Siebel

Mobile Guide: Disconnected

July 2021

Siebel
Mobile Guide: Disconnected

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Preface

This preface introduces information sources that can help you use the application and this guide.

Using Oracle Applications

To find guides for Oracle Applications, go to the Oracle Help Center at *http://docs.oracle.com/*.

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For information about Oracle's commitment to accessibility, visit the *Oracle Accessibility Program website*.

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1 What's New in This Release

What's New in Siebel Mobile Guide: Disconnected, Siebel CRM 21.7 Update

The following information lists the changes in this revision of the documentation to support this release of the software.

Topic	Description
About the Siebel App, Siebel.maa File, and Mobile Application Framework	Modified topic. Mobile Application Framework (MAF) has been upgraded to version 2.6.4.

What's New in Siebel Mobile Guide: Disconnected, Siebel CRM 21.6 Update

The following information lists the changes in this revision of the documentation to support this release of the software.

Topic	Description
About the JavaScript Migration Tool *Setting the Server Uncompression Location*	Modified topics. As of Siebel CRM 21.2 Update, the **applicationcontainer** directory has been replaced by two directories, as follows: • **applicationcontainer_external** (for Siebel Application Interface) • **applicationcontainer_internal** (for all other Siebel Enterprise components) In the Siebel Application Interface installation, web artifacts for application configurations, which were formerly located in **applicationcontainer\webapps\siebel**, now map to **applicationcontainer_external\siebelwebroot**. This directory contains subdirectories such as **files**, **fonts**, **htmltemplates**, **images**, **migration**, **scripts**, and **smc**. For more information, see *Siebel Installation Guide* .
About the Siebel App, Siebel.maa File, and Mobile Application Framework	Modified topic. Mobile Application Framework (MAF) has been upgraded.

What's New in Siebel Mobile Guide: Disconnected, Siebel CRM 20.12 Update

The following information lists the changes in this revision of the documentation to support this release of the software.

Topic	Description
Siebel Mobile Products	Modified topic. You typically access Siebel Mobile applications from a Siebel app downloaded from the Apple App Store or Google Play. **Note:** In the case of Siebel Mobile connected applications only, you can also access them from the browser on a mobile (iOS or Android) device, where the browser is connected to a Siebel Server. Siebel Mobile disconnected applications are not supported on client browsers.
About Siebel Mobile *Adding Object Managers for Siebel Mobile* *Setting Siebel Application Object Manager Parameters for Siebel Mobile* *Enabling the Component Groups for Siebel Mobile* *Assigning Responsibilities to Siebel Mobile Users* *Configuring Object Definitions for Siebel Mobile*	Modified topics. There is a Siebel Mobile application for Siebel Clinical, eClinicalM, which is supported in online (connected) and offline (disconnected) mode.
Common Errors	Modified topic. Describes some common errors that users might encounter when trying to access and use Siebel Mobile disconnected applications on a mobile device.
Logging In to Siebel Mobile	Modified topic. Describes how to log in to Siebel Mobile disconnected applications.
Navigating Siebel Mobile in Landscape Mode *Navigating Siebel Mobile in Portrait Mode*	Modified topics. Describes how to navigate Siebel Mobile after you log in to it on your mobile device.
Smartphone UX for Siebel Mobile *Configuring Application Behavior Settings for Siebel Mobile*	Modified topic. *Redwood* is the default Smartphone UX PHONE theme for Siebel mobile applications.
Clearing Log Information	Modified topic. You should clear the log information when you exceed the storage capacity on your mobile device.

Topic	Description
About the Siebel App, Siebel.maa File, and Mobile Application Framework	Modified topic. Upgrade to the latest Mobile Application Framework (MAF) version to use the Siebel app and Siebel.maa file. Xcode 12.x is required to generate the ipa file, Android 10.0 (API 29) is required to generate the apk file, and the development environment requires JDeveloper 12.2.1 or later.

What's New in Siebel Mobile Guide: Disconnected, Siebel CRM 20.9 Update

The following information lists the changes in this revision of the documentation to support this release of the software.

Topic	Description
Smartphone UX for Siebel Mobile	New topic. Describes the enhanced Smartphone UX for smartphone devices (iOS and Android) which is available for Siebel Mobile applications as of Siebel CRM 20.9 Update.

What's New in Siebel Mobile Guide: Disconnected, Siebel CRM 20.1 Update

No new features have been added to this guide for this release. This guide has been updated to reflect only product name changes.

2 Overview

Overview of Siebel Mobile

This chapter introduces Oracle's Siebel Mobile product. It contains the following topics:

- *Siebel Mobile Products*
- *About Siebel Mobile*
- *Requirements for Using Siebel Mobile*
- *System Requirements for Siebel Mobile*
- *MIT License*
- *Application Synchronization for Siebel Mobile*

Siebel Mobile Products

Several mobile applications are included in the Siebel CRM product line. Each serves a different purpose and runs on different devices. Often, these applications complement each other. The mobile applications are as follows:

- **Siebel Mobile Connected Applications.** Siebel Business Applications accessed from a Siebel app downloaded from the Apple App Store or Google Play, or from the browser on a mobile (iOS or Android) device where the browser is connected to a Siebel Server. This offering from Oracle provides access to Siebel Business Applications, with its native look-and-feel, from tablets and smartphones.
- **Siebel Mobile Disconnected Applications.** Siebel Business Applications accessed from a Siebel app downloaded from the Apple App Store or Google Play. This offering from Oracle provides access to Siebel Business Applications, with its native look-and-feel, from tablets and smartphones.

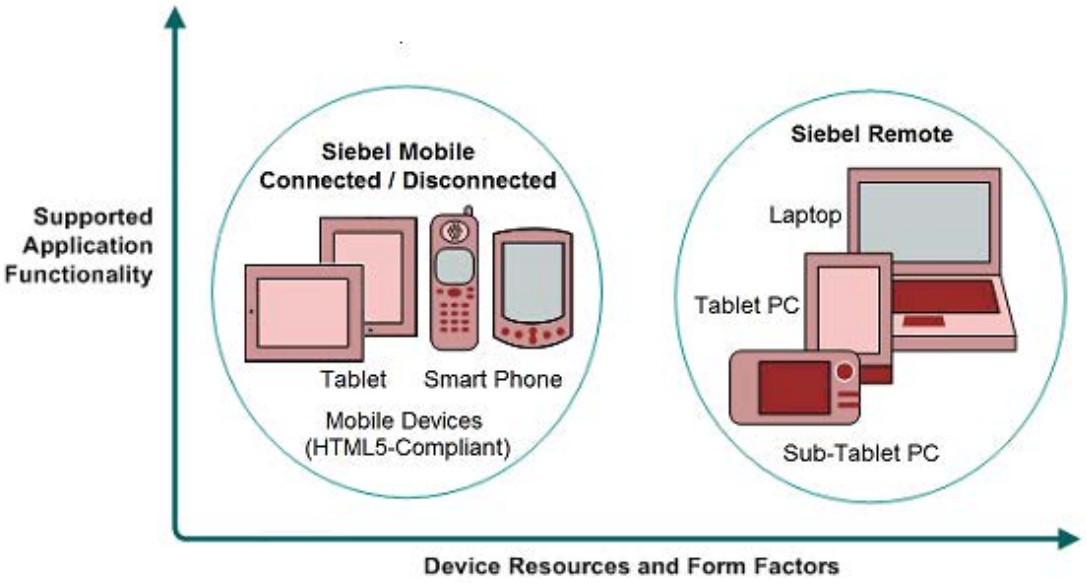
  Note: Siebel Mobile disconnected applications are not supported on client browsers.

- **Siebel Mobile Web Client and Siebel Remote.** A disconnected client and supporting data synchronized to the client without connection to the network. These applications provide intelligent transaction routing and data synchronization. Siebel Remote works only on Microsoft Windows-based desktops, laptops, and tablets.

Note: For information about Certifications, see article 1492194.1 (Article ID) on My Oracle Support.

The following image illustrates the hardware platforms on which these products run. Form factors in the image refers to the general capabilities, screen shapes, and sizes of the various devices shown in the illustration.

- Siebel Mobile applications are supported on iOS (Apple iPad or iPhone) and Android (Samsung Galaxy tablet or smartphone) devices.
- Siebel Remote applications are supported on laptop, tablet PC, and sub-tablet PC.



The following table describes the software components of Siebel Mobile, and the supported hardware devices.

Product Group	Server Components	Client Component	Supported Client Devices
Siebel Mobile Connected	Siebel Mobile application in online mode (connected to Siebel Server).	Siebel app or client browser.	An iOS or Android mobile device. For information about Certifications, see Article ID 1492194.1 on My Oracle Support.
Siebel Mobile Disconnected	Siebel Mobile application in offline mode (disconnected from Siebel Server). Synchronization Object Manager	Siebel app	An iOS or Android mobile device. For information about Certifications, see Article ID 1492194.1 on My Oracle Support.
Siebel Remote	Siebel Remote component group Disconnected Mobile Synchronization component group	Siebel Mobile Web Client Note that Siebel Mobile Connected and Siebel Mobile Disconnected are not related to the Siebel Mobile Web Client in any way.	Desktop PCs Laptops Tablets

The following table describes the supported applications of Siebel Mobile, and where to go for more information about these applications.

Product Group	Supported Applications	Related Documentation
Siebel Mobile Connected	Siebel supports Responsive Web Design, so any Siebel desktop application will work from any device. For example, the following Siebel Mobile connected applications are supported: • Siebel Pharma • Siebel Consumer Goods • Siebel Sales • Siebel Field Service • Siebel Finance • Siebel Clinical	If using Siebel Mobile in online mode only, then see the following: • Siebel Mobile Guide: Connected • *Configuring Siebel Open UI* • *Siebel Installation Guide*
Siebel Mobile Disconnected	The following Siebel Mobile disconnected applications are supported: • Siebel Field Service • Siebel Sales • Siebel Clinical • Siebel Pharma	If using Siebel Mobile in both online and offline mode, then see the following: • *Siebel Mobile Guide: Disconnected* • *Configuring Siebel Open UI* • *Siebel Installation Guide*
Siebel Remote	Almost all Siebel Business Applications and Siebel Industry Applications (Provides the same look-and-feel as those applications.)	*Siebel Remote and Replication Manager Administration Guide*

About Siebel Mobile

Siebel Mobile enables you to access Siebel CRM information with your mobile device in real time by permitting you to access an app-based or browser-based (connected applications only) version of one of the following Siebel Business Applications on your mobile device: Siebel Pharma, Siebel Consumer Goods, Siebel Sales, Siebel Field Service, Siebel Finance, Siebel Clinical.

Siebel Mobile Products lists the applications that are supported in connected (online) mode and disconnected (offline) mode. For more information about Siebel Mobile connected applications, see *Siebel Mobile Guide: Connected* . For more information about Siebel Mobile disconnected applications, see the remainder of this guide.

The URL address that you use accesses a unique mobile-enabled and offline-enabled Siebel Application Object Manager and renders the UI using jQuery. jQuery is a JavaScript library or framework that is designed to simplify client-side scripting that employs JavaScript code. Siebel uses jQuery extensively in its client code. For more information about jQuery, go to the jQuery Website at *http://jquery.com*.

Siebel Mobile is ideal for field sales and service representatives whose access is limited to their mobile device while travelling or in the field with a customer. Siebel Mobile is designed to maximize the following:

- **Usability.** Siebel Mobile is designed for field sales and service users and are optimized to support frequent tasks in the sales and service cycle.

- **Productivity.** Siebel Mobile maximizes productivity by enabling you to find the relevant information easily and to complete important activities quickly.

Requirements for Using Siebel Mobile

Siebel Mobile uses Siebel Open UI. Before you can use Siebel Mobile, you must meet the following requirements:

- You must have an iOS or Android mobile device with an internet connection.
- Ensure that you have sufficient main memory on your mobile device if running Siebel Mobile disconnected on the device.
- You have downloaded the Siebel app from the Apple App Store or Google Play, or the archive (Siebel.maa) file from Oracle Support.
- You have reviewed the topics about Siebel and Siebel Mobile in the applicable *Siebel Installation Guide* .

System Requirements for Siebel Mobile

Siebel Mobile runs on iOS and Android devices with the latest operating system updates, including the following:

- Apple iOS devices: iPad tablet and iPhone smartphone.
- Android devices: Samsung Galaxy tablet and smartphone.

Oracle supports the devices on which Siebel Mobile runs but does not certify any specific device models.

> **Note:** For Siebel CRM product releases 8.1.1.9 and later and for 8.2.2.2 and later, the system requirements and supported platform certifications are available from the Certifications tab on My Oracle Support. For information about Certifications, see article 1492194.1 (Article ID) on My Oracle Support.

MIT License

The print capability in Siebel Mobile, which is available in the Siebel Mobile application for Siebel Field Service, is built using third-party open source embedded JavaScript (*http://embeddedjs.com/*) and uses MIT licensing.

```
================================================================================
The MIT License (MIT)
Copyright (c) <year> <copyright holders>
Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in the
Software without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the
Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:
This copyright notice and permission notice shall be included in all copies or
substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
```

```
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================================================================================
```

For more information about printing invoices, see the following topics:

- *Printing Invoices Associated with Activities*
- *Printing Invoices Associated with Service Requests*
- *Printing Invoices*

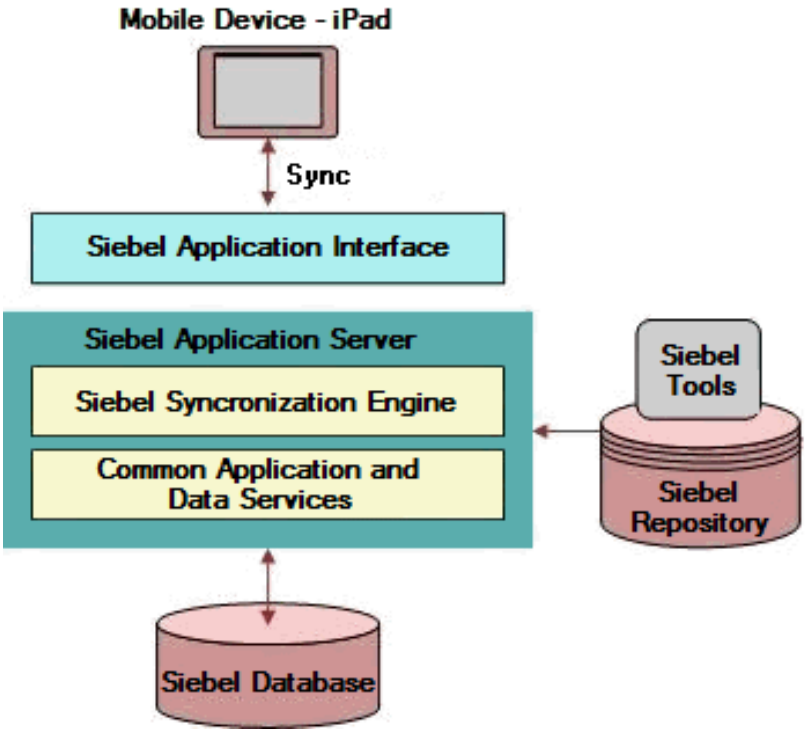
Application Synchronization for Siebel Mobile

Note: This topic applies only for Siebel Mobile disconnected applications.

The Siebel Synchronization Server component, which runs on the Siebel application server can accept concurrent synchronization requests from multiple synchronization clients. The Siebel Synchronization Server component in this instance is the Siebel Application Object Manager for the Siebel Mobile disconnected application, which can be one of the following for example: ePharmamObjMgr_enu or ServicemObjMgr_enu. For more information about object managers for Siebel Mobile disconnected applications, see *Adding Object Managers for Siebel Mobile*.

The following image illustrates the synchronization infrastructure for Siebel Mobile disconnected applications as follows:

- The Siebel Synchronization Engine and the Common Application and Data Services reside on the Siebel Server.
- The Siebel Database, Siebel Repository, and Siebel Tools communicate with the Siebel Application Server.



3 Setup

Setting Up Siebel Mobile

This chapter describes how to set up Siebel Mobile disconnected applications. It includes the following topics:

- *Roadmap for Setting Up Siebel Mobile Disconnected Applications*
- *Requirements for Setting Up Siebel Mobile*
- *Adding Object Managers for Siebel Mobile*
- *Setting Siebel Application Object Manager Parameters for Siebel Mobile*
- *Process of Configuring Siebel Server for Siebel Mobile*
- *Guidelines for Developing Data Filters for Siebel Mobile*
- *Customizing Siebel Mobile Applications*
- *Copying and Deleting Siebel Mobile Applications*
- *Troubleshooting Siebel Mobile Applications*

Note: The procedures in this guide assume that you do not use the Tree navigation control option to access screens and views. However, you can choose to use the Tree navigation control if required. For more information about setting navigation options, see *Siebel Fundamentals Guide* .

Roadmap for Setting Up Siebel Mobile Disconnected Applications

To set up Siebel Mobile disconnected applications, review and perform the following tasks:

1. Review *Load Balancing* before setting up Siebel Mobile disconnected applications.
2. Review *Requirements for Setting Up Siebel Mobile*
3. *Adding Object Managers for Siebel Mobile*
4. *Setting Siebel Application Object Manager Parameters for Siebel Mobile*
5. *Process of Configuring Siebel Server for Siebel Mobile*
6. *Setting Up Users for Siebel Mobile*
7. Set up the business component data filters for Siebel Mobile.

   For more information, review *Guidelines for Developing Data Filters for Siebel Mobile* and see *Data Filtering for Siebel Mobile*.
8. Set up the default fields for non-UI business component fields.

   The Handheld Business Service only downloads fields that are exposed in the UI. To download the non-UI fields, you must configure the field details. For more information, see *Configuring Application Settings for Siebel Mobile*.

9. Set up the default Business Objects to extract the business objects and the business components which are not extracted as part of UI.

   The Handheld Business Service only downloads business components that are exposed in the UI. To download any additional non-UI fields, you must configure the default business objects in the Administration - Siebel Mobile, Application Administration, Settings view. For more information, see *Configuring Application Settings for Siebel Mobile*.
10. *Monitoring Synchronization Sessions*
11. *Customizing Siebel Mobile Applications*

Requirements for Setting Up Siebel Mobile

This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications*.

Before starting to set up Siebel Mobile, you must meet the following requirements:

1. The installed software for Siebel Mobile is Siebel CRM 17.x or later.

   For new or existing installations, install the latest Siebel CRM Update. For more information about new installations and migration installations for existing installations, see *Siebel Installation Guide* .
2. For a migration installation for an existing installation, run the Siebel Incremental Repository Merge to update your database to the latest Siebel CRM.

   For more information about using Siebel Incremental Repository Merge, see *Siebel Database Upgrade Guide* .

   For new installations, running Siebel Incremental Repository Merge is not required. Install a new Siebel database for Siebel CRM.
3. All standard Siebel Server and Siebel Application Interface configurations have been carried out before you run any Siebel Mobile script on the Siebel Server and Siebel Application Interface.

   - **New installations.** Complete the standard Siebel Server and Siebel Application Interface installation and configuration tasks to create the object managers for the language or languages that you choose to deploy.
   - **Migration installations.** Run the script to add the object managers for new Siebel Mobile applications not present in any prior installation, for the existing installed and deployed languages. For Siebel Application Object Managers, run the object manager script for each language that you are deploying. After installation, run the Siebel Management Console and configure the Application Interface to add the new applications.
   - **Additional languages.** After a migration installation, run the object manager script once for each installed language. If you are adding a new language to an existing installation, then run the object manager script for that language, but only after first completing all the standard tasks to install and deploy a new language as detailed in *Siebel Installation Guide* .

> **Note:** The Siebel Bookshelf is available on Oracle Technology Network (http://www.oracle.com/technetwork/indexes/documentation/index.html) and Oracle Software Delivery Cloud. It might also be installed locally on your intranet or on a network location.

Adding Object Managers for Siebel Mobile

This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications* and is required under the following conditions:

- **For new installations.** The Siebel Application Object Managers are created by default in the language or languages selected during Siebel CRM installation. For example, if ENU and ESP are the languages selected, then the Siebel Application Object Managers shown in the following table are automatically added for ENU and ESP so it is not necessary to add them again. If you want to run your Siebel Mobile application subsequently in a new language, then you must run the new_compdef_sia script for each language that must be supported, but only after first completing all the standard tasks to install and deploy a new language.
- **For migration installations.** You must run the new_compdef_sia script to add the object managers for new Siebel Mobile applications not present in any prior installation, for each language that is installed and deployed on the Siebel Server.
- **For additional languages.** You must run the new_compdef_sia script after adding a new language on the Siebel Server, but only after first completing all the standard tasks to install and deploy a new language.

  For more information about new installations, migration installations, and additional language installations, including the standard tasks to install and deploy a new language, see *Siebel Installation Guide* .

Application	Application Object Manager
Siebel Mobile application for Siebel Pharma	ePharmamObjMgr_enu ePharmamObjMgr_esp
Siebel Mobile application for Siebel Sales	SalesmObjMgr_enu SalesmObjMgr_esp
Siebel Mobile application for Siebel Field Service	ServicemObjMgr_enu ServicemObjMgr_esp
Siebel Mobile application for Siebel Clinical	eClinicalMObjMgr_enu eClinicalMObjMgr_esp

The following procedure shows you how to run the new_compdef_sia script to add new object managers for Siebel Mobile applications. Running the script adds the object managers for the applications that are in the HandheldSync and HandheldSyncSIS component groups. You perform the following procedure only for migration installations to add the object managers for new Siebel Mobile applications not present in any prior installation.

To add object managers for Siebel Mobile

1. Stop the Siebel Server.
2. Stop the Siebel Gateway and make a backup of the Siebel Gateway registry.

For instructions on how to do this type of backup, see *Siebel System Administration Guide* .

3. Restart the Siebel Gateway.
4. Set the SIEBEL_HOME environment variable to the `SES_HOME/siebsrvr` directory.
5. Navigate to the following folder from, for example, a command prompt:

```
SES_HOME/siebsrvr/bin/<LANG>
```

6. Run one of the commands shown in the following table, as required:

Operating System	Command
Microsoft Windows	Run the following command on Windows: `new_compdef_sia.bat <GATEWAY>:<PORT> <ENTERPRISE> <USERNAME> <PASSWORD> <LANG>`
Linux or UNIX	Run the following command on Linux or UNIX: `new_compdef_sia.ksh <GATEWAY>:<PORT> <ENTERPRISE> <USERNAME> <PASSWORD> <LANG>`

7. When prompted, verify that the parameters passed are correct.
8. Start the Siebel Server.
9. Enable the component groups for Siebel Mobile.

For more information, see *Enabling the Component Groups for Siebel Mobile*.

Related Topic

Setting Siebel Application Object Manager Parameters for Siebel Mobile

Setting Siebel Application Object Manager Parameters for Siebel Mobile

This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications*

Siebel Application Object Manager parameters must be set on every Siebel Server that will support Siebel Mobile, and for each language that must support Siebel Mobile applications. For more information about Siebel Application Object Manager parameters and the Siebel Server Manager, see *Siebel System Administration Guide* . For more information about enabling Siebel Open UI for Siebel Application Object Managers, see *Siebel Installation Guide* .

The Siebel Application Object Manager parameters settings shown in the following table are set by default and are required for all Siebel Mobile disconnected applications.

Parameter Name	Parameter Setting
AppletSelectStyle	AppletSelectStyle="Applet Select"
EnableInlineForList	EnableInlineForList=Never
EnableOfflineMode	EnableOfflineMode=True
ShowWriteRecord	ShowWriteRecord=TRUE

Setting EnableOfflineMode

For Siebel Mobile disconnected, you must set the EnableOfflineMode application object manager parameter to TRUE to enable offline mode for the following applications:

- Siebel Mobile disconnected application for Siebel Pharma
- Siebel Mobile disconnected application for Siebel Sales
- Siebel Mobile disconnected application for Siebel Field Service
- Siebel Mobile disconnected application for Siebel Clinical

EnableOfflineMode is set to FALSE by default. Before you can work in offline mode, you must enable offline mode as follows:

1. Log in to the srvrmgr.
2. Type in the following command at the srvrmgr command line for each mobile application in the appropriate language.

   For U.S. English for example, type the command as follows:

   ```
   change param EnableOfflineMode=True for comp XObjMgr_enu
   ```

   For each language that you want to set up for your mobile application, substitute the language in question for `_enu` and replace XObjmgr with the name of the application object manager (as shown in the previous table). For example, use `_esp` to enter the command for the Spanish language on ePharmamObjMgr as follows:

   ```
   change param EnableOfflineMode=TRUE for comp ePharmamObjMgr_esp
   ```

Process of Configuring Siebel Server for Siebel Mobile

This process is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications*.

To configure Siebel Server for Siebel Mobile disconnected applications, perform the following tasks:

- *Enabling the Component Groups for Siebel Mobile*
- *Setting Up the Disconnected Mobile Synchronization Component Group*

- *Assigning Responsibilities to Siebel Mobile Users*
- *Setting Up Selective Retrieval for Siebel Mobile Application Views*
- *Configuring Object Definitions for Siebel Mobile*
- *Configuring Application Settings for Siebel Mobile*
- *Configuring the Mobile Node for Siebel Mobile Users*
- *Running Database Extract for Siebel Mobile Users*
- *Configuring a Hybrid Server Setup for Siebel Mobile*

Enabling the Component Groups for Siebel Mobile

This task is a step in *Process of Configuring Siebel Server for Siebel Mobile*.

The component groups for Siebel Mobile must be enabled on the supported Siebel Server. You can enable the component groups for the following Siebel Mobile applications on Microsoft Windows or on UNIX:

- ePharma Mobile Object Manager (<Lang>)
- Sales Mobile Object Manager (<Lang>)
- Service Mobile Object Manager (<Lang>)
- eClinical Mobile Object Manager (<Lang>)

To enable the component groups for Siebel Mobile applications

1. Log in to the Siebel Web application, and then do the following:
    a. Navigate to the Administration - Server Configuration screen, Enterprises, then the Component Groups view.
    b. Query for the `HandheldSync*` component group.

       The following component groups are returned:

        - HandheldSync
        - HandheldSyncSIS

    c. For each of these component groups, do the following:

        - Select the component group, and then click the Enable button.
        - In the Component Group Assignments applet, click the Enable button for the required Siebel Server.

    d. If required, go to the LifeSciences component group, and enable it as described in the previous substep.
2. Stop, and then restart the Siebel Server.

Setting Up the Disconnected Mobile Synchronization Component Group

This task is a step in *Process of Configuring Siebel Server for Siebel Mobile*.

The following procedure shows you how to set up MobileSync, the disconnected mobile synchronization component group for Siebel Mobile disconnected applications. The purpose of this task is to support synchronization in disconnected mode.

Note that by default, all of the following are configured for the Siebel Mobile application for Siebel Pharma so it is not necessary to configure them again for the application:

- **MobileSync.** The disconnected mobile synchronization component group.
- **MobileDbXtract.** The data extraction component (in this case, the Siebel Mobile disconnected component) that is to extract data based on buscomp (the business component). The output is stored in the dmData.txt file, which will be synchronized with the Siebel Mobile client.

  You must use MobileDbXtract as a template and configure it accordingly to create the data extraction component for other mobile applications (such as, Siebel Field Service Mobile), as shown in the following procedure.
- **BatchSync.** Batch synchronization.

To set up the Disconnected Mobile Synchronization component group

1. Connect to the server manager on your server computer and run the following command to see if the MobileSync component group has been enabled or not:

   ```
   list compgrps
   ```

   If required, enable the MobileSync component group as follows:

   a. Navigate to the Administration - Server Configuration screen, then the Enterprises view.
   b. Select the Component Groups tab, and then query for MobileSync in the Alias field.
   c. Click the Enable button.
   d. In the Component Groups Assignments applet, click the Enable button for the required Windows or UNIX server.
2. Create the data extraction component, using MobileDbXtract as a template, for the mobile application as follows:

   > **Note:** The data extraction component is the Siebel Mobile disconnected component that is to extract data based on buscomp (the business component). The output is stored in the dmData.txt file, which will be synchronized with the Siebel Mobile client.

   a. Log in to the Siebel application as a user with administrator privileges.
   b. Navigate to the Administration - Server Configuration screen, then the Enterprises view.
   c. Click the Component Definitions tab, and then query for MobileDbXtract in the Alias field.
   d. Using MobileDbXtract as a template, create a similar data extraction component for the mobile application you want to set up MobileSync for as follows:
      - Click Menu, then Copy Record.
      - In the Component field, type the name of the new data extraction component.

        For example, type in ServicemDbXtract_enu to create a data extraction component for the Siebel Mobile application for Siebel Field Service where _enu indicates the language (English) supported. Type in ServicemDbXtract_jpn for the japanese language, and so on.
      - Select MobileSync from the Component Group drop-down list.
      - In the Description field, type a description of the new component.

e. In the Component Parameters applet, configure the component parameters for the data extraction component (in this case, ServicemDbXtract) with the values shown in the following table:

Name	Value
Application Name	Siebel Field Service for Mobile **Note:** The application name must be exactly the same as the mobile application name. You can find the mobile application name using the srvrmgr command line as follows: `list param CFGApplicationName for comp ServicemObjMgr_enu.`.
Language Code	ENU

f. Click Activate to activate the data extraction component for the mobile application.
g. Click Synchronize to synchronize the data extraction component for the mobile application.

> **Note:** This synchronization is a server administration task, which must be done for batch mode server components after certain types of operations, and is not related to the data synchronization that the components perform. For more information, see *Siebel System Administration Guide* .

3. Configure the settings for the mobile application as follows:

a. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
b. Select the mobile application from the upper applet. For example, select Siebel Field Service for Mobile.
c. Click the Settings tab, and then do the following:

- Click New, select Data Extraction Component in the Name field, and then select the actual data extraction component (in this case, ServicemDbXtract) in the Value field. The name of the data extraction component must be the same as the name defined in Step 2.
- Click New, select Enable Batch Extraction in the Name field, and then select True in the Value field. For more information, see *Configuring Batch Synchronization for Siebel Mobile*.
- Set any other mobile application settings. For example, set PurgeInterval, Default Busobj, and Application Directory. For more information, see *Configuring Application Settings for Siebel Mobile*.

d. Restart the Siebel Server for the changes to take effect.
e. Check the status of the MobileSync component group by doing one of the following:

- From the command line, run the following command:

```
list comp for compgrp MobileSync
```

- From the UI, navigate to the Administration - Server Management screen, then the Components view.

4. Create a mobile client (such as SPORTER) and perform the database extraction by doing one of the following:

- From the command line, run dbxtract using the following command:

```
start task for comp dbxtract with client="SPORTER-MOBILE"
```

- From the UI, navigate to the Administration - Server Management screen, then the Jobs view, and select the Dbxtract Component Job. Then in the Job Parameters applet, add the Client Name parameter and its value, for example, as follows:

  ```
  ClientName=SPORTER-MOBILE
  ```

> **Note:** Dbxtract is the Siebel Remote component used to extract data based on database tables. Running dbxtract generates full user data and also the visibility database that is used to route the incremental changes to the user. Dbxtract generates the visibility database only for Siebel Mobile users that are not legacy remote users. For more information, see *Running Database Extract for Siebel Mobile Users*.

5. Start the mobile application (for example, servicem/enu) and log in with the appropriate user credentials.
6. Test that batch synchronization is working:
   - Run the following in the server manager:

     ```
     list task for comp MobileDbXtract
     ```

     From the UI, you can check the status of MobileDbXtract or the component of the respective application that was created (for example, ServiceDbXtract) by navigating to the Administration - Server Management screen, then the Tasks view.
   - Verify that the dmData.txt file is generated in the `hhsync/<mobile-application>` directory.

     For example, `hhsync/phm` is the directory created for Siebel ePharma Mobile, `hhsync/salesm` is the directory created for Siebel Sales Mobile, and `hhsync/servicem` is the directory created for Siebel Field Service Mobile.

     The folder structure is determined by the Application Directory value specified in the Administration - Siebel Mobile screen, Application Administration view, Settings subview.

     The dmData.txt file contains all the application data (records and business components) to be synchronized with the client.

Assigning Responsibilities to Siebel Mobile Users

This task is a step in *Process of Configuring Siebel Server for Siebel Mobile*.

A responsibility corresponds to a set of views. Responsibilities control the views to which users have access. The following procedure shows you how to assign views to a responsibility and then users to that responsibility. For more information about setting up view access and users for Siebel Mobile disconnected, see *Setting Up Selective Retrieval for Siebel Mobile Application Views* and *Setting Up Users for Siebel Mobile*.

To assign responsibilities to Siebel Mobile application users

1. Log in to the Siebel application as a user with administrator privileges.
2. Navigate to the Administration - Application screen, then the Responsibilities view.
3. Query for and select the appropriate responsibility or user role.

   For example, query for the following: PH Pharma Sales Rep - US Sales.
4. Select the Responsibilities tab, and then do the following:
   a. In the Users applet, add users to the responsibility as required.

b. In the Views applet, add the appropriate views to the responsibility as required.

The following table lists the application views that are added by default as part of the seed data for Siebel Mobile application for Siebel Pharma, so it is not necessary to manually add the views again.

Application	Default Views
Siebel Mobile application for Siebel Pharma	LS Home Page Call View - Mobile LS Pharma Call Validation Results View - Mobile LS Pharma Call Signature Capture View - Mobile LS Pharma Signature Audit Administration View_PUI SIS HH Pharma Account Call Attendee View - Mobile SIS HH Pharma Professional Promotional Items View - Mobile SIS HH Pharma Professional Samples Dropped View - Mobile SIS HH Pharma Professional Call Products Detailed View - Mobile eDetailer Message Plan Preview View - Mobile eDetailer Presentation View - Mobile Pharma Call Literature View - Mobile Pharma Account List View - Mobile Pharma Account Contact View - Mobile Pharma Account Calls View - Mobile Pharma Account Addresses View - Mobile Pharma Account Affiliations View - Mobile Pharma Account Relationships View - Mobile Pharma Account Attachments View - Mobile Pharma Contact List View - Mobile Pharma Contact Call View - Mobile Pharma Contact Address View - Mobile Pharma Contact Best Contact Times View - Mobile Pharma Contact State Licenses View - Mobile Pharma Contact Affiliations View - Mobile Pharma Contact Relationships View - Mobile Pharma Contact Attachments View - Mobile

The following table lists the application views that are added by default as part of the seed data for Siebel Mobile application for Siebel Sales, so it is not necessary to manually add the views again.

Application	Default Views
Siebel Mobile application for Siebel Sales	SHCE Account List View - Mobile SHCE Account Contacts View - Mobile SHCE Account Opportunity View - Mobile SHCE Account Address View - Mobile SHCE Account Activities View - Mobile SHCE Account Team View - Mobile SHCE Sales Contact List View - Mobile SHCE Sales Contact Opportunities View - Mobile SHCE Contact Team View - Mobile SHCE Contact Address View - Mobile SHCE Sales Lead List View - Mobile SHCE Sales Lead Opportunities View - Mobile SHCE Opportunities List View - Mobile SHCE Sales Opportunities Contacts View - Mobile SHCE Sales Opportunities Products View - Mobile SHCE Sales Opportunities Quotes View - Mobile SHCE Sales Opportunities Activities View - Mobile SHCE Sales Opportunities Opportunity Team View - Mobile SHCE Quote List View - Mobile SHCE Quote QuoteItem View - Mobile SHCE Quote Order View - Mobile SHCE Quote Team View - Mobile SHCE Sales Orders List View - Mobile SHCE Sales Order line Item View - Mobile SHCE Activity List View - Mobile SHCE Sales Activity Contact Form View - Mobile SHCE Sales Activity Employee Form View - Mobile

The following table lists the application views that are added by default as part of the seed data for Siebel Mobile application for Siebel Field Service, so it is not necessary to manually add the views again.

Application	Default Views
Siebel Mobile application for Siebel Field Service	SHCE Service Account Assets View - Mobile SHCE Service Account Contacts View - Mobile SHCE Service Account Entitlements View - Mobile SHCE Service Account SRs View - Mobile SHCE Service Accounts View - Mobile SHCE Service Activity Assets List View - Mobile SHCE Service Activity Attachment View - Mobile SHCE Service Activity Contact Form View - Mobile SHCE Service Activity FS Expense View - Mobile SHCE Service Activity FS Instructions List view - Mobile SHCE Service Activity FS Steps View - Mobile SHCE Service Activity Home Page View - Mobile SHCE Service Activity Invoice Signature View - Mobile SHCE Service Activity SR List View - Mobile SHCE Service Activity Time View - Mobile SHCE Service Asset Entitlements View - Mobile SHCE Service Asset List View - Mobile SHCE Service Asset Measurement View - Mobile SHCE Service Asset Reading View - Mobile SHCE Service Asset Warranty View - Mobile SHCE Service FS Activity Part Movements View - Mobile SHCE Service FS Activity Recommended Parts Tools - Mobile SHCE Service FS Invoice - Auto Invoice View - Mobile SHCE Service Invoice Line Item Details View - Mobile SHCE Service Invoice List View - Mobile SHCE Service Invoice line Item View - Mobile SHCE Service My Part Browser View - Mobile SHCE Service Order line Item View - Mobile SHCE Service Orders List View - Mobile SHCE Service Part Browser Availability View - Mobile SHCE Service Part Browser Substitute View - Mobile SHCE Service SR Activity View - Mobile

Application	Default Views
	SHCE Service SR Invoices View - Mobile SHCE Service SR Orders View - Mobile SHCE Service Service Request Invoice Signature View - Mobile SHCE Service Service Request View - Mobile SHCE Technician Breaks View - Mobile SHCE Technician POU View - Mobile SHCE Technician Shifts View - Mobile

The following table lists the application views that are added by default as part of the seed data for Siebel Mobile application for Siebel Clinical, so it is not necessary to manually add the views again.

Application	Default Views
Siebel Mobile application for Siebel Clinical	LS Clinical My Site Visits View - Mobile LS Clinical Protocol Site List View - Mobile

Setting Up Selective Retrieval for Siebel Mobile Application Views

This task is a step in *Process of Configuring Siebel Server for Siebel Mobile*.

All Siebel Mobile disconnected application views are available to users in offline mode by default. Setting up selective retrieval for mobile application views is therefore a mandatory step if you want to restrict the number of views that will be downloaded to client devices and available to users in offline mode. For more information about setting up selective retrieval for mobile application views, see the following topics:

- *Configuring Access to Views*
- *Limiting Access to Views by Modifying Responsibilities*
- *Limiting Access to Views for All Responsibilities Globally*

Configuring Object Definitions for Siebel Mobile

This task is a step in *Process of Configuring Siebel Server for Siebel Mobile*.

It is not necessary to configure object definition data for the following Siebel Mobile disconnected applications because the object definitions are configured by default:

- Siebel Mobile disconnected application for Siebel Pharma
- Siebel Mobile disconnected application for Siebel Sales

- Siebel Mobile disconnected application for Siebel Field Service
- Siebel Mobile disconnected application for Siebel Clinical

However, for information about configuring object mappings for a new or customized business component, see *Configuring the Object Mappings for a New Business Component*.

Configuring Application Settings for Siebel Mobile

This task is a step in *Process of Configuring Siebel Server for Siebel Mobile*.

Application settings are configured in the Settings view. The following application settings must be configured for all Siebel Mobile disconnected applications:

- **Purge Interval,** which is set to 30 by default.

  This field specifies the duration of the Purge Interval for cleaning up the S_SD_CHG_TXN and S_DM_CHG_TXNPAR tables. These tables carry incremental data, and the volume of data continues to grow in these tables if a user fails to download data for a long time. If a user fails to download data during the Purge Interval, then all incremental data is purged by default.

  > **Note:** When the purge interval expires, the transaction router (TxnRouter) will not track the incremental changes for that node any more and a forced full download will be triggered the next time that the user goes offline (switches to disconnected mode).

- **Default Busobj,** which is used to download the business objects that are not based on any view in the Siebel Mobile disconnected application.
- **Application Directory,** which is used to specify the directory where user metadata is saved. For example: `hhsync\phm` (on Windows) or `hhsync/phm` (on UNIX). Forward slash must be used for UNIX.
- **Data Extraction Component (MobileDbXtract),** which is the component used for the mobile data extraction, must be created for Siebel Mobile disconnected applications. For more information, see *Setting Up the Disconnected Mobile Synchronization Component Group*.

  > **Note:** The data extraction component is configured by default for Siebel ePharma Mobile so it is not necessary to configure it again for the application.

- **Enable Batch Extraction,** which is used to configure batch synchronization for Siebel Mobile disconnected applications.

Use the following procedure to configure the application settings for Siebel Mobile disconnected applications.

To configure application settings for Siebel Mobile

1. Navigate to the Administration - Siebel Mobile screen, Application Administration, and then the Settings view.
2. Verify that Purge Interval is set to 30.
3. Set Application Directory, Default Busobj, and other application settings as required.

   For information about all the other application settings that can be configured for Siebel Mobile disconnected applications, see the following topics:

   - *Configuring Application Settings for Siebel Mobile*
   - *Siebel Mobile Application Settings*

- *Configuring the Application Directory Setting*

Configuring the Mobile Node for Siebel Mobile Users

This task is a step in *Process of Configuring Siebel Server for Siebel Mobile*.

The following steps must be performed for each Siebel Mobile disconnected application user. Setting up the mobile node triggers transaction logging for the corresponding user on the Siebel Server.

To configure the mobile node for a disconnected application user

1. Log in to the Siebel application as a user with administrator privileges.
2. Navigate to the Administration - Siebel Mobile screen, then the Mobile Clients view.
3. In the Mobile Clients applet, click new to create a new record with the following values:
   - **User ID.** Click the lookup icon, and then select a user ID from the drop–down list that opens.
   - **Mobile Application.** Click the lookup icon, and then select the appropriate mobile application name from the drop-down list that opens.
   - **Mobile Client.** After you complete the Mobile Application field, the Mobile Client field automatically shows the following: `<username>-MOBILE`.
   - **Routing Model.** Click the lookup icon, and then select Mobile Client - Standard from the drop-down list that opens.
4. Connect to the server manager and run dbxtract (database extract) for each application user. For more information, see *Running Database Extract for Siebel Mobile Users*.

For more information about setting up users in Siebel Mobile disconnected applications, see *Setting Up Users for Siebel Mobile*.

Running Database Extract for Siebel Mobile Users

This task is a step in *Process of Configuring Siebel Server for Siebel Mobile*.

You must run dbxtract (database extract) for every Siebel Mobile disconnected application user. Running dbxtract for each user takes approximately 3-10 minutes.

Dbxtract is the Siebel Remote component used to extract data based on database tables. Running dbxtract generates full user data and also the visibility database that is used to route the incremental changes to the user. Dbxtract generates the visibility database only for Siebel Mobile users that are not legacy remote users.

