



Siebel Retail Finance Banking Application Developer's Reference

Version 2007.1

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1

What's New in This Release

What's New in Siebel Retail Finance Banking Application Developer's Reference, Version 2007.1

Table 1 lists changes described in this version of the documentation to support release 2007.1 of the software.

Table 1. New Product Features in Siebel Retail Finance Banking Application Developer's Reference, Version 2007.1

Topic	Description
Chapter 4, "Oracle Build Process"	This chapter has been added to cover rebuilding customized Retail Finance Modules for the Oracle Application Server.
"WebSphere Build Process Prerequisites" on page 21	This topic has been updated to include the database settings for build.properties.
Chapter 6, "Siebel Retail Finance Web Service Reference"	This chapter provides an overview of the Web Services exposed for Oracle's Siebel Retail Finance banking applications.

2

Banking Application Components

This chapter introduces Oracle's Siebel Retail Finance Banking Application components, and the process for rebuilding customized modules. It contains the following topics:

- Banking Application Components
- About the Build Process

Banking Application Components

The Siebel Retail Finance Banking Application includes the following components:

- A single server-side business logic, shared between two products: Branch Teller and Internet Banking. This business logic is contained within the Enterprise Archive (EAR) file that deploys the Banking Applications as a set of enterprise JAR files.
- A Java Swing-based front end for the Branch Teller client and the administration client, deployed within the EAR file as Java WebStart-enabled applications.
- A Java Server Faces (JSF) front end, built using the Oracle Application Development Framework (ADF) Faces component library, for the Internet Banking product. This is deployed in the same EAR file as the server-side business logic.
- A Branch Offline Server to support a subset of transactions should the Central Server go offline. The Branch Offline Server is comprised of a lightweight RMI application and a data store.
- A Web application for MCA Services administration functionality.
- Siebel Retail Finance Web Services.

About the Build Process

There is a single build process for building both Branch Teller and Internet Banking because they share a common server side; the front end is the only difference between the two products from a build perspective.

The process for building the EAR file is the same regardless of whether a license is held for Branch Teller, Internet Banking, or both. For example, if only Branch Teller has been licensed, the Internet Banking collateral is not available; the build process recognizes this, and skips that stage of the process.

Any build process steps that are specific to a particular product are noted in this guide.

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Preparing the Build Environment

This chapter covers preparing the build environment and includes the following topics:

- Extracting the Source Code
- Banking Application Build Resources

NOTE: Refer to the *Siebel Retail Finance System Requirements and Supported Platforms* document on Oracle Technology Network for information regarding the supported environments, including the supported database and application server versions.

Extracting the Source Code

Before you perform the build process, you must prepare the build environment. This preparation involves extracting the source code, support files, and build files from the versions of the Siebel Retail Finance Common Software Resources and product Build Packs that are appropriate to the product or platform for which they are being built. The build process is currently supported on the Windows platform only. As part of the installation process, the Banking Application pack is extracted to D:\siebel.

Extracting Resources for Building Branch Teller

Extract the following resources to the D:\ path:

- The SRFBankingApplicationCommonSoftwareResources.jar file from Siebel Retail Finance Common Software Resources
- The SRFBranchTellerBuildPack.jar file from the Siebel Retail Finance Branch Teller Extension Pack

Extracting Resources for Building Internet Banking

Extract the following resources to the D:\ path:

- The SRFBankingApplicationCommonSoftwareResources.jar file from Siebel Retail Finance Common Software Resources
- The SRFInternetBankingBuildPack.jar file from the Siebel Retail Finance Branch Teller Extension Pack

Adding Java Communications API Components to the Build Process

Support for peripheral devices connected to RS232 serial ports and IEEE 1284 parallel ports, for example, check readers, is provided through the Java Communications API. You must download this third party software, if peripheral devices are to be used in your Banking Application installation. This task includes the comm.jar file in the banking application when the EAR file is rebuilt. You need to install the comm.jar file on every Branch Teller client machine if you need to enable peripheral devices support but do not rebuild the EAR file to include the comm.jar file.

To add Java Communications API components to the build process

- 1 Download the Java Communications API 2.0 from <http://javashopl.m.sun.com/ECom/docs/Welcome.jsp?StoreId=22&PartDetailId=7235-javacomm-2.0-spec-oth-JSpec&SiteId=JSC&TransactionId=noreg>
- 2 Extract the comm.jar file from the Java Communications API zip file.
- 3 Copy the comm.jar file to the \siebel\3rdParty\lib\comm\Win32 folder.

