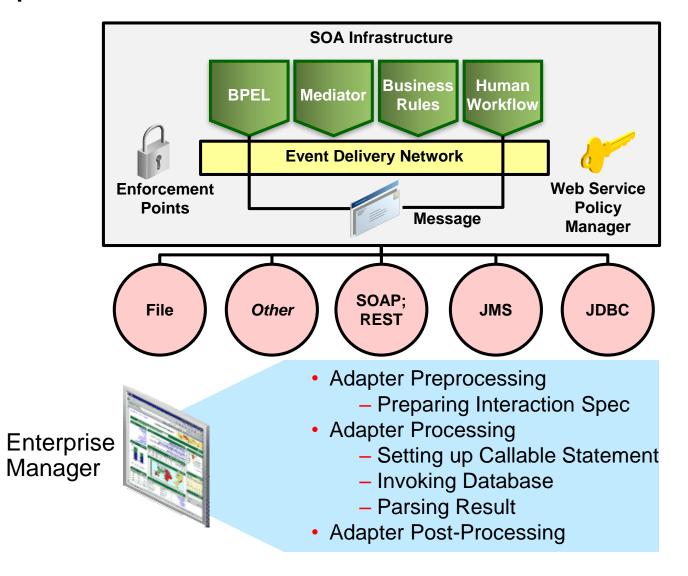
The binding components for JCA adapters provide a WSDL interface to a **resource adapter** that is deployed to the runtime environment. The adapter itself is transparent to the application.

Oracle JCA Adapters





Monitoring Adapters



Quiz



Statistics about message processing are gathered by adapters, and are viewable in the Oracle Enterprise Manager console.

- a. True
- b. False



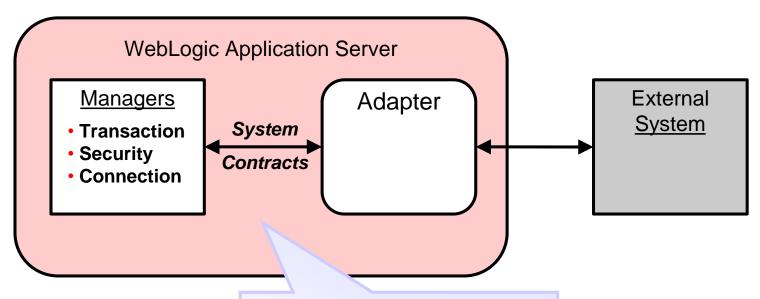
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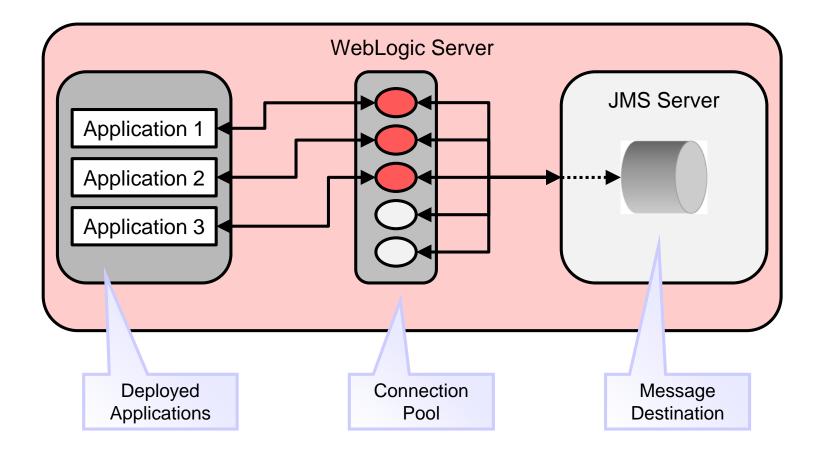


Adapters and the WebLogic Application Server



The application server provides management for connections, transactions, and security for JCA adapters and other deployed applications.