> **Note:** If the position changes for a Siebel Mobile disconnected application user (for example, the data visibility for the user increases or decreases), then you must run dbxtract again for that user. After dbxtract is run again, a full data and metadata download is enforced on the disconnected client by Siebel Mobile when the mobile client next sends a synchronization request to the Siebel Server.

To run dbxtract from srvrmgr command line

1. Start a task for dbxtract with the following parameters:

```
client="<client-name>"
```

For example, for SPORTER-MOBILE, run dbxtract as follows:

```
start task for comp dbxtract with client="SPORTER-MOBILE"
```

2. Run the same command for each configured Siebel Mobile disconnected application user.

   You can also run dbxtract against a list of users that are specified in a command list or in a file, for example, as follows:

```
start task for comp dbxtract with
client="SPORTER-MOBILE,LHILL-MOBILE,BFRIEDEL-MOBILE"
```

   You can check the dbxtract log file to see the status (completed or failed) for each user specified in the command.
3. If the transaction processor component is not running, then run the following command:

```
start task for comp txnproc
```

4. To change the interval for the component, run the following command:

```
change param sleeptime=<value> for comp txnproc
```

For more information about setting up users for Siebel Mobile disconnected applications, see *Setting Up Users for Siebel Mobile* and *Roadmap for Configuring Incremental Synchronization for Siebel Mobile*.

Configuring a Hybrid Server Setup for Siebel Mobile

This task is a step in *Process of Configuring Siebel Server for Siebel Mobile*.

You can set up the MobileSync component group and also Siebel Mobile disconnected applications on Microsoft Windows or any UNIX platform. The MobileSync component group includes the MobileDbXtract component which is a new component, and the following legacy remote components, which were formerly part of the Siebel Remote component group: TxnRoute, TxnProc, and DbXtract.

Use the following procedure to configure a hybrid server setup for Siebel Mobile. Configuring a hybrid server setup is optional.

> **Note:** The complete system requirements and supported platform certifications are available from the Certifications tab on My Oracle Support. For information about Certifications, see article 1492194.1 (Article ID) on My Oracle Support.

To configure a hybrid server setup for Siebel Mobile

1. Navigate to the Administration - Server Configuration screen, Enterprises, and then the Component Definition view.
2. Query for one of the following, as required:
   - ePharma Mobile Object Manager (<Lang>)
   - Sales Mobile Object Manager (<Lang>)

- Service Mobile Object Manager (<Lang>)

3. Click Component Parameters, and then click Advanced.
4. Search for Siebel File System, and then update the value to the respective windows path.

Guidelines for Developing Data Filters for Siebel Mobile

This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications* and *Process of Configuring Siebel Server for Siebel Mobile*.

Siebel Mobile disconnected uses the existing Siebel application framework for data filtering. Because Sieble Mobile disconnected applications run as a Siebel App on mobile devices, careful analysis is required to limit the amount of data that is downloaded to client devices. Before starting to design and develop filters for Siebel Mobile disconnected, it is recommended that you consider the following guidelines:

- Examine all of your Siebel application configuration and make a note of all the business objects and business components.
- For each business object and business component, determine if there is a search specification that can be specified for daily usage, which will cut down on user data size. Since there is typically a storage limit on devices, data filter configuration is required to limit the number of records that are downloaded to mobile devices.
- Because drop-down lists tend to carry a lot of data, especially if there is no search specification defined for the drop-down list, review the buscomps used in droo-down lists and design filters for those business components.
- The Siebel Mobile administration screens include views for defining filters on business objects. Make sure that you define filters for any business object that has a large data set, and that you specify one default filter (for the business object) to avoid excessive data download.

Business component data filters must be configured to control the volume of data that is downloaded for offline operations. A number of generic data filters are set up by default for Siebel Mobile disconnected applications, but you can modify the default data filters to suit your own business needs. For more information about configuring data filters, see *Data Filtering for Siebel Mobile*.

Customizing Siebel Mobile Applications

You can use the Siebel Open UI framework, templates, and style sheets to configure the user interface and behavior of your mobile application to address your own particulabusiness needs. You can customize the look-and-feel of your mobile application by modifying the JavaScript files. You can also deploy your own presentation models and physical renderers that might or might not use one or more third-party JavaScript plug-ins of your choice.

The following customizations are recommended:

- Set up the jQuery grid (jqGrid) renderer so that the mobile application data displays in grid (tabular) format.
- Set up landscape and portrait layout for mobile applications so that the views are visible on tablets.
- Set up infinite scroll for mobile applications, which is a feature that allows you to scroll through records in a list applet indefinitely.
- Set up Location Services so that when you tap the Route (the pin icon) in mobile applications, a map window opens showing the location details.

- Set up transitions, themes, styles, and colors as required.

For more information about the Siebel Open UI templates and style sheets, about how to customize the look-and-feel of your mobile application features, and about how to implement each of these recommendations, see *Configuring Siebel Open UI* .

Related Topics

Inline Editing

Check Boxes

Data Display

Displaying Location Details in Siebel Mobile

Configuring Application Settings for Siebel Mobile

Copying and Deleting Siebel Mobile Applications

You can copy and delete duplicate copies of mobile applications in Siebel CRM as shown in the following procedure. You should not delete any Siebel-provided applications. Note the following:

- When you copy a mobile application, the application plus all the associated child business component records are copied.
- When you delete a Siebel Mobile application, the application plus all the associated child business component records are deleted.
- Before deleting a mobile application, it is recommended that you make a copy of it first.

Note: The Deep Copy and Deep Delete user properties are used to copy or delete records in Siebel Mobile. For more information about using Deep Copy and Deep Delete to copy and delete records in child business components, see *Siebel Developer's Reference* .

To copy and delete mobile applications in Siebel CRM

1. Log in to the Siebel Server using a user ID with a Siebel administrator responsibility.
2. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
3. Create a copy of an existing mobile application as follows:
   a. Select an application from the upper applet.

      For example: Siebel ePharma Mobile (ENU)
   b. Select Copy Record in the menu.

      A duplicate record is created for the mobile application with the same Name and Language Code.
   c. In the Language Code field, select a different language code.
   d. Verify that the copy was successful by checking the records in the following child applets: Object Definition, Modification Tracking, Business Component Filters, Business Object Filters, and Settings.
4. Delete a duplicate or a copy of a mobile application as follows, but do not delete any Siebel-provided applications:

a. Select an application from the upper applet.

   For example: Siebel ePharma Mobile (ITA)

b. Select Delete Record in the menu, and then OK when prompted for confirmation to delete the selected mobile application record.

   The record is deleted from the list of mobile applications.

Troubleshooting Siebel Mobile Applications

This section highlights some important common errors and logging errors that users might encounter when trying to access and use Siebel Mobile disconnected applications on their mobile device.

Common Errors

The following tables highlight some common errors that users might encounter when trying to access and use Siebel Mobile disconnected applications on their mobile device.

Error 1

Item	Description
Problem	The Siebel Mobile disconnected application is not showing the latest information or most recent changes.
Solution	Use the Reset All option in the Siebel app to reset the application data. For more information, see *Resetting the Host Server Using the Siebel App*.

Error 2

Item	Description
Problem	The Siebel Mobile disconnected application keeps failing or locking.
Cause	The cause of this problem can be one or both of the following: • One or more Siebel application client files have changed. • You have reached, are nearing, or have exceeded the available storage space on your mobile device.
Solution	Check that you have not exceeded the storage capacity on your mobile device.

Error 3

Item	Description
Problem	When using Siebel Mobile disconnected applications on Solaris, an authentication message appears after every operation.
Cause	The Bitmap Category object settings in the repository are incorrect. Note that this issue is seen only on Solaris platforms.
Solution	Modify the Bitmap Category object in the repository by updating the file name for the following categories: • Leads Applet - Mobile Bitmap Name: Lead Form Applet Icon File Name value: LeadsGrey_Large_Highlight.png • Quote Applet - Mobile Bitmap Name: Quo Form Applet Icon File Name value: QuoteGrey_Large_Highlight.png • Opportunities Applet - Mobile Bitmap Name: Oppty Form Applet Icon File Name value: OpportunityGrey_Large_Highlight.png

Logging Errors

The following tables highlight some common logging errors that users might encounter, including how to debug the errors. You can use the Log button on the application banner to review the log messages and debug information for disconnected applications, provided that logging has been enabled for the application. For more information, see *Siebel Mobile Application Logging*.

Logging Error 1

Item	Description

Problem	Data created in offline mode is not visible in online mode after triggering a data upload.
	The log event setting is set to UpSync (to debug issues with uploading data in offline mode).
	Messages similar to the following examples appear in the log console:
	`SyncThreadHandler - OnCall, UpSync failed.`
	`AppMgr - Ping, Pinging Server....`
	`AppMgr - CheckServerConnection, Checking server connection....`

Item	Description

	`AppMgr - CheckServerConnection, Network/Server is unavailable. Continuing in offline mode`
	`AppMgr - CheckServerConnection, Checking server connection....Failed`
	`AppMgr - Ping, Pinging Server.... Failed.`
	`SyncThreadHandler - OnCall, UpSync failed.`

Cause	The cause of this problem can be one or more of the following: • Failure to upload data. • Conflicts after uploading data.
Solution	The steps to debug using the logs are: • Tap Log (the bug icon) on the application banner to open the log console. • Review the log messages to check whether there was a failure in uploading data or if there was a server connection failure. • In the case of an *UpSync* or *Upload data failure* message, check the server logs for more detailed information. • If the logs show an *UpSync completed* message, then check for conflicts.

Logging Error 2

Item	Description

Problem	After tapping Go Offline on the application banner, data extraction and the transition to offline mode is taking too long to complete.
	
	The log event setting is set to Data Extraction. Messages similar to the following examples appear in the log console:
	
	`ProactiveCacheBuilder - ParseData Table:PharmaProfessionalStateLicenses, Columns: 15, No. of records: 39`
	`ProactiveCacheBuilder - ParseData, Creating table LSMessagingPlansBC`
	`ProactiveCacheBuilder - Unique Keys, OwnerId,Version,Name`
	
	The syntax for these error messages is as follows:
	
	`ProactiveCacheBuilder - ParseData Table: <BusComp Name without alpha chars>, Columns: <#columns>, No. of records: <#records>.`

Cause	The cause of this problem can be one or more of the following: • Too many records were downloaded for some of the business components (BusComps). • There were SQL errors when caching the downloaded records into the Web database. • There were network issues (the server, component, or VPN is down) or appcache issues.
Solution	The steps to debug using the logs are: • After download, tap Log (the bug icon) on the application banner to open the log console. • Verify the number of records downloaded for each business component (BusComp). • For BusComps with large volumes of records, modify the filter specification accordingly so that fewer records will be downloaded in future.

Item	Description
	• In the case of SQL errors, fix the issue as suggested by the error message in the log console.

Logging Error 3

Item	Description
Problem	In offline mode when trying to save a newly created record, the following error message appears: `"Field '<FieldName> ' not found in BusComp."`
Cause	The field specified in the error message was not downloaded in offline mode.
Solution	The steps to debug are as follows: • Provided that the browser's debugging tool to view browser resources is available, then query the Web database to verify whether the field is available in the BusComp.

Logging Error 4

Item	Description

Problem	In offline mode when saving a newly created record, some default fields are populated with incorrect values and some fields are given validation error messages.
	
	The log event setting is set to Client System.
	
	A message similar to the following example appears in the log console:
	
	`BusComp - SetDefaultValues, where expression type is: PreDefault, BC name is: Action, field: Duration Minutes, value: 15, expression: "IIf ([IsiLog] = 'N', [Work Time Min],Expr: "LookupValue(""APPOINTMENT_DURATION"", ""15"")")"`
	
	The syntax for this error message is as follows:
	
	`BusComp - SetDefaultValues, where expression type is : <expression type i.e. either PreDefault or PostDefault>, BC name is <bcname>, field: <field name>, value: <evaluated value>, expression: <expression>`
	
	A messages similar to the following example appears in the log console:
	
	`SyntaxError: Parse error on line 1: ...s Stock Employee Id - Owned by Id] = 'Y' ----------------------^ Expecting 'TOKEN_IDENTIFIER', ']', 'TOKEN_SPL_CHAR', 'TOKEN_NUMBER', got 'TOKEN_MINUS' Expression: [Is Product Allocation Type] = 'Y' && [Owned By Id] = LoginId() &&`

Item	Description
	`[Stop Sampling Flag] = LookupValue("BOOLEAN_VALUE","N") && (([Active Flag] = LookupValue ("BOOLEAN_VALUE","Y") && [Is Stock Employee Id - Owned by Id] = 'Y' && [Is Lot Product Type] = 'Y' && [Is Lot Stock] = 'Y' && [Inventory Audit Report Id] IS NULL) || (([Inventory Flag] = 'N' || [Inventory Flag] IS NULL) && ([Lot Flag] = 'N' || [Lot Flag] IS NULL)))` The syntax for this error message is as follows: `SyntaxError: Parse error on line #: <error message> Expression: <expression>`
Cause	There are issues in the Siebel Repository with the expressions configured for the PreDefault, PostDefault or ValidationSpec property of the BusComp field.

Solution	The steps to debug using the logs are:
	• Tap Log (the bug icon) on the application banner to open the log console, and then tap Clear to clear any existing logs.
	• Navigate to the view where the error occurs, and then create a new record and save it.
	• Close any error message that appears, and then return to the log console.
	• In the log console, search for log messages that start with the following:
	`"BusComp - SetDefaultValues..."`
	These log statements provide information about the PreDefault and PostDefault expressions that are set for fields when creating new records and the evaluated value. Verify whether the value was evaluated correctly.
	• If the log console shows messages similar to the following, then the expression configured for the field in the Siebel repository is incorrect and must be fixed as indicated by the error message:
	`SyntaxError: Parse error on line #:`
	• If the browser's debugging tool to view the browser resources is available, then verify all expressions in the application by running the SiebelApp.Metadata.VerifyExpressions() API in the log console, and then checking the logs for errors.
	• To get a list of all the expressions used in the application, run the SiebelApp.Metadata.GetAllExpressions() API in the log console. That is, the expressions used in all of the following:
	o BusComp Field PreDefault, PostDefault, and ValidationSpec property.
	o BusComp search specifications.
	o Applet Search specification.
	o CanInvokeMethod applet user property.
	o OnFieldUpdateSet BusComp user properties.

Logging Error 5

Item	Description
Problem	In offline mode when trying to save a newly created record, the following error message appears: `"<FieldName> is a required Field.Enter an appropriate value.(SBL-UIJ-00126)"` The log event setting is set to Client System (to debug error messages displayed in offline mode). A message similar to the following example appears in the log console: `BusComp - SetDefaultValues, where expression type is : PreDefault, BC name is: Action, field: Duration Minutes, value: 15, expression: "IIf ([IsiLog] = 'N', [Work Time Min], Expr: "LookupValue(""APPOINTMENT_DURATION"", ""15"")")"` The syntax for this error message is as follows: `BusComp - SetDefaultValues, where expression type is <expression type/PreDefault or PostDefault>, BC name is <bcname>, field is <field name>, value is <evaluated value>, and expression is <expression>.` A message similar to the following example appears in the log console: `SyntaxError: Parse error on line 1:...s Stock Employee Id - Owned by Id] = 'Y' ----------------------^ Expecting 'TOKEN_IDENTIFIER', ']', 'TOKEN_SPL_CHAR', 'TOKEN_NUMBER', got 'TOKEN_MINUS' Expression: [Is Product Allocation Type] = 'Y' && [Owned By Id] = LoginId() && [Stop Sampling Flag] = LookupValue("BOOLEAN_VALUE","N") && (([Active Flag] = LookupValue ("BOOLEAN_VALUE","Y") && [Is Stock Employee Id - Owned by Id] = 'Y' && [Is Lot Product Type] = 'Y' && [Is Lot Stock] = 'Y' && [Inventory Audit Report Id] IS NULL) || (([Inventory Flag] = 'N' || [Inventory Flag] IS NULL) && ([Lot Flag] = 'N' || [Lot Flag] IS NULL)))`  The syntax for this error message is as follows:  `SyntaxError: Parse error on line #: <error message> Expression: <expression>.`
Cause	The suspected causes of this problem are: • The required **<FieldName>** is exposed in the UI with an asterisk (*****) next to it, but the field contains no value. • The required **<FieldName>** is not exposed in the UI and has a PreDefault or PostDefault expression to set its value when a new record is saved. The issue here could be one of the following: The expression failed to parse. The expression includes fields with no values (where no values are set), leading to an incorrect evaluation. The expression looks up a value in a particular LOV Type, but that LOV Type is not downloaded.

Item	Description

Solution	The steps to debug this error using the logs are:
	• Tap Log (the bug icon) on the application banner to open the log console, and then tap Clear to clear any existing logs.
	• Navigate to the view where the error occurs, and then create a new record and save it.
	• Close any error message that appears and then return to the log console.
	• In the log console, search for log messages that start with the following:
	`BusComp - SetDefaultValues...`
	These log statements provide information about the PreDefault and PostDefault expressions that are set for fields when creating a new record and the evaluated value. Verify whether the value was evaluated correctly.
	• If the expression contains functions similar to the following, then the expression verifies whether the LOV Type and the required value is downloaded in the local database:
	`LookupValue(<LOV Type>,<value to look up>)`
	• If the log console shows log messages similar to the following, then the expression configured for the field in the Siebel repository is incorrect and must be fixed as indicated by the error message:
	`SyntaxError: Parse error on line #:`

Logging Error 6

Item	Description

Problem	In offline mode, the applet shows an incorrect set of records or no records at all.
	The log event setting is set to Client System (to debug error messages displayed in offline mode).
	Messages similar to the following example appear in the log console:
	`BusComp - SearchSpec, Name: Pharma Professional Call - Mobile,`
	`SearchSpec: (( ("Category" = "Contact Call")`
	`OR ("Category" = "Attendee Call"))`
	`OR ("Category" = "Account Call"))`
	The syntax for this error message is as follows:
	`BusComp - SearchSpec, Name: <BusComp Name>,`
	`SearchSpec: <BusComp Search Spec>`

Cause	The cause of this problem can be one or more of the following: • The downloaded records do not satisfy the business component search specification. • The visibility of the downloaded record does not match the visibility of the view in which the record is expected to be displayed. • The filter specification that is applied to download the data is incorrect.

Item	Description
Solution	The steps to debug using the logs are: • Tap Log (the bug icon) on the application banner to open the log console, and then tap Clear to clear any existing logs. • Navigate to the view where the error occurs. • Check the logs to verify the business component search specification that was applied when the view was populated with records. Verify whether or not the missing records satisfied the search specification. • If the browser's debugging tool to view the browser resources is available, then query the Web database to determine whether the required records are downloaded and the value in the PDAVisibilityTypes column for the records. Verify the visibility of records. • Verify the filter specification applied to download the records.

4 Administration

Application Administration for Siebel Mobile

This chapter describes how to administer Siebel Mobile disconnected applications. It includes the following topics:

- *Setting Up Users for Siebel Mobile*
- *Configuring Access to Views*
- *Administration Screen Settings for Siebel Mobile*
- *Configuring Application Settings for Siebel Mobile*
- *Configuring Component-Level Settings for Siebel Mobile*
- *Thread Throttling*
- *Load Balancing*
- *Configuring Synchronization for Siebel Mobile*
- *Monitoring Synchronization Sessions*
- *Troubleshooting Synchronization Failures Due to Business Component Filters*

Note: By default, most of the parameters referenced in this chapter are not automatically available as options in the menus of your Siebel Mobile disconnected application, and as a result they are not set in the default configuration. If you want to make these and any other new parameters available, then you must add them to your Siebel Mobile disconnected application by creating a new parameter record for each parameter that you want to make available.

Setting Up Users for Siebel Mobile

This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications*. To set up users for a Siebel Mobile disconnected application, you must perform a number of tasks. The tasks that you must perform include the following:

- Create user accounts and assign passwords for each user of the Siebel Mobile disconnected application. For more information, see *Siebel Applications Administration Guide* .
- Assign responsibilities (user roles) for each user of the Siebel Mobile disconnected application and associate user responsibilities with the application views. For more information, see *Assigning Responsibilities to Siebel Mobile Users* and *Configuring Access to Views*.
- *Adding Business Component Filters for Siebel Mobile Users*
- *Adding Business Object Filters for Siebel CRM Users*

Adding Business Component Filters for Siebel Mobile Users

The Business Components Filters tab in the Administration - Siebel Mobile, Application Administration view contains the synchronization filter settings for business components. If you want to restrict the contents of selected business

components to reduce the data set that is visible to your users, then you can change the filter settings in this view. For more information about adding business component filters, see the following:

- *Constructing Business Component Filters for Siebel Mobile*
- *Setting Business Component Filters for Siebel Mobile*
- *Removing a Business Component Filter Setting*
- *Configuring Business Component Filters for Pop-up Applets*

Adding Business Object Filters for Siebel Mobile Users

The Business Object Filters tab in the Administration - Siebel Mobile, Application Administration view contains the synchronization filter settings for business objects. If you want to ensure that users avoid downloading too many records, then you can change the filter settings in this view. For more information about adding business object filters, see the following:

- *Constructing Business Object Filters for Siebel Mobile*
- *Setting Business Component Filters for Siebel Mobile*
- *Removing a Business Component Filter Setting*
- *Business Object Filter Chaining*

Configuring Access to Views

Certain views in Siebel Mobile are useful only when there is connectivity as they are used, for example, to update information in real-time. Because such views do not serve an important purpose in offline mode, it is recommended that you do not download these views to the client as they only take up valuable device storage space. As a general rule, if the mobile application has views that are useful in online but not in offline mode, then those views along with their data must not be downloaded to the client device in offline mode. For example, the Siebel Mobile application for Siebel Field Service has some views related to Shifts, Breaks and POUs which are useful only when there is connectivity.

Each view and responsibility in Siebel CRM has a Local Access flag. You can use the Local Access flag to control which views mobile users can access when using Siebel Mobile disconnected as follows:

- When Local Access is set to TRUE (checked), all users with the view in one of their responsibilities can access the view when using the Siebel Mobile disconnected application.
- When Local Access is set to FALSE (unchecked), users cannot access the view when using the Siebel Mobile disconnected application.

The following procedures show you how to limit the views that the Siebel Mobile disconnected application displays.

- *Limiting Access to Views by Modifying Responsibilities*
- *Limiting Access to Views for All Responsibilities Globally*

For more information about defining local access to views, see *Siebel Remote and Replication Manager Administration Guide* . For more information about responsibilities and access control, see *Siebel Security Guide* .

Limiting Access to Views by Modifying Responsibilities

This topic shows you how to limit the views that the Siebel Mobile disconnected application displays by modifying access to the view for a user responsibility.

To limit access to views by modifying a responsibility

1. Identify the views that users will not require in offline mode.
2. Log in to the Siebel application as a user with administrator privileges.
3. Navigate to the Administration - Application screen, then the Responsibilities view.
4. Query for and select the appropriate responsibility or user role where you want to limit access.

   For example, query for Service Administrator.
5. Select the Responsibilities tab, and then do the following:

   a. In the lower Users applet, review and update the list of users assigned to the responsibility as required.
   b. In the lower Views applet, deselect the Local Access check box for each view that you do not want to display in offline mode.

      For example, deselect the Local Access check box for the following views in the Siebel Mobile application for Siebel Field Service, which are not required in offline mode:

      ```
      SHCE Technician Breaks View - Mobile
      SHCE Technician POU View - Mobile
      SHCE Technician Shifts View - Mobile
      ```

      > **Note:** The Local Access check box is selected by default for all views, which means that all mobile application views are downloaded to client devices and available to users in offline mode by default.
6. Repeat the previous two steps for each additional responsibility that contains views which are not required in offline mode.
7. Inform users as required to log out, and then log back in to the mobile application for the changes to take effect.

Related Topics

Assigning Responsibilities to Siebel Mobile Users

Setting Up Users for Siebel Mobile

Limiting Access to Views for All Responsibilities Globally

This topic shows you how to limit the views that the Siebel Mobile disconnected application displays by modifying access to the view for every responsibility globally that is associated with the view.

To limit access to views for all responsibilities globally

1. Identify the views that users will not require in offline mode.
2. Log in to the Siebel application as a user with administrator privileges.
3. Navigate to the Administration - Application screen, then the Views view.
4. Query for the appropriate view where you want to limit access.

For example, query for the following: SHCE Technician Breaks View - Mobile.

5. Deselect the Default Local Access check box for the view.

   The Default Local Access setting determines whether a view is available for the users that are assigned to the responsibilities that are associated with this view.
6. Repeat the previous two steps for each view where you want to limit access for every responsibility that references the view.

Related Topics

Assigning Responsibilities to Siebel Mobile Users

Setting Up Users for Siebel Mobile

Administration Screen Settings

Administration screen settings for Siebel Mobile can appear at three levels: application, component, or user. Certain settings are allowed only at specific levels. There are also two types of settings:

- **Single-line setting.** For this setting, only one row can contain a unique setting name at a given level. Thus, a single-line setting at the User level can be used only once at that level. For single-line settings, the Sequence column must always contain a value of zero. For single-line settings, you can leave the sequence column value unchanged, which results in a default value of zero being assigned.
- **Multi-line settings.** For this setting, the sequence column is necessary to allow multiple rows. The sequence column has no effect on actual processing, but is part of the logical key in the database table. When you create a new record in this database table, the record must have a unique logical key. For multi-line settings, each line must include a different sequence number to avoid logical key conflicts.

If the combination of setting name and sequence number is not unique for a particular parent record (application, component, or user), then you get an error message when stepping off or saving the record. Multi-line entries must contain the correct key values before they can be saved to the database.

About the Rules for an Override

The rules for an override are that any setting, whether a single-line setting or multi-line setting, specified at the lower levels also overrides that same setting name at higher levels. Thus the settings at the application level apply unless specific settings are overridden for a particular component or a particular user. When an override occurs, it occurs for the complete setting name. Thus, if a particular multi-line setting has three rows at the user level and twelve rows at the application level, then the resulting multi-line setting value for that setting contains only the three rows at the user level. An override mechanism also allows a setting to be removed, rather than replaced.

Removing a Setting from a Higher Level

The following procedure shows how to remove a setting from a higher level.

To remove a setting from a higher level

- Specify the setting name that you want to remove, with an empty setting value.

Related Topic

Configuring Application Settings for Siebel Mobile

Configuring Application Settings for Siebel Mobile

The Administration - Siebel Mobile, Application Administration view lists all the mobile applications that are available within your enterprise. From the Application Administration view, you can create new application settings, change default settings, and administer settings that have already been created. Some of the settings are described in *Siebel Mobile Application Settings*.

The following tabs, which are available from the Application Administration view, are used by the synchronization engine to extract application definition and user data:

- **Business Component Filters.** Use this tab to define the synchronization filter settings for business components. For more information, see *Adding Business Component Filters for Siebel Mobile Users*.
- **Business Object Filters.** Use this tab to define the business object level filters, which restrict data that is downloaded to the mobile client application upon synchronization. For more information, see *Adding Business Object Filters for Siebel CRM Users*.
- **Settings.** Use this tab to define parameter settings for your application. For more information, see the following:
  - *Configuring a New Application Setting*
  - *Configuring the DefaultBusObj Setting Value*
  - *Extracting Non-UI Fields During Synchronization*
  - *Configuring the Application Directory Setting*
  - *Siebel Mobile Application Settings*

Note: You use the User Administration view and its tabs in a similar way to how you use the Application Administration view and its tabs, except that you are configuring business components, business objects, and user settings at the user level rather than at the application level. The mobile application is populated with the user administration data when the user performs a synchronization. The user administration settings override the Siebel Server component-level and application-level settings.

Configuring a New Application Setting

Use the following procedure to configure a new application setting. This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications*.

To configure a new application setting

1. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
2. Select the appropriate mobile application from the upper applet.
3. Click the Settings tab, and then click New.
4. Click the name field, and select the setting you require.
5. Click the Value field, and enter the text of the setting.

Configuring a DefaultBusObj Setting Value with More Than 2000 Characters

The Siebel Mobile disconnected application setting value field has a limit of 2000 characters. The following procedure shows how to create a default business object (DefaultBusObj) setting value with more than 2000 characters.

To configure the DefaultBusObj setting values

1. Break the value into multiple lines of DefaultBusObj settings.
2. Enter these settings using the same DefaultBusObj value format:

   ```
   BusObj|Visibility|Query|BusComp_1|query specifications_1[|BusComp_n|query
   specifications_n]
   ```

   When defining multiple lines of DefaultBusObj settings for a single business object, all view modes and filters must match. If a business component is found in multiple DefaultBusObj settings for a single business object, then the business component's query specifications are concatenated with a space and appended to the previous business component's query specifications. You must be aware of this effect in order to decide if both query specifications must be combined with an OR operator or AND operator.
   The DefaultBCuserProps and DefaultFields settings for a single business component can also be broken into multiple lines of settings if their values exceed 2000 characters. These settings must all be entered using the same value format as well:

   ```
   BusComp|BCUserProp_1[|BCUserProp_n] or BusComp|Field_1[|Field_n]
   ```

Extracting Non-UI Fields During Synchronization

Fields displayed in the UI and fields that are part of the calculated field are extracted to the Siebel Mobile disconnected application during the synchronization process. However, not all fields in the business component are extracted. Often, you might have to refer to other fields in the user property that are either not exposed in the UI or they are calculated fields. For example, a user enters a value in the Amount field through the UI. This action updates a value in the Status field, but the Status field is not displayed in the UI and therefore is not automatically extracted to the Siebel Mobile disconnected application. Such fields must be sent to the Siebel Mobile disconnected application during synchronization.

> **Note:** Calculated fields are downloaded from the Siebel Server and appear in the Siebel Mobile disconnected application. In offline mode, the calculated values for the new records created are set based on the fields available offline.

To extract specific non-UI fields during synchronization

1. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
2. Click the Settings tab.

   You use the Settings tab to define the parameter settings for your application.
3. Select, for example, Siebel ePharma Mobile Application Name.
4. Click Query, enter Account, and click Execute Query.
5. Select the DefaultFields Directive for the Account business component, and add the following to the end of the Value column:

   ```
   |Start Time|End Time
   ```

Configuring the Application Directory Setting

Application Directory is an application-level parameter that is defined in the Administration - Siebel Mobile, Application Administration, Settings view. The default value for this parameter in the standard product is `hhsync\app_name`, where app_name is the name of the application, such as salesm or servicem, and so on. You can set this parameter using the following procedure. This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications*.

To configure the Application Directory setting

1. Log in to the Siebel Server using a user ID with a Siebel administrator responsibility.
2. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
3. Select the appropriate application (for example, Siebel ePharma Mobile) from the upper applet.
4. Click the Settings tab, and set the value of the Application Directory parameter to be the shared network location using a UNC format, for example, as follows:

   ```
   \\shareddsk\hhsync\phm
   ```
5. Save the change.
6. Restart the Siebel Application Object Manager server component for the Siebel Mobile disconnected application.

Note: The location for the Application Directory must be a networked, high performance, highly available drive. SAN (Storage Area Network) or NAS (Network Access Server) with a high RAID (Redundant Array of Independent Disks) rating is a good option for this purpose.

Configuring the Application Directory Setting for Multiple Servers

The following procedure shows you how to set the Application Directory parameter for Siebel Mobile disconnected applications in a multiple server or hybrid environment (for example, Microsoft Windows and UNIX).

To configure the Application Directory setting for multiple servers

1. Set up a shared CIFS (or Samba) FileSystem folder between Windows and UNIX servers.

On Windows for example, a folder called mobile is created on the c:\ drive (`c:\mobile`) and Siebel Servers are installed under `c:\23044\ses\siebsrvr`.

On Linux for example, a folder called mobile is mounted as `/` somepath `/mobile` (which points to the Windows folder) and Siebel Servers are installed under `/export/home/siebelqa1/23044/ses/siebsrvr`.

2. Create the hhsync subfolder `c:\mobile\hhsync` as follows:

```
mkdir c:\mobile\hhsync
```

3. On Windows, use mklink to link `siebsrvr\hhsync` to the shared folder `c:\23044\ses\siebsrvr` as follows:

```
C:\23044\ses\siebsrvr> mklink /D C:\23044\ses\siebsrvr\hhsync
c:\mobile\hhsync
```

4. On UNIX, link `siebsrvr/hhsync` to the shared folder as follows:

```
ln -s /somepath/mobile/hhsync/export/home/siebelqa1/23044/ses/siebsrvr/hhsync
```

5. Log into the Siebel Server using a user ID with a Siebel administrator responsibility, and then do the following:
   a. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
   b. Select the appropriate application (for example, Siebel ePharma Mobile) from the upper applet.
   c. Click the Settings tab, and set the value of the Application Directory parameter to `hhsync/phm`.

      On Microsoft Windows, this points to: `.\siebsrvr\hhsync\phm`.

      On Linux, this points to: `./siebsrvr/hhsync/phm`.
   d. Save the change and restart the Siebel Application Object Manager server component for the Siebel Mobile disconnected application.

Siebel Mobile Application Settings

The following table describes the application settings that you can configure for Siebel Mobile disconnected applications.

Product Group	Server Components
Application Directory	Single-line setting. Specifies the working directory (UNC path) for the Siebel Mobile disconnected application synchronization component where user data is stored. A valid value for Application Directory is as follows: `\\server name\directory name` For more information, see *Configuring the Application Directory Setting Configuring the Application Directory Setting for Multiple Servers*.
DBExtractThreadLoad	Single-line setting. This parameter enables thread-throttling functionality for database-extraction threads. DBExtractThreadLoad is the load (or weight) that is assigned to each individual, database-extraction thread. For each running database-extraction thread, this load value is used to determine the total system load, which is then compared with the MaxTotalThreadLoads value. A new thread is started only if the total system load does not exceed the MaxTotalThreadLoads value. A value of zero disables throttling of the database-extraction threads. The default value is 2.

Product Group	Server Components
	A valid value for DBExtractThreadLoad is any integer greater than or equal to zero (0).
DefaultBusObj	Multi-line setting. This parameter is used to force the extraction of a business object and its designated business components. DefaultBusObj is typically used when a business component is not extracted because it is not specified by using the DefaultView setting and is required for the application to function correctly. This setting is also used to designate business components that function as reverse business objects (RBOs). For more information about QBE (query by example) structure, see *Constructing Business Component Filters for Siebel Mobile*. Valid values for DefaultBusObj are as follows: `Business Object Name|Visibility Level||Business Component Name|QBE query construct` For more information, see *Configuring the DefaultBusObj Setting Value*.
DefaultFields	Multi-line setting. This parameter is used to force the extraction of fields for a particular business component, which is typically the case where the business component is extracted through the DefaultView setting. However, because the field is not visible on the applet, it is not extracted. Also when a hidden business component is extracted through the DefaultBusObj setting, it is necessary to specify all of the fields that must be extracted for the business component. If no fields are specified using this setting, then the business component is not extracted in this case. Valid values for DefaultFields are as follows: `Business Component Name|Field1|Field2|`... For more information, see *Extracting Non-UI Fields During Synchronization*.
DefaultHandheldInsertMode	Single-line setting. This parameter enables the processing of insert operation failures for synchronization. If DefaultHandheldInsertMode is enabled, then synchronization stops when it encounters a data conflict during an insert operation. Users or administrators must resolve the data conflict before synchronization can resume. This feature is disabled by default. Valid values for DefaultHandheldInsertMode include one of the following: • NoFail • FailOnError
EnableBatchExtraction	Single-line setting. This parameter enables or disables the batch synchronization functionality. Disable batch synchronization is the default. For more information about batch synchronization, see *Configuring Batch Synchronization for Siebel Mobile*.
EnableThrottleDebugMode	Single-line setting. This parameter enables or disables thread-throttling functionality. Valid values for EnableThrottleDebugMode are TRUE or FALSE.
MaxThrottleWaitTime	Single-line setting. This parameter is used for thread-throttling functionality. MaxThrottleWaitTime is the upper limit on the amount of time (in minutes) that any individual throttling request is allowed to wait. The default value is 5. A valid value for MaxThrottleWaitTime is any integer greater than or equal to zero (0).
MaxTotalThreadLoads	Single-line setting. This parameter is used for thread-throttling functionality. It defines the maximum number of total thread loads (determined by DBExtractThreadLoad and TranProcThreadLoad for each type of thread) that will be allowed to run for the scope defined by ThreadThrottleScope. If a throttling

Product Group	Server Components
	request is made that causes this maximum to be exceeded, then the requesting thread is delayed. The default value is zero, which disables the throttling mechanism. A valid value for MaxTotalThreadLoads is any integer greater than or equal to zero (0).
ThreadThrottleScope	Single-line setting. This parameter is used with thread-throttling functionality. It defines the scope of the thread-throttling mechanism by using one of two different modes: • **Process Thread.** Where thread throttling occurs independently in each process. • **Application.** Where thread throttling occurs in all processes running the same synchronization application on a single server. Only the first character of the ThreadThrottleScope parameter is used to determine the value. All other characters are ignored. Thus aardvark is interpreted as Application. Case is also ignored. The default value is Application. Valid values for ThreadThrottleScope include Application or Process Thread.
TranProcThreadLoad	Single-line setting. This parameter is used with thread-throttling functionality. It defines the load (or weight) that is assigned to each individual, transaction-processing thread. For each running transaction processing thread, this load value is used to determine the total system load, which is then compared with the MaxTotalThreadLoads value. A new thread is started only if the total-system load does not exceed the MaxTotalThreadLoads value. A value of zero disables thread throttling of the transaction-processing threads. The default value is 3. A valid value for TranProcThreadLoad is any integer greater than or equal to zero (0).
TranProcThreshold	Single-line setting. This parameter is used with thread-throttling functionality. It specifies the minimum time (in minutes) that the Transaction Processor continues processing transactions before performing a handshake with the client. After this value is exceeded, a handshake occurs instead of starting to process the next transaction. Doing so prevents the client from timing out the session when thread throttling is enabled. The default value is 5. A valid value for TranProcThreshold is any integer greater than or equal to zero (0).

Configuring Component-Level Settings for Siebel Mobile

You administer server components for your mobile application from the Administration - Mobile screen, Server Component Administration view. The Server Component Administration view enables you to manage server-level settings for synchronization components. These settings are used by the synchronization engine to extract application definition and user data. These settings override the application-level settings at the component level on a specific server. The data entered here is used by the synchronization engine when the user synchronizes with the Siebel Server.

The server-component settings are used primarily for the functionality that is required for individual server components. For example, thread throttling depends on the components running on a particular server and is best set at the Siebel Mobile disconnected application server component level. Examples of settings that might be made at the component level are: MaxTotalThreadLoads, TranProcThreadLoad, DBExtractThreadLoad, and so on. Generally, the settings made at the application level are shared by all server components.

The following procedure shows how to configure component-level settings for mobile applications.

To configure component-level settings

1. Navigate to the Administration - Mobile screen, then the Server Component Administration view.

   This view shows a list of server components associated with the application that is selected in the Siebel Mobile Setup view.
2. For each server component listed, do the following:

   a. Make sure that the Name field value matches the exact component name, such as ePharmaMObjMgr_enu, of the synchronization server component for the Siebel Mobile disconnected application.
   b. In the lower Settings applet, review or update the associated settings as required.

Thread Throttling for Siebel Mobile

Thread throttling is a synchronization event that occurs when a large number of users attempt to synchronize simultaneously, and the load on a single server can become too much. Thread throttling significantly reduces the total number of transaction processor threads that are active simultaneously and database extraction threads. Thread throttling increases the throughput for synchronization, without reducing the number of concurrent users. Synchronization performance worsens slightly, but the synchronization will complete for all users.

Thread throttling allows the maximum number of concurrent users. It maximizes the usage of the Siebel Server during any mixture of transaction-processing threads and database-extraction threads. Thus, if the Siebel Mobile disconnected application server supports x concurrent transaction-processing threads, then it allows x number of transaction-processing threads while disallowing all database-extraction threads.

Similarly, if the server supports y concurrent database-extraction threads, then it allows this number of database-extraction threads while disallowing all transaction-processing threads. If less than x transaction-processing threads are currently active, then some database-extraction threads are allowed to execute concurrently. Similarly, if less than y database-extraction threads are currently active, then some transaction-processing threads are allowed to execute simultaneously. For information about the settings for thread throttling and about how to enable thread throttling, see *Configuring Application Settings for Siebel Mobile*.

Load Balancing Support for Synchronization

Load balancing distributes the workload for multiple Siebel Servers. You can load-balance the synchronization of the Siebel Mobile disconnected application at the Siebel Server level to achieve better scalability and high availability. This capability removes the limitation of assigning users to a specific application Siebel Server at installation time.

Supported Load Balancers for Synchronization

The load balancers used for synchronization are the same as those for Siebel Business Applications. You can use either the native load balancer or a third-party HTTP load balancer.

For information about configuring native Siebel Server load balancing or third-party load balancing (which depends on the third-party product), see *Siebel Installation Guide* and *Siebel Deployment Planning Guide* .

Unique Synchronization Directory on Siebel Server

The Siebel Server uses a location on the server to store users' extracted files and state information. Each user and mobile application combination has a unique synchronization directory. The Application Directory user parameter enables the administrator to define this location. For information about setting the Application Directory user parameter, see *Configuring the Application Directory Setting*.

By defining a shared location for this parameter, synchronization services for Siebel Mobile disconnected applications can be load-balanced. When users request a synchronization session, their request is directed (by a load-balancer) to an available Siebel Server hosting the appropriate Application Object Manager for Siebel Mobile, which will be able to access the users' synchronization directory. For example, a Siebel Mobile disconnected application can be configured to point to a generic URL for synchronization.

Load Balancing When Synchronization is Configured for Siebel Mobile

If multiple servers are configured with load balancing for the Siebel Mobile disconnected application when synchronization is also configured for the application, then all requests are routed to only one server. To change this so that requests are routed to all load balanced servers, complete the steps in the following procedure.

To load balance when synchronization is configured

1. Using Siebel Server Manager, set the MaxTasks and MaxMTServers parameters.
2. Set the following parameters:

    a. **MobileSync (the disconnected mobile synchronization component group).** Set componentgroup to MobileSync. For more information, see the first step in *Setting Up the Disconnected Mobile Synchronization Component Group*.

    b. **MobileDbXtract (the data extraction component).** Set the data extraction component to whichever component is being used for the mobile data extraction. For example, set component to ServiceMobileDbXtract_enu. For more information, see *Setting Up the Disconnected Mobile Synchronization Component Group*.

    c. **HonorMaxTasks.** Set the HonorMaxTasks parameter to True.