The comm.jar file is added to the banking application on the central server when the EAR file is re-built.

Adding CTR PDF Form Generation Components to the Build Process

The currency transaction report (CTR) functionality supports the creation of CTR PDF forms. To enable this functionality, you must download the Adobe Forms Data Format (FDF) Toolkit for Java and rebuild the *BranchClient* and *BranchAdministrator* projects.

To add CTR PDF form generation components to the build process

- 1 Download the FDF Toolkit for Java from <http://partners.adobe.com/public/developer/acrobat/fdf/topic.html>.
- 2 Extract the jFdfTk.jar file from the FDF Toolkit zip file.
- 3 When your application is accepted, follow the instructions on the Web site for downloading and installing the software.
- 4 Copy the jFdfTk.jar file to the \siebel\3rdParty\lib\fdf folder.

The jFdfTk.jar file is added to the banking application central server when the EAR file is re-built.

Banking Application Build Resources

The following topics describe the Siebel Retail Finance banking application build resources:

- Build Directory Structure

- Class JAR files in the Build Directory
- Error! Reference source not found.
- Domain Layer Source Code
- Branch Teller Statechart Files

Build Directory Structure

Table 2 outlines the build directory that is created when you extract the files contained in the Common Software Resources and Build Packs.

Table 2. Standard Directory Structure

Build Directory	Description
\3rdParty	Contains third-party libraries required for supporting the Banking Application. You must install additional third-party JAR files that are not included with this distribution, see <i>Siebel Retail Finance Banking Application Installation Guide</i> for further details.
\Branch	Contains all server-side implementation layer source code, deployment descriptors, resources for the Banking Application, and ANT scripts to compile the Banking Application.
\branch-common	Contains common branch code.
\BranchAdministratorClient	Contains all the front-end code to run the Branch Teller administration application, and an ANT script to compile the Web Archive (WAR) file. NOTE: Branch Teller Administrator front-end code is only shipped if the Branch Teller product has been licensed.
\BranchClient	Contains all the front-end code to run the Branch Teller client, and an ANT script to compile the WAR file. NOTE: Branch Teller front-end code is only shipped if the Branch Teller product has been licensed.
\InternetBankingClient	Contains the Internet Banking source code, JSPs, and ANT scripts to build Internet Banking. NOTE: Internet Banking front-end code is only shipped if the Internet Banking product has been licensed.
\IBWebServiceClient	Contains the web service interface to a subset of the Internet Banking functionality. NOTE: Web Services front-end code is only shipped if the Internet Banking product has been licensed.

Table 2. Standard Directory Structure

Build Directory	Description
\Build	Contains the ANT scripts and other required resources for assembling and compiling the Banking Application and for generating a deployable EAR file.
\Common	Contains the common JAR files and resource files that are shared between Banking Application products.
\deploy	Contains the pre-built deployable Banking Application EAR file siebel.ear for deployment, and data to populate the application database.
\Entitlements	Contains the Entitlements source code, deployment descriptors, and ANT scripts to build Entitlements.
\Offline	Contains the Offline source code, and ANT scripts to compile and build the Branch Offline Server.
\database	Contains the database dump file, and reset scripts for the database.

Class JAR files in the Build Directory

The Siebel Retail Finance Common Software Resources pack contains several important class JAR files contained in the \siebel\Common\lib folder. The JAR files in this folder are described in the following topics.

Module Layer JAR Files

Table 3 lists the Module Layer JAR files. These JAR files contain compiled classes only (no source code). For ease of future support, you must add these JAR files to the classpath of the extended product when it is being deployed.

Table 3. Module Layer JAR Files

Module Layer Classes JAR File	Description
branch.jar	Contains all server-side classes, including EJBs, Parameter Objects, Constants and utility classes, for the Module Layer of the Banking Application codebase.
entitlements.jar	Contains module level classes from the Entitlements sub module.
branch-common-fe.jar	Contains all common front end classes used between the Branch Teller client and the Branch Administration Client.

Table 3. Module Layer JAR Files

Module Layer Classes JAR File	Description
branch-common.jar	Contains all common classes used between the Branch Teller client and the Branch Server side.
offline.jar	Contains module level classes from the Offline sub-module.

Domain Layer JAR Files

Table 4 lists Domain Layer JAR files. There are only compiled classes in these JAR files (no source code). Because these are domain-level JAR files, the classes in these JAR files are altered when extensions are made.