Connection Management



Note: The diagram shows the JMS Server running within the WebLogic Server, but that need not be the case.



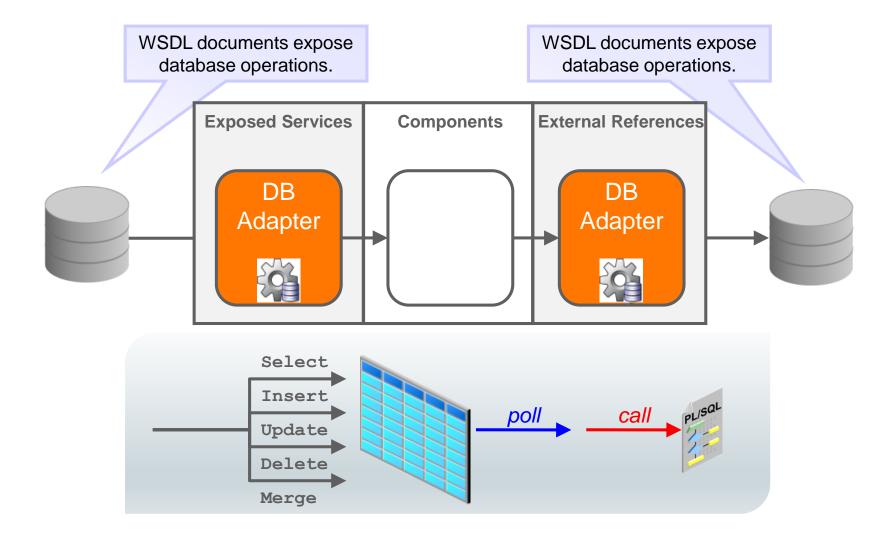
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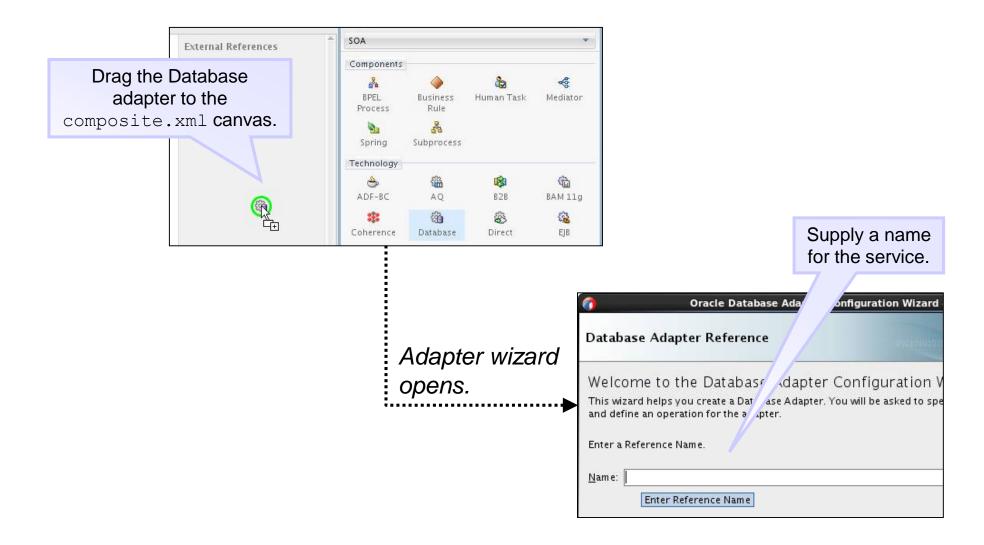