    To check the existing value of HonorMaxTasks from the command line:

    ```
    list advanced param HonorMaxTasks for com <comp_name>
    ```

    To set HonorMaxTasks from the command line:

    ```
    change advanced param HonorMaxTasks=True for comp <comp_name>
    ```

    To check (and if required reset) the existing value of HonorMaxTasks from the Siebel business application user interface:

- Navigate to the Administration - Server Configuration screen, then the Servers, Components, Parameters view.
- Click the Advanced button in the Parameters applet, and then query for the HonorMaxTasks parameter.

For more information about the MaxTasks, MaxMTServers, and HonorMaxTasks parameters and setting them, see *Siebel System Administration Guide* and *Siebel Performance Tuning Guide* .

Configuring Synchronization for Siebel Mobile

This topic describes how to configure synchronization for Siebel Mobile disconnected applications in general. There are four types of synchronization: full synchronization, incremental synchronization, full synchronization always, and batch synchronization. It includes the following information:

- *Enabling Full Synchronization for Siebel Mobile*
- *Enabling Incremental Synchronization for Siebel Mobile*
- *Configuring Business Components for Full Synchronization Always*
- *Configuring Batch Synchronization for Siebel Mobile*

Enabling Full Synchronization for Siebel Mobile

A full data and metadata download process is always initiated from Siebel Server to a mobile device when the mobile device switches to offline mode for the first time. But when the mobile device subsequently switches to offline mode, then either a full or incremental synchronization process is initiated according to how the Siebel Mobile Always Full Sync system preference is set.

If Siebel Mobile Always Full Sync is set to Y or Yes, then full synchronization is enabled and a full data and metadata download takes place between Siebel Mobile and the mobile client whenever the mobile client sends a synchronization request to the Siebel Server.

To enable full synchronization for disconnected applications

1. Log in to the Siebel application as a user with administrator privileges.
2. Navigate to the Administration - Application screen, then the System Preferences view.
3. Search for and set the Siebel Mobile Always Full Sync system preference to Y or Yes.

   The default setting for Siebel Mobile Always Full Sync is N or No, which means that incremental synchronization is enabled by default for Siebel Mobile disconnected applications.
4. Restart Siebel Servers for the changes to take effect.

Related Topics

Switching to Offline Mode for the First Time

Enabling Incremental Synchronization for Siebel Mobile

Configuring Business Components for Full Synchronization Always

Configuring Batch Synchronization for Siebel Mobile

Enabling Incremental Synchronization for Siebel Mobile

A full data and metadata download process is always initiated from Siebel Server to a mobile device when the mobile device switches to offline mode for the first time. But when the mobile device subsequently switches to offline mode, then either a full or incremental synchronization process is initiated according to how the Siebel Mobile Always Full Sync system preference is set.

If Siebel Mobile Always Full Sync is set to N or No, then incremental synchronization is enabled and an incremental or partial data and metadata download takes place between Siebel Mobile and the mobile client whenever the mobile client sends a synchronization request to the Siebel Server.

Incremental synchronization is enabled by default for Siebel Mobile disconnected applications.

> **Note:** Business components that are configured for full synchronization always are fully synchronized even when incremental synchronization is enabled for the application. For more information, see *Configuring Business Components for Full Synchronization Always*.

To enable incremental synchronization for disconnected applications

1. Log in to the Siebel application as a user with administrator privileges.
2. Navigate to the Administration - Application screen, then the System Preferences view.
3. Search for and set the Siebel Mobile Always Full Sync system preference to N or No (if not already done so).
   The default setting for Siebel Mobile Always Full Sync is N or No, which means that incremental synchronization is enabled by default for Siebel Mobile disconnected applications.
4. Configure incremental synchronization as shown in *Roadmap for Configuring Incremental Synchronization for Siebel Mobile*.

Related Topics

Switching to Offline Mode for the First Time

Configuring Batch Synchronization for Siebel Mobile

Configuring Business Components for Full Synchronization Always

The following procedure shows you how to configure full synchronization always for business components where objects are fully synchronized even if incremental synchronization is enabled for the Siebel Mobile disconnected application. Full synchronization is where a full data and metadata download takes place between Siebel Mobile and the mobile client whenever the mobile client sends a synchronization request to the Siebel Server.

> **Note:** This procedure is supported but not recommended for Siebel Mobile disconnected.

To configure objects for full synchronization

1. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.

2. Select the mobile application from the upper applet.
3. Query for the Always Full Download - BusComp setting, and then in the Value field select the dynamic business component.

   In the following example, Calls is selected in the Value field for the Always Full Download - BusComp setting. This means that full synchronization will always be performed for Calls even if incremental synchronization is enabled for the application.

   Name: Always Full Download - BusComp

   Value: Calls

   You can specify more than one business component as the value for Always Full Download - Buscomp and the list of business components must be separated by |, for example as follows:

   ```
   Calls|Pharma Professional Call - Mobile|Contact
   ```

Related Topics

Enabling Full Synchronization for Siebel Mobile

Configuring Batch Synchronization for Siebel Mobile

Configuring Batch Synchronization for Siebel Mobile

Configuring batch synchronization for a Siebel Mobile disconnected application involves creating the data extraction component for the application first if required and then configuring the settings, including batch synchronization, for the mobile application. After that you configure the appropriate business object filters for the mobile application, and then synchronization for the mobile application as required.

Note the following about batch synchronization:

- Batch synchronization is set up by default for the Siebel Mobile application for Siebel Pharma, so it is not necessary to configure it for the application again.
- Where there are multiple Siebel Servers, make sure that only one batch synchronization process is running per enterprise.

To configure batch synchronization for disconnected applications

1. Verify that the MobileSync component group is enabled for Siebel Mobile.

   For more information, see (the first step in) *Setting Up the Disconnected Mobile Synchronization Component Group*.
2. If required, create the data extraction component for the mobile application.

   For more information, see (the second step in) *Setting Up the Disconnected Mobile Synchronization Component Group*.
3. Configure the settings for the mobile application as follows:

   a. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
   b. Select the mobile application from the upper applet. For example: Siebel Field Service for Mobile.
   c. Click the Settings tab, and then do the following:

- Click New, select Data Extraction Component in the Name field, and then select the actual data extraction component (for example: ServicemDbXtract) in the Value field.
- Click New, select Enable Batch Extraction in the Name field, and then select True in the Value field.

The Enable Batch Extraction parameter enables (True) the batch synchronization functionality. Enable batch synchronization is the default. Setting Enable Batch Extraction to False supports On Demand synchronization at run time.

Note: On Demand batch synchronization is supported but not recommended for Siebel Mobile.

d. Restart the Siebel Server for the changes to take effect.

After the changes take effect, batch synchronization is enabled for the mobile application.

4. Configure business object filters with chained data extraction for the mobile application.

The following table shows some example business object filters with chained data extraction. For more information about business object filters, see *Constructing Business Object Filters for Siebel Mobile*.

Default	Business Object	Name	Query
Yes	Pharma Professional Call - Mobile	PH1	`'Pharma Professional Call - Mobile'.Search = "([Start Date] >= Today() - 5) AND ([Start Date] <= Today() + 5)" AddSearch(("Pharma Professional Call - Mobile.Contact Id","PH2.Contact"),("Pharma Professional Call - Mobile.Account Id","PH3.Account"))`
Yes	Contact	PH2	`'Contact'.Search = "[My Position Id] = PositionId()" 'Pharma Professional Call - Mobile'.Search = "([Start Date] >= Today() - 10) AND ([Start Date] <= Today() + 10)" AddSearch(("Pharma Professional Call - Mobile","PH1.Pharma Professional Call - Mobile")("Contact.Id","PH2.Contact"))`
Yes	Account	PH3	`'Account'.Search = "[Type] = LookupValue (""ACCOUNT_TYPE"", ""Hospital"") AND [My Position Id] = PositionId()" 'Pharma Professional Call - Mobile'.Search = "([Start Date] >= Today() -10) AND ([Start Date] <= Today() + 10)" AddSearch(("Pharma Professional Call - Mobile","PH1.Pharma Professional Call - Mobile"),("Contact","PH2.Contact"), ("Affiliated Account.Party Id","Account") ("Account.Id","PH3.Account"))`

5. Configure synchronization for the mobile application as required.

For more information, see the following topics:

- *Enabling Full Synchronization for Siebel Mobile*
- *Enabling Incremental Synchronization for Siebel Mobile*
- *Configuring Business Components for Full Synchronization Always*

Related Topic

Setting Up the Disconnected Mobile Synchronization Component Group

Monitoring Synchronization Sessions for Siebel Mobile

This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications*.

You can monitor synchronization sessions and synchronization conflicts for Siebel Mobile disconnected applications from a number of views within the Administration - Siebel Mobile screen. Every time a user synchronizes with the Siebel Server, a record is made. The following procedures relate to monitoring synchronization:

- *Monitoring Synchronization Sessions and Data Download*
- *Obtaining Error Details from Synchronization Sessions*
- *Obtaining Business Component Information from Synchronization Conflicts*
- *Obtaining an Audit Trail for Synchronization Sessions*
- *Responding to Synchronization Errors*

Monitoring Synchronization Sessions and Data Download

The Session Administration view contains detailed information about user synchronization sessions by gathering together all data related to each synchronization session that a user performs. Use this view to monitor and investigate user synchronization activities in Siebel Mobile disconnected applications. In the Session Administration view, the Sync Status list appears before the following two child lists: Sync Sessions and Extraction Info.

- **Sync Status.** Enables you to monitor each user synchronization session, and includes information on synchronization status, date, type of synchronization, and so on.
- **Sync Sessions.** Enables you to gather further information on the status of each synchronization session, including information on any conflicts that occurred during the synchronization, the size of the data extracted, and so on.
- **Extraction Info.** Enables you to review a detailed description of all data extracted during the synchronization session, including business component information and the number of records extracted.

The following procedures show you how to monitor synchronization sessions and how to monitor data download.

To monitor synchronization sessions

- Navigate to the Administration - Siebel Mobile screen, then the Session Administration view.

  The Sync Status list appears with the two child lists: Sync Sessions and Extraction Info.

To monitor data download

1. Navigate to the Administration - Siebel Mobile screen, then the Session Administration view.

   The Sync Status list appears with the two child lists: Sync Sessions and Extraction Info.
2. Scroll down to the Extraction Info list.

   There is one extraction record for each unique extraction context. Review the data-extraction information. The information recorded for review is described in the following table.

Field	Comments
Business Component	The business component on which the synchronization is based.
Context	The context of the extraction.
# Records Extracted	The number of records that exist in the context of the applied filters.
Extract Time	The length of time it took to extract the set of records.
Business Object Filter	The business object filter (if any) applied to the extraction.
Business Component Filter	The business component filter (if any) applied to the extraction.

Information in the Extraction Record

The extraction record lists the following information:

- The filters used to control the extraction
- The context of the extraction
- How many records exist in that context for those filters
- How long it took to extract that set of records.

By analyzing these records and looking at all extraction changes resulting from the filter changes, or changes to the search specifications or both (defined in Siebel Tools), you can answer the following questions:

- Why did I download a particular record?
- Why is an expected server record not downloaded?
- Why is the total number of records showing up in some views so big?
- Why is the total number of records showing up in some views so small?
- Why does the extraction take so long?

Note: Because storage space on a mobile device is typically limited and the available networking bandwidth for synchronization might not always be optimal, you must configure the filters carefully, and keep the size of your local database small. It is recommended that users have a local database size of about 3 megabytes (MB), which can be expanded up to 50 MB.

Obtaining Error Details from Synchronization Sessions

The Conflict Administration view enables you to access selected transaction errors, and to obtain information about synchronization errors that occur during individual synchronization sessions. The following tabs are available from the Conflict Administration view:

- **Error Details.** Use this tab to obtain detailed information about specific data conflicts. You can also take a particular action on any given conflict.

  For more information, see the following procedure.
- **Business Components.** Use this tab to see the business component information associated with a particular data conflict.

  For more information, see *Obtaining Business Component Information from Synchronization Conflicts*.
- **Audit Trail.** Use this tab to obtain information about the action that is taken on a particular data conflict. The Audit Trail must first be enabled for the conflict data.

  For more information, see *Obtaining an Audit Trail for Synchronization Sessions*.

To obtain error details from the synchronization sessions

1. Navigate to the Administration - Siebel Mobile screen, then the Conflict Administration view.
2. In the Transactions list, select the appropriate record, and then click the Error Details tab.
3. In the Error Details list, select or query for the record that you want.

Obtaining Business Component Information from Synchronization Conflicts

The Transactions view on the Conflict Administration screen enables you to obtain business component information related to synchronization errors that occur during individual synchronization sessions.

To obtain business component error details

1. Navigate to the Administration - Siebel Mobile screen, then the Conflict Administration view.

   The Transactions list appears.
2. In the Transactions list, select the appropriate record, and then click the Business Components tab.

Obtaining an Audit Trail for Synchronization Sessions

The Transactions view on the Conflict Administration screen enables you to obtain audit-trail information for an action that was taken for a particular transaction. You must enable Audit Trail separately. For information about enabling Audit Trail, see *Siebel Applications Administration Guide* .

To obtain audit trail information for synchronization errors

1. Navigate to the Administration - Siebel Mobile screen, then the Conflict Administration view.

   The Transactions list appears.
2. In the Transactions list, select the appropriate record, then click the Audit Trail tab.

Responding to Synchronization Errors

When reviewing a synchronization error, you can respond to it in one of the following ways: you can ignore it, export it, or reapply it.

To respond to synchronization transaction errors

1. Navigate to the Administration - Siebel Mobile screen, then the Conflict Administration view.

   The Transactions list appears. The transaction buttons are described in the following table.

Action	Result
Reapply	Reapplies the selected transaction with the values listed in the view or Field Value view. These values override the results provided by the Siebel Server.
Export	Exports the content of the transaction in the same format used by the synchronization engine. For help with interpreting the content, create a service request (SR) on My Oracle Support. Alternatively, you can phone Global Customer Support directly to create a service request or get a status update on your current SR. Support phone numbers are listed on My Oracle Support.
Ignore	Accepts the current status and does not act upon the error. The record becomes read-only. There is no impact, except that the error will no longer appear in queries for unresolved conflicts.

2. Click Reapply, Export, or Ignore, depending on your needs.

   Note: This step works only when the Siebel Application Object Manager is running on a Windows-based server.

Troubleshooting Synchronization Failures Due to Business Component Filters

If you are configuring synchronization for Siebel Mobile disconnected applications, a suggested practice is to start without any business component filters. The following procedure shows you how to troubleshoot business component filters.

To troubleshoot synchronization failures

1. Synchronize your mobile application, and if the synchronization fails because the data extraction is too big, then view the extraction results to find the business components that caused the problem.
2. If any business component extraction is too big, then reduce the size of the extraction by adjusting the existing search specifications.

   Search specifications are specified in Siebel Tools or in the Siebel Mobile disconnected application settings and the selection filters. For more information, see *Developing Data Filters for Siebel Mobile*.
3. If neither of these solutions works, then use a business component filter to reduce the size of the result set of a particular business component.

   For more information, see *Developing Data Filters for Siebel Mobile*.

5 Data Filtering

Data Filtering for Siebel Mobile

This chapter describes how to develop data filters for your Siebel Mobile disconnected application. It includes the syntax for constructing business component filters, as well as some useful information on managing your filters. It includes the following topics:

- *Developing Data Filters for Siebel Mobile*
- *Constructing Business Component Filters for Siebel Mobile*
- *Constructing Business Object Filters for Siebel Mobile*
- *Managing Application Filters for Siebel Mobile*

Developing Data Filters for Siebel Mobile

The following general steps are recommended for developing synchronization filters for Siebel Mobile disconnected applications:

1. Identify the screens and views of your application. Then identify the business components that are required to support each screen and view, noting the areas where each business component occurs. For example, identify the form, list, or pick applets that are based on each business component.
2. Within Siebel Tools, establish the base parent-child relationships and any reverse relationships at the component level.
3. Review the business components that occur in picklists, and consider creating business component filters for those that will cause large numbers of records to synchronize with the mobile application. For each business component, determine whether it is possible to apply a search specification to all instances of the business component within the Siebel Mobile disconnected application. Develop a set of suitable business component filters in the Administration - Siebel Mobile, Application Administration view.

   Common examples of business components that are suitable for global business component filters include:

   - Employees (for large organizations)
   - Activities (for example, filter for current activities or activities of only certain kinds)
   - Accounts (for example, by geography)
   - Products (for example, active, or orderable products)
   - Orders (for example, open or closed in the last three months)
4. Create appropriate business object synchronization filters for each business object, and make sure that each business object includes a default filter. Default filters make sure that users avoid downloading too many records accidentally. Business object filters are created and maintained in the Administration - Siebel Mobile, Application Administration view.

Note: In a multilingual environment, default filters are created for the primary language only. If your environment is multilingual, then you must configure additional filters for each additional language that you want to run.

Constructing Business Component Filters for Siebel Mobile

Business component filters are used to restrict the size of extractions that otherwise might be too big. They suppress the extraction of business component records. Use business component filters with discretion because too much filtering can cause data-integrity problems on the server.

You can specify business component filters at either the application level or the user level. Do not specify business component filters at the user level outside of your test environment. After testing your business component filters, migrate them to the application level.

Information about the following is included in this topic:

- *Example Syntax of Business Component Filter*
- *Setting Business Component Filters for Siebel Mobile*
- *Removing a Business Component Filter Setting*
- *Configuring Business Component Filters for Pop-up Applets*

Example Syntax of Business Component Filter

Business component filters are used to limit the extraction of a business component for every context in which it is extracted. Business component filters use query by example (QBE) syntax:

```
[Status] = "Not Started" OR [Status] = "In Progress" OR ([Status] IS NULL) OR
[Status] = "On Hold" OR ([Status] = "Done" AND [Done] >= Today() - 7)
```

For more information about QBE syntax, see *Siebel Developer's Reference* . Example business component filters, specific to the Siebel Mobile application for Siebel Pharma, are shown in the tables in *Setting Business Component Filters for Siebel Mobile*.

Setting Business Component Filters for Siebel Mobile

You use the Business Components Filters tab in the Administration - Siebel Mobile screen, Application Administration view to configure or change synchronization filter settings for business components. The following procedure shows you how to set a business component filter for Siebel Mobile disconnected applications. There is no naming convention for business component filters.

Note: You can access the Administration - Siebel Mobile screen through either the Siebel Web Client or Siebel Mobile Web Client.

To set a business component filter

1. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
2. Select the appropriate mobile application in the upper applet, and then click the Business Components Filters tab.
3. The fields in the Business Components Filters view are described in the following table.

Field	Comments
Owner	Read only. Indicates the Siebel Mobile disconnected application to which the business component will be associated. For example: Siebel ePharma Mobile.
Business Component	Text box. Indicates the business component name.
Name	Text box. Indicates the business component filter name. For example: Filter 1.
Query	Text box. Indicates the syntax for the query, for example: `[Start Date] <=Today()`

4. In the Query field, define the filter for each business component as required.
5. To add a new business component filter, click New, and then enter the required information.

The following table shows some example business component filters for the Siebel Mobile application for Siebel Pharma, including the table to which the business component filter belongs, the filter specification, and whether the filter can be modified or not.

Business Component	Table	Filter Description	Filter Specification	Enabled
Pharma Professional Call - Mobile	S_EVT_ACT	My Calls scheduled within the last (plus or minus) 7 Days.	`([Start Date] > Today() - 8) AND ([Start Date] < Today() + 8) AND EXISTS [Owned By Id]= LoginId()`	Yes
Contact	S_CONTACT	DOCK_FLG='Y' is the Dock Flag to be set for all Contacts who are part of My Calls in the last (plus or minus) days.	`[My Position Id] = PositionId() AND [Dock Flag]='Y'`	Yes
Account	S_ORG_EXT	My Accounts	`([My Position Id] = PositionId ())`	Yes
Account	S_ORG_EXT	My active accounts of type Hospital.	`([Account Status]=LookupValue("ACCOU STATUS","Active") AND [My Position Id] = PositionId() AND [Type]`	Yes

Business Component	Table	Filter Description	Filter Specification	Enabled
			= LookupValue("ACCOUNT_ TYPE","Hospital"))	

The following table shows some example business component filters that drive picklists for the Siebel Mobile application for Siebel Pharma.

Business Component	Table	Filter Description	Filter Specification
Pharma Professional - Primary Speciality	S_MED_SPEC	Filter all specialities in My Organization.	(EXISTS [XYZ Organization Id] = OrganizationId())
CUT Address - CE	S_ADDR_PER	Filter addresses linked to My Contacts or My Accounts.	(EXISTS ([Account Position Id]=PositionId())) OR (EXISTS ([Contact Position Id]=PositionId()))
Pharma Address Inter Table - CE	S_CON_ADDR	Filter addresses linked to Contacts.	[Professional Position Id] = PositionId() AND [Dock Flag]='Y'
Pharma Internal Product (Brands)	S_PROD_INT	Filter the products owned by the user.	[Owned By Id] = LoginId()
LS Pharma My Products List	S_EMP_PRDINT	Filter the products allocated to the user.	[Owned By Id] = LoginId() AND ([Alloc Start Date] <= Today() AND ([Alloc End Date] IS NULL OR [Alloc End Date] >= Today()))
LS Pharma My Sample Lots List	S_EMP_PRDINT	Filter the samples allocated to the user.	[Owned By Id] = LoginId() AND ([Alloc Start Date] <= Today() AND ([Alloc End Date] IS NULL OR [Alloc End Date] >= Today()))
LS Pharma My Promotional Items List	S_EMP_PRDINT	Filter the promotional items allocated to the user.	[Owned By Id] = LoginId() AND ([Alloc Start Date] <= Today() AND ([Alloc End Date] IS NULL OR [Alloc End Date] >= Today()))
List Of Values	S_LST_OF_VAL	Filter the list of values.	None.
Picklist Generic	S_LST_OF_VAL	Filter the list of values.	None.

Removing a Business Component Filter Setting

The following procedure shows you how to remove a business component filter setting.

To remove a business component filter setting

1. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
2. Select the appropriate mobile application in the upper applet, and then click the Business Component Filters tab.
3. Select the filter setting record that you want to remove.
4. From the Business Component Filters menu, choose Delete Record.

Configuring Business Component Filters for Pop-up Applets

For business components that are related to pop-up applets, such as picklists and associated applets, you can prevent potentially large volumes of records from being downloaded by applying an additional filter condition called PopupSearch to the data extraction for the business component. If you do not use PopupSearch to filter the data extraction for business components that are related to pop-up applets, then all records are downloaded without any filter. The PopupSearch filter condition is applied in addition to any other filters that are also specified for the business component.

Business Component Filter Syntax for Pop-up Applets

The syntax for configuring filters for pop-up applets is as follows:

```
PopupSearch(<searchspec>)
```

The business component filters shown in the following table include the PopupSearch condition. When you use the PopupSearch condition to filter the data extraction for business object components, only records that satisfy the condition are downloaded.

Application	Business Component	Name	Query
Siebel Mobile application for Siebel Pharma	Contact	ContactFilter	`([My Position Id] = PositionId ()) PopupSearch([Dock Type] = "Y")`
Siebel Mobile application for Siebel Pharma	Contact	ContactFilter	`PopupSearch([Dock Type] = "Y")`

Related Topic

About Filter Application During Chained Data Extraction

Constructing Business Object Filters for Siebel Mobile

Business object filters are applied to a specified business object, and they can contain search and sort specifications for business components that are part of the business object.

There must be a default filter for each business object name. Default filters make sure that users avoid downloading too many records accidentally. It is not recommended that you set more than one filter as the default for a business object.

You can specify business object filters at either the application level or the user level, but not at the component level. Business object filters specified at the user level override a filter specified at the application level, provided the application-level filter has the identical values for the business object name and filter name. The list of filter options presented to the user is the merged list of all application filters except those overridden at the user level, plus all user filters.

Information about the following is included in this topic:

- *Example Syntax of Business Component Filter*
- *Setting Business Component Filters for Siebel Mobile*
- *Removing a Business Component Filter Setting*
- *Business Object Filter Chaining*
- *Overview of Filtering Options*
- *Example Business Object Filters*
- *Example Business Object Filters With Chained Data Extraction*
- *About Filter Application During Chained Data Extraction*

Example Syntax of Business Object Filter

Business object filters use the following predefined query (PDQ) syntax:

```
'Account'.Search = "[State] = LookupValue ( ""STATE_ABBREV"", ""CA"" )"
'Account'.Sort = "Name, Location"
```

where:

- Account is the business component name.
- Search is the key word.
- `"[State] = LookupValue ( ""STATE_ABBREV"", ""CA"" )"` is the search specification where:
  - State is the field name.
  - LookupValue is the function for find and the LOV value.
  - STATE_ABBREV is the LOV type.
  - CA is the LOV value.
- `'Account'.Sort = "Name, Location"` is the sort specification for sorting the returned list.

  > **Note:** The normal syntax applies for search and sort specifications. However, quotes must be escaped using double quotes in the search specification because the search specification itself is enclosed in double quotes.

PDQ syntax rules are as follows:

- The business component name must be a valid business component in the business object on which the PDQ is based.
- Search and Sort can be specified for all active buscomps in the business object on which the view is based, appended to each other in any order using space as delimiter.

For more information about PDQ syntax, see *Siebel Developer's Reference* .

Setting Business Object Filters for Siebel Mobile

You use the Business Objects Filters tab in the Administration - Siebel Mobile, Application Administration view to define business object level filters, which restrict data that is downloaded to the Siebel Mobile client upon synchronization. The following procedure shows you how to set a business object filter for Siebel Mobile disconnected applications. There is no naming convention for business object filters.

To set a business object filter

1. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
2. Select the appropriate mobile application in the upper applet, and then click the Business Object Filters tab.
   The fields in the Business Object Filters view are described in the following table.

Field	Comments
Owner	Read only. Indicates the mobile application to which the business object will be associated. For example: Siebel ePharma Mobile.
Default	Indicates what filter to use by default if a user does not make a selection. Be sure to define a default filter for each business object in Siebel Mobile. If no filters are applied during the synchronization process, then an unacceptably high volume of data will be downloaded to the mobile device.
Business Object	Text box. Indicates the business object name.
Name	Text box. Indicates the business object filter name. For example: Filter 1.
Query	Text box. Indicates the syntax for the query, for example: `'Account'.Search = "[Account Status] = LookupValue (""ACCOUNT_STATUS"", ""Active"" )" 'Account'.Sort = "Name, Location"`

3. In the Query field, define the filter for each business object as required.
4. To add a new business object filter, click New, and then enter the required information.

Removing a Business Object Filter Setting

The following procedure shows you how to remove a business object filter setting.

To remove a business object filter setting

1. Navigate to the Administration - Siebel Mobile screen, then the Application Administration view.
2. Select the appropriate mobile application in the upper applet, and then click the Business Object Filters tab.

3. Select the filter setting record that you want to remove.
4. From the Business Object Filters menu, choose Delete Record.

Business Object Filter Chaining

Business object filter chaining refers to the process of downloading a business objects's dependent or child business component records (buscomps), as defined by the business object filter. To ensure that you download all the dependent or child business component records for a business object, you must enhance the business object filter by adding extra parameters to it for chained data extraction.

Syntax for Business Object Filter Chaining

The syntax for configuring chained data extraction for business object filters is as follows:

```
AddSearch((<SourceLocation1>,<DestinationLocation 1>),(<SourceLocation2>,<
DestinatinLocation 2>),. . . )
```

where:

- `<SourceLocation>` can be specified in one of the following ways:
  - `<BCName>.<FieldName>`

    `<BCName>` is the name of the business component (Buscomp) in the source business object. That is, the business object in which this configuration is added. `<FieldName>` is the field name in the business component whose value will be mapped to the records in the destination.
  - `<BCName>`

    The field from the source business component, which is mapped to the records in the destination business component, is "Id" by default.
- `<DestinationLocation>` can be specified in the following ways:
  - `<DestinationBOFilterName>.<BCName>.<FieldName>`

    Here `<DestinationBOFilterName>` refers to the filter name of the destination business object, `<BCName>` is the business component name in the destination business object, and `<FieldName>` is the field in that business component which has to match the source business component's field value.
  - `<DestinationBOFilterName>.<BCName>`

    The field from the source business component, which is mapped to records in the destination business component, is "Id" by default.
  - `<BCName>`

    If only the business component name is specified, then the records from the source will be mapped to the Id value of the business component, as specified by the source business object.

Overview of Filtering Options

Before starting to configure business object filters for Siebel Mobile, note that the following filtering options are available:

- **Business Object Filters.** You can configure different business object filters for different views in Siebel Mobile as shown in *Example Business Object Filters*. Business object filters have the following limitations:
  - Dependent business component records are not downloaded as part of business object filters.
  - Business object filters do not apply to pop-up applets.
- **Business Object Filter Chaining.** To ensure that all dependent business component records are downloaded for a business object, you can configure business object filters with business object chaining as shown in *Example Business Object Filters With Chained Data Extraction*.
- **Filters for Pop-up Applets.** To restrict the data downloaded in a pop-up applet, you can use the PopupSearch filter condition to filter the data extraction as shown in the example in *Configuring Business Component Filters for Pop-up Applets*. If a filter is specified for a business component at both the business component and business object level, then you can use the IncludeInBOIterations keyword in your query to specify to apply the business object filter, otherwise neither filter condition will be applied. For more information, see the example in *About Filter Application During Chained Data Extraction*.

Example Business Object Filters

The example business object filters in the following table are explained as follows:

- **Pharma Professional Call - Mobile business object filter.** Download all Calls along with their child business component records (including the products detailed, promotional items, and samples disbursed records) which fall within the date range plus or minus 5 days from today.
- **Contact business object filter.** Download all My Contacts along with their child business component records, including the calls within the date range plus or minus 10 days from today.
- **Account business object filter.** Download all My Accounts of type Hospital along with the calls for those accounts within the date range plus or minus 10 days from today, and other child objects.

Default	Business Object	Name	Query
Yes	Pharma Professional Call - Mobile	PH1	`'Pharma Professional Call - Mobile'.Search = "(([Start Date] >= Today() - 5) AND ([Start Date] <= Today() + 5))"`
Yes	Contact	PH2	`'Contact'.Search = "[My Position Id] = PositionId()" 'Pharma Professional Call - Mobile'.Search = "([Start Date] >= Today() - 10) AND ([Start Date] <= Today() + 10)"`
Yes	Account	PH3	`'Account'.Search = "[Type] = LookupValue ( ""ACCOUNT_TYPE"", ""Hospital"" ) AND [My Position Id] = PositionId()" 'Pharma Professional Call - Mobile'.Search =`

Default	Business Object	Name	Query
			"(([Start Date] >= Today() - 10) AND ([Start Date] <= Today() + 10))"

The business object filters in the previous table do not include chained data extraction and, as a result, have the following limitations:

- If you want to see the call details (products detailed, promotional items, and samples disbursed records) for all Contact calls, then you will be unable to do so. For example, you will be unable to see the call details for Contact calls where the date is greater than 5 days but less than 10 days.
- If there is an account of type Pharmacy (not of type Hospital) to which a call is scheduled within the date range plus or minus 5 days from today, then even though the call is visible in the Calls list, you will be unable to review the account details for the call because the record was not downloaded as part of the account business object. Only account records of type Hospital were downloaded.

Example Business Object Filters With Chained Data Extraction

To ensure that all relevant and dependent data is downloaded and available to users in offline mode, you must enhance the example business object filters shown in the table in *Example Business Object Filters* by adding additional parameters for chained data extraction. In the following table, the additional parameters added for chained data extraction are highlighted in bold. Note the following:

- The business object filter PH1 in the following table is the enhanced version of PH1 shown in the table in *Example Business Object Filters*.
- The business object filter PH2 in the following table is the enhanced version of PH2 shown in the table in *Example Business Object Filters*.
- The business object filter PH3 in the following table is the enhanced version of PH3 shown in the table in *Example Business Object Filters*.

Default	Business Object	Name	Query
Yes	Pharma Professional Call - Mobile	PH1	'Pharma Professional Call - Mobile'.Search = "([Start Date] >= Today() - 5) AND ([Start Date] <= Today() + 5)" AddSearch(("Pharma Professional Call - Mobile.Contact Id","PH2.Contact"),("Pharma Professional Call - Mobile.Account Id","PH3.Account"))
Yes	Contact	PH2	'Contact'.Search = "[My Position Id] = PositionId()" 'Pharma Professional Call - Mobile'.Search = "([Start Date] >= Today() - 10) AND ([Start Date] <= Today() + 10)" AddSearch(("Pharma Professional Call - Mobile","PH1.Pharma Professional Call - Mobile"))
Yes	Account	PH3	'Account'.Search = "[Type] = LookupValue (""ACCOUNT_TYPE"", ""Hospital"") AND [My Position Id] = PositionId()" 'Pharma Professional Call - Mobile'.Search

Default	Business Object	Name	Query
			= "([Start Date] >= Today() -10) AND ([Start Date] <= Today() + 10)" AddSearch(("Pharma Professional Call - Mobile","PH1.Pharma Professional Call - Mobile"),("Contact","PH2.Contact"),("Affiliated Account.Party Id","Account"))

In this table, the example business object filters with chained data extraction are explained as follows:

- **Pharma Professional Call - Mobile business object filter.** Specifies to download:
  - All Contact business component records and their children in the Contact business object whose Id matches the Contact Id of the Pharma Professional Call - Mobile buscomp, which was downloaded as part of the Pharma Professional Call - Mobile business object.
  - All Account business component records and their children in the Account business object whose Id matches the Account Id of the Pharma Professional Call - Mobile buscomp, which was downloaded as part of the Pharma Professional Call - Mobile business object.
- **Contact business object filter.** Specifies to download all Pharma Professional Call - Mobile records and their children in the Pharma Professional Call - Mobile business object whose Id matches the Id of the Pharma Professional Call - Mobile buscomp, which was downloaded as a child of the Contact business component in the Contact business object.
- **Account business object filter.** Specifies to download:
  - All Pharma Professional Call - Mobile records and their children in the Pharma Professional Call - Mobile business object whose Id matches the Id of the Pharma Professional Call - Mobile buscomp, which was downloaded as a child of the Account business component in the Account business object.
  - All Contact records and their children whose Id matches the Id of the child Contacts, which were downloaded as part of the Account business object.
  - All the child records of the Accounts which are affiliated to the downloaded Accounts.

About Filter Application During Chained Data Extraction

If there is a filter specified for a business component at both the business component filter level and the business object filter level, then neither filter conditions are applied to the records being downloaded during a chained data extraction. During a chained data extraction, all flat business component and business object filters that are configured for a business component are not applied by default. To override this, you must use the IncludeInBOIterations keyword set to Y in your query, which specifies to apply the business object filter, as shown in the example in the following table.

Application	Business Component	Name	Query
Siebel CRM application for Siebel Pharma	Contact	ContactFilter	[My Position Id] = PositionId () PopupSearch([Dock Type] = "Y") IncludeInBOIterations = 'Y'

Related Topic

Configuring Business Component Filters for Pop-up Applets

Managing Application Filters for Siebel Mobile

The following topics describe how to create and manage filters for Siebel Mobile disconnected applications:

- *Server Synchronization Deployments*
- *Examples of Default Business Object Declarations*
- *When to Use Default Business Object Declarations*
- *Determining the Correct Visibility*
- *Overriding the Popup Visibility Type*
- *About Multiple Visibility Methods*
- *About Visibility on the Siebel CRM Client*

Server Synchronization Deployments

For server synchronization deployments, administrators can create business object and business component filters. Both application-level and user-level filters can be used in this deployment. The application-level filters are managed in the Administration - Siebel Mobile, Application Administration view. The user-level filters are managed in the Administration - Mobile, User Administration view. Changes to any filters will be effective on your next synchronization session, without having to restart the Siebel Application Object Manager's synchronization component for the mobile application. Filters are available to all users. Therefore, define the filters with the needs of all users in mind. For more information about creating filters, see the following:

- *Constructing Business Component Filters for Siebel Mobile*
- *Constructing Business Object Filters for Siebel Mobile*

Examples of Default Business Object Declarations

You can configure the extraction of business components from business objects, which are not exposed as part of an applet. You set default business object declarations under Settings in the Administration - Siebel Mobile, Application Administration view as described in the following examples.

Default Business Object Declaration Example 1: The following example of a default business object declaration extracts the Action and Action Employee business components where they occur with the visibility set to zero (0) by using the filter indicated:

```
Action|0||Action||Action Employee|
```

Business object filters are generally used only for extracting business components that do not correspond to any views or applets. Business object declarations identify specific business components within the business object to be extracted. Business object filters normally give a query that is based on the primary business component in the business object. They force the extraction of any business components mentioned in the query when there is no corresponding applet within the application that can cause the extraction to occur.

Default Business Object Declaration Example 2: In the following example, the declaration is used to extract all the Price List Line Items under the Order Entry (Sales) business object.

```
DefaultBusObjs13= Order Entry (Sales)|0||Price List Item|
```

This declaration does not have an associated QBE clause. When this is the case, all of the records available to the user for the given visibility are extracted.

Note: Be careful when modifying a default business object setting for pick applets, and do so only with the support of a skilled configurator of Siebel Business Applications.

When to Use Default Business Object Declarations

Use default business object declarations to force the extraction of data for a given business component in the context of a given business object and Visibility type. The default business object extractions are performed in the first phase of data extraction. For more information about visibility designations, see *Determining the Correct Visibility*.

You use these declarations most often to extract additional data that is not extracted as part of the user-interface extraction. This feature can be useful for business components that are referenced programmatically by other business components but are not exposed in the user interface. The default business object declarations are used to force the extraction of a subset of data to the mobile application that might not have been otherwise extracted or, most commonly, to filter the data downloaded for dynamic drop-down lists or pick applets.

All pick data is not downloaded to the mobile application because of the memory constraints on the device. Only pick data for fields that are editable is downloaded. Therefore, if you are doing a query on a pick field, then you might not be able to display the drop-down list. If a pick field is read-only when viewing a record in an applet, then its pick button is disabled.

Determining the Correct Visibility

You must use the correct visibility designation in the default business object declarations. The visibility code entered must be the visibility that governs the data displayed for the business component within the context of the business object specified in the declaration. For example, the visibility code 3 corresponds to All Visibility, which is the visibility that applies to the Account business component when it is used in a pick applet.

To determine the correct visibility

1. Log in to Siebel Tools.
2. Examine the view and business component properties, and do the following:
    a. When creating a default business object declaration to restrict the volume of data extracted for a pick applet, begin by examining the Popup Visibility field in Business Component Properties.
    b. Cross-reference the visibility type with the visibility code in the following table, and enter the appropriate visibility code in the declaration.

    If the Popup Visibility type for the business component is null, then the default value is All.

The following table summarizes the Popup Visibility types and the corresponding visibility codes.

Popup Visibility Type	Visibility Code
Sales Representative	0
Manager	1
Personal	2
All	3
None	4
Organization	5
Contact	6

Note: Do not use the Group, Catalog, or Sub Organization Popup Visibility types. These visibility types are not supported in the Siebel Mobile disconnected application.

Overriding the Popup Visibility Type

If the Popup Visibility type is not sufficiently restrictive (for example, All Visibility), then this setting can lead to a large number of records being extracted when the picklist is processed during synchronization. Making the pop-up visibility more restrictive reduces the number of records extracted for picklists. The OverridePopupVisibility user property for an applet overrides the Popup Visibility type on a business component. Use this property when the visibility that you want differs from the business component's Popup Visibility type, and you do not want to change the Popup Visibility type. If several picklists use the same business component, then you can also use the OverridePopupVisibility user property to vary the visibility of the picklists in the different applets.

About Restrictions That Apply When Several Applications Share the Same Repository

Consider the following restrictions if multiple applications are sharing the same repository:

- Changing the Popup Visibility type has a global effect on all instances where the business component is used. If multiple applications share the same repository and use the same business components, then changing the Popup Visibility type for a common business component might have an undesirable effect on another application.
- If multiple applications share the same applet, then the picklist in each applet shares the same visibility as defined by the OverridePopupVisibility property. This is because the OverridePopupVisibility property is set on the containing applet.

To override the pop-up visibility

- In Siebel Tools, navigate to Applet, then Applet User Properties, and define the OverridePopupVisibility user property on the applet containing the control that opens the pick applet.

If OverridePopupVisibility is used, then the picklist and pick applet search specifications are ignored during the synchronization when the records for the picklist are extracted.

It is recommended that you use the condition filter PopUpSearch as described in *Configuring Business Component Filters for Pop-up Applets* to restrict data download rather than the OverridePopupVisibility user property.

About Multiple Visibility Methods

When a record is extracted by using different visibilities, the record is tagged with each visibility. For example, if an individual contact record is extracted under Org visibility, and if the same contact record is extracted later under Salesrep visibility, then the visibility field on the record contains a bitmask indicating that the two visibilities apply to this record. The synchronization of mobile applications extracts data in the following order:

1. DefaultBusObjs
2. Views
3. PickList

About Visibility on the Siebel Mobile Client

Each record downloaded to the Siebel CRM client is sampled with a visibility number. The visibility number is used to determine which views the record must display. The visibilities supported and the corresponding visibility codes are shown in the table in *Determining the Correct Visibility*.

Note: Group, Catalog, or Sub Organization visibility are not supported. For each BC Table in the local storage, there is a column called _PdaVisibilityTypes which holds the visibility information. The value in this field is calculated using the following formula: The sum of the power of 2 to the n, where n is the visibility code indicating the visibility of the record. For example, if a record is configured with the Sales Representative and All visibility types, then the value in the _PdaVisibilityTypes field would be (2^0 + 2^3) = (1+8) = 9.

6 Deployment

Deploying Siebel Mobile

This chapter describes how to deploy a Siebel Mobile disconnected application, and includes information about server topology, hardware, network configuration, server installation, and performance and scalability. It includes the following topics:

- *Deploying Siebel Mobile Application Client*
- *Installing Siebel Server*
- *Configuring Siebel Server*
- *Roadmap for Configuring Incremental Synchronization for Siebel Mobile*
- *Migrating Applications From Asynchronous to Synchronous Programming Model*
- *Porting Siebel Server Scripts to Browser Side JavaScript*

Deploying Siebel Mobile Application Client

This topic provides an overview of important factors to consider when configuring Siebel Server for Siebel Mobile disconnected application synchronization. When planning and executing the deployment of a mobile application using server synchronization, you must understand the hardware and network requirements. While these factors are generally applicable to all deployments, there are unique aspects to each customer configuration and implementation. Therefore, it is recommended that customers conduct detailed configuration, sizing, and production-readiness reviews. For help with detailed configuration, sizing, and production readiness reviews, contact your Oracle sales representative for Oracle Advanced Customer Services to request assistance from Oracle's Application Expert Services. This is especially important for complex deployments, such as those supporting large numbers of users over wide, geographic areas.