Table 4. Domain Layer JAR Files

Domain Layer JAR file	Description
branch-impl.jar	Contains the Domain Layer classes for all server-side Banking Application classes: Entity, Session, Parameter/Value/Factory objects, and utility classes. Some or all of the classes in this JAR file might be required for deployment of the generic or extended Banking Application.
entitlements-impl.jar	Contains domain-level classes from the Entitlements submodule.
branch-common-impl.jar	Contains all common Domain Layer classes, shared between the Branch Teller client and the Branch Server side.

Support JAR Files

Table 5 lists support JAR files. These JAR files contain compiled classes only (no source code). For ease of future support, you must add these JAR files to the classpath of the extended Banking Application when it is being extended and deployed.

Table 5. Support JAR Files

Support JAR File	Description
mca.jar	Contains MCA Services classes.
core-bos.jar	Contains the Core and Sector Layer classes for all Banking Application entity beans.
bfa-utils.jar	Contains utility classes.

Table 5. Support JAR Files

Support JAR File	Description
statemachine-ext.jar	Contains extension classes for the StateSoft Statemachine framework supporting the Screen Orchestrator tool in the Financial Transactions WorkBench.
mca-eabmq.jar	Contains Enterprise Access Bean (EAB) and MQSeries connector helper classes.

Domain Layer Source Code

The source code for the Domain Layer is provided as Java files in the various source folders in the standard directory structure. The locations used are the locations expected by the build files that are part of this release.

The following source code JAR files are provided:

- offline-src.jar
- offline-impl-src.jar
- branch-impl-src.jar
- branch-common-impl-src.jar
- branch-common-fe-src.jar
- entitlements-impl-src.jar

The following source code JAR files may be provided, depending on the terms of your contract:

- entitlements-src.jar
- core-bos-src.jar
- branch-src.jar
- branch-common-src.jar

Branch Teller Statechart Files

The Branch Teller client application is implemented as a Swing application using the Screen Orchestrator tool. This tool uses a product statechart that can be extended in client customizations that use the Screen Orchestrator.

The statechart XML files for the Branch Teller components are located in subfolders in the Standard Directory Structure as shown in [Table 6](#).

Table 6. Statechart XML Files and Supports for the Banking Application Components

Component	Subfolders
Branch Teller Client	\siebel\BranchClient\statechart
Branch Teller Administration Client	\siebel\BranchAdministratorClient\statechart

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Oracle Build Process

This chapter covers building Siebel Retail Finance Modules for the Oracle Application Server, and includes the following topics:

- [“Oracle Build Process Prerequisite” on page 17](#)
- [“Signing Customized JAR and WAR Files” on page 17](#)
- [“SRF Build Resources for Deployment on the Oracle Application Server” on page 18](#)
- [“Building the SRF Projects and EAR for Deployment on the Oracle Application Server” on page 18](#)
- [“Building the Entitlements Project for Deployment on the Oracle Application Server” on page 18](#)
- [“Building the Branch Project for Deployment on the Oracle Application Server” on page 19](#)
- [“Building the BranchAdministratorClient Project for Deployment on the Oracle Application Server” on page 19](#)
- [“Building the BranchClient Project for Deployment on the Oracle Application Server” on page 20](#)
- [“Building the SRF EAR for Deployment on the Oracle Application Server” on page 20](#)

Oracle Build Process Prerequisite

When building an EAR file for deployment on the Oracle Application Server the Oracle Application Server must be installed on the build machine.

Signing Customized JAR and WAR Files

All customized JAR and WAR files must be signed before re-deployment; if the files have not been signed a WebStart error will be thrown and deployment will fail. The following settings in the `build.properties` file must be configured to sign the JAR and WAR files. These settings must not contain empty strings and the value for the `storepass` setting must be at least six characters in length.

```
alias=<keystore alias>
storepass=<keystore password>
companyName=<company>
operatingUnit=<operating unit>
organization=<organization>
country=<country>
```

SRF Build Resources for Deployment on the Oracle Application Server

The following build resources are provided in the \siebel\Build folder:

- A Windows script, JavaPrompt.vbs, which creates a command prompt that has the CLASSPATH and PATH variables configured to invoke the Banking Application build process.
- A build script, build-all.xml, which builds all the projects in the correct order and creates the EAR file in the \siebel\Build\release folder.
- The file build-all.xml builds the projects in the following order:
 - a Branch (includes the internetBanking and branch-common projects)
 - b BranchAdministratorClient
 - c BranchClient
 - d Build

NOTE: The precompiled Entitlements project is located in the Siebel\Build\resource folder and the build-all script does not rebuild this project. Refer to the topic [Building Individual Siebel Retail Finance Projects for Deployment on WebSphere](#) to rebuild the Entitlements project.