Database Adapter: Introduction

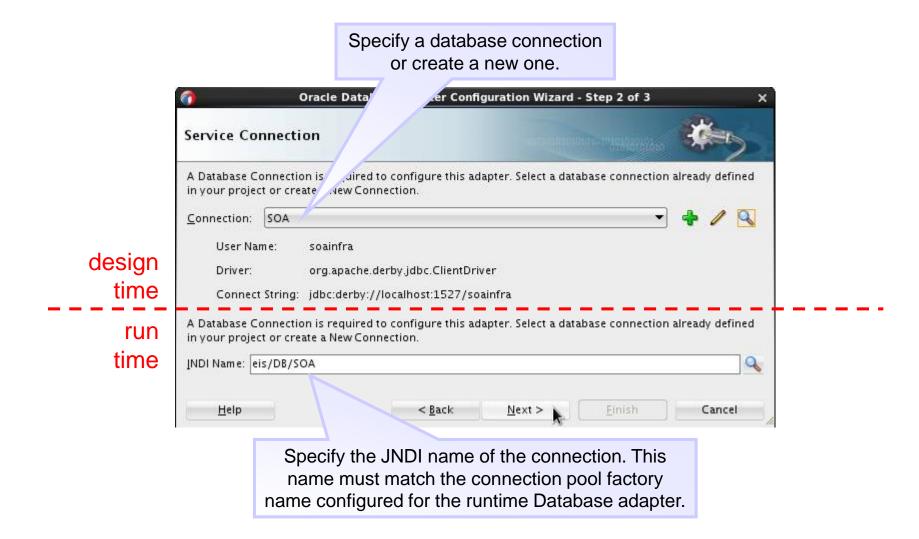




Configuring a Database Adapter

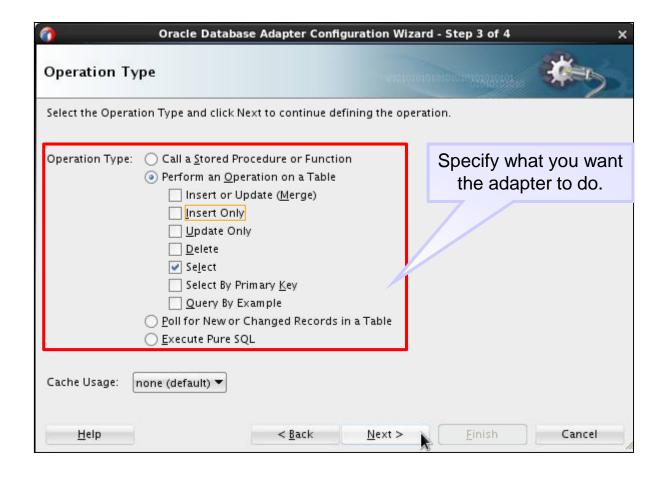


Configuring a Database Adapter Service Connection



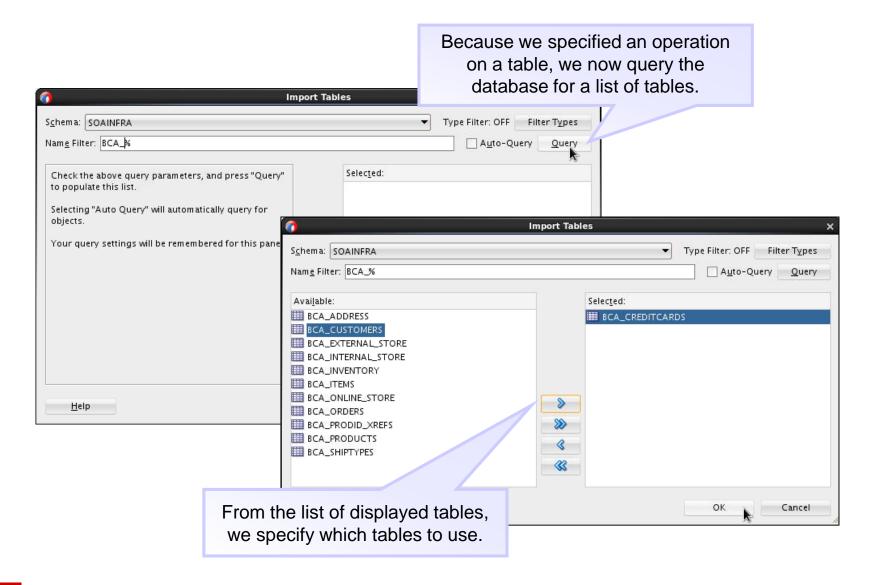


Configuring a Select Statement: Operation Type



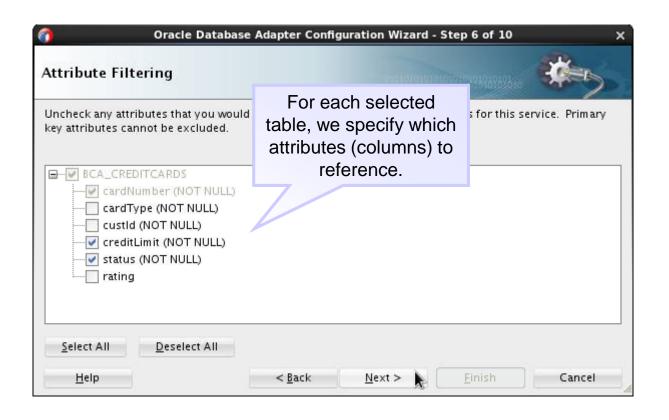


Configuring a Select Statement: Importing Tables



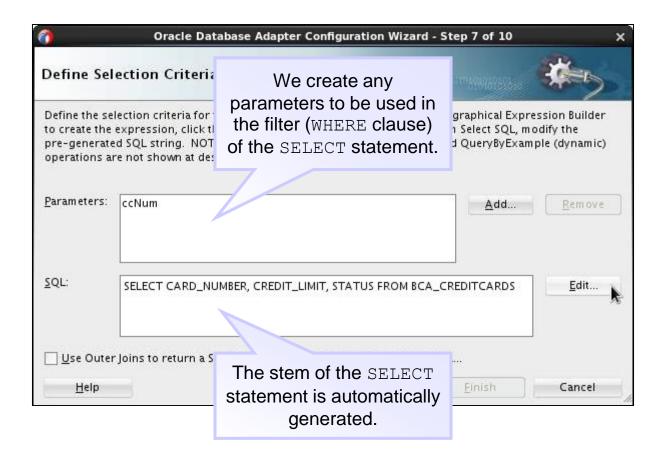


Configuring a Select Statement: Filtering Attributes



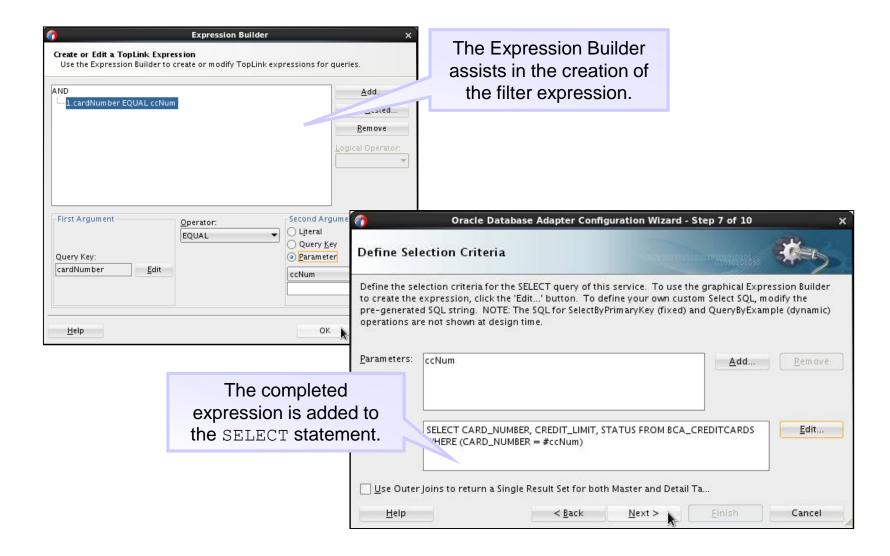


Configuring a Select Statement: Defining Selection Criteria



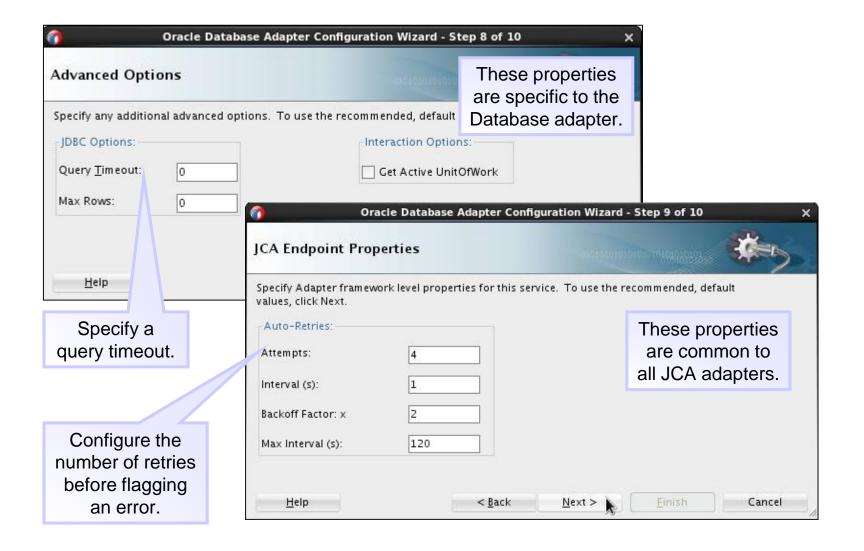


Configuring a Select Statement: Editing the Expression