You can also improve the performance and scalability of server synchronization deployments by working with the parameters of the Siebel application server component. For more information about the Siebel application server, see *Optimizing Siebel Server Process Management for Application Synchronization*.

> **Note:** The recommendations in this chapter are general ones and are intended to raise your awareness of the key factors in Siebel Mobile disconnected application synchronization, performance, and scalability. These factors must be confirmed in your environment, and the usage patterns in your enterprise must be considered.

Siebel Server Topology Overview

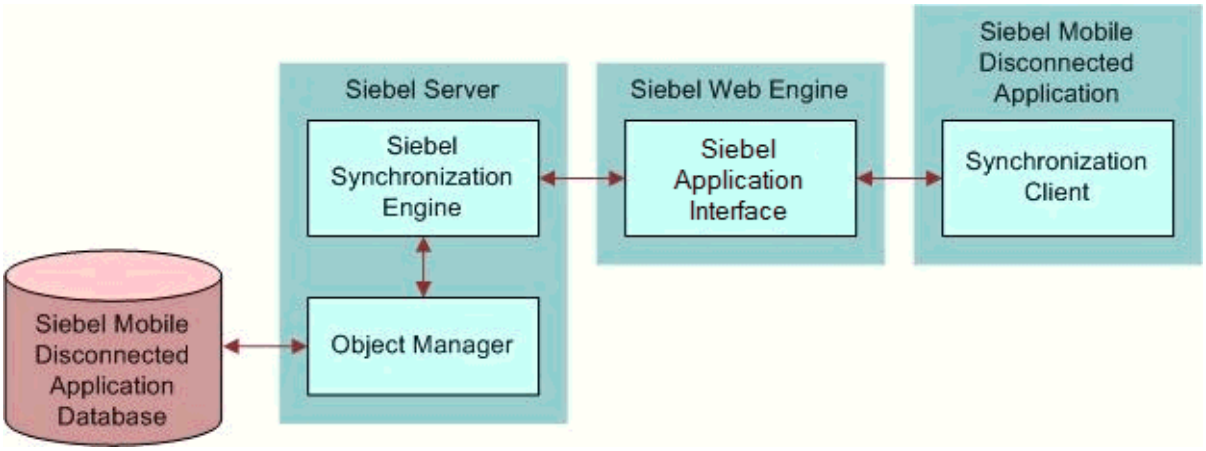
The following image shows the servers and components that are required to deploy server synchronization for a mobile application. The components are as follows:

- Siebel Mobile disconnected application database
- Siebel Server
- Siebel Web engine

- Siebel Mobile disconnected application

The synchronization components are as follows:

- Synchronization engine for the Siebel Mobile disconnected application, which resides on Siebel Server.
- Siebel Mobile disconnected Synchronization Client, which resides on the Siebel Mobile disconnected application.



Recommended Hardware and Network Configuration

The critical factor in sizing the implementation of a Siebel Mobile disconnected application is the expected, peak-synchronization load. When calculating this load, consider the following specific, mobile-application variables. You must consider these variables within the context of the hardware specifications, including memory and processor speed:

- Number of concurrent users
- Number of transactions
- Size of the data file

The following resources are available as you plan the implementation of your Siebel Mobile disconnected application:

- Refer to Microsoft and manufacturer documentation for comprehensive information on server hardware and registry parameters.
- For assistance with hardware planning and network implementations for mobile applications, contact your Oracle sales representative for Oracle Advanced Customer Services to request assistance from Oracle's Application Expert Services.

Installing Siebel Server

This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications*. The components that are required for Siebel Mobile disconnected applications are installed when you install the Siebel Server. This topic includes the following information:

- *Installing the Components for Application Synchronization Using Siebel Server Installer*

- *Siebel Server Component Parameters for Application Synchronization*
- Add the remote installation for Siebel Mobile disconnected applications

  For information about enabling the component groups for Siebel Mobile, see *Enabling the Component Groups for Siebel Mobile* and *Setting Up the Disconnected Mobile Synchronization Component Group*.

For information about installing and configuring Siebel Server, see *Siebel Installation Guide* .

Installing the Components for Application Synchronization Using the Siebel Server Installer

Install the Siebel Server, following the instructions in the Siebel Server installation guide for the operating system you are using. When you reach the Setup Type screen in the Installer wizard, you are presented with three installation options:

- **Typical.** This setup option installs all Siebel Server components.
- **Compact.** This setup option installs only those components necessary to run the Siebel Server but no additional components or help.
- **Custom.** This setup option lets you customize your installation by choosing the specific components that you want to install.

To install the components for application synchronization

1. During the Siebel Server installation, when the Setup Type screen appears, choose the Custom setting, and then click Next.

   Note: At this screen, you can also choose a different directory for your Siebel Server installation.

2. From the following components, choose Handheld Synchronization:
   - Siebel Application Object Manager Component
   - Handheld Synchronization
   - Siebel Data Quality Connector
   - Remote Search Support
   - Siebel Java Integrator
3. Click Next.

   Continue with the installation in the *Siebel Installation Guide* . The installation wizard automatically installs and configures the components for server synchronization.

Siebel Server Component Parameters for Application Synchronization

Some common mobile applications, such as Siebel Pharma, are preconfigured by default. If you want to configure additional applications, see *Configuring Siebel Server* for more information. You must add the synchronization server component (application object manager for the Siebel Mobile disconnected application) that you installed and

configured to reflect your company's environment. See the following table for a list of the required parameters. For information on adding server components for server synchronization, see *Siebel System Administration Guide* .

Parameter	Default Value	Description
ApplicationName	This value can be, for example, the following: Siebel ePharma Mobile.	The Siebel Mobile disconnected application. This value must match the name of the mobile application as it is specified in Siebel Tools.
ApplicationTitle	This value can be, for example, the following: Siebel ePharma Mobile.	The name of the Siebel Mobile disconnected application as shown on the title bar of the Siebel app. This parameter is used only if the Siebel application developed for the mobile application is running on the Siebel Mobile Web Client.
ApplicationSplashText	This value can be, for example, the following: Siebel ePharma Mobile.	The Siebel Mobile disconnected application name as shown on the splash screen. This parameter is used only if the application developed (in Siebel Tools) for the Siebel Mobile disconnected application is running on the Siebel Mobile Web Client.

Configuring Siebel Server

This task is a step in *Roadmap for Setting Up Siebel Mobile Disconnected Applications*. The Siebel Server installer copies the necessary DLLs to create a Siebel Application Object Manager for enabling server synchronization for Siebel Mobile disconnected applications. It also creates and configures a server component and component group. This topic describes which options you must select to install the software correctly, along with creating or configuring additional Siebel Application Object Managers.

This topic includes the following information:

- *Configuring Logging Levels for Application Synchronization*
- *Optimizing Siebel Server Process Management for Application Synchronization*
- *Roadmap for Configuring Incremental Synchronization for Siebel Mobile*

Configuring Logging Levels for Application Synchronization

To set the logging level, you must perform the following tasks:

1. Configure Siebel Server logging using the Server Manager
2. Configuring Siebel Server logging using the Server Configuration screen

You set the logging level to a value between 1 and 5 as shown in the following table.

Logging Level	Results
1	Error listing
2	Warning listing

Logging Level	Results
3	Information listing, including SQL tracing
4	Information listing
5	Debug information

The following procedure shows you how to configure Siebel Server logging levels using the Server Manager.

To configure Siebel Server logging using the Server Manager

1. Log in to the command Server Manager from a prompt.
2. Run the following command:

```
change evtloglvl HandheldSyncLog=[LogLevel] for comp [OMName],
where [LogLevel] = an integer between 1 - 5 /*(5 enables all logging)*/
and [OMName] = the OM name /*(for example,<ApplicationName>ePharmaMObjMgr_
enu)*/
```

The following procedure shows you how to configure Siebel Server logging levels using the Server Configuration screen.

To configure Siebel Server logging using the Server Configuration screen

1. Navigate to Administration - Server Configuration screen, then the Servers view.
2. Select the appropriate Siebel Server in the upper applet.
3. In the Components applet, query for the appropriate component.
4. Select the Events tab and then do the following:
   a. Query for the event type, Handheld Sync Logging.
   b. Set the value to a number between 1-5, and then save the change.

      See the previous table for the logging-level results.

Optimizing Siebel Server Process Management for Application Synchronization

Several parameters help to optimize Siebel Server processing for Siebel Mobile disconnected application synchronization.

To set parameters to optimize Siebel Server process management

1. Log in to the Siebel application as a user with administrator privileges.
2. Navigate to the Administration - Server Configuration screen, then the Servers view.
3. Select the appropriate Siebel Server in the upper applet.
4. In the Components applet, query for the appropriate component.

   For example: ePharmaMObjMgr_enu.

5. Select the Parameters tab and then update the parameters as described in the following table.

Parameter	Description
Max Tasks	Determines the maximum number of threads that can run concurrently for a given component. Set the value of this parameter to a number equal to that of the expected peak number of concurrent synchronizations for each Siebel Server.
Min MT Servers	Determines how many multithreaded server processes are started by default for the Siebel Application Object Manager.
Max MT Servers	Defines the maximum number of processes supported by the instance of Siebel Application Object Manager. The value for this parameter must be the same as the Min MT Servers parameter. Set it so that the threads for each process (Max Tasks and Max MT Servers) are optimized.

Roadmap for Configuring Incremental Synchronization for Siebel Mobile

Perform the following tasks to configure incremental synchronization for Siebel Mobile disconnected applications:

1. *Enabling Incremental Synchronization for Siebel Mobile*
2. *Configuring the Object Mappings for a New Business Component*
3. *Enabling Modification Tracking for Application Clients*

Configuring the Object Mappings for a New Business Component

The following procedure shows you how to configure the object mappings for a new or customized business component.

To configure the object mappings for a new business component

1. Log in to Siebel Tools and do the following:
    a. Locate the new business component that you want and its corresponding base table name, and make a note of the object mappings in the table.
    b. If the new business component is a child that has a many-to-many relationship with its parent business component, then locate the corresponding parent business object and make a note of the intersection table name.
    c. If the new business component contains a picklist business component, which does not exist in the object mapping table, then locate the corresponding picklist business object and make a note of the table name.
2. Log in to your Siebel business application, and configure the object mappings as follows:

a. Navigate to the Administration - Siebel Mobile screen, Application Administration, and then the Object Definition view.
b. Select the appropriate mobile application in the upper applet.
c. Add all the required business component-to-table object mappings as follows:

   - Click New to add each new entry.
   - Set Table to the table name.
   - Set Business Component to the business component name.

     For example, to map Account to the S_PARTY table, set Business Component to Account and set Table to S_PARTY, and so on.

d. If required, configure the intersection and picklist table mappings as shown in the previous step.

   For all intersection table mappings, note that the business component name and the table name must be the same. So if the name of the intersection table is S_CON_ADDR, then click New to add a new entry, and set Table to S_CON_ADDR and set Business Component to S_CON_ADDR.

3. Click the Settings tab, and set the Purge Interval to 30 if not already done so.

Enabling Modification Tracking for Application Clients

Use the following procedure to enable modification tracking for Siebel Mobile disconnected application clients.

To enable modification tracking for application clients

1. Log in to the Siebel application as a user with administrator privileges.
2. Navigate to the Administration - Siebel Mobile screen, then the Mobile Clients view.
3. Locate and select the mobile client that you want from the Mobile Clients list, then complete the following field:

   Mobile Application Name. Select the appropriate mobile application for this node.

   For information about how to configure a new client, see *Configuring the Mobile Node for Siebel Mobile Users*.
4. Run dbxtract (database extract) for this mobile client, and then restart txnproc and txnroute.

   After dbxtract is run, a full data and metadata download is enforced on the mobile client by Siebel Mobile when the mobile client next sends a synchronization request to the Siebel Server.

   For information about how to run dbxtract, see *Running Database Extract for Siebel Mobile Users*.

Note: If you remove a mobile application from the Mobile Application Name field in the Mobile Clients view and then add either the same or a new mobile application, then Siebel Mobile enforces a full data and metadata download on all corresponding mobile clients (or mobile application users) who are configured to use the mobile application, when the mobile clients next send a synchronization request to the Siebel Server. Removing a mobile application from the Mobile Clients view terminates the relationship between the mobile application and the mobile clients, and renders the application repository objects invalid. Adding a mobile application, regardless of whether the application was previously added or whether the application is new, creates a new relationship between the mobile application and the mobile clients. Hence a full data and metadata download is required.

Migrating Applications From Asynchronous to Synchronous Programming Model

Siebel Mobile disconnected uses a synchronous programming model where `$.callback` and `$.setReturnValue` are not required. Previous releases of Siebel Mobile, prior to Siebel Innovation Pack 2016, used an asynchronous programming model where business services used a `$.callback` and `$.setReturnValu` for every method.

> **Note:** Customers who have written their own JavaScripts for Siebel Mobile disconnected must complete this task. This task is not required for customers planning to use Siebel Mobile disconnected for the first time with latest Siebel Innovation Pack.

Migrating Siebel Mobile disconnected from an asynchronous to a synchronous programming model involves the following

- Removing `$.callback` for all calling and called functions in the core framework (`buscomp.js`, `applet.js`, `appmgr.js`, `browsercachemgr.js`, `model.js`, and `view.js`).

  Note that metadata discovery is retained as an asynchronous call.
- Removing `$.callback` from all Siebel Mobile disconnected applications.
- Removing `$.setReturnValue`.
- Returning a value instead of `$.setReturnValue` in all functions.

To assist you in migrating Siebel Mobile disconnected JavaScript code from an asynchronous to a synchronous programming model, a migration tool (`async2sync.pyc`) is provided. For more information about the JavaScript migration tool, see *About the JavaScript Migration Tool*.

About the JavaScript Migration Tool

The JavaScript migration tool, async2sync.pyc, is located in the following custom folder:

```
AI_INSTALL\applicationcontainer_external\siebelwebroot\scripts\siebel\offline\custom
```

Python v2.x is required and must be installed to use the JavaScript migration tool.

The purpose of the JavaScript migration tool is to assist you in migrating application scripts from an asynchronous to a synchronous programming model. You can run the migration tool in debug mode (which is the default mode). Debug mode keeps the debug information in the output js file.

The JavaScript migration tool has the following limitations:

- It cannot identify exactly which functions are asynchronous or synchronous.

  It can handle native asynchronous functions (which contain $.setReturnValue or $.callback). However, it cannot handle the synchronous wrapper for asynchronous functions. Documented APIs are provided within the tool.
- It cannot exactly identify whether or not the caller should receive a return value from the functions.

Modifying Identified Patterns in the Existing Code Base

There are certain identified patterns in the existing code base that must be modified when migrating Siebel Mobile disconnected from an asynchronous to a synchronous programming model, and the purpose of this topic is to highlight those patterns.

Patterns in the existing code that must be modified include the following:

1. Add a return value to the end of all asynchronous functions, for example, as follows:

   ```
   BusComp.prototype.SetFieldValueX = function (fieldName, fieldData,
   SkipValidate, bSkipMvgCheck, bSkipED) { var currRetValue={err:false}, retObj;
   // code body return(currRetValue);
   }
   ```

   Asynchronous functions typically declare the local function.
2. The Return value in asynchronous functions must return the currRetValue.

   For example, change the following:

   ```
   return;
   ```

   To the following:

   ```
   return currRetValue;
   ```

   If the return value already returns an object (obj), it raises a conflict and must be manually fixed, for example, as follows:

   ```
   return someObj;
   ```
3. The setReturnValue value must set the currRetValue value.

   For example, change the following:

   ```
   $.setReturnValue({ err: true, retVal: data });
   ```

   To the following:

   ```
   currRetValue={ err: true, retVal: data };
   ```

   a. If setReturnValue returns the current function, then change the following for example:

      ```
      $.setReturnValue({ err: true, retVal: data });
      return;
      ```

      To the following:

      ```
      currRetValue={ err: true, retVal: data };
      return currRetValue;
      ```

   b. If setReturnValue passes the value to the next $.callback, then change the following:

```
$.setReturnValue({ err: true, retVal: data });
...//some code branch $.callback(this, function(retObj) {
...//some code in call back
});
```

To the following:

```
currRetValue={ err: true, retVal: data };
 ..//some code branch
retObj = currRetValue;
. .//some code in call back
```

4. All calls to the asynchronous function must receive the synchronous value.

   For example, change the following:

   ```
   asyncFunc(args);
   ```

   To the following:

   ```
   currRetValue=asyncFunc(args);
   ```

5. Remove all $.callbacks, for example, as follows:

   ```
   someAsyncFunc();
   $.callback(scope, function(retObj) {
   ...//some code in call back
   });
   ```

   a. If there is a retObj argument, then change the $.callback to the following for example:

      ```
      currRetValue=someAsyncFunc();
      retObj=currRetValue;
      ...//some code in call back
      ```

   b. If there is no retObj argument, then change the $.callback from the following:

      ```
      someAsyncFunc();
      $.callback(scope, function() {
      ...//some code in call back
      });
      ```

      To the following:

      ```
      currRetValue=someAsyncFunc();
      ...//some code in call back
      ```

   c. Most $.callback functions take an argument with the retObj name, but if the argument has a different retObj name, then declare a new local variable for example as follows:

      ```
      var someOtherRetObj = currRetValue;
      ```

   d. If the $.callback function is a handler, then change the following for example:

      ```
      someAsyncFunc();
      $.callback(this, doneHandler);
      ```

      To the following:

```
currRetValue=someAsyncFunc();
retObj=currRetValue;
currRetValue=doneHandler.call(this,retObj)
```

6. Remove nested functions in asynchronous functions.
   - Reuse currRetValue/retObj in nested functions.
   - Replace nested functions using $.setReturnValue and $.callback with currRetValue/retObj.

   For example, migrate the following:

```
BusComp.prototype.SetFieldValueX = function (fieldName, fieldData, bSkipValidate,
bSkipMvgCheck, bSkipED) {

 if (this.IsDeletePending()) {
 this.WriteRecord();
 $.callback(this,function(retObj){
 if(retObj.err){
 $.setReturnValue(retObj);//sync:remove:continue
 }else{

 SetFieldValueUpdate.call(this,fieldName,bPicked,fieldData);
 }
 });
 }else{
 SetFieldValueUpdate.call(this,fieldName,bPicked,fieldData);
 }
 $.callback(this, function (retObj) {
 if(!retObj.err){

 SetFieldValuePostCall.call(this,fieldName,bPicked,inputObj,psInputArgs);
 $.callback(this,function(retObj){
 $.setReturnValue(retObj);
 });
 }else{
 $.setReturnValue(retObj);
 }
 });
}
```

   To the following:

```
BusComp.prototype.SetFieldValueX = function (fieldName, fieldData, bSkipValidate, bSkipMvgCheck,
 bSkipED) {

 var currRetValue={err:false}, retObj;
 if (this.IsDeletePending()) {
 currRetValue=this.WriteRecord();
 retObj=currRetValue;
 //$.callback(this,function(retObj){
 if(retObj.err){
 currRetValue=(retObj);
 }else{

currRetValue=SetFieldValueUpdate.call(this,fieldName,bPicked,fieldData);
 }
 //});
 }else{

currRetValue=SetFieldValueUpdate.call(this,fieldName,bPicked,fieldData);
 }
 retObj=currRetValue;
```

```
 //$.callback(this, function (retObj) {
 if(!retObj.err){

currRetValue=SetFieldValuePostCall.call(this,fieldName,bPicked,inputObj,psInputArgs);
 retObj=currRetValue;
 currRetValue=(retObj);
 }else{
 currRetValue=(retObj);
 }
 //});
 return(currRetValue);
 }
```

Porting Siebel Server Scripts to Browser Side JavaScript

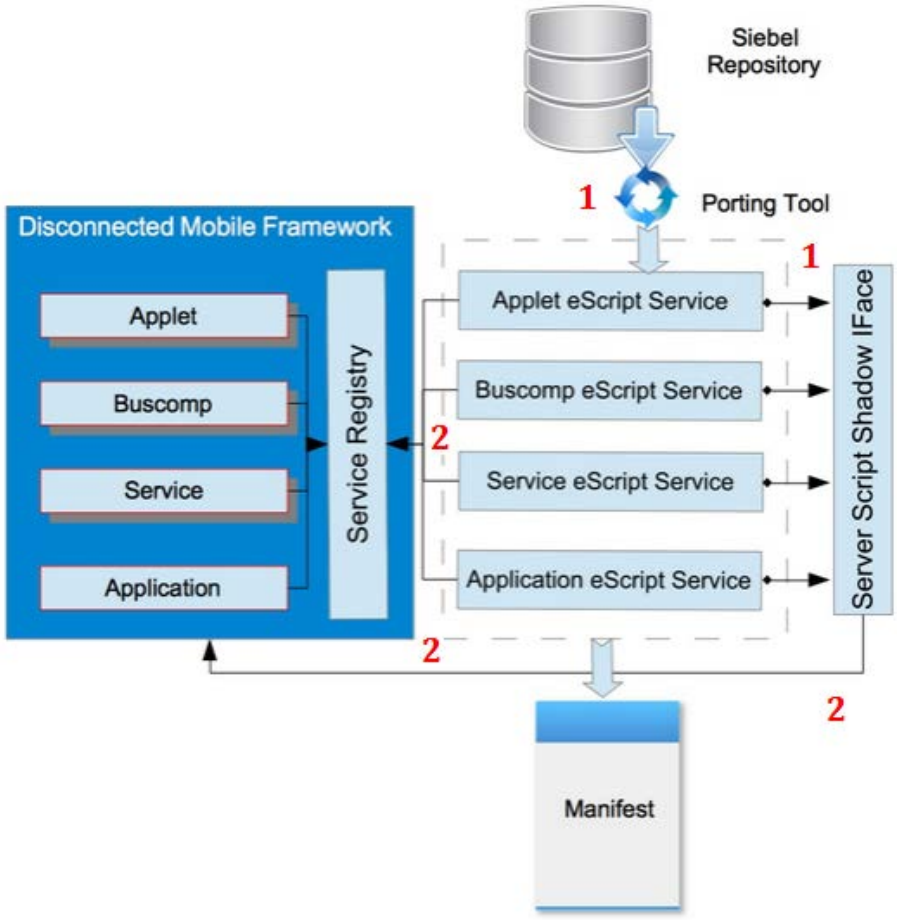
This topic introduces the eScript Porting tool (escriptporter.exe) for porting Siebel Server-side scripts from the database to the Siebel Mobile disconnected client in offline mode. Using this tool eliminates the need to invest time in converting the existing server-side online customizations (originally done using eScript) to offline JavaScript services.

The steps involved in porting Siebel Server-side scripts to browser side JavaScript, shown in the following image, are as follows:

1. Run the eScript Porting tool against the Siebel database. The eScript Porting tool executes SQL queries to extract server scripts for the following:
   - Events defined for the applet, business component, business object and application.
   - Business service methods.

   For more information about the SQL queries that the eScript Porting tool executes, see *Using the eScript Porting Tool*.
2. The (extracted) escripts are stored in a format which registers them into the Siebel Mobile disconnected framework.

   A format template file is used for the application, applet, and business component and another format template file is used for business component



Using the eScript Porting Tool

escriptporter.exe is located in the `siebsrvr/BIN` folder. For example:

```
$SIEBEL_ROOT\bin\escriptporter.exe
```

The environment variable SIEBEL_REPOSITORY, which defines the repository to be extracted, must be set before running escriptporter.exe. For example:

```
Set SIEBEL_REPOSITORY=Siebel Repository
```

escriptporter.exe uses the following command arguments:

```
/U Username (Required)
/P Password (Required)
/C ODBC Data Source (Default Environment Variable: SIEBEL_DATA_SOURCE)
/D Siebel Table Owner (Default Environment Variable: SIEBEL_TABLE_OWNER)
/O OutputDir (Default: escripts)
/G Language (Default: ENU)
/W Siebel Application Interface Dir
```

where:

- /U username is the user name used to log in to the database.

- /P Password is the password used to log in to the database.
- /C ODBC Data Source is the database to log in to.
- /D Siebel Table Owner is the table owner who owns Siebel tables.
- /O OutputDir is the path where exported escripts are stored.
- /G Language is the language the log will use.
- /W Siebel Application Interface Dir is the path where eapps are located.

Defining Filters for the eScript Porting Tool

The eScript Porting tool command is located in `$SIEBEL_ROOT\escriptTmpl`.

Filters are defined for applications, applets, business components, and business services in the escriptporter.cfg file as follows:

- Application filters are defined in the APPLICATIONS section of escriptporter.cfg.
- Applet filters are defined in the APPLETS section of escriptporter.cfg.
- Business component filters are defined in the BUSCOMPS section of escriptporter.cfg.
- Business service filters are defined in the BUSSVCS section of escriptporter.cfg.

You define a filter using either the exact name of the filter or a name pattern.

Exact Name Filter

The syntax for defining a filter using the exact name of the filter is as follows:

- **`Filter_Name X = name`**

  Filter_Name is the prefix and X is a number, starting from 1. The name value is the name of application, applet, business component, or business service

- **`Filter_NameListFile = filename`**

  Filename is the file containing the names of the applications, applets, business components, or business services. Each line in the file defines a name, for example, as follows:

  ```
  SAP 4x Account - SAP Maps (MO) Send AlertOnline eMail
  ```

  The file name can use a relative path or an absolute path. If using a relative path, then `$siebroot\escriptTmpl\` is appended to the relative path.

Name Pattern Filter

The syntax for defining a filter using a name pattern (SQL format) is as follows:

```
Filter_SqlNamePattern[X] = name pattern
```

Filter_Name is the prefix. X is a number, starting from 1 (if there is a number). The name pattern value must be in SQL format.

Example escriptporter.cfg File

An example of an escriptporter.cfg file is as follows:

```
[APPLICATIONS]
 Filter_Name1= Siebel ePharma Mobile

[APPLETS]
 Filter_SqlNamePattern = "Mobile"

[BUSCOMPS]
 Filter_Name1= Account
 Filter_Name2= Account Attachment
 Filter_SqlNamePattern = "Account"

[BUSSVCS]
 Filter_Name1= Quote - SAP 47 Maps
 Filter_Name2= Send AlertOnline eMail
 Filter_SqlNamePattern = "Order Maps"
 Filter_SqlNamePattern = "Account"
 Filter_NameListFile = service.txt
```

Example SQL Query Scripts

This topic shows some example SQL queries that escriptporter.exe (eScript Porting tool) executes to extract the server-side scripts from the Siebel database.

Example SQL for Querying Application Events: The table owner and hard coded parameter values in the following example SQL for querying application events are replaceable.

```
DM_GET_APPL_ESCRIPT =
 SELECT app.NAME,script.Name scriptName, script.SCRIPT
 FROM S_APPL_SCRIPT script,
 S_APPLICATION app
 WHERE app.ROW_ID = script.APPLICATION_ID
 AND script.PROG_LANG = 'JS'
 AND app.REPOSITORY_ID = (SELECT ROW_ID FROM DATAQ1.S_REPOSITORY WHERE NAME = 'Siebel Repository')
 AND app.INACTIVE_FLG = 'N'
 AND script.INACTIVE_FLG = 'N';
 /
```

Example SQL for Querying Applet Events: The table owner and hard coded parameter values in the following example SQL for querying applet events are replaceable.

```
DM_GET_APPLET_ESCRIPT =
 SELECT applet.Name appletName,script.Name scriptName,script.SCRIPT
 FROM DATAQ1.S_APPL_WEBSCRPT script,
 DATAQ1.S_APPLET applet
 WHERE script.APPLET_ID = applet.ROW_ID
 AND script.PROG_LANG = 'JS'
 AND applet.REPOSITORY_ID = (SELECT ROW_ID FROM DATAQ1.S_REPOSITORY WHERE NAME = 'Siebel Repository')
 AND applet.INACTIVE_FLG = 'N'
 AND script.INACTIVE_FLG = 'N';
 /
```

Example SQL for Querying Business Component Events: The table owner and hard coded parameter values in the following example SQL for querying business component events are replaceable.

```
DM_GET_BUSCOMP_ESCRIPT =
 SELECT buscomp.NAME bcName,script.Name scriptName, script.SCRIPT
```

```
 FROM S_BUSCOMP_SCRIPT script,
 S_BUSCOMP buscomp
 WHERE buscomp.ROW_ID = script.BUSCOMP_ID
 AND script.PROG_LANG = 'JS'
 AND buscomp.REPOSITORY_ID = (SELECT ROW_ID FROM DATAQ1.S_REPOSITORY WHERE NAME = 'Siebel Repository')
 AND buscomp.INACTIVE_FLG = 'N'
 AND script.INACTIVE_FLG = 'N';
/
```

Example SQL for Querying Business Service Events: The table owner and hard coded parameter values in the following example SQL for querying business service events are replaceable.

```
DM_GET_SERVICE_ESCRIPT =
 SELECT service.NAME svcName ,script.Name scriptName, script.SCRIPT
 FROM S_SERVICE_SCRPT script,
 S_SERVICE service
 WHERE service.ROW_ID = script.SERVICE_ID
 AND script.PROG_LANG = 'JS'
 AND service.REPOSITORY_ID = (SELECT ROW_ID FROM DATAQ1.S_REPOSITORY WHERE NAME = 'Siebel Repository')
 AND service.INACTIVE_FLG = 'N'
 AND script.INACTIVE_FLG = 'N';
/
```

Supported Offline APIs

This topic lists the offline APIs supported by escriptporter.exe, the eScript Porting tool. Some objects and functions used in the Siebel Server-side script are missing or different in the Siebel Mobile disconnected framework. For a complete list of unsupported functions, see *Unsupported Offline APIs*.

The technologies you can use to access the object interface methods include the following:

- Applet Methods
- Application Methods
- Business Component Methods
- Business Object Methods
- Business Service Methods
- Control Methods
- Property Set Methods
- Micellaneous Methods

Applet Methods

You can use the following technologies to access applet object interface methods. You can use an applet object interface method only with Server Script and Browser Script.

- ActiveMode Method for an Applet
- BusComp Method for an Applet
- BusObject Method for an Applet
- FindActiveXControl Method for an Applet
- FindControl Method
- Examples of Using the FindControl Method

- Name Method for an Applet

For more information about each of these applet methods, see *Siebel Object Types Reference* .

Application Methods

You can use the following technologies to access application methods.

- ActiveApplet Method for an Application
- ActiveBusComp Method for an Application
- ActiveBusObject Method for an Application
- ActiveViewName Method for an Application
- Attach Method for an Application
- CurrencyCode Method for an Application
- Detach Method for an Application
- EnableExceptions Method for an Application
- FindApplet Method for an Application
- GetBusObject Method for an Application
- GetLastErrCode Method for an Application
- GetLastErrText Method for an Application
- GetService Method for an Application
- GotoView Method for an Application
- InvokeMethod Method for an Application
- Language Method for an Application
- Called only with InvokeMethod
- LoadObjects Method for an Application
- Login Method for an Application
- LoginId Method for an Application
- LoginName Method for an Application
- Logoff Method for an Application
- Name Method for an Application
- NewPropertySet Method for an Application
- PositionId Method for an Application
- PositionName Method for an Application
- ShowModalDialog Method for an Application
- SWEAlert Method for an Application

For more information about each of these application methods, see *Siebel Object Types Reference* .

Business Component Methods

You can use the following technologies to access business component methods. You cannot use these methods with the Web Client Automation Server.

- ActivateField Method for a Business Component
- ActivateMultipleFields Method for a Business Component
- Associate Method for a Business Component
- BusObject Method for a Business Component
- ClearLOVCache Method for a Business Component
- Called only with InvokeMethod
- ClearToQuery Method for a Business Component
- CreateFile Method for a Business Component
- Called only with InvokeMethod
- DeactivateFields Method for a Business Component
- DeleteRecord Method for a Business Component
- ExecuteQuery Method for a Business Component
- FirstRecord Method for a Business Component
- GenerateProposal Method for a Business Component
- Called only with InvokeMethod
- GetAssocBusComp Method for a Business Component
- GetFieldValue Method for a Business Component
- GetFile Method for a Business Component
- Called only with InvokeMethod
- GetLastErrCode Method for a Business Component
- GetLastErrText Method for a Business Component
- GetMultipleFieldValues Method for a Business Component
- GetPicklistBusComp Method for a Business Component
- GetSearchExpr Method for a Business Component
- GetSearchSpec Method for a Business Component
- GetSortSpec Method for a Business Component
- GetUserProperty Method for a Business Component
- GetViewMode Method for a Business Component
- InvokeMethod Method for a Business Component
- Name Method for a Business Component
- NewRecord Method for a Business Component
- NextRecord Method for a Business Component
- ParentBusComp Method for a Business Component

- Pick Method for a Business Component
- PutFile Method for a Business Component
- Called only with InvokeMethod
- RefreshBusComp Method for a Business Component
- Called only with InvokeMethod
- RefreshRecord Method for a Business Component
- Called only with InvokeMethod
- Release Method for a Business Component
- SetAdminMode Method for a Business Component
- Called only with InvokeMethod
- SetFieldValue Method for a Business Component
- SetMultipleFieldValues Method for a Business Component
- SetSearchExpr Method for a Business Component
- SetSearchSpec Method for a Business Component
- SetSortSpec Method for a Business Component
- SetViewMode Method for a Business Component
- UndoRecord Method for a Business Component
- WriteRecord Method for a Business Component

For more information about each of these business component methods, see *Siebel Object Types Reference* .

Business Object Methods

You can use the following technologies to access business object methods. You cannot use these methods with the Web Client Automation Server.

- GetBusComp Method for a Business Object
- GetLastErrCode Method for a Business Object
- GetLastErrText Method for a Business Object
- Name Method for a Business Object
- Release Method for a Business Object

For more information about each of these business object methods, see *Siebel Object Types Reference* .

ervice Methods

You can use the following technologies to access business service methods.

- InvokeMethod Method for a Business Service
- Name Method for a Business Service
- Release Method for a Business Service

For more information about each of these business service methods, see *Siebel Object Types Reference* .

Control Methods

You can use the following control methods. You can use these methods only with Browser Script:

- Applet Method for a Control
- BusComp Method for a Control
- GetProperty Method for a Control
- GetValue Method for a Control
- Name Method for a Control
- SetLabelProperty Method for a Control
- SetProperty Method for a Control
- SetValue Method for a Control

For more information about each of these control methods, see *Siebel Object Types Reference* .

Property Set Methods

You can use the following technologies to access property set methods.

- AddChild Method for a Property Set
- Copy Method for a Property Set
- GetByteValue Method for a Property Set
- GetChild Method for a Property Set
- GetChildCount Method for a Property Set
- GetFirstProperty Method for a Property Set
- GetLastErrCode Method for a Property Set
- GetLastErrText Method for a Property Set
- GetNextProperty Method for a Property Set
- GetProperty Method for a Property Set
- GetPropertyCount Method for a Property Set
- GetType Method for a Property Set
- GetValue Method for a Property Set
- InsertChildAt Method for a Property Set
- PropertyExists Method for a Property Set
- RemoveChild Method for a Property Set
- RemoveProperty Method for a Property Set
- Reset Method for a Property Set
- SetByteValue Method for a Property Set
- SetProperty Method for a Property Set
- SetType Method for a Property Set

- SetValue Method for a Property Set

For more information about each of these property set methods, see *Siebel Object Types Reference* .

Miscellaneous Methods

You can use the following technologies to access other methods that you can use.

- GetErrorCode Method
- GetErrorMessage Method
- TheApplication Method

Note: You cannot use these methods with the following technologies: Web Client Automation Server, Mobile Web Client Automation Server, COM Data Control, and COM Data Server.

For more information about each of these miscellaneous methods, see *Siebel Object Types Reference* .

Unsupported Offline APIs

This topic lists the offline APIs that are not supported by escriptporter.exe, the eScript Porting tool. Some objects and functions used in the Siebel Server-side script are not implemented in the Siebel Mobile disconnected framework. Any function invoked that is not supported shows a pop-up message saying `This function is not supported`.

For more information about the technologies you cannot use to access the object interface methods, see the following:

- Application Methods
- Business Component Methods
- Business Service Methods
- Buffer Lib Methods
- SELib Methods
- CLib Methods
- Global Mehods

Application Methods

The following technologies are not supported to access application methods:

- GetDataSource Method for an Application
- GetProfileAttr Method for an Application
- GetSharedGlobal Method for an Application
- IsViewReadOnly Method for an Application
- LoadUserAttributes Method for an Application
- LookupMessage Method for an Application
- LookupValue Method for an Application
- RaiseError Method for an Application

- RaiseErrorText Method for an Application
- SetPositionId Method for an Application
- SetPositionName Method for an Application
- SetProfileAttr Method for an Application
- SetSharedGlobal Method for an Application
- Trace Method for an Application
- TraceOff Method for an Application
- TraceOn Method for an Application

Business Component Methods

The following technologies are not supported to access business component methods:

- ExecuteQuery2 Method for a Business Component
- FirstSelected Method for a Business Component
- GetFormattedFieldValue Method for a Business Component
- GetMVGBusComp Method for a Business Component
- GetNamedSearch Method for a Business Component
- LastRecord Method for a Business Component
- NextSelected Method for a Business Component
- PreviousRecord Method for a Business Component
- RefineQuery Method for a Business Component
- SetFormattedFieldValue Method for a Business Component
- SetNamedSearch Method for a Business Component
- SetUserProperty Method for a Business Component

Business Service Methods

The following technologies are not supported to access business service methods:

- GetFirstProperty Method for a Business Service
- GetNextProperty Method for a Business Service
- GetProperty Method for a Business Service
- PropertyExists Method for a Business Service
- RemoveProperty Method for a Business Service
- SetProperty Method for a Business Service

Buffer Lib Methods

The following technologies are not supported to access buffer lib methods:

- Buffer

- getString
- getValue
- offset[]
- putString
- putValue
- subBuffer
- toString

SELib Methods

The following technologies are not supported to access SELib methods:

- dynamicLink
- peek
- pointer
- poke

CLib Methods

The following technologies are not supported to access CLib methods:

- memchr
- memcmp
- memcpy
- memmove
- memset
- isalnum
- isalpha
- isascii
- iscntrl
- isdigit
- isgraph
- islower
- isprint
- ispunct
- isspace
- isupper
- isxdigit
- toascii
- clearerr

- perror
- strerror
- chdir
- getcwd
- fclose
- feof
- fflush
- fgetc
- getc
- fgetpos
- fgets
- fopen
- fprintf
- fputc
- putc
- fputs
- fread
- freopen
- fscanf
- fseek
- fsetpos
- ftell
- fwrite
- mkdir
- remove
- rename
- rewind
- rmdir
- sscanf
- mpfile
- tmpnam
- ngetc
- cosh
- div ldiv
- frexp
- ldexp

- modf
- rand
- sinh
- srand
- tanh
- rsprintf
- sprintf
- strchr
- strcspn
- stricmp
- strcmpi
- strlwr
- strncat
- strncmp
- strncmpi
- strnicmp
- strncpy
- strpbrk
- strrchr
- strspn
- strstr
- strstri
- asctime
- clock
- difftime
- gmtime
- localtime
- mktime
- tmpnam
- bsearch
- getenv
- putenv
- qsort
- system
- atof
- atoi

- atol
- fmod
- strcat
- strcmp
- strcpy
- strlen
- strlwr
- strtod
- strtol
- strupr
- tolower
- toupper

Global Methods

The following technologies are not supported to access global methods:

- COMCreateObject
- undefine

7 Synchronization

Handling Synchronization Conflicts and Insert-Transaction Failures

This chapter outlines how to handle synchronization conflicts, insert-transaction failures, and recovery for Siebel CRM disconnected applications. It includes the following topics:

- *Preventing Synchronization Transaction Conflicts in Siebel Mobile*
- *Handling Insert-Transaction Failures*
- *Defining the Settings for Processing Insert-Transaction Failure*
- *Resolving Conflicts and Recovering Error Data in Siebel Mobile*

Preventing Synchronization Transaction Conflicts in Siebel Mobile

When multiple users synchronize with a remote database, transaction conflicts can occur which might result in data loss. The Insert-Transaction Failure functionality minimizes synchronization transaction conflicts and eliminates the potential for data loss. If transaction conflicts are unavoidable, then the Synchronization Service for the Siebel Mobile disconnected application captures the transaction information so that the data can be recovered. For more information, see *Handling Insert-Transaction Failures*.

Handling Insert-Transaction Failures

When the server executes an insert transaction and the insert transaction fails, the insert-transaction failure can be handled in one of the following ways:

- A record is logged that indicates the insert transaction failed, and synchronization continues. This is the default insert behavior. You can use the Conflict Administration screen to recover the data.
- The insert-transaction failure is logged, including the details of the failure, and synchronization is interrupted. This is the FailOnError behavior. FailOnError behavior guarantees that if an insert transaction fails, then data loss does not occur since the synchronization is stopped and until the cause of the failure is resolved.

Note: If FailOnError processing takes place, then the synchronization is interrupted. The synchronization process continues to fail until the problem is resolved. Users must contact their system administrators to recover from the failure. The recovery effort can involve modifying transactions queued for processing, modifying data on the server, or reentering transactions through the Siebel Mobile disconnected application.

You can enable the processing of insert-transaction failure globally or at the business component level when you configure the Siebel Mobile disconnected application. The following setting applies globally in the application: DefaultHandheldInsertMode. When FailOnError is specified, every failed insert-transaction interrupts synchronization.

To handle insert-transaction failures

1. Navigate to the Administration - Siebel Mobile screen, Application Administration, and then the Settings view.
2. Select the appropriate mobile application in the upper applet.
3. In the Value field, specify the value for the DefaultHandheldInsertMode parameter by selecting one of the values shown in the following table.

Value	Description
NoFail	Insert-transaction failures are logged, and the synchronization continues. This is the default behavior.
FailOnError	Insert-transaction failures are logged, and the synchronization ends. The system administrator must investigate to recover from this failure. For more information, see *Obtaining Error Details from Synchronization Sessions*.

   You can also use the HandheldInsertFailMode user property to enable the processing of insert-transaction failures at the business component level.

The following table shows the combined effect of the DefaultHandheldInsertMode setting in the Settings view and on a business component. Note that the following conditions apply:

- The business component setting always takes precedence over the settings defined in the Administration - Siebel Mobile, Application Administration, Settings view.
- If there is no setting on a particular business component, then the Applications Settings value applies.
- If there is no setting in either the Settings view or on the business component, then the default behavior is the same as NoFail. Insert-transaction failures are logged, and the synchronization continues.

In the following table the Tools Configuration column shows what DefaultHandheldInsertMode is equal to, and the Application Settings Value column shows the available application values. Reading down the first column in the following table and then across, a NoFail business component setting in Siebel Tools combined with a FailOnError application setting results in the combined effect of NoFail.