Building the SRF Projects and EAR for Deployment on the Oracle Application Server

This topic covers rebuilding all the Siebel Retail Finance banking application projects, and rebuilding the EAR file, for deployment on the Oracle Application Server.

To build the Siebel Retail Finance EAR for deployment on Oracle

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.
- 3 Enter the following at the command prompt:

```
cd Build  
buildall oracle
```

Building the Entitlements Project for Deployment on the Oracle Application Server

This topic covers building the Entitlements project for deployment on the Oracle Application Server.

To build the Entitlements project for deployment on the Oracle Application Server

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.
- 3 Enter the following at the command prompt:

```
cd Entitlements  
build oracle
```

Building the Branch Project for Deployment on the Oracle Application Server

This topic covers building the Branch project for deployment on the Oracle Application Server.

To build the Branch project for deployment on the Oracle Application Server

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.
- 3 Enter the following at the command prompt:

```
cd Branch  
build oracle
```

Building the BranchAdministratorClient Project for Deployment on the Oracle Application Server

This topic covers building the BranchAdministratorClient project for deployment on the Oracle Application Server.

To build the BranchAdministratorClient project for deployment on the Oracle Application Server

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.
- 3 Enter the following at the command prompt:

```
cd BranchAdministratorClient
```

```
build oracle
```

The ANT build process creates branchadmin.war. This Web application is stored at D:\siebel\Build\staging\war.

Building the BranchClient Project for Deployment on the Oracle Application Server

This topic covers building the BranchClient project for deployment on the Oracle Application Server.

To build the BranchClient project for deployment on the Oracle Application Server

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.
- 3 Enter the following at the command prompt:

```
cd BranchClient  
build oracle
```

The ANT build process creates the branchteller.war file. This Web application is stored at D:\siebel\Build\staging\war.

Building the SRF EAR for Deployment on the Oracle Application Server

This topic covers rebuilding the EAR file for deployment on the Oracle Application Server.

To build the EAR file for deployment on the Oracle Application Server

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrpfompt.vbs file.
- 3 Enter the following at the command prompt:

```
cd Build  
build oracle
```

5

WebSphere Build Process

This chapter covers building Siebel Retail Finance Modules for the WebSphere application server, and includes the following topics:

- [“WebSphere Build Process Prerequisites” on page 21](#)
- [“Signing Customized JAR and WAR Files” on page 22](#)
- [“SRF Build Resources for Deployment on the WebSphere Application Server” on page 22](#)
- [“Building the SRF Projects and EAR for Deployment on the WebSphere Application Server” on page 22](#)
- [“Building the Entitlements Project for Deployment on the WebSphere Application Server” on page 23](#)
- [“Building the Branch Project for Deployment on the WebSphere Application Server” on page 23](#)
- [“Building the BranchAdministratorClient Project for Deployment on the WebSphere Application Server” on page 24](#)
- [“Building the BranchClient Project for Deployment on the WebSphere Application Server” on page 24](#)
- [“Building the SRF EAR for Deployment on the WebSphere Application Server” on page 25](#)

WebSphere Build Process Prerequisites

The following prerequisites apply when building an EAR file for deployment on the WebSphere application server:

- The WebSphere application server must be installed on the build machine.
- The `\siebel\deploy\build.properties` file must be configured as follows for an Oracle database:
 - a** `websphere.home = <WebSphere installation root>`. The build scripts assume that the WebSphere installation root is `D:\WAS\AppServer`.
 - b** `db.driver.name=oracle.jdbc.OracleDriver`
 - c** `db.url.prefix=jdbc:oracle:oci:@`
 - d** `target.dbtype.oracle=ORACLE_V9I`
- The `\siebel\deploy\build.properties` file must be configured as follows for a DB2 database:
 - e** `websphere.home = <WebSphere installation root>`. The build scripts assume that the WebSphere installation root is `D:\WAS\AppServer`.
 - f** `db.driver.name= com.ibm.db2.jcc.DB2Driver`
 - g** `db.url.prefix= jdbc:db2://`
 - h** `target.dbtype.oracle=db2`