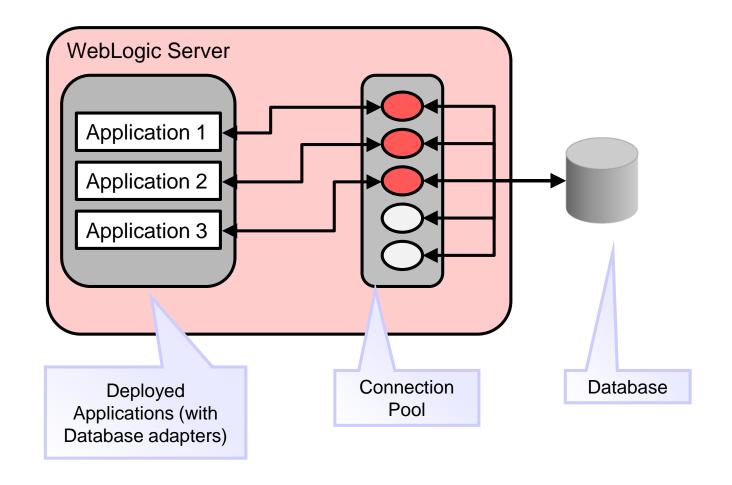
Configuring a Select Statement: Advanced Options





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Database Adapter Runtime Connections





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Transactionality

The Database adapter and JMS adapter are both transactional (as are the AQ adapter and Java web services).

- In general, a transaction is started by a service when it is invoked by a client, and ends
 when the service operation completes. If the invoked service completes successfully, the
 transaction started is committed; otherwise errors roll back the transaction.
- Transactional boundaries depend on the context, configuration, and environment of the services that are implemented and invoked.
- Transaction semantics are different for services that are invoked synchronously than for services that are invoked asynchronously.

Quiz



The _____ exposes the database operations that can be invoked by the components in a composite application.

- a. File adapter
- b. Socket adapter
- c. Database adapter
- d. Oracle Application adapter



Summary

In this lesson, you should have learned how to:

- Discuss the adapter architecture
- Identify the types of technology adapters
- Configure and use a Database adapter
- Describe the configuration of runtime connections for adapters



Practice 5-1 to 5-4 Overview