Tools Configuration (User Property)	Application Settings Value: No Fail	Application Settings Value: FailOnError	Application Settings Value: Omitted
NoFail	NoFail	NoFail	NoFail
FailOnError	FailOnError	FailOnError	FailOnError
No Setting on Business Component	NoFail	FailOnError	NoFail

Related Topics

Defining the Settings for Processing Insert-Transaction Failure

Obtaining Error Details from Synchronization Sessions

Defining the Settings for Processing Insert-Transaction Failure

The following task shows you how to use the processing settings for insert-transaction failures.

To define the settings for processing insert-transaction failures

- Set Application Settings to FailOnError during development and testing to capture synchronization errors.

Related Topic

Handling Insert-Transaction Failures

Resolving Conflicts and Recovering Error Data in Siebel Mobile

You can monitor synchronization sessions and synchronization conflicts for Siebel Mobile disconnected applications from a number of views within the Administration - Siebel Mobile screen, and also by reviewing your notification messages. For more information, see the following:

- *Monitoring Synchronization Sessions*
- *Reviewing Notification Messages in Siebel Mobile*

Selected synchronization and conflict errors are stored in the database. This mechanism is always enabled. You can view the errors using the Conflict Administration screens. For more information about resolving conflicts and recovering error data, see the following:

- *Obtaining Error Details from Synchronization Sessions*
- *Obtaining Business Component Information from Synchronization Conflicts*
- *Obtaining an Audit Trail for Synchronization Sessions*
- *Responding to Synchronization Errors*

8 Getting Started

Getting Started with Siebel Mobile Applications

This chapter describes how to get started with Siebel Mobile applications, and the common procedures that you can run in online (connected) and offline (disconnected) mode in all applications. Tasks and features that are not supported in offline mode are called out. It includes the following topics:

- *Logging In to Siebel Mobile*
- *Logging Out of Siebel Mobile*
- *Navigating the Siebel Mobile User Interface*
- *Managing Records in Siebel Mobile*
- *Reviewing Notification Messages in Siebel Mobile*
- *Configuring Application Settings for Siebel Mobile*
- *Displaying Location Details in Siebel Mobile*
- *Running Predefined Queries in Siebel Mobile*
- *Scanning Barcodes in Siebel Mobile*
- *Using Attachments in Siebel Mobile*
- *Starting an External Application from Siebel Mobile*
- *Printing from Siebel Mobile*
- *Process of Using Siebel Mobile Applications in Offline Mode*
- *Siebel Mobile Application Logging*
- *Unsupported Siebel Mobile Features in Offline Mode*

Note: For more detailed information about Siebel Pharma, Siebel Sales, Siebel Field Service, and Siebel Clinical, see the appropriate guide on the Siebel Bookshelf. For example:

- *Siebel Life Sciences Guide*
- *Siebel Applications Administration Guide*
- *Siebel Order Management Guide*
- *Siebel Marketing User Guide*
- *Siebel Clinical Trial Management System Guide*

Logging In to Siebel Mobile

Siebel Mobile is supported on iOS and Android devices. You typically access Siebel Mobile applications from the Siebel app downloaded from the Apple App Store or Google Play. Siebel Mobile disconnected applications are not supported on client browsers.

Logging in to Siebel Mobile Using the Siebel App

The following procedure describes how to log in to Siebel Mobile on a mobile device using the Siebel app. This task assumes that you have already integrated Siebel Mobile with the native features on your mobile device and completed, amongst others, the following key tasks:

- You have downloaded and installed the Siebel App
- You have set up the host server for Siebel Mobile
- You have configured the Siebel App on your mobile device

For more information about these tasks, see *Process of Integrating Siebel Mobile with Native Device Features*.

To log in to Siebel Mobile using the Siebel app

1. Start your iOS or Android device and then tap Siebel to start the Siebel app.
2. Tap the arrow next to the host server address to go to the Home page (Application List screen) of the Siebel app.

   The Application List screen lists the applications that you can connect to on the host server. You can connect to multiple applications using Siebel app.
3. Connect to an application as follows:

   a. Tap the Edit button next to the application that you want to connect to.
   b. Type in the Username and Password credentials for the application, and then tap Sign In.

      After successful login, the application starts and is rendered as normal in the Siebel app. The following buttons appear under the application banner and persist for all views in the application:

      - **Refresh button** for refreshing the page in the browser.
      - **Attachment button** for going to the Attachment Manager view. For more information, see *Managing Attachment Downloads*.
      - **Home button** for returning to the Home page (Application List screen) of the Siebel app.

   After successful login to Siebel Mobile disconnected applications, the Identifier is populated with a unique ID (Sync Node ID) identifying the application that was synchronized after successful login.

Logging Out of Siebel Mobile

This topic describes how to log out of Siebel Mobile on your mobile device.

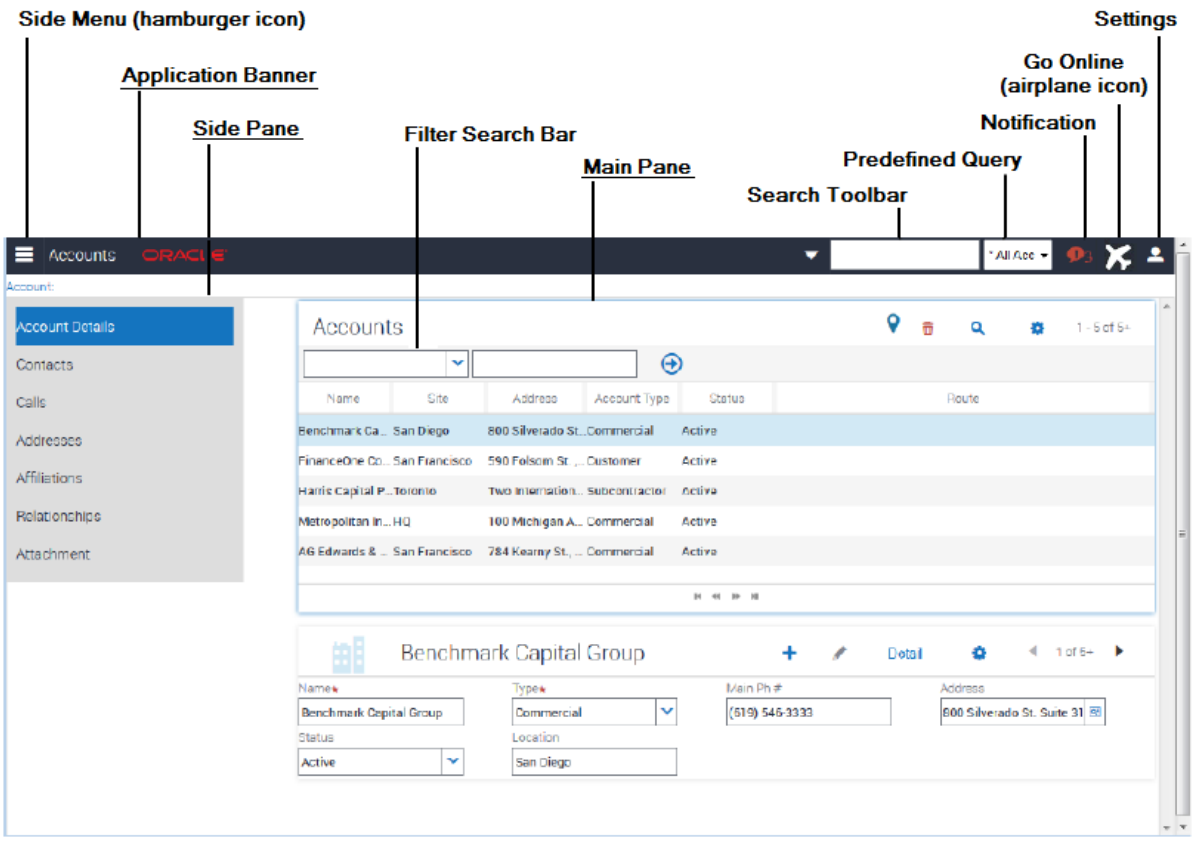
Note: Log out is supported only in online mode.

To log out of Siebel Mobile

- Tap Settings (the photo icon) on the application banner, and then tap Logout.

Navigating the Siebel Mobile User Interface

The application user interface for Siebel Mobile is divided into three areas: side pane, main pane, and application banner. These areas are shown in the following image.



Side Pane

The side pane appears to the side of the UI and typically displays the related item information according to the object that is selected from the Side Menu. In the previous image, for example, Accounts is selected from the Side Menu and the related items for Accounts shown in the side pane are: Contacts, Calls, Addresses, Affiliations, Relationships, and Attachment.

Main Pane

The main pane or work area of the UI typically displays context information according to the selection that you make in the Side Menu on the application banner, in the side pane, and in the UI in general.

Application Banner

The application banner appears across the start of each page in the UI and it persists for all views. The Side Menu is available on one side of the application banner and the following options are available on the other side of the application banner, as shown in previous image: Search Toolbar, PDQ (Predefined Query) drop-down list, Notification, and Settings.

- **Side Menu (the hamburger icon).** Tap to display the Siebel Objects available in the mobile application. Selecting any Siebel object redirects you to a screen where you can manage the selected Siebel object. The following table shows the Siebel objects that are typically available from the Side Menu for each Siebel Mobile application.
- **Search Toolbar.** Tap to perform a search. For more information, see *Searching for Records in Siebel Mobile*.
- **PDQ (Predefined Query).** Tap the drop-down list to display a list of the available predefined queries, which you can run for the object selected from the Side Menu. For more information, see *Running Predefined Queries in Siebel Mobile*.

  > **Note:** PDQ is supported only in online mode.

- **Notification (the exclamation mark icon).** Tap to display notification messages. For more information, see *Reviewing Notification Messages in Siebel Mobile*.
- **Go Offline/Go Online (the airplane icon).** Tap to go offline and work in disconnected mode, to go back online after you have finished working in offline mode, or to synchronize data as required. For more information about the behavior of the airplane icon, see *Using the Airplane Icon on the Application Banner*.
- **Settings (the photo icon).** Tap to configure the behavior of and notification settings for Siebel Mobile applications, or to log out of Siebel Mobile applications. For more information, see *Configuring Application Settings for Siebel Mobile*.

Application	Siebel Objects
Siebel Mobile application for Siebel Pharma	The following Siebel objects are typically available from the Side Menu on the application banner: Calls, Accounts, and Contacts. For more information, see *Using the Siebel Mobile Application for Siebel Pharma*.
Siebel Mobile application for Siebel Sales	The following Siebel objects are typically available from the Side Menu on the application banner: Accounts, Contacts, Leads, Opportunities, Quotes, Orders, and Activities. For more information, see *Using the Siebel Mobile Application for Siebel Sales*.
Siebel Mobile application for Siebel Field Service	The following Siebel objects are typically available from the Side Menu on the application banner: Activities, Service Requests, Accounts, Browser, Orders, Invoices, Assets, and Shifts. For more information, see *Using the Siebel Mobile Application for Siebel Field Service*.
Siebel Mobile application for Siebel Clinical	The following Siebel objects are typically available from the Side Menu on the application banner: My Site Visits, My Sites. For more information, see *Siebel Clinical Trial Management System Guide* .

If you navigate away from the Siebel Mobile application in online or offline mode and then return to the application, then the application reloads. The current application context is also maintained even after the application reloads. You can navigate away from the mobile application by, for example, selecting a URL link from within the application on your iPad or switching to another application.

When using the Siebel app on an iOS or Android device to access Siebel Mobile applications, then the following buttons also appear on the side of the screen (under the application banner): Refresh, Attachment, and Home. For more information about these buttons and about using the Siebel app to log in to an application, see *Configuring the Siebel App on iOS and Android Devices*.

Navigating Siebel Mobile in Landscape Mode

Siebel Mobile works with a variety of mobile tablet and smartphone devices. If you are familiar with navigating iPad applications, then you will find that navigating Siebel Mobile is similar. The following procedure shows you how to navigate Siebel Mobile. This procedure assumes that your mobile device is in landscape mode.

To navigate Siebel Mobile in landscape mode

1. Log in to Siebel Mobile on your mobile device - see *Logging In to Siebel Mobile*.

   After you log in to Siebel Mobile, the following interface elements are present on the page that appears in landscape mode:
   - **Application banner.** Appears across the start of each page (including the home page) in the UI and it persists for all views.
   - **Side pane.** Displays related item information according to the object that is selected from the Side Menu on the application banner.
   - **Main pane (work area).** Displays context information according to the selection that you make from the Side Menu on the application banner, the side pane, and in the UI in general.
2. To navigate away from the current view, tap Side Menu and choose another Siebel object.
3. To search for records in Siebel Mobile, see *Searching for Records in Siebel Mobile*.
4. To create, modify, or delete records in Siebel Mobile, see *Managing Records in Siebel Mobile*.
5. To log out of Siebel Mobile, see *Logging Out of Siebel Mobile*.

Navigating Siebel Mobile in Portrait Mode

You navigate Siebel Mobile in portrait mode in much the same way as in landscape mode, except for one difference. The home page displays only the application banner and the work area by default. That is, there is only one pane in portrait mode. The following procedure shows you how to navigate Siebel Mobile in portrait mode. This procedure assumes that your mobile device is in portrait mode.

To navigate Siebel Mobile in portrait mode

1. Log in to Siebel Mobile on your mobile device - see *Logging In to Siebel Mobile*.

   After you log in to Siebel Mobile, the following interface elements are present on the page that appears in portrait mode:
   - **Application banner.** Appears across the start of each page (including the home page) in the UI and it persists for all views.
   - **Work area.** Displays context information according to the selection that you make from the Side Menu on the application banner and in the UI in general.
2. To navigate away from the current view, tap Side Menu and choose another Siebel object.
3. To search for records in Siebel Mobile, see *Searching for Records in Siebel Mobile*.
4. To create, modify, or delete records in Siebel Mobile, see *Managing Records in Siebel Mobile*.

5. To log out of Siebel Mobile, see *Logging Out of Siebel Mobile*.

About the Siebel Mobile Aurora and Zante UI Themes

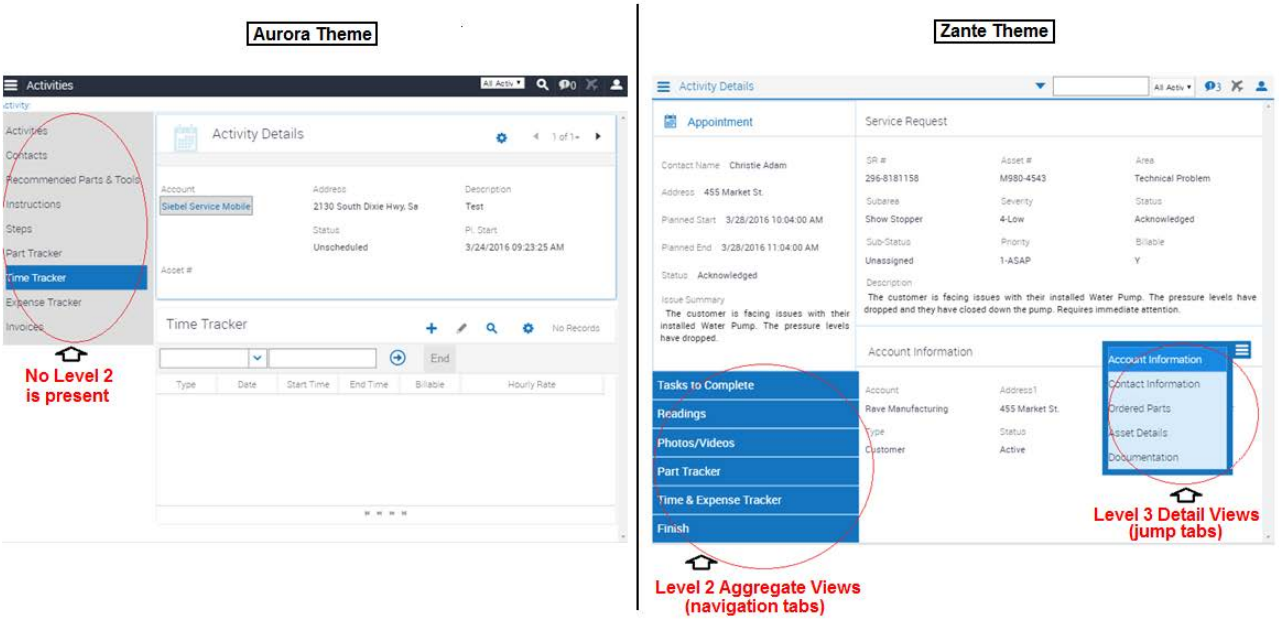
The Siebel Mobile application for Siebel Field Service uses the Zante UI theme by default, which is different from the Aurora UI theme which is the default theme used by other Siebel Mobile applications (such as Siebel Pharma and Siebel Sales).

- For information about navigating Siebel Mobile applications using the Aurora theme, see *Using the Home Page for Siebel Pharma*.
- For information about navigating Siebel Mobile applications using the Zante theme, see *Using the Home Page for Siebel Field Service*.
- For information about how to change the UI theme for your Siebel Mobile application, see *Configuring Application Behavior Settings for Siebel Mobile*.

The main difference between the Zante and Aurora themes is that the Zante theme uses second level navigation views as shown in the following image. In this image:

- The Aurora theme shows the Time Tracker details for a selected activity. The complete options available for account are: Activities, Contact, Recommended Parts & Tools, Instructions, Steps, Part Tracker, Time Tracker (which is selected), Expense Tracker, and Invoices.
- The Zante theme shows the Service Request details for an appointment. The following second level navigation views (or Level 2 Aggregate Views) are available for the appointment: Tasks to Complete, Readings, Photos/ Videos, Part Tracker, Time & Expense Tracker, Finish. The following level 3 detail views are available for the selected service request: Account Information, Contact Information, Ordered Parts, Asset Details, Documentation.

For information about how to set up second level navigation views for your Siebel application, see *Configuring Second Level Navigation Views*.



Configuring Second Level Navigation Views

You can configure second level navigation views in Siebel Tools for your Siebel application as required.

To configure second level navigation views for your application

1. In Siebel Tools go to the Object Explorer and select Screen.
2. Query for the screen that you want.
3. In the screen view, add the new view.

   For each view that you add:

   - Set Type to Aggregate View.
   - Set the sequence number for the view.
   - Do not set the Parent Category for the view.
4. Update the repository and deliver the updates, then start the Siebel application.

   The new view appears alongside the other second level aggregate views in the UI.

Selecting Fields, Drop-Down Lists, and Records

When selecting fields, drop-down lists, and records in Siebel Mobile, you can perform the following actions:

- Tap an editable field in the application to automatically display one of the following, according to the field type: drop-down list, text box, or date selector.

An asterisk (a star icon) beside a field name indicates that the field is a required field. Some required fields have a default value, other required fields display an error if no value is entered.

- Tap anywhere on a drop-down list field to open the drop-down list.
- Select multiple options from an associated drop-down list.

  Tap once to select an option. Tap the same option again to deselect the option.
- Tap a record to open and display the record details.
- Tap a related item belonging to a record to open the related item.
- Close a dialog box by tapping anywhere outside the dialog box.
- Double-tapping is supported in Siebel Mobile.

  For example, you can close a dialog box by double-tapping the selected entry in the dialog box.

Inline Editing

Inline editing is configured by default in Siebel Mobile and allows you to do the following:

- Edit fields directly on Form (detail) and List applets without opening the Edit page for the record.
- Edit fields in tables, windows and dialog boxes, and in many linked records on main record Form (detail) applets.

You cannot edit fields inline if any one of the following is true:

- If the field is read-only, then you cannot edit the field inline.
- If the field is a calculated field, then you cannot edit the field inline.

After you edit the fields in a record, you must navigate away from the record to save your changes to it.

Check Boxes

Check boxes can be configured to appear in one of the following formats in your mobile application:

- **As a regular check box.** Tap the check box to display a check mark icon. Tap the check box again to remove the check mark icon.
- **As a flip switch.** This is the default behavior. Tap or swipe the switch to display On. Tap or swipe the switch again to display Off.

For more information about customizing check boxes, see *Configuring Siebel Open UI* .

Data Display

For each applet in your mobile application, you can configure the data in the applet to display in list, tile, or tabular format. For more information about how to configure lists, tiles, and tables for Siebel Mobile data, see *Configuring Siebel Open UI* .

Smartphone UX for Siebel Mobile

As of Siebel CRM 20.9 Update, an enhanced Smartphone UX for smartphone devices (iOS and Android) is available for Siebel Mobile applications.

Siebel Open UI provides a specialized PHONE theme for smartphone devices where list applets are transformed to Tile visualization mode with infinite scrolling navigation and navigation defaults to Side Menu mode. The enhanced UX for smartphone devices also employs some specialized out-of-the-box context renderers to optimize the layout (of mobile applications) on client devices to ensure the optimal usage of available real estate.

You enable the Smartphone UX for mobile applications by setting the AutoTileType component parameter to PHONE, for example, as follows:

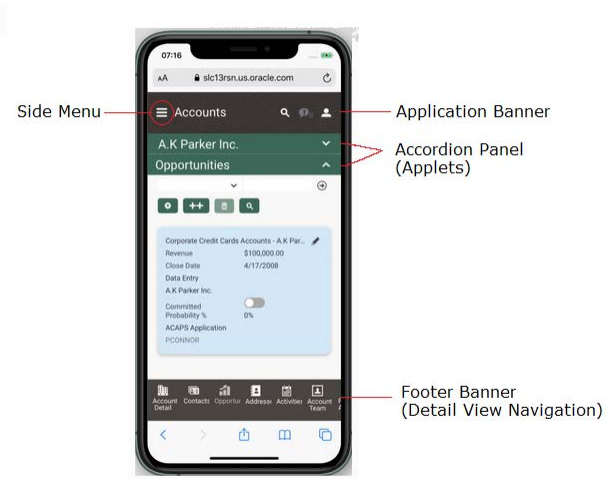
```
// change param AutoTileType=PHONE for comp <application_object_manager>_<language>
change param AutoTileType=PHONE for comp ServiceMObjMgr_Enu
```

You must restart the component after modifying the AutoTileType component parameter for the changes to take effect on smartphone devices. Modifying the AutoTileType component parameter will not change the look and feel of the application on desktop or tablet devices.

The Smartphone UX PHONE theme for Siebel mobile applications contains the following elements, shown in the following image, and these elements persist for all views:

- **Application banner.** This appears across the start of each page in the Smartphone UX PHONE theme and contains the following options: Side Menu, Search, Settings.
- **Accordion panel.** This displays context information according to the selection that you make from the Side Menu and the information is displayed in accordion format. In the example shown in the following image, the accordion panel contains the following applets: Account record (for A.K. Parker Inc.) and Opportunities. You expand (or close) each applet in the accordion panel to view more (or less) information on your smartphone.
- **Footer banner.** This displays the *detail view navigation options* according to the selection that you make from the Side Menu. In the example shown in the following image, Accounts is selected from the Side Menu and the footer banner contains the following detail view navigation options: Account Detail, Contacts, Opportunities, Address, Activities, and Account Team. Click Address, for example, to navigate to the address information for the selected account (A.K. Parker Inc. in this example).

Redwood is the the default Smartphone UX PHONE theme for Siebel mobile applications.



The Smartphone UX feature is supported by the following Siebel Mobile applications:

- Siebel Mobile application for Siebel Sales
- Siebel Mobile application for Siebel Field Service
- Siebel Mobile application for Siebel eClinical

For more information about the Smartphone UX feature and Auto Tile Visualization, see *Configuring Siebel Open UI* .

Managing Records in Siebel Mobile

This topic contains the following information:

- *Creating Records in Siebel Mobile*
- *Linking Records to Your Selected Record*
- *Searching for Records in Siebel Mobile*
- *Modifying Records in Siebel Mobile*
- *Deleting Records in Siebel Mobile*
- *About Menu (the Cogwheel Icon) in Siebel Mobile*
- *Reviewing Record Summary Information*
- *Displaying the Total Number of Records*
- *Creating Bookmarks in Siebel Mobile*
- *Formatting the Columns to Display in the List View*
- *Configuring the Number of Records Displayed on Mobile Devices*

Creating Records in Siebel Mobile

You typically add a record by tapping Add (the plus (+) icon) or create a new record by tapping New (the plus (+) or double plus (++) icon) from different areas within Siebel Mobile.

Note: Creating new records in offline mode is supported in Siebel CRM 18.9 Update and later releases.

When you add or create records, note the following about data entry:

- You can type information directly into some fields, or select values from a drop-down list.
- When you tap some fields, another dialog box appears from which you can select values or type values.
- For some fields that already have a value, you can tap an icon beside the field to display a window from which you can select values or type values.

  For example, you can tap Route to display location details. For more information, see *Displaying Location Details in Siebel Mobile*.

  Note: This field functionality is supported only in online mode.

- An asterisk (a star icon) beside a field name indicates that the field is a required field.

To add or create records in Siebel Mobile

1. From any page within your Siebel Mobile application, tap Add (the plus (+) icon) or New (the plus (+) or double plus (++) icon).
2. Type in the details for the new record.
3. You must navigate away from the record to save it.

Note: In the case of child views where records are being associated, you can associate only a downloaded record with a selected record using Add in offline mode.

Linking Records to Your Selected Record

You can link one record to another. Linking records gives you access to all related information from records that you view. For example, you can see a complete view of customer information by linking contacts, opportunities, and activities to an account record.

You can associate a single record (single association) to the record that you are working with or you can select multiple records (multiple associations) to link to the record that you are working with as follows:

- **Single associations** are supported in form and list views. For example, when associating an existing contact to an account in the Siebel Mobile application for Siebel Pharma, you can select the contact in the single-association popup window that opens.
- **Multiple associations** are supported in form and list views. For example, when creating an account call in the Siebel Mobile application for Siebel Pharma, you can select multiple contacts to attend a call using the Attendees related item. A multi association popup window opens when you tap Attendees, and you can select one or more contacts as required.

Search supports searches for values within a single-association or multiassociation popup window. This feature enables you to filter search results.

Searching for Records in Siebel Mobile

You can perform a global search in Siebel Mobile by tapping the search toolbar on the application banner. Elsewhere in Siebel Mobile, you can search or query for records provided that a search control has been configured in Siebel Tools for the specific view or applet in question.

If you do not see a search bar when you navigate to a view or applet in Siebel Mobile, then a search control has not been configured in Siebel Tools for that particular view or applet.

You perform searches and inline queries (using Query, the magnifying glass icon) in Siebel Mobile in the same way that you do in Siebel CRM. For more information about querying and searching for records in Siebel CRM, see *Siebel Fundamentals Guide* . For more information about configuring Siebel search controls, see *Siebel Search Administration Guide* .

Note: The search toolbar is supported only in online mode. Performing an inline query in offline mode is supported in Siebel CRM 18.9 Update and later releases.

Modifying Records in Siebel Mobile

Use the following procedure to modify records in Siebel Mobile.

To modify records

- From any Form (detail) applet within Siebel Mobile, do the following:
  - Tap the record field that you want to update, and update the field value. You might not be allowed to update all fields in the record.
  - Navigate away from the record or tap Save to save your changes to it.

Deleting Records in Siebel Mobile

The following procedure shows you how to delete records in Siebel Mobile. Users can delete only the records that they own. The delete button is disabled for business components that are marked as Owner Delete.

To delete records

1. Navigate to and select the record that you want to delete.
2. Tap Delete (the trash can icon) and then tap Yes when prompted for confirmation to delete the record.

   In list format, you can also swipe across the record you want to delete and then tap Delete.

Note: In offline mode, you can only swipe and delete the records that you own.

About Menu (the Cogwheel Icon) in Siebel Mobile

Note: The cogwheel icon is supported only in online mode. You must be connected to the Siebel Server to use the cogwheel menu in Siebel Mobile.

A Menu typically appears on all list and detail pages in Siebel Mobile. The following options are available when you select Menu, but you can configure other options for Menu as required by using Siebel Tools:

- **About Record.** See *Reviewing Record Summary Information*.
- **Record Count.** See *Displaying the Total Number of Records*.
- **Create Bookmark.** See *Creating Bookmarks in Siebel Mobile*.
- **Columns Displayed.** See *Formatting the Columns to Display in the List View*.

For more information about configuring Menu (the cogwheel icon) for Siebel Mobile, see *Configuring Siebel Open UI* .

Reviewing Record Summary Information

Use the following procedure to review the summary information for a selected record.

Note: Reviewing record summary information is supported only in online mode.

To review record summary information in Siebel Mobile

1. Navigate to and select the record whose summary information you want to review.
2. Tap Menu (the cogwheel icon) in the work area and then select About Record.

   The summary information for the selected record appears and includes the following data:

   - The date when the record was created and by whom
   - The last date the record was updated and by whom
   - The number of modifications that have been made to the record
3. Tap OK to close the record summary information.

Displaying the Total Number of Records

Use the following procedure to display the total number of records in a parent object.

Note: Displaying the total number of records in a parent object is supported only in online mode.

To display the total number of records in a parent object

1. Navigate to the parent object view that you want by doing one of the following:
   - Tap Side Menu and then select an object from the drop-down list.
   - Tap Side Menu, select an object from the drop-down list, and then a related item from the side pane.
2. Tap Menu (the cogwheel icon) in the work area and then select Record Count.

   The total number of records in the parent object is returned.

Field	Guideline
Parent Organization	If this organization is a suborganization, select the parent organization. This allows an organization to be associated with another organization.
Partner Flag	Used for Siebel Partner Relationship Manager. This read-only check box, if selected, indicates that the organization represents an external enterprise which is a partner of your company.

Field	Guideline
	Note: Partners are registered and promoted to organizations using the Approved Partners view in the Administration - Partner screen, as described in *Developing and Deploying Siebel Business Applications* .

3. Tap OK to close the record count information.

Creating Bookmarks in Siebel Mobile

Use the following procedure to create bookmarks for information that you want to return to later.

Note: Creating bookmarks is supported only in online mode.

To create bookmarks in Siebel Mobile

1. From any page or view within Siebel Mobile, tap Menu (the cogwheel icon), and then select Create Bookmark.

   A dialog box opens showing the URL address for the current page.
2. Copy the URL address and save it elsewhere (for example, in an email).
3. Tap OK to close the dialog box.

Formatting the Columns to Display in the List View

Use the following procedure to specify the columns to appear in the list view and in what order. Columns Displayed option is available on list pages only. Columns Displayed is not available on detail pages.

Note: This task is supported only in online mode.

To format the columns to display in the list view

1. Navigate to the object view that you want by doing one of the following:
   - Tap Side Menu and then select an object from the drop-down list.
   - Tap Side Menu, select an object from the drop-down list, and then a related item from the side pane.
2. Tap Menu (the cogwheel icon) in the work area and then select Columns Displayed.
3. In the dialog box that opens, do the following:
   a. Use the navigation arrows to move selected items forward and back between the Selected Columns list and the Available Columns list.
   b. Use the up and down arrows to reorder the Selected Columns list.
   c. Save the changes when finished.

Configuring the Number of Records Displayed on Mobile Devices

In Siebel CRM, you can configure the number of records displayed on mobile devices at the applet or application level using the following parameters:

- **HTML Number of Rows (applet parameter).** Specifies the number of rows that Siebel CRM displays in the user interface for a particular list applet. If this parameter is not set (or is empty), then Siebel CRM uses the value specified in the NumberOfListRows parameter in the application configuration file to determine the number of rows to display in the UI. For more information about the HTML Number Of Rows applet parameter, see the topic about Applet in Siebel Object Types Reference.
- **NumberOfListRows (application parameter).** Specifies the default number or records or rows to display per page on mobile devices. This parameter applies or is used only when a given applet's HTML Number of Rows parameter is not set. For more information about using the NumberOfListRows application parameter, to configure the number of records displayed on each page, see the following procedure.
- If neither the HTML Number of Rows applet parameter nor the NumberOfListRows application parameter are set, then Siebel CRM displays 10 records by default.

To facilitate smooth scrolling in list applets on mobile devices, the Siebel CRM client framework fetches three times the number of records specified by the HTML Number of Rows applet parameter or the NumberOfListRows application parameter. This keeps a buffer of records on the client which is higher than the displayed number of records so that the client does not have to go to the server every time a small scroll occurs. If neither parameter is set, for example, then a mobile device would display 10 records by default in the UI but fetch 30 records (and only 10 records would be visible in the UI at any one time).

To configure the number of records displayed on each page

1. In the Siebel Web client, navigate to the Administration - Web Browser screen and then the Browsers view.
2. Select the entry for which you want to configure the number of records displayed on each page, or if there is not entry, create one by selecting New Record from the drop-down list.
3. With the browser selected, click the Capabilities list.
4. If the NumberOfListRows appears in the list, then select it, click Edit, set the Capability Value to <the number of records to display per page >, and then save the record.
5. If the NumberOfListRows does not appear in the list, then click New.

   In the Add Capabilities dialog box that appears, the NumberOfListRows may or may not appear in the list of capabilities.

   a. If the NumberOfListRows appears in the list, then do the following:

      - Select NumberOfRows in the list and click OK.
      - In the Capabilities list, select NumberOfListRows, click Edit and then set the Capability Value to <the number of records to display per page>.
      - Save the record.

   b. If the NumberOfListRows does not appear in the list, then do the following:

      - Click New.
      - Set the Capability Name to NumberOfListRows.
      - Set the Capability Value to <the number of records to display per page>.
      - Save the record.

Reviewing Notification Messages in Siebel Mobile

> **Note:** Using the notification feature is supported only in online mode. You must be connected to the Siebel Server to use notifications in Siebel Mobile.

You can receive notification messages from time to time. Notifications provide a way for administrators, managers, and other users with access to the Message Broadcast view in Siebel CRM to send important information directly to user screens.

You review notification messages in Siebel Mobile by tapping Notification (the exclamation mark icon) on the application banner. For more information about the application banner, see *Navigating the Siebel Mobile User Interface*. Note the following about notifications:

- The counter beside the Notification button indicates the number of messages that are waiting for you to read. When there are zero messages, zero appears next to the button.
- If there is one or more message waiting to be read that has an Urgent with Alert severity, then the Notification button blinks. The button stops blinking after the message is read.
- The Notification button does not blink if there are messages waiting to be read with only a Normal, High, or Urgent severity.
- If there is one or more message waiting to be read, then the Notification button shows the color of the highest priority unread message.

For more information about enabling and disabling, creating, reviewing, and updating notifications in Siebel CRM, see the chapter about Notifications in *Siebel Fundamentals* . See also *Configuring Notification Settings for Siebel Mobile*.

Configuring Application Settings for Siebel Mobile

> **Note:** You must be connected to the Siebel Server to perform the procedures described in this topic. Configuring application settings is supported only in online mode.

You use Settings (the photo icon) on the application banner to configure the application settings for Siebel Mobile. When you tap Settings on the application banner, the following information appears:

- The logged in user's photo, provided one is uploaded to the user's profile on Siebel Server. Otherwise, a default generic photo appears. For more information, see *Uploading a User Profile Image to Siebel Server*.
- The logged in user's name and email address.
- The following options: Settings and Logout.
  - **Settings.** Has the following suboptions: Behavior and Notifications.

    Behavior. See *Configuring Application Behavior Settings for Siebel Mobile*.

    Notifications. See *Configuring Notification Settings for Siebel Mobile*.
  - **Log Out.** See *Logging Out of Siebel Mobile*.

Uploading a User Profile Image to Siebel Server

You can set a user profile image for your application, which involves uploading a user profile image to Siebel Server. The uploaded user profile image will appear instead of the default generic photo for Settings in Siebel Mobile applications. For more information about uploading a user profile image to Siebel Server, see the topic about setting a user profile image in *Siebel Online Help*.

Configuring Application Behavior Settings for Siebel Mobile

> **Note:** You must be connected to the Siebel Server to perform this task. Configuring application behavior settings is supported only in online mode.

You use the Behavior option under Settings to configure the application behavior for Siebel Mobile including the startup view, navigation control, UI theme, and view transition.

- **Startup View.** The default startup view for Siebel Mobile varies according to the mobile application that you are using, but you can change the startup view as required.
- **Navigation Control.** The default navigation control for Siebel Mobile applications is Side Menu (hamburger navigation control), but you can change this to Tab or Tree as required, provided that the control is configured for your mobile application.
- **Theme.** The UI theme that is used by Siebel Mobile applications. You can change this to a custom theme as required, provided that a custom theme is configured for your mobile application.
- **Transition.** The default view transition that is set for Siebel Mobile applications is None, but you can change this to a custom view transition as required, provided that a custom view transition is configured for your mobile application.

For more information about navigation control configuration, creating a new mobile theme, and creating a custom view transition for Siebel Mobile, see *Configuring Siebel Open UI* .

To configure the application behavior settings for Siebel Mobile

1. Tap Settings (the photo icon) on the application banner, and then select the Settings option.
2. Tap Behavior, and then complete the fields shown in the following table as required.

Field	Description
Startup View	The name of the view to display when the application starts. Tap Startup View, and select a view from the drop-down list.
Navigation Control	Specifies the navigation control to use in the mobile application. Tap Navigation Control, and select one of the following options as required: o **Side Menu.** Indicates to use the hamburger navigation control (which is the default navigation control) in the application where all Siebel objects appear in a menu drop-down list in the UI. o **Tab.** Indicates to use the tab navigation control in the application where all Siebel objects appear in tab format in the UI.

Field	Description
	○ **Tree.** Indicates to use the tree navigation control in the application where all Siebel Objects appear in tree format in the UI.
Theme	The UI theme to use throughout the application. Tap Theme, and select a theme from the drop-down list. Available themes include the following: ○ **Aurora.** This theme is used by default in the Siebel Mobile applications for Siebel Pharma and Siebel Sales. ○ **Zante.** This theme is used by default in the Siebel Mobile application for Siebel Field Service. ○ **Synergy.** This theme is available only in the Siebel Mobile applications for Siebel Pharma and Siebel Sales. ○ **Vanilla.** This theme is available only in the Siebel Mobile applications for Siebel Pharma and Siebel Sales. ○ **Redwood.** This is the default Smartphone UX PHONE theme for Siebel mobile applications. When Side Menu is selected as the navigation control, the Aurora and Zante themes are available. For more information, see *About the Siebel Mobile Aurora and Zante UI Themes*. When Tab is selected as the navigation control, the Synergy and Vanilla themes are available. When Tree is selected as the navigation control, the Aurora theme is available.
Transition	The view transition mode to use when moving from one view or applet to another view or applet in the mobile application. Tap Transition, and select a view transition from the drop-down list. The options are: ○ None ○ Slide In (that is, slide forward) ○ Slide Left (that is, slide backward) ○ Flip ○ Fade
Confirm Before Deleting Record	Specifies whether or not to prompt users for confirmation before deleting a record, as follows: ○ **On** indicates to prompt users for confirmation. ○ **Off** indicates not to prompt users for confirmation before deleting a record. Tap the Confirm Before Deleting Record option so that a check mark icon or On appears. Tap the option again so that X or Off appears.
Log Events	Set Log Events to one of the following options to configure logging for Siebel Mobile applications: ○ Metadata Extraction ○ Data Extraction - Basic ○ Data Extraction - Detailed

Field	Description
	○ ClientSystem, UpSync ○ All **Note:** Log Events do not apply to Siebel Mobile connected applications. Log Events apply only to Siebel Mobile disconnected applications.

3. Save the changes when finished.

Configuring Notification Settings for Siebel Mobile

Note: You must be connected to the Siebel Server to perform this task.

You use the Notifications option under Settings to configure the settings for notification messages in your Siebel Mobile application.

To configure notification settings for Siebel Mobile

1. Tap Settings (the photo icon) on the application banner, and then select the Settings option.
2. Tap Notification (the exclamation mark icon), and then complete the fields shown in the following table as required.

Field	Description	Example Value
Update Interval (Seconds)	Type the time interval in seconds at which you want notifications to refresh.	120
Prefix of Normal Priority Message	Type the text to appear before a normal-priority message. This aids accessibility. For example, a letter is useful if you have difficulty distinguishing the colors of the messages.	N
Prefix of High Priority Message	Type the text to appear before a high-priority message. This aids accessibility. For example, a letter is useful if you have difficulty distinguishing the colors of the messages.	H
Prefix of Urgent Priority Message	Type the text to appear before an urgent-priority message. This aids accessibility. For example, a letter is useful if you have difficulty distinguishing the colors of the messages.	U

3. Save the changes when finished.

Displaying Location Details in Siebel Mobile

Note: Displaying location details using the Route button is supported only in online mode. You must have an internet connection to display location details in Siebel Mobile.

Global Positioning System (GPS) is integrated with Siebel Mobile so that when you tap the Route button (the pin icon), shown in the following image, a map window opens showing the location details. Mapping is configured by default for some list and form applets in Siebel Mobile, but you can set up mapping for any other Siebel Mobile applet as required by configuring the Route button (or the map functionality) in Siebel Tools for the applet in question. For more information, see the topics about maps in *Configuring Siebel Open UI* .



The Route button is available in the main pane or work area of Siebel Mobile, provided that the map functionality is enabled for the mobile application. If you cannot see Route button or if you can see it but it is disabled, then the map functionality is not enabled for the mobile application.

Information about the following is included in this topic:

- *Enabling the Map Functionality for Siebel Mobile*
- *Displaying Route Details Using the Route Button*

Enabling the Map Functionality for Siebel Mobile

Note: Map functionality is supported only in online mode. You must have an internet connection to use the map functionality in Siebel Mobile.

The map functionality is disabled by default in Siebel Mobile. Before you can use the map functionality in Siebel Mobile, you must enable it first. This involves enabling location services and disabling block pop-ups on your mobile device.

To enable the map functionality for Siebel Mobile

1. Enable location services on your mobile device (iPad) as follows:
    a. Start your iPad.
    b. Go to Settings, Privacy, Location Services, and then turn on Location Services.

    If location services are disabled on your mobile device, then you will not be able to use the map functionality in Siebel Mobile.
2. Disable block pop-ups on your mobile device (iPad) as follows:
    a. Start your iPad.
    b. Go to Settings, Safari, and then turn off Block Pop-ups.

Displaying Route Details Using the Route Button

Note: The Route button is supported only in online mode. You must have an internet connection to use the Route button in Siebel Mobile.

The following procedure shows you how to use the Route button to display the route details for a call or an account. The procedure is the same when using the Route button in other views. This procedure assumes that the map functionality is enabled for Siebel Mobile as shown in *Enabling the Map Functionality for Siebel Mobile* .

To display route details using the Route button

1. Navigate to and open a call or an account in your mobile application.

   All details for the selected call or account appear in the work area.
2. Tap Route (the pin icon) in the work area.
3. If prompted, select Allow to enable Siebel Mobile to use the location of your mobile device.