Signing Customized JAR and WAR Files

All customized JAR and WAR files must be signed before re-deployment; if the files have not been signed a WebStart error will be thrown and deployment will fail. The following settings in the build.properties file must be configured to sign the JAR and WAR files. These settings must not contain empty strings, and the value for the *storepass* setting must be at least six characters in length.

```
alias=<keystore alias>
storepass=<keystore password>
companyName=<company>
operatingUnit=<operating unit>
organization=<organization>
country=<country>
```

SRF Build Resources for Deployment on the WebSphere Application Server

The following build resources are provided in the \siebel\Build folder:

- A Windows script, JavaPrompt.vbs, which creates a command prompt that has the CLASSPATH and PATH variables configured to invoke the Banking Application build process.
- A build script, build-all.xml, which builds all the projects in the correct order and creates the EAR file in the \siebel\Build\release folder.
- The file build-all.xml builds the projects in the following order:
 - a Branch (includes the internetBanking and branch-common projects)
 - b BranchAdministratorClient
 - c BranchClient
 - d Build

NOTE: The precompiled Entitlements project is located in the Siebel\Build\resource folder and the build-all script does not rebuild this project. Refer to the topic Building Individual Siebel Retail Finance Projects for Deployment on WebSphere to rebuild the Entitlements project.

Building the SRF Projects and EAR for Deployment on the WebSphere Application Server

This topic covers rebuilding all the Siebel Retail Finance banking application projects, and rebuilding the EAR file, for deployment on the WebSphere Application Server.

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.
- 3 If you have an Oracle database, enter the following at the command prompt:

```
cd Build  
buildall websphere-orcl
```

- 4 If you have a DB2 database, enter the following at the command prompt:

```
cd Build  
buildall websphere-db2
```

Building the Entitlements Project for Deployment on the WebSphere Application Server

This topic covers building the Entitlements project for deployment on the WebSphere Application Server.

To build the Entitlements project for deployment on WebSphere

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.
- 3 If you have an Oracle database, enter the following at the command prompt:

```
cd Entitlements  
build websphere-orcl
```

- 4 If you have a DB2 database, enter the following at the command prompt:

```
cd Entitlements  
build websphere-db2
```

Building the Branch Project for Deployment on the WebSphere Application Server

This topic covers building the Branch project for deployment on the WebSphere Application Server.

To build the Branch project for deployment on WebSphere

- 1 Navigate to the \siebel\Build directory.

- 2 Double-click the JavaPrompt.vbs file.
- 3 If you have an Oracle database, enter the following at the command prompt:

```
cd Branch  
build websphere-orcl
```

- 4 If you have a DB2 database, enter the following at the command prompt:

```
cd Branch  
build websphere-db2
```

Building the BranchAdministratorClient Project for Deployment on the WebSphere Application Server

This topic covers building the BranchAdministratorClient project for deployment on the WebSphere Application Server.

To build the BranchAdministratorClient project for deployment on WebSphere

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.
- 3 Enter the following at the command prompt:

```
cd BranchAdministratorClient  
build
```

The ANT build process creates the branchadmin.war file. This Web application is stored at D:\siebel\Build\staging\war.

Building the BranchClient Project for Deployment on the WebSphere Application Server

This topic covers building the BranchClient project for deployment on the WebSphere Application Server.

To build the BranchClient project for deployment on WebSphere

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.

- 3 Enter the following at the command prompt:

```
cd BranchClient
```

```
build
```

The ANT build process creates the branchteller.war file. This Web application is stored at D:\siebel\Build\staging\war.

Building the SRF EAR for Deployment on the WebSphere Application Server

This topic covers rebuilding the EAR file for deployment on the WebSphere Application Server.

To build the EAR file for deployment on WebSphere

- 1 Navigate to the \siebel\Build directory.
- 2 Double-click the JavaPrompt.vbs file.
- 3 If you have an Oracle database, enter the following at the command prompt:

```
cd Build
```

```
build webspere-orcl
```

- 4 If you have a DB2 database, enter the following at the command prompt:

```
cd Build
```

```
build webspere-db2
```

This process will deploy the application to the local machine. If you need to deploy to another machine, you can follow the instructions in the *Siebel Retail Finance Banking Application Installation Guide*.

NOTE: A full build can run for a considerable length of time—typically 30-40 minutes on a 2 gigahertz (GHz) or faster PC with 512 megabyte (MB) RAM.