   A map window opens with pins pointing to the location of the selected call or account, and showing the route from starting address (current mobile device location) to the destination call or account address.

   If a route is not found for a given address, then an error message appears in the map window.

Running Predefined Queries in Siebel Mobile

You can run a saved predefined query (if available) for some Siebel objects in Siebel Mobile, as shown in the following procedure.

Note: Running predefined queries is supported only in online mode.

To run a predefined query in Siebel Mobile

1. Tap Side Menu and then select an object from the drop-down list.
2. Tap the PDQ drop-down list on the application banner to display the list of saved predefined queries for the object. For more information about the application banner, see *Navigating the Siebel Mobile User Interface*.

   Scroll up and down the predefined query list that opens to find the query that you want to run.
3. Tap a predefined query in the list.

   This step runs the predefined query, returning the appropriate data in the list view.
4. Tap PDQ on the application banner again to close the predefined query.

Scanning Barcodes in Siebel Mobile

Barcode scanning is supported by default for activity parts in the Siebel Mobile application for Siebel Field Service. To use the barcode feature in a different application view, then you must set up the barcode interface for the view in question. To use the barcode feature in a different mobile application (for example, the Siebel Mobile application for Siebel Pharma), then you must set up the barcode interface for a view in the required mobile application. For more information about setting up the barcode interface, which is an administrator task, see the chapter about barcodes in *Siebel Field Service Guide* .

- The barcode interface in the Siebel Mobile application for Siebel Field Service allows you to scan barcodes for parts using a barcode reader. For more information, see *Modifying Part Tracker for an Activity by Scanning Barcode Data*.
- You can also search for records by scanning barcode data in the Siebel Mobile application for Siebel Field Service. For more information, see *Searching for Records by Scanning Barcode Data*.

Searching for Records by Scanning Barcode Data

You can use a barcode reader to search for records in the Siebel Mobile application for Siebel Field Service by scanning barcode data. For example, the following procedure shows you how to search for a service request by scanning the service request number. For more information about the barcode functionality in Siebel Mobile, see *Scanning Barcodes in Siebel Mobile*.

To search for records by scanning barcode data

1. Select QuickSearch in the search toolbar on the application banner.
2. In the Barcode drop-down list, select Asset#.

   A text box field appears.
3. Scan the barcode (in this example, the asset number).

   A query is performed and results are returned in the view containing the record with the Asset# data.

Using Attachments in Siebel Mobile

Attachments are supported by default in the Siebel Mobile application for Siebel Pharma version 8.1.1.10 or later. To use attachments in a different mobile application (such as, the Siebel Mobile application for Siebel Sales or Siebel Field Service version 8.1.1.10 or later), then you must use the following Siebel Pharma application views as templates and configure them accordingly for the required mobile application:

- Pharma Account Attachments View - Mobile
- Pharma Contact Attachments View - Mobile

The attachment feature in Siebel Mobile allows you to keep supporting material for account and contact records by permitting you to associate an attachment with individual account and contact records. For more information about using attachments in the Siebel Mobile application for Siebel Pharma, see the following topics:

- *Modifying Attachment Information for an Account*

- *Modifying Attachment Information for a Contact*
- *Managing Attachment Downloads*
- *Managing Attachment Uploads*

Note: The attachment functionality is supported in both online and offline mode when customers download the Siebel app or use the Siebel Mobile Archive MAA file to create and deploy a customized Siebel Mobile Application Container for iOS and Android devices. For more information, see *Downloading and Installing the Siebel App* and *Managing Attachment Downloads*.

Starting an External Application from Siebel Mobile

An external application can be configured in Siebel Tools for Siebel Mobile so that you can start it from within the mobile application. For example, you can link contacts to LinkedIn or Facebook so that you will be able to display a contact's LinkedIn or Facebook profile from within mobile applications. The URL link to start an external application appears on the details page in the work area of mobile applications.

You use the Symbolic URL Administration view in Siebel Tools to specify how the HTTP request to the external application should be constructed and to define any arguments and values to be sent as part of the request. For more information about how to configure an external application to start from Siebel Mobile, see *Configuring Siebel Open UI* and the topic about defining symbolic URLs in *Siebel Portal Framework Guide* .

Note: Starting an external application from within Siebel Mobile is supported only in online mode. You must be connected to the Siebel Server and the Internet to start an external application from within your mobile application.

To start an external application from within a mobile application

- Tap the External Application URL link (or icon) on the details page in the main pane.

Printing from Siebel Mobile

You can print from Siebel Mobile (Siebel app), provided that you have access to one of the following:

- A printer that is set up on a wireless network to which your mobile device is connected or a Bluetooth-enabled mobile printer.
- A wireless printer that is compatible with and supports Apple's AirPrint ™ technology.

To print from Siebel Mobile

1. With the page that you want to print displayed, tap the Share button (square with up arrow).
   The typical *Share* options that are available include the following:
   - Add Bookmark
   - Add to Reading List

- Add to Home Screen
- Mail Link to this Page
- Tweet
- Print

On Android devices

2. Tap Print, Select Printer, and then the name of your wireless printer.
3. Specify the number of copies that you want to print.
4. Tap Print to start printing.

   If you do not have an AirPrint-compatible wireless printer, then email a link of the page to yourself, open the link on your desktop computer, and then print the page.

Process of Using Siebel Mobile Applications in Offline Mode

You can use Siebel Mobile in offline mode if your mobile device has a wireless network connection. In offline mode, your mobile device is not connected to the Siebel Server and you cannot synchronize any changes that you make while working in offline mode. You must switch back to online mode, and then synchronize the changes. To use Siebel Mobile in offline mode, perform the following tasks.

1. Log in to Siebel Mobile.

   For more information, see *Logging In to Siebel Mobile*.
2. Switch your mobile application to work in offline mode.

   For more information, see the following:

   - *Using the Airplane Icon on the Application Banner*
   - *Switching to Offline Mode for the First Time*
   - *About Switching to Offline Mode Subsequently*
3. Modify the cached data in offline mode as required.

   For more information, see *Working in Offline Mode*.
4. Synchronize the changes that you made while working in offline mode with the Siebel Server.

   For more information, see the following:

   - *Synchronizing Data*
   - *Synchronization Icons*
5. Verify that the synchronization changes that you made while working in offline mode have been synchronized with the Siebel Server.

   For more information, see *Verifying Data Synchronization*.
6. Review the synchronization errors.

   For more information, see *Reviewing Synchronization Errors*.

Using the Airplane Icon on the Application Banner

The airplane icon on the application banner indicates whether Siebel Mobile (the mobile application) can connect to and synchronize data with the Siebel Server. If Siebel Mobile can connect to and synchronize data with the Siebel Server, then the application is connected to the Siebel Server and in online mode. If Siebel Mobile cannot connect to and synchronize data with the Siebel Server, then the application is disconnected from the Siebel Server and in offline mode.

The airplane icon, shown in the following table, indicates the state of the connection (online or offline) for Siebel Mobile.

Icon	Description	Status
	Go Offline (Solid Airplane Icon)	Indicates a connected or online state, where synchronization (data upload and download) between Siebel Mobile and Siebel Server takes place automatically.
	Go Online (Empty Airplane Icon)	Indicates a disconnected or offline state, where synchronization (data upload and download) between Siebel Mobile and Siebel Server does not take place automatically. In this instance, you must manually upload or synchronize data between the mobile application and Siebel Server by tapping Go Online (the empty airplane icon) and selecting a reconnection option as required. For more information, see the following procedure.

To use the airplane icon

- Tap Go Offline (the solid airplane icon) on the application banner to go offline and work in disconnected mode. For more information, see the following topics:
  - *Switching to Offline Mode for the First Time*
  - *About Switching to Offline Mode Subsequently*
  - *Working in Offline Mode*
- Tap Go Online (the empty airplane icon) on the application banner, and then select one of the following options as required:
  - **Upload and Go Online.** Select this option to trigger a data upload and go online.
  - **Sync and stay Offline.** Select this option to synchronizes data but remain in offline mode.
  - **Upload Only and stay Offline.** Select to trigger a data upload only but remain in offline mode. For more information, see *Synchronizing Data*.

Switching to Offline Mode for the First Time

Use the following procedure to switch to offline mode. When you switch to offline mode for the first time, a full data and metadata download is initiated from Siebel Server to the mobile device. But when you subsequently switch to

offline mode, then either a full or an incremental synchronization process is initiated according to how the Siebel Mobile Always Full Sync system preference is set. For more information, see the following:

- *Configuring Synchronization for Siebel Mobile*
- *About Switching to Offline Mode Subsequently*

To switch to offline mode

1. Wait for the following data synchronization notification message:

   ```
   Data is ready for download.
   ```

2. Tap Go Offline (the solid airplane icon) on the application banner to switch to offline mode.
   - A down arrow appears next to the solid airplane icon, which shows that the data and metadata is being downloaded to the mobile device.
   - A progress bar appears after the solid airplane icon, which shows the progress of the data and metadata download. When the progress bar is full, this indicates that the metadata has downloaded to the mobile device.

   For more information about the airplane icon, see *Using the Airplane Icon on the Application Banner*.
3. (Optional) Tap Log (the bug icon) on the application banner to review the log event messages and debug information for the Siebel Mobile disconnected application as required. For more information, see *Siebel Mobile Application Logging*.
4. After the full data and metadata has downloaded to the mobile device, the application UI automatically refreshes and goes into offline mode.

   You are now in offline mode and disconnected from the Siebel Server. Notice that the solid airplane icon on the application banner changes to an empty airplane icon to indicate a disconnected state. You can now modify the cached data while disconnected from the Siebel Server. For more information, see *About Switching to Offline Mode Subsequently* and *Working in Offline Mode*.

About Switching to Offline Mode Subsequently

When you switch to offline mode for a second and subsequent time, then either a full or incremental synchronization process is initiated according to how the Siebel Mobile Always Full Sync system preference is set. Provided that network connectivity is available and a reconnection to Siebel Server can be made when you switch to offline mode for a second or subsequent time, note the following:

- If an incremental synchronization is initiated between Siebel Server and the mobile device, then all changes from the server database that were made by others are downloaded to update the local database on the mobile device. When the incremental synchronization process is complete, the mobile application device moves to offline mode and the user can work with the updated data.
- If any of the following situations occurred since the last offline data package was downloaded, then users are prompted to perform a full data and metadata download again. After the download is complete, the mobile device moves to offline mode and the user can work with the latest data.
  - The repository changes
  - The responsibility of the user changes
  - The position of the user changes
  - The data changes

- The user node is re-extracted
- A business component filter changes
- A business object filter changes

- If network connectivity is unavailable or a reconnection to Siebel Server cannot be made when you switch to offline mode for a second and subsequent time, then the mobile device moves to offline mode and the user can work with the last data package that was downloaded.
- If network connectivity is unavailable or a connection to Siebel Server cannot be made when you log in to Siebel Mobile, then the application automatically launches in offline mode using the last data package that was downloaded (provided that one exists). The user works in offline mode with the last data package that was downloaded.

Related Topic

Configuring Synchronization for Siebel Mobile

Working in Offline Mode

After the offline data package has downloaded successfully to your mobile device, you are ready to modify the cached data while disconnected. You can start working in offline mode straight away, or you can close the Siebel app and work offline at a later time.

The following procedure shows you how to work in offline mode. The procedure assumes that you have already successfully downloaded the offline data package, and that you have closed the Siebel app.

To work in offline mode

1. (Optional) Switch your mobile device to airplane mode as follows:
   - Tap Settings on your mobile device.
   - Set Airplane Mode to On.

   This is an optional step. Switching your mobile device to airplane mode disables the wireless communication abilities on your mobile device, and prevents a reconnection to the Internet.
2. Tap Siebel to start the Siebel app and log in to the Siebel Mobile disconnected application - for more information, see *Logging In to Siebel Mobile*.

   Notice that the airplane icon on the application banner is empty, which indicates that you are in a disconnected state.
3. Modify the cached data as required.

   You can create, edit, update, and delete records for parent objects and associated related items, and so on. Notice that when you modify the cached data, a clock icon appears next to the empty airplane icon to indicate that there are data changes waiting to be uploaded to the Siebel Server. For more information about the other synchronization icons that can appear next to the airplane icon, see *Synchronization Icons*.
4. When you have finished modifying the cached data, you can synchronize the changes made while working in offline mode.

   For more information, see *Synchronizing Data*.

Synchronizing Data

If you have been using a Siebel Mobile disconnected application (in offline mode), then you must manually synchronize the changes that were made while you were working in offline mode with the Siebel Server. The following procedure shows you how to manually synchronize the data changes made in offline mode.

To manually synchronize data

1. If required, switch your mobile device from airplane mode back to connected mode as follows:
    a. Tap Settings on your mobile device.
    b. Set Airplane Mode to Off.
2. Tap Siebel to start the Siebel app and log in to the Siebel Mobile disconnected application - for more information, see *Logging In to Siebel Mobile*.
3. Tap Go Online (the empty airplane icon) on the application banner, and then select one of the following options as required:
    - **Upload and Go Online.** Tap to automatically trigger a data upload and to go back online after the data upload has finished.

      > **Note:** If the UI session has not expired before going offline, then selecting Upload and Go Online will use the same UI session to synchronize data. If the UI session has expired, then the Siebel login page appears prompting you to log in to the application again. After login, synchronization will automatically start and once complete, the UI refreshes.

    - **Sync and stay Offline.** Tap to synchronize data (that is, upload data changes made while working in the mobile application in offline mode and download any new changes made on the server) but remain working in offline mode.

      When this option is chosen, any records seen in offline mode are one of the following:

      - Records that have been newly modified (created, updated, or deleted) on the server since the last synchronization.
      - Records (user owned) that were successfully uploaded to the server and processed since the last synchronization.
      - Records that have just been uploaded to the server and are waiting to be processed.

    - **Upload Only and stay Offline.** Tap to trigger a data upload only but remain working in offline mode.

      No matter what option you choose, the transactions are stored in a text file in the HHsync folder under `\USER_NAME\SYNC_NODE_ID\upsync\pretxn_x.txt` before being uploaded.

      An empty airplane icon indicates a disconnected or offline state, where synchronization (data upload and download) between the mobile application and Siebel Server does not take place automatically. A clock next to the airplane icon indicates that there are changes waiting to be synchronized. For information about the other synchronization icons that can appear next to the airplane icon, see *Synchronization Icons*.
4. Verify that all data has synchronized correctly.

   For more information, see *Reviewing Synchronization Errors*.

Synchronization Icons

This following table describes the various synchronization icons that can appear next to the airplane icon on the application banner of your Siebel Mobile disconnected application.

Icon	Label	Status
	Full Metadata Download in Progress (a down arrow).	Indicates that a full metadata download is in progress.
	Data Download Failure (an exclamation mark in a red triangle).	Indicates that there has been a full metadata download failure.
	Data Synchronization Pending (a clock with hands).	Indicates that data changes are waiting to be synchronized.
	Data Download In Progress (a box with a check mark).	Indicates that a data download is in progress.
	Incremental Data Download Failure (a horizontal bar in a red circle).	Indicates that there has been an incremental data download failure.
	Data Upload In Progress (an up arrow).	Indicates that a data upload is in progress.

Icon	Label	Status
	Data Upload Failure (an exclamation mark in a red triangle).	Indicates that there has been a data upload failure.

Verifying Data Synchronization

Verify that the synchronization changes that were made while working in offline mode have been synchronized with the Siebel Server.

To verify data synchronization

1. Log in to the Siebel Mobile disconnected application.

   Typically, you log in to Oracle's Siebel Mobile in connected mode, where you are connected to the Siebel Server.
2. Verify that all changes that you made while working in offline mode have been synchronized with the Siebel Server and that you can now see them when connected to the Siebel Server.

   If you cannot see some changes, then review the synchronization errors as shown in *Reviewing Synchronization Errors*.

Reviewing Synchronization Errors

If conflicts or errors occur during synchronization, the Notifications feature lists all the synchronization errors, including summary information about the error. You can also review the respective synchronization log files in the Conflict - Administration screen. Use the following procedure to review the synchronization errors.

To review the synchronization errors

1. Log in to the mobile application.
2. Tap Notification (the exclamation mark icon) on the application banner.
3. Review all the messages that have a Sync Error, Data Sync, or Login notification.

   For more information, see the following:

   - *Reviewing Notification Messages in Siebel Mobile*
   - *Obtaining Error Details from Synchronization Sessions*

Siebel Mobile Application Logging

You use the Log button (the bug icon) on the application banner, shown in the following image, to review the log event messages and debug information for Siebel Mobile disconnected applications, provided that logging has been enabled for the application.



The Log button is visible on the application banner only after logging has been enabled for the application. If you cannot see the Log button on the application banner, then logging has not been enabled for the application yet.

Information about the following is included in this topic:

- *Enabling Logging for Siebel Mobile Users*
- *Clearing Log Information*
- *Uploading Log Information to Siebel Server*
- *Saving Log Information*
- *About Siebel Mobile Log API*

Enabling Logging for Siebel Mobile Users

You enable logging in Siebel CRM for each mobile application user role and assign users to that role. You configure Log Events for logging in to the mobile application. You must set Log Events for logging in the mobile application when in online mode - that is, when you are connected to the Siebel Server.

To enable logging for Siebel Mobile users

1. Log in to Siebel Tools and add the following application user property and value for the Siebel Mobile application:

Application User Property	Value
Client Business Service	Web Engine UI Preferences

> **Note:** The Client Business Service user property is added by default for the Siebel Mobile application for Siebel pharma so it is not necessary to add it again. For all other mobile applications, this step is required.

2. Enable logging in Siebel CRM for Siebel Mobile application users:
   a. Log in to the Siebel business application with administrative responsibility.
   b. Navigate to the Administration - Application screen, then the Responsibilities view.
   c. Query for and select the appropriate mobile application user role.

For example, query for the following: PH Pharma Sales Rep - US Sales.

d. In the Views applet, add the User Profile Logs View to the selected application user role.

e. In the Users applet, add users to the selected application user role.

Doing this enables the User Profile Logs View for each user that you add.

f. Select Clear Cache in the Responsibilities view.

3. Configure Log Events for logging in the Siebel Mobile application:

a. Log in to the mobile application with the User Profile Logs View responsibility.

If you have not been assigned the User Profile Logs View responsibility (as shown in the previous step), then you will not be able to view log information.

b. Tap Settings (the photo icon) on the application banner, and then select the Settings option.

c. Tap Behavior, and then set Log Events to one of the values described in the following table.

Value	Description
Metadata Extraction	This log event option logs the following: Server error messages in the metadata extraction. The errors in parsing metadata.
Data Extraction - Basic	This log event option logs the following: Server errors in the data extraction for full and incremental synchronization downloads. The number of records for each business component. The errors in the caching data.
Data Extraction - Detailed	This log event option logs the following during full and incremental synchronization downloads: The user keys extracted for each business component.
UpSync	This log event option logs the details of records to be uploaded and all records that are uploaded.
Client System	This log event option logs the following: Errors when navigating to different views within the application. Errors during create, update, and delete operations. Debug information for the following:

Value	Description
	Create, update, and delete operations. Successful inserts to synchronization, business component, and intersection tables. Successful business component updates, and so on. SQL queries performed on the Web database and the number of records affected.
All	Logs event and debug information for all of the following log event options combined: Metadata Extraction, Data Extraction - Basic, Data Extraction - Detailed, UpSync, and Client System.

4. Log out of the mobile application and then log back in again for the changes to take effect.

   Notice that after you log back in to the mobile application, the Log button (the bug icon) appears on the application banner.

Clearing Log Information

If you exceed the storage capacity on your mobile device, then complete the steps in the following procedure.

Before clearing the log information for Siebel Mobile applications, review the existing log information just in case you might want to save any of it. This procedure assumes that logging has been enabled for the Siebel Mobile users.

To clear the log information for disconnected applications

1. Tap Log (the bug icon) on the application banner.

   The log console opens showing all recent log event messages and debug information.
2. Tap clear to clear the log information.

   All log information is deleted from the device.

Uploading Log Information to Siebel Server

The following procedure shows you how to upload Siebel Mobile log information to Siebel Server. This procedure assumes that logging has been enabled for Siebel Mobile users.

To upload Siebel Mobile log information to Siebel Server

1. Tap Log (the bug icon) on the application banner.

The log console opens showing all recent log event messages and debug information.

2. Tap Upload Logs to upload all log information to Siebel Server.
3. Siebel Server saves all log information that it receives in the `<server location>/log` folder:
   `<server location>/log/<user_id>/DMLog_<nodeid>_<timestamp>.log`

   where:
   - `<user_id>` indicates the ID of the logged in user.
   - `<nodeid>` indicates the client device. The node ID is generated when the user switches to offline mode. If the user does not switch to offline mode, then the log information is saved as follows: `DMLog_No-Node-ID_<timestamp>.log`.
   - `<timestamp>` indicates the date and time that the log was saved.

Saving Log Information

The following procedure shows you how to save Siebel Mobile log information. This procedure assumes that logging has been enabled for Siebel Mobile users.

To save Siebel Mobile log information

1. Tap Log (the bug icon) on the application banner.
   The log console opens showing all recent log event messages and debug information.
2. Tap anywhere in the log console, tap Select All, and then tap Copy.
3. Save the log information, for example, as follows:
   a. Open the Notes feature on your mobile device.
   b. Tap New to create a new note.
   c. Tap anywhere in the new note that opens, then tap Paste to paste the contents of the clipboard (that is, the log information that you copied in the previous step) into the note.

About Log API

When you exceed the storage capacity on your mobile device, the log event messages and debug information for Siebel Mobile disconnected applications are no longer logged and the following error message appears in the console log:

```
Local storage is full.
```

The following table describes the Siebel Mobile log function in more detail. For information about troubleshooting Siebel Mobile application logging, see *Troubleshooting Siebel Mobile Applications*.

Item	Description
Function Name	SiebelApp.S_App.LogOfflineEvent()
In Parameters	The Siebel Mobile log function takes the following in-parameters:

Item	Description
	`message: string,` `params: string`
Out Parameter	The Siebel Mobile log function takes the following out parameter: `Type: void`
Description	This function takes two values (message and params) which are formatted and stored in the device storage. An error message appears (Local storage is full) in the console log when the device storage is full. Siebel stops logging error messages after this error message appears.
Example	`SiebelApp.S_App.LogOfflineEvent('%1 - %2:= %3', 'class1', 'method1', 'data');` `//This will be logged as: class1 - method1:= data`

Unsupported Siebel Mobile Features in Offline Mode

The features listed in this topic are not supported in offline mode. You must be connected to the Internet and, in some cases, to the Siebel Server to do the following in your Siebel Mobile disconnected application:

- *Searching for Records in Siebel Mobile*

  The Search toolbar is not supported in offline mode, except to perform barcode-related functionality. Performing an inline query in offline mode is supported only in Siebel CRM 18.9 Update and later releases.
- Use the cogwheel icon, see *About Menu (the Cogwheel Icon) in Siebel Mobile*
- *Creating Bookmarks in Siebel Mobile*
- *Configuring Application Settings for Siebel Mobile*
- *Displaying Location Details in Siebel Mobile*
- *Running Predefined Queries in Siebel Mobile*
- *Starting an External Application from Siebel Mobile*
- *Logging Out of Siebel Mobile*
- Use the following icons to make a selection or type some text: Phone, Email, Pin, URL
- Select multiple records in list applets

  > **Note:** Multiple record selection for associate applets only is supported in offline mode.

- Other features not supported in offline mode include:
  - Cascade delete
  - Currency pop-up controls
  - Default Applet Menu items
  - Dynamic drilldowns

    - Dynamic controls
    - Execution of joined fields
    - MVG (multi-value group) fields. MVG fields are read-only in offline mode
    - Thread bar
    - Toggle applets
    - The Back button to go to a previous page
    - The Show More option in List applets is unavailable
    - The User Settings view is unavailable.

- The expression parser is limited

  The expression parser is used for parsing expressions such as those for field validations, predefault and post-default properties, Business Component search specifications, and so on.

  The expression parser does not support all the expressions that are supported by Siebel Server.

9 Getting Started (Siebel App)

Getting Started with Siebel Mobile Application Container (Siebel App)

This chapter describes how to get started with the Siebel Mobile Application Container (Siebel app) and how to integrate Siebel Mobile with native device features. It includes the following topics:

- *About the Siebel App, Siebel.maa File, and Mobile Application Framework*
- *Overview of Siebel Mobile Integration with Native Device Features*
- *Process of Integrating Siebel Mobile with Native Device Features*
- *Downloading and Installing the Siebel App*
- *Setting Up the Host Server for Siebel Mobile*
- *Configuring the Siebel App on iOS and Android Devices*
- *Resetting the Host Server Using the Siebel App*
- *Managing Attachments Using the Siebel App*
- *Configuring the Privacy Settings for Native Device Feature*
- *Setting Up CalDAV and CardDAV Publishing*

About the Siebel App, Siebel.maa File, and Mobile Application Framework

Before using the Siebel App, Siebel.maa file and Mobile Application Framework (MAF), note the following:

- Earlier versions of Siebel Server, prior to Siebel Innovation Pack 2015 patchset 15 or Siebel Innovation Pack 2016 patchset 5, will not work with version 2.16.10 or later of the Siebel app and Siebel.maa file.
- You cannot use an earlier version of the Siebel.maa file, prior to version 2.16.10, with MAF version 2.3.1 or later.
- You must upgrade to MAF version 2.6.4.x to use the Siebel app and Siebel.maa file version 2.16.10 and later.
- Xcode 12.x is required to generate the `.ipa` file and Android 10.0 (API 29) is required to generate the `.apk` file. In both cases (`.ipa`/`.apk`), the development environment requires JDeveloper 12.2.1 or later.

Overview of Siebel Mobile Integration with Native Device Features

You can access and use the following native device features from Siebel Mobile, provided that you download and configure the Siebel app first from either the Apple App store if using an iOS device or from Google Play if using an Android device:

- **File System Access.** From Siebel Mobile, you can access the native device local hard disk space to read data from and write data to files stored locally on the device using either relative or absolute paths, or the file URL (`file://host/path`). Depending on mobile application set up and on whether you are using Siebel Mobile connected or disconnected, Siebel Mobile routes commands to the Siebel Server (if online) or local resources (if offline) as required.
- **Location Services.** From Siebel Mobile, you can use the native device location services to obtain more accurate location data. For more information about using location services on a mobile device, see *Displaying Location Details in Siebel Mobile* and *Configuring the Privacy Settings for Native Device Feature*.

Note: This release of Siebel Mobile uses WkWebView for iOS devices (instead of UIWebView), which improves performance and communication between the application and web page.

Note: This release of Siebel Mobile uses SQLite (and not WebSQL):

- SQLite implements the SQL database system and its query language is a simplified version of SQL.
- SQLite is an embedded SQL database engine and it reads and writes to ordinary disk files.
- Whereas WebSQL implementations have a 50 megabyte data download limit, this limitation does not apply to SQLite.

Process of Integrating Siebel Mobile with Native Device Features

To integrate Siebel Mobile with the native features on your mobile device, perform the following tasks:

- *Downloading and Installing the Siebel App* or *Downloading and Using the Siebel Mobile Archive File (Administrator Task)*
- *Setting Up the Host Server for Siebel Mobile*
- *Configuring Single Sign-On for Siebel Mobile*
- *Configuring the Siebel App on iOS and Android Devices*
- *Resetting the Host Server Using the Siebel App*
- *Managing Attachment Downloads*
- *Managing Attachment Uploads*

- *Configuring the Privacy Settings for Native Device Feature*
- *Setting Up CalDAV and CardDAV Publishing*
- *Setting Up CardDAV Dynamic Mapping for Siebel CRM*

Downloading and Installing the Siebel App

This topic shows you how to download and install the Siebel app on your mobile device. You need the Siebel app to dynamically link to a Siebel Mobile server so that you will be able to access and use native device features, such as the local file system and location services, from Siebel Mobile.

Downloading and Installing the Siebel App from the Apple App Store

The following procedure shows you how to download and install the Siebel app (Siebel.ipa file) from the Apple App Store for iOS devices such as iPad. If you want to create and deploy your own customized Siebel app, then ignore this procedure and see *Downloading and Using the Siebel Mobile Archive File (Administrator Task)* for more information.

To download and install the Siebel app from the Apple App Store

1. Start your iOS mobile device.
2. Go to the Apple App Store (http://store.apple.com/us) and search for the following app: Siebel.
3. Tap FREE to download the Siebel app.
4. Tap INSTALL to install the Siebel app.
5. Enter your Apple ID password to install the Siebel app on your mobile device.
6. Configure the Siebel app.

   For more information, see *Configuring the Siebel App on iOS and Android Devices*.

Downloading and Installing the Siebel App From Google Play

The following procedure shows you how to download and install the Siebel app (Siebel.apk file) from Google Play for Android devices such as Samsung Galaxy tablet. If you want to create and deploy your own customized Siebel app, then ignore this procedure and see *Downloading and Using the Siebel Mobile Archive File (Administrator Task)* for more information.

To download and install the Siebel app from Google Play

1. Start your Android device.
2. Go to Google Play (http://play.google.com/store) and search for the following app: Siebel.
3. Select the Siebel app and then tap INSTALL.
4. Follow the on screen instructions to install the Siebel app on your mobile device.
5. Configure the Siebel app.

   For more information, see *Configuring the Siebel App on iOS and Android Devices*.

Downloading and Using the Siebel Mobile Archive File (Administrator Task)

Instead of downloading the Siebel app and installing it on a mobile device as described in *Downloading and Installing the Siebel App*, administrators can download the Siebel Mobile archive file (Siebel.maa) from Oracle Software Delivery Cloud (*https://edelivery.oracle.com*) and use the archive file to create and deploy a customized Siebel app for iOS and Android devices.

For more information about how to use Oracle JDeveloper to create a new Mobile Application Framework (MAF) application from an archive (.maa) file, how to deploy the mobile application, and customize the application (for example, replace the application images), see the supporting documentation for Oracle JDeveloper:

http://docs.oracle.com/cd/E53569_01/tutorials/tut_jdev_maf_setup/tut_jdev_maf_setup.html

Related Topic

About the Siebel App, Siebel.maa File, and Mobile Application Framework

Setting Up the Host Server for Siebel Mobile

This task applies only if using Siebel Innovation Pack 2017 or later. If using an earlier innovation pack prior to 2017, then see *Setting Up the Host Server for Siebel Mobile (Innovation Pack 2016)*.

The following procedure shows you how to set up the host server where Siebel Mobile applications are located. You use the Siebel Management Console to configure the host server. The host address is configured in the following format:

```
https://host:port/siebel/v1.0/applicationlist
```

For example:

```
https://samplehost.com:636/siebel/v1.0/applicationlist
```

The host address connects to the Application Interface, which contains the application list information.

To set up the host server for Siebel Mobile (Innovation Pack 2017 or later)

1. Log in to the Siebel Management Console.
2. Click Profiles in the navigation menu in the side pane, and then select Application Interface.
   Existing Application Interface Profiles are listed, if any.
3. Select the application interface profile you want and do the following:
   a. Click Applications and then select the application you want to configure for Siebel Mobile (for example: epharma, sales, or service).
      When you select an application, the following options appear for the application: Basic Information, Mobile, Enhanced Authentication.
   b. Select the Mobile option and then configure the parameters for the application as shown in the following table.

c. Repeat these steps for each application you want to configure for Siebel Mobile.

Parameter	Description
Configure Siebel Mobile	Select this check box to configure a Siebel Mobile application (a mobile version of the application).
Application Display Name	Specify the display name of the Siebel Mobile application. For example: epharmam, salesm, or servicem.
Application Display Order	Specify the display order of the Siebel Mobile application. For example: 1, 2, or 3.
Application Icon Name	Specify the icon of the Siebel Mobile application. For example: epharma.png, sales.png, or service.png.

4. Click Submit to save your changes to the application interface profile.

Setting Up the Host Server for Siebel Mobile in Siebel Innovation Pack 2016 or Earlier

This task applies only if using Siebel Mobile version 2.x in Siebel Innovation Pack 2016 or earlier. If using Siebel Innovation Pack 2017 or later, then see *Setting Up the Host Server for Siebel Mobile*.

The following procedure shows you how to set up the host server where Siebel Mobile applications are located.

To set up the host server for Siebel Mobile (Innovation Pack 2016)

1. After installing and configuring Siebel Web Server Extension (SWSE), copy the mobileapplist.lst file from SWSEHome to the host Web server root path.

   For example on Microsoft Windows (IIS), navigate to `Local Disk (C), inetpub, wwwroot` and paste a copy of the mobileapplist.lst file in this location. On UNIX, copy the .lst file to the Web server root and make sure it supports the .lst MIME type.

   The following table summarizes the Web server paths for different operating systems.

Field	Web Server Path
Windows	`C:\inetpub\wwwroot\`
Linux	

Field	Web Server Path
	Build_Install_Directory/web/Oracle_WT1/instances/instance1/config/OHS/ohs1/htdocs>
Solaris	Build_Install_Directory/web/https-localhost/docs
HP-UX	Build_Install_Directory/web/htdocs
AIX	Build_Install_Directory/web/htdocs

2. Open the mobileapplist.lst file in a text editor.

   An example of the content in the file is as follows:

```
{
"1":{"id":"1","name":"Siebel ePharma
Mobile","lang":"LanguageCode","url":"http(s):// webserver_hostname/epharmam_
LanguageCode/"},
"2":{"id":"2","name":"Siebel Service for
Mobile","lang":"LanguageCode","url":"http(s):// webserver_hostname/servicem_
LanguageCode/"},
"3":{"id":"3","name":"Siebel Sales
Mobile","lang":"LanguageCode","url":"http(s):// webserver_hostname/salesm_
LanguageCode/"}
}
```

3. Edit the mobileapplist.lst file as follows:

   a. Change LanguageCode to the language in which you want to run the application. For example, change LanguageCode to enu to run the application in English.
   b. Depending on your deployment, use http or https for the Siebel Web server URL.
   c. Change epharmam_LanguageCode and servicem_LanguageCode to (for example) epharmam_enu and servicem_enu respectively.

      When finished, the content in the mobileapplist.lst file appears similar to the following:

```
{
"1":{"id":"1","name":"Siebel ePharma Mobile","lang":"enu","url":"http(s)://
webserver.com/epharmam_enu/"},
"2":{"id":"2","name":"Siebel Service for
Mobile","lang":"enu","url":"http(s):// webserver.com/servicem_enu/"},
"3":{"id":"3","name":"Siebel Sales Mobile","lang":"enu","url":"http(s)://
webserver.com/salesm_enu/"}
}
```

   d. Save and close the mobileapplist.lst file.

4. Change the MIME type for mobileapplist.lst as follows:

   a. Open Internet Information Services Manager.
   b. Navigate to the Features view and double-click MIME Types.
   c. Right-click the .lst MIME type and select Edit.
   d. In the MIME Type field, type in `text/plain`, and then click OK.

Customizing the Siebel App Application Icons in Siebel Innovation Pack 2016 or Earlier

This task applies only if using Siebel Mobile version 2.x in Siebel Innovation Pack 2016 or earlier. If using Siebel Innovation Pack 2017 or later, then see *Setting Up the Host Server for Siebel Mobile*.

You can customize the icon associated with each application listed on the Home page (Application List screen) of the Siebel app.

To customize the Siebel App application icons

1. Open the mobileapplist.lst file in a text editor.

   An example of the content in the file is as follows:

   ```
   {
   {"1":{"id":"1","name":"Siebel ePharma
   Mobile","lang":"LanguageCode","url":"http(s):// webserver_hostname/epharmam_
   LanguageCode/"},
   "2":{"id":"2","name":"Siebel Service for
   Mobile","lang":"LanguageCode","url":"http(s):// webserver_hostname/servicem_
   LanguageCode/"},
   "3":{"id":"3","name":"Siebel Sales
   Mobile","lang":"LanguageCode","url":"http(s):// webserver_hostname/salesm_
   LanguageCode/"}
   }
   ```

2. For each application definition in the mobileapplist.lst file, add the following:

   ```
   "icon":"appname.png"
   ```

   Where appname is the name of the application. When finished, the content in the mobileapplist.lst file appears similar to the following:

   ```
   {
   "1":{"id":"1","name":"Siebel ePharma
   Mobile","lang":"LanguageCode","icon":"epharma.png", "url":"http(s)://
   webserver.com/epharmam_LanguageCode/"},
   "2":{"id":"2","name":"Siebel Service for
   Mobile","lang":"LanguageCode","icon":"service.png", "url":"http(s)://
   webserver.com/servicem_LanguageCode/"},
   "3":{"id":"3","name":"Siebel Sales
   Mobile","lang":"LanguageCode","icon":"sales.png", "url":"http(s)://
   webserver.com/salesm_LanguageCode/"}
   }
   ```

3. Save and close the mobileapplist.lst file.

Configuring Single Sign-On for Siebel Mobile

Siebel Mobile supports Single Sign-On (SSO) for connected applications.

Note: SSO does not apply for Siebel Mobile disconnected applications since Siebel Mobile is used locally on the mobile device without connectivity. Siebel Mobile disconnected applications use the SQLite database to store data, metadata and all the resource files to run the application.

The following procedure shows you how to configure SSO for Siebel Mobile if using Siebel Innovation Pack 2017 or later.

To configure SSO for Siebel Mobile (Innovation Pack 2017)

1. Log in to the Siebel Management Console.
2. Click Profiles in the navigation menu in the side pane, and then select Application Interface.

   Existing Application Interface Profiles are listed, if any.
3. Select the application interface profile you want to modify and do the following:

   a. Click Applications and then select the mobile application you want to configure for SSO (for example: epharmam, salesm, or servicem).

      When you select an application, the following options appear for the application: Basic Information, Mobile, Enhanced Authentication.
   b. Select the Enhanced Authentication option and then select the Configure Web Single Sign-On (Web SSO) check box.
   c. For Trust Token, specify the password to be used with SSO authentication.
   d. For User Specification, specify the user specification to use for SSO authentication.

      Repeat these steps for each mobile application you want to configure for SSO.
4. Click Submit to save your changes to the application interface profile.

The following procedure shows you how to configure SSO for Siebel Mobile if using Siebel Innovation Pack 2016 or earlier.

To configure SSO for Siebel Mobile (Innovation Pack 2016)

1. Open the mobileapplist.lst file in a text editor.
2. Modify the mobileapplist.lst file by adding "authmode":"sso" as follows:

```
{
"1":{"id":"1","name":"Siebel ePharma
Mobile","lang":"LanguageCode","url":"http(s):// webserver_hostname/epharmam_
LanguageCode/","authmode":"sso"},
"2":{"id":"2","name":"Siebel Service for
Mobile","lang":"LanguageCode","url":"http(s):// webserver_hostname/servicem_
LanguageCode/","authmode":"sso"}
"3":{"id":"3","name":"Siebel Sales
Mobile","lang":"LanguageCode","url":"http(s):// webserver_hostname/salesm_
LanguageCode/","authmode":"sso"}
}
```

3. Save and close the mobileapplist.lst file.

Configuring the Siebel App on iOS and Android Devices

This procedure shows how to configure the Siebel app on iOS and Android devices. This involves dynamically connecting to a Siebel Server by entering the Siebel Mobile host server address. You must set up the host server first as shown in *Setting Up the Host Server for Siebel Mobile*. After the host server is set up, you can connect to multiple applications in a single Siebel app.

This procedure assumes that you have already downloaded and installed the Siebel app from either the Apple App Store for iOS devices or from Google Play for Android devices as shown in *Downloading and Installing the Siebel App*.

To configure the Siebel app

1. If not already done so, set up the Host Server where Siebel Mobile applications are located as shown in *Setting Up the Host Server for Siebel Mobile*.
2. Start your iOS or Android device and then tap Siebel to start the Siebel app.
3. In the Host section, type in the host server address where Siebel Mobile applications are located, for example, as follows:
   - For Siebel Innovation Pack 2016 and earlier, the host server address follows: `http://hostserveraddress.com`
   - For Siebel Innovation Pack 2017 and later, the host server address follows: `http://hostserveraddress.com/siebel/v1.0/applicationlist`

     You will be connected directly to this host server whenever you log in to an application located at this host server address.

   > **Note:** For HTTPS setup, the CA Certificate used to trust the Siebel Web Server must be installed on all mobile devices (iOS and Android).

   > **Note:** Use the Reset All option to reset the server. For more information, see *Resetting the Host Server Using the Siebel App*.

4. If this is your first time starting the Siebel app on your mobile device, then do the following:
   - Tap Yes when prompted to Install Siebel Certificate, and install the certificate on your mobile device.

     > **Note:** For iOS 10.3 and later, you must trust the certificate by going to iOS Settings, General, About, Certificate Trust Settings, and selecting the certificate (Siebel Mobile Internal CA) you installed. This step does not apply for Android devices.

   - Accept the end-user license agreement.
5. Tap the arrow next to the host server address to go to the Home page (Application List screen) of the Siebel app.

   The Application List screen lists the applications that you can connect to on the host server address. You can connect to multiple applications using the Siebel app.

   The Application List is populated from the mobileapplist file that you must configure as shown in *Setting Up the Host Server for Siebel Mobile*.

Each application in the Application List has a unique icon. You can customize the icon associated with each application as shown in *Customizing the Siebel App Application Icons (Siebel Innovation Pack 2016)*.

6. Connect to an application as follows:

    a. Tap the Edit button next to the application that you want to connect to.
    b. Type in the Username and Password credentials for the application, and then tap Sign In.

    After successful login, the application starts and is rendered as normal in the Siebel app. The following buttons appear under the application banner and persist for all views in the application:

    - **Refresh button** for refreshing the page in the Siebel app.
    - **Attachment button** for going to the Attachment Manager view. For more information, see *Managing Attachment Downloads*.
    - **Home button** for returning to the Home page (Application List screen) of the Siebel app.

After successful login to Siebel Mobile disconnected applications, the Identifier is populated with a unique ID (Sync Node ID) identifying the application that was synchronized after successful login.

Note: The Identifier does not apply to Siebel Mobile connected applications.

Resetting the Host Server Using the Siebel App

The following procedure shows you how to reset the host server for an application using the Siebel app on iOS or Android devices. When you reset the host server, all applications configured on the host server are reset.

To reset the host server using the Siebel app

1. Start your iOS or Android device and then tap Siebel to start the Siebel app.
2. Tap Reset All, and then tap Yes when prompted with the following message:

    ```
    Application Data will be reset. This will take effect when the application is restarted.
    ```

    The next time you start the Siebel app, the connection field or host server address field will be empty. For more information about connecting to the host server, see *Configuring the Siebel App on iOS and Android Devices*.

Managing Attachments Using the Siebel App

If you are using the Siebel app with Siebel Mobile version 2.0 or later, then you can manage the download and upload of attachments using the Attachment Manager view.

The Attachments Manager view has the following tabs:

- **Download Attachments.** Lists all the attachments that have either finished downloading or are scheduled to download.
- **Upload Attachments.** Lists all the attachments that have either finished uploading or are scheduled to upload.

Each attachment record contains the following information:

- **Check box.** If checked, this indicates that the attachment record is selected for download or upload. If unchecked, the attachment record is not selected.
- **List Order.** A number in the List Order field indicates the rank or sequence number for the attachment record. You can select and (without releasing the selection) then move each row to change the record sequence, or you can type in a number manually in the List Order field to change the record sequence.
- **Entity.** The attachment type.
- **File Name.** The name of the attachment record.
- **Size (KB).** The size of the attachment file.
- **Progress.** The attachment download or upload status.
    - The attachment download status can be one of the following: Not Downloaded, Queued for Download, Downloaded, File not Available, or Downloading.

      Downloading indicates that the attachment is actively downloading and a progress bar shows the progress of the task.
    - The attachment upload status can be one of the following: Not Uploaded, Queued for Upload, Uploaded, File not Available, or Uploading.

      Uploading indicates that the attachment is actively uploading and a progress bar shows the progress of the upload.
- **Speed.** The attachment download or upload speed.
- **Time Left.** The duration of time to complete the attachment download or upload.

Note: The attachment functionality is supported in both online and offline mode. In offline mode, attachment upload and download is supported only when customers install the Siebel app or use the Siebel Mobile Archive MAA file to create and deploy a customized Siebel app for iOS and Android devices. For more information, see *Downloading and Installing the Siebel App*.

Managing Attachment Downloads

The following procedure shows you how to manage the download of attachments using the Attachment Manager view in the Siebel app. The Attachment Manager view is available in online mode after the initial full download is complete, and in offline mode to download attachments during the synchronization process.

To manage attachment downloads

1. Start your iOS or Android device and then tap Siebel to start the Siebel app.
2. Log in to the application where you want to manage attachment downloads.

   After successful login, the application starts and is rendered as normal in the Siebel app. The following buttons appear under the application banner and persist for all views in the application: Refresh, Attachment, and Home.

   For more information about these buttons, see (Step 6 in) *Configuring the Siebel App on iOS and Android Devices*.
3. Create attachment records as required.

For more information, see *Modifying Attachment Information for an Account* and *Modifying Attachment Information for a Contact*.

4. In the Siebel app, tap the Attachment button to open the Attachment Manager view, and then tap Download Attachments.
5. Reorder the Download Attachments list as required by typing in a number in the List Order field.
6. Tap the check box next to each attachment record to select that record for download.
7. Tap the Download Only on Wi-Fi check box.
8. Choose one of the following download options as required:

    - **Download.** Tap to queue the selected attachment records for download.
    - **Remove.** Tap to delete attachments belonging to the selected attachment records from the mobile device, and cancel any future downloads of or updates to the selected attachment records.

Managing Attachment Uploads

The following procedure shows you how to manage the upload of attachments using the Attachment Manager view in the Siebel app. The Attachment Manager view is available in online mode after the initial full upload is complete, and in offline mode to upload attachments during the synchronization process.

To manage attachment uploads

1. Start your iOS or Android device and then tap Siebel to start the Siebel app.
2. Log in to the application where you want to manage attachment uploads.

    After successful login, the application starts and is rendered as normal in the Siebel app. The following buttons appear under the application banner and persist for all views in the application: Refresh, Attachment, Home.

    For more information about these buttons, see (Step 6 in) *Configuring the Siebel App on iOS and Android Devices*.
3. Create attachment records as required.

    For more information, see *Modifying Attachment Information for an Account* and *Modifying Attachment Information for a Contact*.
4. In the Siebel app, tap the Attachment button to open the Attachment Manager view, and then tap Upload Attachments.
5. Reorder the Upload Attachments list as required by typing in a number in the List Order field.
6. Tap the check box next to each attachment record to select that record for upload.
7. Tap the Upload Only on Wi-Fi check box.
8. Choose one of the following upload options as required:

    - **Upload.** Tap to queue the selected attachment records for upload.
    - **Remove.** Tap to delete attachments belonging to the selected attachment records from the mobile device, and cancel any future uploads of or updates to the selected attachment records.

Configuring the Privacy Settings for Native Device Feature

To use native device features such as location services with your Siebel Mobile application, then you must configure the privacy setting for the feature on your mobile device accordingly as shown in the following procedures:

- *Configuring the Privacy Settings on i OS Devices*
- *Configuring the Privacy Settings on Android Devices*

Configuring the Privacy Settings on iOS Devices

The following procedure shows you how to configure the privacy settings on iOS devices.

To configure the privacy settings on iOS devices

1. Start your iOS device.
2. Tap Settings, tap Privacy and then tap Location Services to turn on the setting.
3. The map functionality is now enabled for Siebel Mobile. For more information about using the map functionality, see *Displaying Location Details in Siebel Mobile*.

Configuring the Privacy Settings on Android Devices

The following procedure shows you how to configure the privacy settings on Android devices.

To configure the privacy settings on Android devices

1. Start your mobile device.
2. Tap Google Settings, tap Location and then tap Location Reporting to turn on the setting.
3. The map functionality is now enabled for Siebel Mobile. For more information about using the map functionality, see *Displaying Location Details in Siebel Mobile*.

Setting Up CalDAV and CardDAV Publishing

CalDAV (Calendaring Extensions to WebDAV) is an internet standard allowing clients to access scheduling or meeting information on a remote server. It uses iCalendar format for data. *CardDAV* (vCard Extensions to WebDAV) is an address book client-server protocol allowing users to share contact data on a server.

The key requirement for using CalDAV and CardDAV publishing is email address. All contacts and employees must be associated with a valid email address. For CalDAV, the identification of meeting participants depends entirely on the email address. All users must have the same email address registered in the Siebel application and on their mobile device.

URL Syntax for CalDAV Account Setup

For CalDAV clients to access Siebel DAV, the following URL syntax is required for setting up new CalDAV accounts:

```
http://<server>:<port>/siebel/dav/<lang><user_name>/
```

For example: `http://example:1661/siebel/dav/enu/JDOE/`

If the client does not support service discovery, then use the collection URL instead:

```
http://<server>:<port>/siebel/dav/<lang>/<user_name)/calendar/event
```

For example: `http://example:1661/siebel/dav/enu/JDOE/calendar/event/`

URL Syntax for CardDAV Account Setup

For CardDAV clients to access Siebel DAV, the following URL syntax is required for setting up new CardDAV accounts:

```
http://<server>:<port>/siebel/dav/<lang>/<user_name>
```

For example: `http://example:1661/siebel/dav/enu/JDOE/`

If the client does not support service discovery, then use the collection URL instead:

```
http://<server>:<port>/siebel/dav/<lang>/<user_name>/addressbook/ contact
```

For example: `http://example:1661/siebel/dav/enu/JDOE/addressbook/contact/`

Setting Up CalDAV Publishing on an iOS Device

The following procedure shows you how to set up CalDAV publishing on an iOS mobile device. Before setting up CalDAV publishing on your mobile device, make sure that you can access the Siebel application on your device.

To set up CalDAV publishing on an iOS device (such as iPad)

1. Tap Settings, tap Mail, Contacts, Calender, and then tap Add Account.
2. Select Other, then select Add CalDAV Account and enter the following information:
   - **Server.** The Siebel Application Interface host name (for example, caldav.example.com).
   - **Username.** The user name to access the Siebel application (case sensitive).
   - **Password.** The password to access the Siebel application (case sensitive).
   - **Description.** A description to help identify the calendar in your list of calendars (for example, CalDAV Calendar Work).
3. Tap Next.

   > **Note:** If the following warning message appears, select Details to review the certificate details, and then select Trust if the certificate is correct: `Cannot Verify Server Identify - The identity of <Server> cannot be verified by <Description>. Review the certificate details to continue.`

4. Select Continue when the following message appears:

`Cannot Connect Using SSL - Do you want to try setting up the account without SSL?`

5. Select OK when the following message appears:

   `Calendar Account - CalDAV account verification failed.`
6. Tap Advanced Settings, and then select Use SSL if required.

   Your decision to Use SSL or not depends on how the Siebel Application Interface is configured to access Siebel CalDAV and CardDAV.
7. Specify the port number and then append `siebel/dav/<language>/<user_name>/` to the Account URL, for example as follows:

   `caldav.example.com:16661/siebel/dav/enu/JDOE`

   > **Note:** You can replace `<user_name>` with the name of whom ever granted you access to their calendar in Siebel.
8. Tap CalDAV, and then tap Next to start the account verification.

   If account verification fails, go back and check that you have entered all the correct information.
9. After account verification is successful, select whether you want to synchronize Calendars, Reminders, or both, and then tap Save.

   Make sure you select Calendars.
10. Tap Calendar on your mobile device, and then select Calendars.

    The list of available calendars appears. The calendar that you just created shows up in this list.

Setting Up CalDAV and CardDAV Publishing on an Android Device

The native Calendar and Contact (address book) applications for Android do not support CalDAV and CardDAV and, as a result, require a third-party client to connect to the CalDAV and CardDAV server. To enable CalDAV and CardDAV on your Android device, you must follow the instructions of the selected third-party application.

Before setting up CalDAV or CardDAV publishing on your Android device, make sure that you can access the Siebel application on your device. Other items to note include the following:

- Enable Use SSL on your Android device if required.

  Your decision to Use SSL or not depends on how the Siebel Application Interface is configured to access Siebel CalDAV and CardDAV.
- Use the following Home URL to connect to the server:

  `http://webserver_hostname:port/siebel/dav/language/user_name`

  For example: `http://caldav.example.com:1661/siebel/dav/enu/JDOE/`

  Depending on the client, you might have to use the collection URLs instead:
  - CalDAV: `http://webserver_hostname:port/siebel/dav/language/user_name/calendar/event/`

    For example: `http://caldav.example.com:1661/siebel/dav/enu/JDOE/calendar/event/`

    - CardDAV: `http://webserver_hostname:port/siebel/dav/language/user_name/addressbook/contact`

      For example: `http://carddav.example.com:16661/siebel/dav/enu/JDOE/addressbook/contact/`

- The user name and password credentials must be the same credentials used to log in to the Siebel application.
- Accept the server certificate if Use SSL is enabled.
- The CalDAV Provider is Generic.
- The CardDAV Provider is Generic.
- The WebDav Provider is Generic.

10 Siebel Mobile Application for Siebel Pharma

Using the Siebel Mobile Application for Siebel Pharma

This chapter describes the tasks that a user of the Siebel Mobile application for Siebel Pharma can run in online (connected) and offline (disconnected) mode. Tasks and features that are not supported in offline mode are listed. It includes the following topics:

- *Using the Home Page for Siebel Pharma*
- *Managing Calls for Siebel Pharma*
- *Managing Accounts for Siebel Pharma*
- *Managing Contacts for Siebel Pharma*
- *Managing Messaging Plans*
- *Using the PCD Viewer in Siebel Mobile*
- *Task Flows for Siebel Pharma*
- *Unsupported Siebel Pharma Features in Offline Mode*

Note: The procedures in this chapter assume that inline editing is configured for Siebel Mobile. If inline editing is not configured, then pencil icons appear in the user interface. You can tap these icons to edit information. For more information, see *Inline Editing*.

Using the Home Page for Siebel Pharma

The following procedures related to using the home page of the Siebel Mobile application for Siebel Pharma are included in this topic:

- *Viewing Call Planning Information*
- *Scheduling Calls For Contacts and Accounts*

Note: You must complete the relevant setup tasks detailed in *Siebel Life Sciences Guide* and *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Pharma.

Viewing Call Planning Information

On the home page, you can view the call planning information for contacts and accounts in the calendar.

Note: Viewing calls in the calendar is similar to viewing activities in the calendar. For more information about using the calendar to view activities, see *Siebel Fundamentals Guide* .

To view the call planning information

1. Tap Side Menu and then tap Calls to display the following:
   - The calendar showing the call planning information in the main pane.
   - The Contacts and Accounts list in the side pane.
     Tap Contacts or Accounts to expand the corresponding contacts or accounts list.

   Note: You can perform the remaining steps in this task only in online mode.
2. On the calendar in the main pane, view the call planning information as follows:
   - Use the navigation arrows to navigate across dates and view the calls scheduled on different dates.
   - Tap Today to see the calls scheduled for today's date.
   - Tap the Daily, Weekly, or Monthly calendar buttons to switch between the daily, weekly, or monthly view of calls scheduled.
   - Tap 2 to switch the daily display to two hourly intervals.
   - Tap 4 to switch the daily display to four hourly intervals.
     The default daily display interval is one hour.
3. On the calendar in the main pane, you can do the following:
   - To extend the duration of a call, select the border of the call and (without releasing the selection) then move the border out.
   - To move a call, select the call and (without releasing the selection) then move the call to a different time or date on the calendar.
   - To schedule a call for a contact or an account, see *Scheduling Calls For Contacts and Accounts*.
   - Tap a call on the calendar to drill down on and display the call details. For more information, see *Displaying Call Details (Siebel Pharma)*.

Scheduling Calls For Contacts and Accounts

On the home page, you can schedule calls for contacts and accounts in the calendar.

Note: Scheduling calls in the calendar is similar to scheduling activities in the calendar. For more information about using the calendar to schedule activities, see *Siebel Fundamentals Guide* .

To schedule calls for contacts and accounts

1. Tap Side Menu and then tap Calls to display the following:
   - The calendar showing the call planning information in the main pane.
   - The Contacts and Accounts list in the side pane.
     Tap Contacts or Accounts to expand the corresponding contacts or accounts list.

   Note: You can perform the remaining steps in this task only in online mode.

2. Schedule a new contact call as follows:
    a. Tap Contacts in the side pane to expand the contacts list, and then select a contact from the list.
    b. Select a contact and (without releasing the selection) then move the contact onto the calendar in the main pane.
    c. Drill down on the new call to open it.
    d. Modify the call details as required. For more information, see *Modifying Call Information*.
    e. Modify the related items for the call as required. For more information, see *Displaying Call Details (Siebel Pharma)*.
3. Schedule a new account call as follows:
    a. Tap Accounts in the side pane to expand the accounts list, and then select a contact from the list.
    b. Select an account and (without releasing the selection) then move the account onto the calendar in the main pane.
    c. Drill down on the new call to open it.
    d. Modify the call details as required. For more information, see *Modifying Call Information*.
    e. Modify the related items for the call as required. For more information, see in *Displaying Call Details (Siebel Pharma)*.

Managing Calls for Siebel Pharma

A *call* is a scheduled interaction that you have with a contact or an account.

The following procedures related to calls and call management are included in this topic:

- *Displaying Call Details (Siebel Pharma)*
- *Modifying Call Information*
- *Modifying Attendee Information for a Call*
- *Modifying Promotional Items for a Call*
- *Modifying Samples for a Call*
- *Modifying Product Details for a Call*
- *Viewing the Validation Results for a Call*
- *Adding Literature Information to a Call*
- *Viewing Presentation Detail Information for a Call*
- *Capturing Signatures for Calls*
- *Submitting a Call for Processing*

Note: You must complete the relevant setup tasks detailed in *Siebel Life Sciences Guide* and *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Pharma.

Displaying Call Details

You can display call details by using the calendar.

To display call details

1. Tap Side Menu and then tap Calls to display the following:
    - The calendar showing the call planning information in the main pane.
    - The Contacts and Accounts list in the side pane.
2. Tap a call on the calendar in the main pane to open it and display the following:
    - The details for the selected call in the main pane.
    - A list in the side pane in which you can select the related items for the call.
3. To view the related items for the selected call, tap the following names in the list in the side pane:
    - **Call Planning.** Shows the home page for Siebel Pharma where you can view the call planning information for and schedule new calls for contacts and accounts. For more information, see the following:
        - *Viewing Call Planning Information*
        - *Scheduling Calls For Contacts and Accounts*
    - **Attendees.** Shows the attendee information for the call. For more information, see *Modifying Attendee Information for a Call*.
    - **Promotional Items Dropped.** Shows the number of dropped promotional items for the call. For more information, see *Modifying Promotional Items for a Call*.
    - **Samples Dropped.** Shows the number of dropped samples for the call. For more information, see *Modifying Samples for a Call*.
    - **Product Details.** Shows the product details for the call. For more information, see *Modifying Product Details for a Call*.
    - **Validation Results.** Shows the validation results for the call. For more information, see *Viewing the Validation Results for a Call*.
    - **Literature.** Shows the literature information for the call. For more information, see *Adding Literature Information to a Call*.
    - **Presentation Detail.** Shows the presentation detail information for the call. For more information, see *Viewing Presentation Detail Information for a Call*.
4. To show a presentation for the selected call, tap the Detail button in the main pane. For more information, see *Showing Presentations in Siebel Mobile*.

Modifying Call Information

Complete the following procedure to modify call information.

To modify call information

1. Tap Side Menu and then tap Calls to display the following:
    - The calendar showing the call planning information in the main pane.
    - The Contacts and Accounts list in the side pane.
2. Update an existing call as follows:
    a. Tap a call on the Calendar in the main pane to open it and display the following:

- The details for the selected call in the main pane.
- A list in the side pane in which you can select the related items for the call.

b. Tap the record field that you want to update, and update the field value.

You must navigate away from the record to save your changes to it. The following table describes the fields that you can modify.

Field Name	Description
Contact	Select a contact for the call. You must select either a contact in this field or an account in the Account field. You cannot select both a contact and an account for the call.
Account	Select an account for the call. You must select either an account in this field or a contact in the Contact field. You cannot select both an account and a contact for the call.
Address	Displays the primary address for the contact or account that you select. To select a different address, tap the Address field, and select the address from the list that appears. When you create a call in offline mode for a new contact or account, this field is not populated with the primary address. You must select the address from the list that appears.
Start Date	Select the call start date and time.
Call Duration	Select the number of minutes for the call duration.

3. To schedule a new call, see *Scheduling Calls For Contacts and Accounts*.

Modifying Attendee Information for a Call

Complete the following procedure to modify the attendee information for a call. An *attendee* is an individual who is present during a meeting or phone discussion for an account call. Attendee information applies to account calls, and not to contact calls. However, when you add an attendee to an account call, you create a contact call for the attendee.

To modify the attendee information for a call

1. Tap Side Menu and then tap Calls to display the following:
    - The calendar showing the call planning information in the main pane.
    - The Contacts and Accounts list in the side pane.
2. Tap a call on the calendar in the main pane to open it and display the following:

- The details for the selected call in the main pane.
- A list in the side pane in which you can select the related items for the call.

3. Update an existing call attendee as follows:

   a. Tap Attendees in the list in the side pane.

      All attendees associated with the call appear in the Attendees list in the main pane.
   b. Tap the attendee that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Add an attendee to the call as follows:

   a. Tap Attendees in the list in the side pane, and then tap Add (the plus (+) icon) in the main pane.
   b. Choose one or more attendees on the list that appears, and then tap OK.

      You can perform one of the following steps to filter the records in the list:

      - Tap All Contacts to show all of the contacts that are available.
      - Tap Affiliated Contacts to show only the affiliated contacts associated with the account for the call.

      Note: The search filter for affiliated contacts is supported only in online mode.
5. Add promotional items and samples to the call and capture a signature for the call as follows:

   a. Tap Attendees in the list in the side pane, and then drill down on the attendee Name.
   b. Add promotional items and samples to the call as required. For more information, see the following topics:

      - *Modifying Promotional Items for a Call*
      - *Modifying Samples for a Call*
   c. Capture a signature for the call as required. For more information, see *Capturing Signatures for Calls*.

Modifying Promotional Items for a Call

Complete the following procedure to modify the promotional items for a call. You give promotional items to the customer during the call. Given promotional items are dropped promotional items. Promotional items apply to contact or attendee calls, and not to account calls.

Before you submit a call for processing, you can modify the promotional item information for the call. You can give only products that meet the following criteria to the customer as promotional items:

- The products are allocated to the sales representative.
- The products are available in the inventory of the sales representative.
- The products are active on the current date.

To modify the promotional items for a call

1. Tap Side Menu and then tap Calls to display the following:

- The calendar showing the call planning information in the main pane.
- The Contacts and Accounts list in the side pane.

2. Tap a call on the calendar in the main pane to open it and display the following:
   - The details for the selected call in the main pane.
   - A list in the side pane in which you can select the related items for the call.
3. Update an existing call promotional item as follows:
   a. Tap Promotional Items Dropped in the list in the side pane.

      All promotional items associated with the call appear in the Promotional Items Dropped list in the main pane.
   b. Tap the promotional item that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Add a promotional item to the call as follows:
   a. Tap Promotional Items Dropped in the list in the side pane, and then tap Add in the main pane.
   b. Enter the quantity of the promotional item to give to the call customer in the Quantity field, and then tap OK.

      The following table describes the other fields.

Field Name	Description
Name	Displays the name of the promotional item.
Quantity	Type the quantity of the promotional item to give to the call customer.
Max Qty	Displays the maximum quantity of the promotional item that the sales representative can give to the call customer in the allocation period.
Available Qty	Displays the quantity of the promotional item that is currently available to the sales representative.

Modifying Samples for a Call

Complete the following procedure to modify the samples for a call. You give samples to the customer during the call. Given samples are dropped samples. Samples apply to contact or attendee calls, and not to account calls.

Before you submit a call for processing, you can modify the sample information for the call. You can give only products that meet the following criteria to the customer as samples:

- The products are allocated to the sales representative.
- The products are available in the inventory of the sales representative.
- The products are active on the current date.

To modify the samples for a call

1. Tap Side Menu and then tap Calls to display the following:
    - The calendar showing the call planning information in the main pane.
    - The Contacts and Accounts list in the side pane.
2. Tap a call on the calendar in the main pane to open it and display the following:
    - The details for the selected call in the main pane.
    - A list in the side pane in which you can select the related items for the call.
3. Update an existing call sample as follows:
    a. Tap Samples Dropped in the list in the side pane.

    All samples associated with the call appear in the Samples Dropped list in the main pane.
    b. Tap the sample that you want to update.
    c. Tap the record field that you want to update, and update the field value.

    You must navigate away from the record to save your changes to it.
4. Add a sample to the call as follows:
    a. Tap Samples Dropped in the list in the side pane, and then tap Add in the main pane.
    b. Enter the quantity of the sample to give to the call customer in the Quantity field, and then tap OK.

    The following table describes the other fields.

Field Name	Description
Name	Displays the sample name.
Lot Number	Displays the lot number for the sample.
Expiry Date	Displays the date that the sample expires.
Quantity	Type the quantity of the sample to give to the call customer.

Modifying Product Details for a Call

Complete the following procedure to modify the product details for a call. Product details indicate the priority of each product associated with the call. You determine these priorities when you interact with the customer. After you add product details, a list of products in ascending order of priority appears when you tap Products Detailed for the call.

Before you submit a call for processing, you can modify the product details for the call. Only products with indications are available to associate with calls. An *indication* is the purpose or therapeutic area that a product drug addresses. The administrator associates product drugs with indications.

To modify the product details for a call

1. Tap Side Menu and then tap Calls to display the following:
   - The calendar showing the call planning information in the main pane.
   - The Contacts and Accounts list in the side pane.
2. Tap a call on the calendar in the main pane to open it and display the following:
   - The details for the selected call in the main pane.
   - A list in the side pane in which you can select the related items for the call.
3. Update an existing call product detail as follows:
   a. Tap Products Detailed in the list in the side pane.

      All detail products associated with the call appear in the Products Detailed list in the main pane.
   b. Tap the product detail that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Add a new product detail to the call as follows:
   a. Tap Products Detailed in the list in the side pane, and then tap Add in the main pane.
   b. Choose a product from the list on the form that appears, enter a number to indicate the importance of the product in the Priority field, and then tap OK.

      Specify product priority in sequential order. The following table describes the fields.

Field Name	Description
Name	Displays the product name.
Priority	Type a number to indicate the importance of each product.
Indication	Displays the purpose or therapeutic area that the product drug addresses. Values for an indication include the following: Allergy, Asthma, Arrhythmia, Heart Failure, Syncope, and Other.

Viewing the Validation Results for a Call

After you capture the electronic signature for a call or submit the call for processing, validation results are automatically generated for the call. Check these validation results to determine any errors in the call data. For example, the validation results might show a warning message indicating that you entered a quantity that exceeds the maximum quantity of samples that you can give to the customer for the call. You must resolve any errors in the validation results before proceeding with a call. If there are warning errors for a call, you can sign or submit the call for processing. But if there are any unresolved validation errors for a call, then you will be unable to sign or submit the call for processing.

To view the validation results for a call

1. Tap Side Menu and then tap Calls to display the following:
    - The calendar showing the call planning information in the main pane.
    - The Contacts and Accounts list in the side pane.
2. Tap a call on the calendar in the main pane to open it and display the following:
    - The details for the selected call in the main pane.
    - A list in the side pane in which you can select the related items for the call.
3. Tap Validation Results in the list in the side pane.

    All validation results showing any errors in the call data appear in the Validation Results list in the main pane.

Adding Literature Information to a Call

Complete the following procedure to add literature information to a call. Literature information includes sales and marketing literature, such as product brochures, technical reference papers, and data sheets. The following file types are supported: GIF, JPEG, JPG, MP4, PDF, PNG, HTML, and ZIP.

Note: For more information about literature in Siebel CRM, see the chapter about literature administration in *Siebel Applications Administration Guide* .

To add literature information to a call

1. Tap Side Menu and then tap Calls to display the following:
    - The calendar showing the call planning information in the main pane.
    - The Contacts and Accounts list in the side pane.
2. Tap a call on the calendar in the main pane to open it and display the following:
    - The details for the selected call in the main pane.
    - A list in the side pane in which you can select the related items for the call.
3. Add literature to the call as follows:

- Tap Literature in the list in the side pane.

  All literature associated with the call appears in the Literature list in the main pane.
- Tap Add (the plus (+) icon) in the main pane, choose the literature item on the list that appears, and then tap OK.

Viewing Presentation Detail Information for a Call

Complete the following procedure to view the presentation detail information for a call. The following file types are supported: GIF, JPEG, JPG, MP4, PDF, PNG, HTML, and ZIP.

To view the presentation detail information for a call

1. Tap Side Menu and then tap Calls to display the following:
   - The calendar showing the call planning information in the main pane.
   - The Contacts and Accounts list in the side pane.
2. Tap a call on the calendar in the main pane to open it and display the following:
   - The details for the selected call in the main pane.
   - A list in the side pane in which you can select the related items for the call.
3. Tap Presentation Detail in the list in the side pane.

   All presentation items (messaging plans, messaging plan items, and related items) associated with the call appear in the Presentation Details list in the main pane.

   The following table describes the presentation detail information.

Field Name	Description
Message	The name of the presentation item (messaging plan, messaging plan item, or related messaging plan item) that was shown during the call.
Response	The response rating recorded for the presentation item (messaging plan, messaging plan item, or related messaging plan item).
Duration	The duration in seconds that the presentation item (messaging plan, messaging plan item, or related messaging plan item) was shown during the call.
Sequence	Tracks the message plan items that are detailed and submitted for the call.

Related Topics

Using the PCD Viewer in Siebel Mobile

Recording Responses to Presentations in Siebel Mobile

Capturing Signatures for Calls

After you enter all of the necessary information for a call, including information about dropped samples, you capture the signature of the contact for the call. You capture this signature to verify the contact's receipt of samples. After you obtain this signature, you cannot update the dropped samples associated with it.

To capture the electronic signature for a call

1. Tap Side Menu and then tap Calls to display the following:
   - The calendar showing the call planning information in the main pane.
   - The Contacts and Accounts list in the side pane.
2. Tap a call on the calendar in the main pane to open it and display the following:
   - The details for the selected call in the main pane.
   - A list in the side pane in which you can select the related items for the call.
3. Tap Sign in the main pane.

   Information about the contact for the call and about the dropped samples for the call appears.
4. Capture the signature of the contact in the signature input box.
5. If you make a mistake when capturing the signature, do one of the following as required:
   - Tap Clear to clear the signature and start again.
   - Tap Cancel to exit the call signing process.
6. Save the record.

   You can now submit the call for processing.

Submitting a Call for Processing

After you complete all of the information for the call, and after you capture the signature for the disbursed samples, you submit the call for processing. You can submit only calls that have a Status field of Planned or Signed. At least one disbursed sample must be associated with a call before you can submit it.

You submit a call for processing to close the call. After you submit a call, you can review but not update the call. The inventory of the sales representative is decreased by the disbursed samples and disbursed promotional items for the call.

To submit a call for processing

1. Tap Side Menu and then tap Calls to display the following:
   - The calendar showing the call planning information in the main pane.
   - The Contacts and Accounts list in the side pane.
2. Tap a call on the calendar in the main pane to open it and display the following:

- The details for the selected call in the main pane.
- A list in the side pane in which you can select the related items for the call.

3. Tap Submit to submit the call for processing.

   The Status field for the call changes to Submitted. You cannot resubmit a call with a Status field value of Submitted. The call is now closed and locked.

Managing Accounts for Siebel Pharma

An *account* is a company or individual with whom your company conducts business. It represents the relationship between your company and that company or individual. You can use the Account Details screen as the primary navigation tool for your customer interactions.

The following procedures related to accounts and account management are included in this topic:

- *Displaying Account Details (Siebel Pharma)*
- *Modifying Account Information*
- *Modifying Contact Information for an Account*
- *Modifying Call Information for an Account*
- *Modifying Address Information for an Account*
- *Modifying Contact Affiliation Information for an Account*
- *Modifying Account Relationship Information for an Account*
- *Modifying Attachment Information for an Account*

Note: You must complete the relevant setup tasks detailed in *Siebel Life Sciences Guide* and *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Pharma.

Displaying Account Details

You can display account details by using the Accounts list.

To display account details

1. Tap Side Menu and then tap Accounts to display the following:
   - The Accounts list and details for the selected account in the main pane.
   - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

   All details for the selected account appear after the list in the main pane.
3. To view the related items for the selected account, tap the following names in the list in the side pane:
   - **Contacts.** Shows the contact information for the account. For more information, see *Modifying Contact Information for an Account*.

- **Calls.** Shows the call information for the account. For more information, see *Modifying Call Information for an Account*.
- **Addresses.** Shows the address information for the account. For more information, see *Modifying Address Information for an Account*.
- **Contact Affiliations.** Shows the contact affiliation information for the account. For more information, see *Modifying Contact Affiliation Information for an Account*.
- **Account Relationships.** Shows the account relationship information for the account. For more information, see *Modifying Account Relationship Information for an Account*.
- **Attachments.** Shows the attachments for the account. For more information, see *Modifying Attachment Information for an Account*.

4. To show a presentation for the selected account, tap the Detail button in the main pane. For more information, see *Showing Presentations in Siebel Mobile*.

Modifying Account Information

Complete the following procedure to modify account information.

To modify account information

1. Tap Side Menu and then tap Accounts to display the following:
   - The Accounts list and details for the selected account in the main pane.
   - A list in the side pane in which you can select the related items for accounts.
2. Update an existing account as follows:
   a. Tap an account in the Accounts list.

      All details for the selected account appear after the list in the main pane.
   b. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
3. Create a new account as follows:
   a. Tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new account in the fields that appear, and then save the record.

Modifying Contact Information for an Account

Complete the following procedure to modify the contact information for an account.

To modify the contact information for an account

1. Tap Side Menu and then tap Accounts to display the following:
   - The Accounts list and details for the selected account in the main pane.
   - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

All details for the selected account appear after the list in the main pane.

3. Update an existing account contact as follows:

    a. Tap Contacts in the list in the side pane.

    All contacts associated with the account appear in the Contacts list in the main pane.

    b. Tap the contact that you want to update.
    c. Tap the record field that you want to update, and update the field value.

    You must navigate away from the record to save your changes to it.

4. Add an existing contact to the account as follows:

    a. Tap Contacts in the list in the side pane, and then tap Add (the plus (+) icon) in the main pane.
    b. Choose the contact on the list that appears, and then tap OK.

5. Create a new account contact as follows:

    a. Tap Contacts in the list in the side pane, tap Add (the plus (+) icon) in the main pane, and then tap New (the plus (+) icon) on the list that appears.
    b. Enter the information for the new contact in the fields that appear, and then save the record.

Modifying Call Information for an Account

Complete the following procedure to modify the call information for an account. You can update only calls that are not yet submitted for processing.

To modify the call information for an account

1. Tap Side Menu and then tap Accounts to display the following:

    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.

2. Tap an account in the Accounts list.

    All details for the selected account appear after the list in the main pane.

3. Update an existing account call as follows:

    a. Tap Calls in the list in the side pane.

    All calls associated with the account appear in the Calls list in the main pane.

    b. Tap the call that you want to update.
    c. Tap the record field that you want to update, and update the field value.

    You must navigate away from the record to save your changes to it.

4. Create a new account call as follows:

    a. Tap Calls in the list in the side pane, and then tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new call in the fields that appear, and then save the record.

    The following table describes the fields.

Field Name	Description
Account	Displays the account associated with the call.
Address	Displays the primary address for the account. To select a different address, tap the Address field, and select the address from the list that appears.
Type	Select the type of call.
Start Date	Select the start date and time of the call.
Call Duration	Select the number of minutes for the call duration.
Comment	Type any necessary comment about the call.

Modifying Address Information for an Account

Complete the following procedure to modify the address information for an account.

To modify the address information for an account

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

    All details for the selected account appear after the list in the main pane.
3. Update an existing account address as follows:
    a. Tap Addresses in the list in the side pane.

        All addresses associated with the account appear in the Addresses list in the main pane.
    b. Tap the address that you want to update.
    c. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
4. Add an existing address to the account as follows:
    a. Tap Addresses in the list in the side pane, and then tap Add (the plus (+) icon) in the main pane.
    b. Choose the address on the list that appears, and then tap OK.

Note: In the case of child views where records are being associated, you can associate only a downloaded address with a selected account in offline mode.

5. Create a new account address as follows:
   a. Tap Addresses in the list in the side pane, tap Add (the plus (+) icon) in the main pane, and then tap New (the plus (+) icon) on the list that appears.
   b. Enter the information for the new address in the fields that appear, and then save the record.

Note: Creating new records on this screen is supported only in online mode.

Modifying Contact Affiliation Information for an Account

Complete the following procedure to modify the contact affiliation information for an account. You can also affiliate accounts with a contact. For more information, see *Modifying Account Affiliation Information for a Contact*.

To modify the contact affiliation information for an account

1. Tap Side Menu and then tap Accounts to display the following:
   - The Accounts list and details for the selected account in the main pane.
   - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

   All details for the selected account appear after the list in the main pane.
3. Update an existing contact affiliation as follows:
   a. Tap Affiliations in the list in the side pane.

      All affiliations associated with the account appear in the Affiliations list in the main pane.
   b. Tap the affiliation that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Create a new contact affiliation as follows:
   a. Tap Affiliations in the list in the side pane, and then tap New (the plus (+) icon).
   b. Enter the information for the new affiliation in the fields that appear, and then save the record.

      The following table describes the fields. Note that when you create a new or delete an existing contact affiliation, that contact appears on or is removed from the list of contacts associated with the account.

Field Name	Description
Last Name	Select the contact.
First Name	Displays the first name of the contact that you select.

Field Name	Description
Start Date	Select the start date that the contact is affiliated with the account.
Primary Specialty	Type the primary speciality for the contact.
Email	Displays the email address of the contact that you select.
Direct	Select this check box to route the profile data for the contact to all members of the account team. Clear this check box to route the profile data for the contact only to members of the account team who are assigned to the contact.

Modifying Account Relationship Information for an Account

Complete the following procedures to modify the account relationship information for an account. This information denotes the relationship between the account and another account.

To modify the account relationship information for an account

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

    All details for the selected account appear after the list in the main pane.
3. Update an existing account relationship as follows:
    a. Tap Relationships in the list in the side pane.

        All relationships associated with the account appear in the Relationships list in the main pane.
    b. Tap the relationship that you want to update.
    c. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
4. Create a new account relationship as follows:
    a. Tap Relationships in the list in the side pane, and then tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new relationship in the fields that appear, and save the record.

        The following table describes the fields.

Field Name	Description
This Account	Displays this account.
Other Account	Select an account to associate with this account.
Relationship	Select the relationship that the other account has with this account.
Site	Displays the site for the other account that you select.

Modifying Attachment Information for an Account

The attachment feature in the Siebel Mobile application for Siebel Pharma allows you to associate an attachment with individual account records. The following procedure shows you how to modify the attachment information for an account, including how to attach files (such as, Microsoft Outlook email messages, Microsoft Word documents, image files, and videos) and URL addresses to account records using the New File and New URL links respectively. Note the following:

- With iOS devices (such as iPad), you can only attach files from the gallery or by using the camera on the mobile device to take a photo or record a video.
- With non-iOS devices (such as Samsung Galaxy tablets), you can choose to attach files using applications such as Bluetooth file transfer or the file browser, provided that Siebel Mobile has been integrated with the file system on the mobile device. If the mobile application is not integrated with the file system on your mobile device, then you will not be able to upload and download attachment files. For more information, see *Overview of Siebel Mobile Integration with Native Device Features*.

Note: The attachment functionality is supported in both online and offline mode. In offline mode, attachments are supported only when customers install the Siebel app or use the Siebel Mobile Archive MAA file to create and deploy a customized Siebel Mobile Application Container for iOS and Android devices. For more information, see *Downloading and Installing the Siebel App*.

To modify the attachment information (file or URL) for an account

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

    All details for the selected account appear after the list in the main pane.
3. Update an existing attachment (file or URL) as follows:
    a. Tap Attachment in the list in the side pane.

All attachments associated with the account appear in the Attachments list in the main pane.

b. Tap the attachment that you want to update.
c. Tap the record field that you want to update, and update the field value.

You must navigate away from the record to save your changes to it.

4. If using an iOS device (such as iPad), then attach files and open attachment files as follows:
   a. To attach an existing file from the gallery:
      - Tap Attachment in the list in the side pane, and then tap the New File button.
      - Tap Choose Existing, select an existing file to attach to the record, and then tap OK.
   b. To attach a new photo or video:
      - Tap Attachment in the list in the side pane, and then tap the New File button.
      - Tap Take Photo or Video, take an instant photo or record an instant video and then tap OK to attach the photo or video to the record.
   c. To open an attachment file in a new window, tap the attachment name link.
5. If using a non-iOS device (such as Samsung Galaxy tablet), then attach files and open attachment files as follows:
   a. To upload a new attachment file to Siebel Server from a mobile device:
      - Tap Attachment in the list in the side pane, and then tap the New File button.
      - Browse to and select the file that you want to upload, and then tap OK.
   b. To download an attachment file from Siebel Server to a mobile device:
      - Tap Attachment in the list in the side pane, and then tap the down arrow next to the attachment name in the main pane.
      - Tap Download. The attachment is saved to the Downloads folder on the mobile device.
   c. To open an attachment file, tap the down arrow next to the attachment name and then tap Open.

   The attachment opens in a new window.
6. Attach a new URL address as follows:
   a. Tap Attachment in the list in the side pane, and then tap the New URL button.
   b. Type the URL address in the URL field, and then tap Add.
   c. To navigate to an existing URL address, tap the URL attachment name link.

Managing Contacts for Siebel Pharma

A *contact* is an individual with whom your company conducts business or expects to conduct business in the future. It can be an employee of another company, an independent consultant, a vendor, or an acquaintance.

The following procedures related to contacts and contact management are included in this topic:

- *Displaying Contact Details (Siebel Pharma)*
- *Modifying Contact Information*
- *Modifying Call Information for a Contact*

- *Modifying Address Information for a Contact*
- *Modifying Best Time Information for a Contact*
- *Modifying State License Information for a Contact*
- *Modifying Account Affiliation Information for a Contact*
- *Modifying Contact Relationship Information for a Contact*
- *Modifying Attachment Information for a Contact*

Note: You must complete the relevant setup tasks detailed in *Siebel Life Sciences Guide* and *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Pharma.

Displaying Contact Details

You can display contact details by using the Contacts list.

To display contact details

1. Tap Side Menu and then tap Contacts to display the following:
    - The Contacts list and details for the selected contact in the main pane.
    - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

    All details for the selected contact appear after the list in the main pane.
3. To view the related items for the selected contact, tap the following names in the list in the side pane:
    - **Calls.** Shows the calls for the contact. For more information, see *Modifying Call Information for a Contact*.
    - **Addresses.** Shows the address information for the contact. For more information, see *Modifying Address Information for a Contact*.
    - **Best Times.** Shows the best-time-to-call information for the contact. For more information, see *Modifying Best Time Information for a Contact*.
    - **State Licenses.** Shows the state license information for the contact. For more information, see *Modifying State License Information for a Contact*.
    - **Account Affiliations.** Shows the account affiliation information for the contact. For more information, see *Modifying Account Affiliation Information for a Contact*.
    - **Contact Relationships.** Shows the contact relationship information for the contact. For more information, see *Modifying Contact Relationship Information for a Contact*.
    - **Attachments.** Shows the attachments for the account. For more information, see *Modifying Attachment Information for a Contact*.
4. To show a presentation for the selected contact, tap the Detail button in the main pane. For more information, see *Showing Presentations in Siebel Mobile*.

Modifying Contact Information

Complete the following procedure to modify contact information.

To modify contact information

1. Tap Side Menu and then tap Contacts to display the following:
    - The Contacts list and details for the selected contact in the main pane.
    - A list in the side pane in which you can select the related items for contacts.
2. Update an existing contact as follows:
    a. Tap a contact in the Contacts list.

    All details for the selected contact appear after the list in the main pane.
    b. Tap the record field that you want to update, and update the field value.

    You must navigate away from the record to save your changes to it.
3. Create a new contact as follows:
    a. Tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new contact in the fields that appear, and then save the record.

Modifying Call Information for a Contact

Complete the following procedure to modify the call information for a contact. You can update only calls that are not yet submitted for processing.

To modify the call information for a contact

1. Tap Side Menu and then tap Contacts to display the following:
    - The Contacts list and details for the selected contact in the main pane.
    - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

    All details for the selected contact appear after the list in the main pane.
3. Update an existing contact call as follows:
    a. Tap Calls in the list in the side pane.

    All calls associated with the contact appear in the Calls list in the main pane.
    b. Tap the call that you want to update.
    c. Tap the record field that you want to update, and update the field value.

    You must navigate away from the record to save your changes to it.
4. Create a new contact call as follows:
    a. Tap Calls in the list in the side pane, and then tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new call in the fields that appear, and then save the record.

    The following table describes the fields.