6

Siebel Retail Finance Web Service Reference

This chapter describes Siebel Retail Finance Web Services, and includes the following topics:

- [“About Siebel Retail Finance Web Services” on page 27](#)
- [“Web Services Development Cycle” on page 28](#)
- [“Siebel Retail Finance Web Services” on page 29](#)

About Siebel Retail Finance Web Services

Oracle’s Siebel Retail Finance Web Services use industry standard core technologies. The bulleted list that follows includes each of the main core technologies used. Each core technology is explained in detail in the topics that follow.

- Web Services Description Language (WSDL)
- XML and XML Schema
- Simple Object Access Protocol (SOAP)

About Web Services Description Language

WSDL is an XML-based format for describing the interface of a Web Service. WSDL describes the endpoints, location, protocol binding, operations, parameters, and data types of all aspects of a Web Service.

- The WSDL which describes a Web Service has the following characteristics:
 - It is published by the service provider.
 - It is used by the client to format requests and interpret responses.
 - It may be optionally submitted to a registry or service broker to advertise a service.
- Additionally, WSDL describes the following:
 - The operations provided by a Web Service
 - The input and output message structures for each Web Service operation
 - The mechanism to contact the Web Service

About XML and XML Schema

A WSDL file is published in the form of an XML document instance. Document/Literal is required as part of the WS-I interoperability standard that forms the basis of modern Web Service usage, where:

- Document means that the payload for an operation, however complex, must be defined in a single XML element.
- Literal means that the definition of that element must be described by an XML Schema embedded in the WSDL file.

When using Document or Literal formatting, the WDL file will contain an XML Schema definition that defines all messages and datatypes that will be used for a particular service. The payload itself will consist entirely of XML data structures.

About Simple Object Access Protocol

SOAP is a lightweight protocol intended for exchanging structured information in a decentralized, distributed environment. SOAP uses XML to define an extensible messaging framework.

SOAP messages consist of the following:

- An envelope for wrapping messages, including addressing and security information.
- A set of serialized rules for encoding datatypes in XML.
- Conventions for a procedure call and/or response.

Web Services Development Cycle

A service provider describes its service in the form of a WSDL file. Typically, the WSDL is obtained directly by the developer of the service client consumer.

At the time the design of a Web Service, the service consumer uses the WSDL to generate a proxy in his own native development environment, allowing him to program interactions with the service provider.

At run time the following occurs:

- The service consumer formats a request in accordance with the WSDL definition.
- The service provider provides the expected response to the service consumer.

Siebel Retail Finance Web Services

Table 7 on page 29 provides a listing of Oracle’s Siebel Retail Finance Web Services. For the full Web Service definition, including parameters, and input and output message format, please consult the Web Services WSDL files in the Retail Finance EAR file.

Table 7. Siebel Retail Finance Web Services

Web Service Name	Namespace	Operations
Authentication	http://oracle/apps/ss/fins/bc/am/authentication/server/webservice/AuthenticationAMServer	logon
Beneficiary	http://oracle/apps/ss/fins/bc/am/beneficiaries/server/webservice/BeneficiariesAMServer	addBeneficiary amendBeneficiary deleteBeneficiary retrieveBeneficiaries
Biller	http://oracle/apps/ss/fins/bc/am/billers/server/webservice/BillersAMServer	addBiller amendBiller deleteBiller retrieveBillers
Payments	http://oracle/apps/ss/fins/bc/am/payments/server/webservice/PaymentsAMServer	payBill
Scheduled Transaction	http://oracle/apps/ss/fins/bc/am/scheduledtransactions/server/webservice/ScheduledTransactionsAMServer	createScheduledPayment createScheduledTransfer deleteScheduledTransaction amendScheduledTransaction restartScheduledTransaction retrieveScheduleTransactions suspendScheduledTransaction
Transfers	http://oracle/apps/ss/fins/bc/am/transfers/server/webservice/TransfersAMServer	transfer

Table 7. Siebel Retail Finance Web Services

Web Service Name	Namespace	Operations
User Information	http://oracle/apps/ss/fins/bc/am/userinformation/server/webservice/UserInformationAMServer	amendContactAndAddressDetails retrieveContactAndAddressDetails retrieveCustomerDetails
User Accounts	http://oracle/apps/ss/fins/bc/am/useraccounts/server/webservice/UserAccountsAMServer	retrieveAccounts