Field Name	Description
Name	Displays the contact associated with the call.
Address	Displays the primary address for the contact. To select a different address, tap the Address field, and select the address from the list that appears.
Type	Select the type of call.
Start Date	Select the start date and time of the call.
Call Duration	Select the number of minutes for the call duration.
Comment	Type any necessary comment about the call.

Modifying Address Information for a Contact

Complete the following procedure to modify the address information for a contact.

To modify the address information for a contact

1. Tap Side Menu and then tap Contacts to display the following:
    - The Contacts list and details for the selected call in the main pane.
    - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

    All details for the selected contact appear after the list in the main pane.
3. Update an existing contact address as follows:
    a. Tap Addresses in the list in the side pane.

        All addresses associated with the contact appear in the Addresses list in the main pane.
    b. Tap the address that you want to update.
    c. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
4. Add an existing address to the contact as follows:
    a. Tap Addresses in the list in the side pane, and then tap Add (the plus (+) icon) in the main pane.
    b. Choose the address on the list that appears, and then tap OK.

> **Note:** In the case of child views where records are being associated, you can associate only a downloaded address with a selected contact in offline mode.

5. Create a new contact address as follows:
   a. Tap Addresses in the list in the side pane, tap Add (the plus (+) icon) in the main pane, and then tap New (the plus (+) icon) on the list that appears.
   b. Enter the information for the new address in the fields that appear, and then save the record.

> **Note:** Creating new records on this screen is supported only in online mode.

Modifying Best Time Information for a Contact

Complete the following procedure to modify the best-time-to-call information for a contact. This information typically applies to a contact who is a physician or another health-care provider. It is associated with an address for the contact.

> **Note:** The best-time slot for a contact does not extend after 12:00 P.M. for a specific day. For example, if you create a best-time slot for a contact from 9:00 to 11:00 P.M, and if you change it to start at 11:00 P.M, then the extended slot does not extend to the next day. The extended slot starts at 11:00 P.M. and ends at 12:00 P.M, and not at 1:00 A.M. on the next day.

To modify the best time information for a contact

1. Tap Side Menu and then tap Contacts to display the following:
   - The Contacts list and details for the selected contact in the main pane.
   - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

   All details for the selected contact appear after the list in the main pane.
3. Update an existing contact best-time as follows:
   a. Tap Best Times in the list in the side pane.

      All best times associated with the contact appear in the Best Times list in the main pane.
   b. Tap the best time that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Create a new contact best-time as follows:
   a. Tap Best Times in the list in the side pane, and then tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new best time in the fields that appear, and then save the record.

Modifying State License Information for a Contact

Complete the following procedure to modify the state license information for a contact. This information typically applies to a contact who is a physician or another health-care provider.

To modify the state license information for a contact

1. Tap Side Menu and then tap Contacts to display the following:
    - The Contacts list and details for the selected contact in the main pane.
    - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

    All details for the selected contact appear after the list in the main pane.
3. Update an existing contact state license as follows:

    a. Tap State Licenses in the list in the side pane.

    All state licenses associated with the contact appear in the Licenses list in the main pane.

    b. Tap the state license that you want to update.

    c. Tap the record field that you want to update, and update the field value.

    You must navigate away from the record to save your changes to it.
4. Create a new contact state license as follows:

    a. Tap State Licences in the list in the side pane, and then tap New (the plus (+) icon) in the main pane.

    b. Enter the information for the new state license in the fields that appear, and then save the record.

    The following table describes the fields.

Field Name	Description
State	Select the state or jurisdiction in the United States associated with the license number. If the jurisdiction is not in the United States, then this field is not required.
License Number	Type the license number.
Status	Select the status of the license, which can be Active or Inactive.
Expiry Date	Select the date when the license expires.

Modifying Account Affiliation Information for a Contact

Complete the following procedure to modify the account affiliation information for a contact. You can set up such an affiliation for call-reporting purposes. You can also affiliate contacts with an account. For more information, see *Modifying Contact Affiliation Information for an Account*.

To modify the account affiliation information for a contact

1. Tap Side Menu and then tap Contacts to display the following:
   - The Contacts list and details for the selected contact in the main pane.
   - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.
   All details for the selected contact appear after the list in the main pane.
3. Update an existing account affiliation as follows:
   a. Tap Affiliations in the list in the side pane.
      All affiliations associated with the contact appear in the Affiliations list in the main pane.
   b. Tap the affiliation that you want to update.
   c. Tap the record field that you want to update, and update the field value.
      You must navigate away from the record to save your changes to it.
4. Create a new account affiliation as follows:
   a. Tap Affiliations in the list in the side pane, and then tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new affiliation in the fields that appear, and then save the record.
      The following table describes the fields.

Field Name	Description
Account	Select the account.
Account Type	Displays
Site	Displays the site for the account that you select.
Start Date	Select the start date that the account is affiliated with the contact.
End Date	Select the end date that the account is affiliated with the contact.
Comments	Type any necessary comments for the affiliated account.

Modifying Contact Relationship Information for a Contact

Complete the following procedure to modify the contact relationship information for a contact. This information denotes the relationship or role that exists between the contact and another contact.

To modify the contact relationship information for a contact

1. Tap Side Menu and then tap Contacts to display the following:
    - The Contacts list and details for the selected contact in the main pane.
    - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

    All details for the selected contact appear after the list in the main pane.
3. Update an existing contact relationship as follows:
    a. Tap Relationships in the list in the side pane.

        All relationships associated with the contact appear in the Relationships list in the main pane.
    b. Tap the relationship that you want to update.
    c. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
4. Add a contact relationship as follows:
    a. Tap Relationships in the list in the side pane, and then tap New (the plus (+) icon) in the main pane.
    b. Choose the contact on the list that appears, and then tap OK.
    c. Tap the Relationship Type field, update the field value, and then save the record when finished.

Modifying Attachment Information for a Contact

The attachment feature in the Siebel Mobile application for Siebel Pharma allows you to associate an attachment with individual contact records. The following procedure shows you how to modify the attachment information for a contact, including how to attach files (such as, Microsoft Outlook email messages, Microsoft Word documents, image files, and videos) and URL addresses to contact records using the New File and New URL links respectively. Note the following:

- With iOS devices (such as iPad), you can only attach files from the gallery or by using the camera on the mobile device to take a photo or record a video.
- With non-iOS devices (such as Samsung Galaxy tablets), you can choose to attach files using applications such as Bluetooth file transfer or the file browser, provided that Siebel Mobile has been integrated with the file system on the mobile device. If the mobile application is not integrated with the file system on your mobile device, then you will not be able to upload and download attachment files. For more information, see *Overview of Siebel Mobile Integration with Native Device Features*.

Note: The attachment functionality is supported in both online and offline mode. In offline mode, attachments are supported only when customers install the Siebel app or use the Siebel Mobile Archive MAA file to create and deploy a customized Siebel Mobile Application Container (Siebel app) for iOS and Android devices. For more information, see *Downloading and Installing the Siebel App*.

To modify the attachment information (file or URL) for a contact

1. Tap Side Menu and then tap Contacts to display the following:
    - The Contacts list and details for the selected contact in the main pane.
    - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

    All details for the selected contact appear after the list in the main pane.
3. Update an existing attachment (file or URL) as follows:
    a. Tap Attachment in the list in the side pane.

        All attachments associated with the contact appear in the Attachments list in the main pane.
    b. Tap the attachment that you want to update in the main pane.
    c. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
4. If using an iOS device (iPad), then attach files and open attachment files as follows:
    a. To attach an existing file from the gallery:
        - Tap Attachment in the list in the side pane, and then tap New File in the main pane.
        - Tap Choose Existing, select an existing file to attach to the record, and then tap OK.
    b. To attach a new photo or video:
        - Tap Attachment in the list in the side pane, and then tap New File in the main pane.
        - Tap Take Photo or Video, take an instant photo or record an instant video and then tap OK to attach the photo or video to the record.
    c. To open an attachment file, tap the attachment name link.

        The attachment opens in a new window.
5. If using a non-iOS device (Samsung Galaxy tablet), then attach files and open attachment files as follows:
    a. To upload a new attachment file to Siebel Server from a mobile device:
        - Tap Attachment in the list in the side pane, and then tap New File in the main pane.
        - Browse to and select the file that you want to upload, and then tap OK.
    b. To download an attachment file from Siebel Server to a mobile device:
        - Tap Attachment in the list in the side pane, and then tap the down arrow next to the attachment name.
        - Tap Download. The attachment is saved to the Downloads folder on the mobile device.
    c. To open an attachment file, tap the down arrow next to the attachment name and then tap Open.

        The attachment opens in a new window.

6. Attach a new URL address as follows:
    a. Tap Attachment in the list in the side pane, and then tap New URL in the main pane.
    b. Type the URL address in the URL field, and then tap Add.
    c. To navigate to an existing URL address, tap the URL attachment name link.

Managing Messaging Plans

A *messaging plan* is a presentation that consists of a specific sequence of content. A messaging plan can be made up of a number of presentation or messaging plan items (slides), which in turn can have a number of related messages (also slides).

The following procedures are related to messaging plans and presentation management:

- *Displaying Messaging Plan Details*
- *Using the PCD Viewer in Siebel Mobile*

Displaying Messaging Plan Details

You can display messaging plan (presentation) details by using the Messaging Plans list.

To display messaging details

1. Tap Side Menu on the application banner, and then tap Messaging Plans.

   The Messaging Plan list appears in the main pane.
2. Tap a messaging plan in the Messaging Plan list.

   All details for the selected messaging plan appear after the list in the main pane.
3. Tap the Detail button in the main pane.

   The messaging plan preview page that opens contains the following information:

   - A list of all accessible messaging plans (presentations), which are released and unexpired, appears at the start of the page.
   - The messaging plan items (presentation items or slides), which are associated with the selected messaging plan, appear next in thumbnail format.

     Tap the Related label for a messaging plan item to show the related messages for that item (if there are any).
   - For more information about the Launch, Generate (for connected applications only) and Related buttons on the messaging plan preview page, see *Showing Presentations in Siebel Mobile*.
   - Tap Exit to return to the Messaging Plan list page.
4. Drill down on the messaging plan link name in the Name field.

   All presentation items followed by the related messages associated with the selected messaging plan appear in main pane after the messaging plan details.

Using the PCD Viewer in Siebel Mobile

The Personalized Content Delivery Viewer is available in Siebel Pharma and by default for Calls, Accounts, Contacts, and Messaging Plans in the Siebel Mobile application for Siebel Pharma. In the Siebel Mobile application for Siebel Pharma, you must start the viewer by selecting the Detail button. However, you can use the PCD Viewer on any other applet in the mobile application provided that you configure the Detail button for the applet. For more information about configuring the Detail button for applets in general in Siebel Mobile, see the topic about configuring interactive detailing in *Configuring Siebel Open UI* .

You use the PCD Viewer in Siebel Mobile and Siebel CRM to deliver personalized content to customers, to present information about products to customers, and to obtain feedback from customers about product presentations and personalized content delivered.

> **Note:** For Siebel Mobile, the PCD Viewer is supported only if using the Siebel Mobile Archive MAA file to create and deploy a customized Siebel app for iOS or Android devices. The Detail button will be enabled and available in the Siebel Mobile Application Container (Siebel app) only. The Detail button will be unavailable and disabled in the browser. For more information about the Siebel Mobile Application Container, see *Downloading and Installing the Siebel App*.

Before using the PCD Viewer in Siebel Mobile, do the following:

- Plan for presentation delivery by reviewing the available messaging plans and any existing call presentation information. For more information, see *Managing Messaging Plans* and *Viewing Presentation Detail Information for a Call*.
- Create appropriate literature records in Siebel CRM.
- Associate literature with messaging plans in Siebel CRM.
- Define access to, release, and revise messaging plans in Siebel CRM.
- Configure the server location where you want to store messaging plan contents (presentation items, related messages, and HTML ZIP files). For more information, see *Setting the Server Uncompression Location*.

  > **Note:** This task applies only if using Siebel Mobile in online mode.

To deliver a presentation in Siebel Mobile using the PCD Viewer, see the following topics:

- *Showing Presentations in Siebel Mobile*
- *Recording Responses to Presentations in Siebel Mobile*

For more information about using personalized content delivery in Siebel CRM, see *Siebel Life Sciences Guide* .

Showing Presentations in Siebel Mobile

You use the Detail button in the Siebel Mobile application for Siebel Pharma to present interactive, promotional content to customers. The Detail button is available for Calls, Accounts, Contacts, and Messaging Plans. The following procedure shows you how to deliver personalized content and presentations to customers.

To show presentations in Siebel Mobile

1. Navigate to one of the following views:

- **Call Details view.** Tap Side Menu, tap Calls, and then drill down on a call in the calendar in the main pane. For more information, see *Displaying Call Details (Siebel Pharma)*.
- **Account Details view.** Tap Side Menu, tap Accounts, and then select an account in the Accounts list in the main pane. For more information, see *Displaying Account Details (Siebel Pharma)*.
- **Contact Details view.** Tap Side Menu, tap Contacts, and then select a contact in the Contacts list in the main pane. For more information, see *Displaying Contact Details (Siebel Pharma)*.
- **Messaging Plans view.** Tap Side Menu, tap Messaging Plans, and then select a messaging plan in the Messaging Plans list in the main pane. For more information, see *Displaying Messaging Plan Details*.

2. Tap the Detail button in the main pane.

   The messaging plan preview page that opens contains the following information:

   a. A list of all accessible messaging plans (presentations), which are released and unexpired, appears at the start of the page.
   b. The messaging plan items (presentation items or slides), which are associated with the selected messaging plan, appear next in thumbnail format.

      Tap the Related label for a messaging plan item to show the related messages for that item (if there are any).
   c. If you can see the list of accessible messaging plans but only blank thumbnails, then tap Generate to uncompress the messaging plan. After the messaging plan has been successfully uncompressed, you can view and access all messaging plan items (in thumbnail format) and related messages.
   d. For the Generate link to work properly and uncompress the messaging plan to a suitable server location, the Server Uncompression Location system preference must be set first. For more information, see *Setting the Server Uncompression Location*.

   Note: Step 2c and 2d apply only to Siebel Mobile connected (online) applications.

3. Tap the messaging plan that you want to show, and then tap Launch to start the presentation.

   The messaging plan opens in the PCD Viewer.

   If Enable Direct Launch is set for messaging plans in Siebel CRM, then you can also tap any messaging plan item followed by Launch to start the presentation. In this case, the messaging plan item opens in full-screen mode in the PCD Viewer. To see any preceding items in the presentation, navigate back to them as needed.

4. Navigate the presentation as follows:

   a. Use the Next and Previous arrows to scroll through the presentation.
   b. Tap anywhere at the end of the screen to activate a footer navigation bar showing the messaging plan items in thumbnail image format. Then do the following as required:

      - Tap any thumbnail image to open and show the selected messaging plan item in full-screen mode.
      - Use the Next and Previous arrows to scroll through the thumbnail images.

   c. Tap anywhere at the start of the screen to activate the header navigation bar. The following options are available on the header navigation bar:

      - **Done.** Tap when finished showing the presentation to go to the Feedback page. For more information, see *Recording Responses to Presentations in Siebel Mobile*.
      - **Exit.** Tap to cancel the presentation session and exit the PCD Viewer.
      - **Full.** Tap to show the presentation in full screen mode.

- **Contacts.** Tap to show the contacts that are attending the presentation, tap Add to add more contacts if additional contacts join the presentation, and then tap Player to return to and continue with the presentation session in the PCD Viewer.

  A contact call is created after you suspend response logging or submit the responses logged for any contact that joins the presentation during the presentation session. At least one contact is necessary to submit the presentation feedback. For more information, see *Recording Responses to Presentations in Siebel Mobile*.
- **Related.** Tap to go to and preview a slide's related messaging plan items. Tap Player in the header navigation bar to return to the main slide.

Recording Responses to Presentations in Siebel Mobile

You use the Detail button in the Siebel Mobile application for Siebel Pharma to present interactive, promotional content or presentations to customers and then to capture the customer responses to that presentation content. When you have finished showing a presentation by tapping Done in the header navigation bar, the Feedback page opens showing a summary of the presented material in thumbnail format and the time (in seconds) spent on each slide. On the Feedback page, you can capture the customer responses to the presentation content using the star rating control.

To record responses to presentations during a call

1. Tap Done when you have finished showing the presentation.

   The Feedback page opens showing the list of contacts who attended the presentation session. For each selected contact, a summary of the content that was presented including the time (in seconds) spent on each presentation item appears after the Contact list in thumbnail format. For more information about showing presentations, see *Showing Presentations in Siebel Mobile*.
2. Capture the customer rating for each presentation item as follows:

   a. Tap the appropriate number of stars after each presentation item as required.

      The significance of each star rating is as follows:

      - One star indicates Rejected.
      - Two stars indicates Not Interested.
      - Three stars indicates Need Data.
      - Four stars indicates Continue Discussion.
      - Five stars indicates Accepted.
      - No stars indicates No Feedback.

      The last option (no stars indicating no feedback) is allowed only if the Disable Response check box is selected (False) for the messaging plan in Siebel CRM, making the logging of customer feedback to presentations optional.

      If the Disable Response check box is not selected (True) for the messaging plan in Siebel CRM, then response ratings must be logged for all presentation items before you will be allowed to submit the presentation feedback. For more information about creating messaging plans in Siebel CRM, see *Siebel Life Sciences Guide* .

      If the following message appears, then you cannot proceed until you provide a rating for each presentation item: `Rating is a must.`

The feedback rating that is captured for each presentation item applies for all account and contact call attendees. If required, capture the individual ratings for each attendee on a contact call as shown in the following step.

b. For contact calls, capture the individual ratings for each attendee on the call as follows:

   - Tap a contact in the Contact list.
   - For each presentation item, tap or swipe the flip switch to either Yes or No.

     Yes indicates that you want to record an individual rating for the contact on the presentation item. No indicates that you do not want to record an individual rating for the contact on the presentation item because the contact joined the presentation session after the presentation started and was not present when the presentation item was shown.
   - Tap the appropriate number of stars after each presentation item where the flip switch is set to Yes. The significance of each star is shown in the previous substep.

   For account calls, you cannot capture the individual ratings for attendees.

c. If required tap Suspend to save all response ratings logged so far and exit the PCD Viewer.

   A contact call is created after you suspend the response logging for any contact that joined the presentation during the presentation session. At a later time, you can return to the respective contact call that was created when you selected Suspend to finish providing feedback or modify the existing feedback as required.

d. Tap Submit when you have recorded all feedback.

   The response ratings are logged under the Presentation Details related item for the call. For more information, see *Viewing Presentation Detail Information for a Call*.

   A record for the product associated with the messaging plan is also created under Products Detailed for the call. For more information, see *Modifying Product Details for a Call*.

   After you submit the presentation feedback, all feedback-related account and contact call records are editable until the respective call is submitted. For attendee calls, however, all feedback-related records are locked after you submit the presentation feedback. At least one contact is necessary to submit the presentation feedback.

Setting the Server Uncompression Location

Note: This task applies only if using Siebel Mobile in online mode.

The following procedure shows you how to set the Server Uncompression Location system preference in Siebel CRM. You must set this system preference so that when you select Generate in Siebel Mobile, the messaging plan contents will be uncompressed to the location specified by the Server Uncompression Location system preference.

To set the server uncompression location

1. Log in to the Siebel business application
2. Navigate to the Administration - Application screen, then the System Preference view.
3. Query for the Server Uncompression Location system preference.
4. Enter the server location path where you want uncompression to happen.

The path for decompressed files is `filesystem/assets`.

Note: Before redeploying the siebel.war file or restarting tomcat server, it is recommended that you back up the files in `AI_INSTALL\applicationcontainer_external\siebelwebroot\files` and manually replace them after redeploying the siebel.war file.

Task Flows for Siebel Pharma

The Siebel Pharma task flows that sales representatives typically carry out are divided into the following areas:

- *Planning and Preparing for Customer Calls*
- *Conducting Customer Calls*

Planning and Preparing for Customer Calls

Sales representatives typically perform the following tasks when planning and preparing for customer calls:

- Check the appointments and review the route for the day. For more information, see *Viewing Call Planning Information* and *Displaying Location Details in Siebel Mobile*.
- Review the notifications list. For more information, see *Reviewing Notification Messages in Siebel Mobile*.
- Prepare for contact calls and perform precall planning tasks (such as, reviewing the associated contact relationships and the best call times for the contact) as follows:
    - Review, modify, and create new contacts as required. For more information, see the following:
        - *Displaying Contact Details (Siebel Pharma)*
        - *Modifying Contact Information*
    - Review, modify, and create new contact calls as required. For more information, see *Modifying Call Information for a Contact*.
    - Review and modify as required the contact's associated addresses, best call times, state license, affiliated accounts, contact relationships, and attachments. For more information, see the following:
        - *Modifying Address Information for a Contact*
        - *Modifying Best Time Information for a Contact*
        - *Modifying State License Information for a Contact*
        - *Modifying Account Affiliation Information for a Contact*
        - *Modifying Contact Relationship Information for a Contact*
        - *Modifying Attachment Information for a Contact*
- Prepare for account calls and perform precall planning tasks (such as, reviewing the associated account relationships) as follows:
    - Review, modify, and create new accounts as required. For more information, see the following:
        - *Displaying Account Details (Siebel Pharma)*
        - *Modifying Account Information*
    - Review, modify, and create new account calls as required. For more information, see *Modifying Call Information for an Account*.

    - Review and modify as required the account's associated contacts, addresses, affiliated contacts, account relationships, and attachments. For more information, see the following:
        - *Modifying Contact Information for an Account*
        - *Modifying Address Information for an Account*
        - *Modifying Contact Affiliation Information for an Account*
        - *Modifying Account Relationship Information for an Account*
        - *Modifying Attachment Information for an Account*

Conducting Customer Calls

Sales representatives typically perform the following tasks when conducting customer calls:

- Review, modify, and create new calls as required. For more information, see the following:
    - *Modifying Attendee Information for a Call*
    - *Displaying Call Details (Siebel Pharma)*
    - *Modifying Call Information*
- Review and modify as required the call's associated attendees, promotional items, samples, product details, literature, and presentation detail information. For more information, see the following:
    - *Modifying Attendee Information for a Call*
    - *Modifying Promotional Items for a Call*
    - *Modifying Samples for a Call*
    - *Modifying Product Details for a Call*
    - *Adding Literature Information to a Call*
    - *Viewing Presentation Detail Information for a Call*
- Deliver personalized content and presentations to customers and capture feedback as required. For more information, see *Using the PCD Viewer in Siebel Mobile*.
- Record signatures for calls. For more information, see *Capturing Signatures for Calls*.
- Submit calls for processing. For more information, see *Submitting a Call for Processing*.
- Review the validation results for a call as required to determine any errors in the call data. For more information, see *Managing Accounts for Siebel Pharma*.

Unsupported Siebel Pharma Features in Offline Mode

The features listed in this topic are not supported in offline mode in the Siebel Mobile disconnected application for Siebel Pharma. You must be connected to the Internet and, in some cases, to the Siebel Server to do the following in your Siebel Mobile disconnected application for Siebel Pharma:

- Use the search filter for the affiliated contacts (when adding Attendees)

  For more information, see *Modifying Attendee Information for a Call*.

- Directly create new address records for accounts or contacts

  In the case of child views where records are being associated, you can associate only a downloaded address with a selected account or contact in offline mode. For more information, see *Modifying Address Information for an Account* and *Modifying Address Information for a Contact*

For more information about the general features that are not supported in offline mode, see *Unsupported Siebel Mobile Features in Offline Mode*.

11 Siebel Mobile Application for Siebel Sales

Using the Siebel Mobile Application for Siebel Sales

This chapter describes the tasks that a user of the Siebel Mobile application for Siebel Sales can run in online (connected) and offline (disconnected) mode. Tasks and features that are not supported in offline mode are listed. It includes the following topics:

- *Managing Accounts for Siebel Sales*
- *Managing Contacts for Siebel Sales*
- *Managing Leads for Siebel Sales*
- *Managing Opportunities for Siebel Sales*
- *Managing Quotes for Siebel Sales*
- *Managing Orders for Siebel Sales*
- *Managing Activities for Siebel Sales*
- *Unsupported Siebel Sales Features in Offline Mode*

Note: The procedures in this chapter assume that inline editing is configured for Siebel Mobile. If inline editing is not configured, then pencil icons appear in the user interface. You can tap these icons to edit information. For more information, see *Inline Editing*.

Managing Accounts for Siebel Sales

An *account* is a company or individual with whom your company conducts business. It represents the relationship between your company and that company or individual. You can use the Account Details screen as the primary navigation tool for your customer interactions.

The following procedures related to accounts and account management are included in this topic:

- *Displaying Account Details (Siebel Sales)*
- *Modifying Account Information*
- *Modifying Contact Information for an Account*
- *Modifying Opportunity Information for an Account*
- *Modifying Address Information for an Account*
- *Modifying Activity Information for an Account*
- *Modifying Account Team Information for an Account*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Sales.

Displaying Account Details

You can display account details by using the Accounts list.

To display account details

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

   All details for the selected account appear after the list in the main pane.
3. To view the related items for the selected account, tap the following names in the list in the side pane:
    - **Contacts.** Shows the contact information for the account. For more information, see *Modifying Contact Information for an Account*.
    - **Opportunities.** Shows the opportunity information for the account. For more information, see *Modifying Opportunity Information for an Account*.
    - **Addresses.** Shows the address information for the account. For more information, see *Modifying Address Information for an Account*.
    - **Activities.** Shows the activity information for the account. For more information, see *Modifying Activity Information for an Account*.
    - **Account Team.** Shows the account team information for the account. For more information, see *Modifying Account Team Information for an Account*.

Modifying Account Information

Complete the following procedure to modify account information.

To modify account information

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.
2. Update an existing account as follows:
    a. Tap an account in the Accounts list.

       All details for the selected account appear after the list in the main pane.
    b. Tap the record field that you want to update, and update the field value.

       You must navigate away from the record to save your changes to it.
3. Create a new account as follows:
    a. Tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new account in the fields that appear, and then save the record.

Modifying Contact Information for an Account

Complete the following procedure to modify the contact information for an account.

To modify the contact information for an account

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

    All details for the selected account appear after the list in the main pane.
3. Update an existing account contact as follows:
    a. Tap Contacts in the list in the side pane.

        All contacts associated with the account appear in the Contacts list in the main pane.
    b. Tap the contact that you want to update.
    c. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
4. Add an existing contact to the account as follows:
    a. Tap Contacts in the list in the side pane, and then tap Add (the plus (+) icon) in the main pane.
    b. Choose the contact on the list that appears, and then tap OK.

    > **Note:** In the case of child views where records are being associated, you can associate only a downloaded contact with a selected account in offline mode.

5. Create a new account contact as follows:
    a. Tap Contacts in the list in the side pane and then tap New (the double plus (++) icon) in the main pane.
    b. Enter the information for the new contact in the fields that appear, and then save the record.

    > **Note:** Creating new records on this screen is supported only in online mode.

Modifying Opportunity Information for an Account

Complete the following procedure to modify the opportunity information for an account.

To modify the opportunity information for an account

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.

2. Tap an account in the Accounts list.

   All details for the selected account appear after the list in the main pane.
3. Update an existing account opportunity as follows:
   a. Tap Opportunities in the list in the side pane.

      All opportunities associated with the account appear in the Opportunities list in the main pane.
   b. Tap the opportunity that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Create a new account opportunity as follows:
   a. Tap Opportunities in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
   b. Enter the information for the new opportunity in the fields that appear, and then save the record.

Modifying Address Information for an Account

Complete the following procedure to modify the address information for an account.

To modify the address information for an account

1. Tap Side Menu and then tap Accounts to display the following:
   - The Accounts list and details for the selected account in the main pane.
   - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

   All details for the selected account appear after the list in the main pane.
3. Update an existing account address as follows:
   a. Tap Addresses in the list in the side pane.

      All addresses associated with the account appear in the Addresses list in the main pane.
   b. Tap the address that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Add an existing address to the account as follows:
   a. Tap Addresses in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
   b. Choose the Address on the list that appears, and then tap OK.

   > **Note:** In the case of child views where records are being associated, you can associate only a downloaded address with a selected account in offline mode.

5. Create a new account address as follows:
   a. Tap Addresses in the list in the side pane and then tap New (the double plus (++) icon) in the main pane.
   b. Enter the information for the new address in the fields that appear, and then save the record.

Note: Creating new records on this screen is supported only in online mode.

Modifying Activity Information for an Account

Complete the following procedure to modify the activity information for an account.

To modify the activity information for an account

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

   All details for the selected account appear after the list in the main pane.
3. Update an existing account activity as follows:
    a. Tap Activities in the list in the side pane.

       All activities associated with the account appear in the Activities list in the main pane.
    b. Tap the activity that you want to update.
    c. Tap the record field that you want to update, and update the field value.

       You must navigate away from the record to save your changes to it.
4. Create a new account activity as follows:
    a. Tap Activities in the list in the side pane then tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new activity in the fields that appear, and then save the record.

Modifying Account Team Information for an Account

Complete the following procedure to modify the account team information for an account.

To modify the account team information for an account

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list and details for the selected account in the main pane.
    - A list in the side pane in which you can select the related items for accounts.
2. Tap an account in the Accounts list.

   All details for the selected account appear after the list in the main pane.
3. Update an existing account team as follows:
    a. Tap Account Team in the list in the side pane.

       All team members associated with the account appear in the Account Team list in the main pane.

b. Tap the team member that you want to update.
c. Tap the record field that you want to update, and update the field value.

You can update the Role field and Primary check box only. You must navigate away from the record to save your changes to it.

Note: You can update the Primary check box only in online mode.

4. Add an existing person to the account team as follows:

a. Tap Account Team in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
b. Choose the person on the list that appears, and then tap OK.

Managing Contacts for Siebel Sales

A *contact* is an individual with whom your company conducts business or expects to conduct business in the future. It can be an employee of another company, an independent consultant, a vendor, or an acquaintance.

The following procedures related to contacts and contact management are included in this topic:

- *Displaying Contact Details (Siebel Sales)*
- *Modifying Contact Information*
- *Modifying Opportunity Information for a Contact*
- *Modifying Contact Team Information for a Contact*
- *Modifying Address Information for a Contact*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Sales.

Displaying Contact Details

You can display contact details by using the Contacts list.

To display contact details

1. Tap Side Menu and then tap Contacts to display the following:
    - The Contacts list and details for the selected contact in the main pane.
    - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

   All details for the selected contact appear after the list in the main pane.
3. To view the related items for the selected contact, tap the following names in the list in the side pane:
    - **Opportunities.** Shows the opportunity information for the contact. For more information, see *Modifying Opportunity Information for a Contact*.

- **Contact Team.** Shows the contact team information for the contact. For more information, see *Modifying Contact Team Information for a Contact*.
- **Addresses.** Shows the address information for the contact. For more information, see *Modifying Address Information for a Contact*.

Modifying Contact Information

Complete the following procedure to modify contact information.

To modify contact information

1. Tap Side Menu and then tap Contacts to display the following:
   - The Contacts list and details for the selected contact in the main pane.
   - A list in the side pane in which you can select the related items for contacts.
2. Update an existing contact as follows:
   a. Tap a contact in the Contacts list.

      All details for the selected contact appear after the list in the main pane.
   b. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
3. Create a new contact as follows:
   a. Tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new contact in the fields that appear, and then save the record.

Modifying Opportunity Information for a Contact

Complete the following procedure to modify the opportunity information for a contact.

To modify the opportunity information for a contact

1. Tap Side Menu and then tap Contacts to display the following:
   - The Contacts list and details for the selected contact in the main pane.
   - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

   All details for the selected contact appear after the list in the main pane.
3. Update an existing contact opportunity as follows:
   a. Tap Opportunities in the list in the side pane.

      All opportunities associated with the contact appear in the Opportunities list in the main pane.
   b. Tap the opportunity that you want to update.
   c. Tap the record field that you want to update, and update the field value.

You must navigate away from the record to save your changes to it.

4. Add an existing opportunity to the contact as follows:
   a. Tap Opportunities in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
   b. Choose the opportunity on the list that appears, and then tap OK.

   Note: In the case of child views where records are being associated, you can associate only a downloaded opportunity with a selected contact in offline mode.

5. Create a new contact opportunity as follows:
   a. Tap Opportunities in the list in the side pane and then tap New (the double plus (++) icon) in the main pane.
   b. Enter the information for the new opportunity in the fields that appear, and then save the record.

   Note: Creating new records on this screen is supported only in online mode.

Modifying Contact Team Information for a Contact

Complete the following procedure to modify the contact team information for a contact.

To modify the contact team information for a contact

1. Tap Side Menu and then tap Contacts to display the following:
   - The Contacts list and details for the selected contact in the main pane.
   - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.

   All details for the selected contact appear after the list in the main pane.
3. Update an existing contact team as follows:
   a. Tap Contact Team in the list in the side pane.

      All team members associated with the contact appear in the Contact Team list in the main pane.
   b. Tap the team member that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You can update only the Role field and Primary check box. You must navigate away from the record to save your changes to it.

      Note: You can update the Primary check box only in online mode.

4. Add an existing person to the contact team as follows:
   a. Tap Contact Team in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
   b. Choose the person on the list that appears, and then tap OK.

Modifying Address Information for a Contact

Complete the following procedure to modify the address information for a contact.

To modify the address information for a contact

1. Tap Side Menu and then tap Contacts to display the following:
   - The Contacts list and details for the selected contact in the main pane.
   - A list in the side pane in which you can select the related items for contacts.
2. Tap a contact in the Contacts list.
   All details for the selected contact appear after the list in the main pane.
3. Update an existing contact address as follows:
   a. Tap Addresses in the list in the side pane.
      All addresses associated with the contact appear in the Addresses list in the main pane.
   b. Tap the address that you want to update.
   c. Tap the record field that you want to update, and update the field value.
      You must navigate away from the record to save your changes to it.
4. Add an existing address to the contact as follows:
   a. Tap Addresses in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
   b. Choose the address on the list that appears, then tap OK.

   Note: In the case of child views where records are being associated, you can associate only a downloaded address with a selected contact in offline mode.

5. Create a new contact address as follows:
   a. Tap Addresses in the list in the side pane and then tap New (the double plus (++) icon) in the main pane.
   b. Enter the information for the new address in the fields that appear, and then save the record.

   Note: Creating new records on this screen is supported only in online mode.

Managing Leads for Siebel Sales

A *lead* is a new prospect or existing customer who might become an opportunity.

The following procedures related to leads and lead management are included in this topic:

- *Displaying Lead Details (Siebel Sales)*
- *Modifying Lead Information*
- *Modifying Opportunity Information for a Lead*
- *Converting a Lead to an Opportunity*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Sales.

Displaying Lead Details

You can display lead details by using the Leads list.

To display lead details

1. Tap Side Menu and then tap Leads to display the following:
    - The Leads list and details for the selected lead in the main pane.
    - A list in the side pane in which you can select the related items for leads.
2. Tap a lead in the Leads list.

    All details for the selected lead appear after the list in the main pane.
3. To view the related items for the selected lead, tap the following name in the list in the side pane:
    - **Opportunities.** Shows the opportunity information for the lead. For more information, see *Modifying Opportunity Information for a Lead*.

Modifying Lead Information

Complete the following procedure to modify lead information.

To modify lead information

1. Tap Side Menu and then tap Leads to display the following:
    - The Leads list and details for the selected lead in the main pane.
    - A list in the side pane in which you can select the related items for leads.
2. Update an existing lead as follows:
    a. Tap a lead in the Leads list.

        All details for the selected lead appear after the list in the main pane.
    b. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
3. Create a new lead as follows:
    a. Tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new lead in the fields that appear, and then save the record.

Modifying Opportunity Information for a Lead

Complete the following procedure to modify the opportunity information for a lead.

To modify the opportunity information for a lead

1. Tap Side Menu and then tap Leads to display the following:
   - The Leads list and details for the selected lead in the main pane.
   - A list in the side pane in which you can select the related items for leads.
2. Tap a lead in the Leads list.

   All details for the selected lead appear after the list in the main pane.
3. Update an existing lead opportunity as follows:
   a. Tap Opportunities in the list in the side pane.

      All opportunities associated with the lead appear in the Opportunities list in the main pane.
   b. Tap the opportunity that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Add an existing opportunity to the lead as follows:
   a. Tap Opportunities in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
   b. Choose the opportunity on the list that appears, and then tap OK.

   Note: In the case of child views where records are being associated, you can associate only a downloaded opportunity with a selected lead in offline mode.
5. Create a new lead opportunity as follows:
   a. Tap Opportunities in the list in the side pane and then tap New (the double plus (++) icon) in the main pane.
   b. Enter the information for the new opportunity in the fields that appear, and then save the record.

   Note: Creating new records on this screen is supported only in online mode.

Converting a Lead to an Opportunity

When you convert a lead to an opportunity, an opportunity record is automatically created for the lead using data from the lead. For more information about converting leads to opportunities, see *Siebel Marketing User Guide* .

To convert a lead to an opportunity

1. Tap Side Menu and then tap Leads to display the following:
   - The Leads list and details for the selected lead in the main pane.

- A list in the side pane in which you can select the related items for leads.

2. Tap a lead in the Leads list.

   All details for the selected lead appear after the list in the main pane.
3. Tap Convert to convert the lead to an opportunity.

Note: You can convert only a lead that includes a contact. If the lead includes a prospect, then you must promote the prospect to a contact before you can convert the lead to an opportunity.

Field Mapping When Converting a Lead to an Opportunity (Offline Mode Only)

The following table shows the field mapping used when converting a Lead to an Opportunity in offline mode.

Lead BC Fields	Opportunity BC Fields
[Description]+[Id]+Timestamp	Name
Account Id	Account Id
Contact Id	Key Contact Id
Primary Position Id	Primary Position Id
Primary Organization Id	Primary Organization Id
Quality	Quality

The field mapping for Prospect to Contact creation is shown in the following table.

List Mgmt Prospective Contact BC Fields	Contact BC Fields
Last Name	Last Name
First Name	First Name
Home Phone #	Home Phone #
Work Phone #	Work Phone #
Cellular Phone #	Cellular Phone #
Fax Phone #	Fax Phone #
Email Address	Email Address

List Mgmt Prospective Contact BC Fields	Contact BC Fields
Id	Person Uld

Managing Opportunities for Siebel Sales

An *opportunity* is a potential revenue-generating event. It is usually associated with an account and one or more contacts, products, activities, and quotes.

The following procedures related to opportunities and opportunity management are included in this topic:

- *Displaying Opportunity Details (Siebel Sales)*
- *Modifying Opportunity Information*
- *Modifying Contact Information for an Opportunity*
- *Modifying Product Information for an Opportunity*
- *Modifying Quote Information for an Opportunity*
- *Converting an Opportunity to a Quote*
- *Modifying Activity Information for an Opportunity*
- *Modifying Opportunity Team Information for an Opportunity*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Sales.

Displaying Opportunity Details

You can display opportunity details by using the Opportunities list.

To display opportunity details

1. Tap Side Menu and then tap Opportunities to display the following:
    - The Opportunities list and details for the selected opportunity in the main pane.
    - A list in the side pane in which you can select the related items for opportunities.
2. Tap an opportunity in the Opportunities list.

    All details for the selected opportunity appear after the list in the main pane.
3. To view the related items for the selected opportunity, tap the following names in the list in the side pane:
    - **Contacts.** Shows the contact information for the opportunity. For more information, see *Modifying Contact Information for an Opportunity*.
    - **Products.** Shows the product information for the opportunity. For more information, see *Modifying Product Information for an Opportunity*.

- **Quotes.** Shows the quote information for the opportunity. For more information, see *Modifying Quote Information for an Opportunity* and *Converting an Opportunity to a Quote*.
- **Activities.** Shows the activity information for the opportunity. For more information, see *Modifying Activity Information for an Opportunity*.
- **Opportunity Team.** Shows the opportunity team information for the opportunity. For more information, see *Modifying Opportunity Team Information for an Opportunity*.

Modifying Opportunity Information

Complete the following procedure to modify opportunity information.

To modify opportunity information

1. Tap Side Menu and then tap Opportunities to display the following:
   - The Opportunities list and details for the selected opportunity in the main pane.
   - A list in the side pane in which you can select the related items for opportunities.
2. Update an existing opportunity as follows:
   a. Tap an opportunity in the Opportunities list.

      All details for the selected opportunity appear after the list in the main pane.
   b. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
3. Create a new opportunity as follows:
   a. Tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new opportunity in the fields that appear, and then save the record.

Modifying Contact Information for an Opportunity

Complete the following procedure to modify the contact information for an opportunity.

To modify the contact information for an opportunity

1. Tap Side Menu and then tap Opportunities to display the following:
   - The Opportunities list and details for the selected opportunity in the main pane.
   - A list in the side pane in which you can select the related items for opportunities.
2. Tap an opportunity in the Opportunities list.

   All details for the selected opportunity appear after the list in the main pane.
3. Update an existing opportunity contact as follows:
   a. Tap Contacts in the list in the side pane.

      All contacts associated with the opportunity appear in the Contacts list in the main pane.

b. Tap the contact that you want to update.
c. Tap the record field that you want to update, and update the field value.

   You must navigate away from the record to save your changes to it.

4. Add an existing contact to the opportunity as follows:

   a. Tap Contacts in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
   b. Choose the contact on the list that appears, and then tap OK.

   Note: In the case of child views where records are being associated, you can associate only a downloaded contact with a selected opportunity in offline mode.

5. Create a new opportunity contact as follows:

   a. Tap Contacts in the list in the side pane and then tap New (the double plus (++) icon) in the main pane.
   b. Enter the information for the new contact in the fields that appear, and then save the record.

   Note: Creating new records on this screen is supported only in online mode.

Modifying Product Information for an Opportunity

Complete the following procedure to modify the product information for an opportunity.

To modify the product information for an opportunity

1. Tap Side Menu and then tap Opportunities to display the following:

   - The Opportunities list and details for the selected opportunity in the main pane.
   - A list in the side pane in which you can select the related items for opportunities.

2. Tap an opportunity in the Opportunities list.

   All details for the selected opportunity appear after the list in the main pane.

3. Update an existing opportunity product as follows:

   a. Tap Products in the list in the side pane.

      All products associated with the opportunity appear in the Products list in the main pane.
   b. Tap the product that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.

4. Create a new opportunity product as follows:

   a. Tap Products in the list in the side pane and then tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new product in the fields that appear, and then save the record.

Modifying Quote Information for an Opportunity

Complete the following procedure to modify the quote information for an opportunity.

To modify the quote information for an opportunity

1. Tap Side Menu and then tap Opportunities to display the following:
   - The Opportunities list and details for the selected opportunity in the main pane.
   - A list in the side pane in which you can select the related items for opportunities.
2. Tap an opportunity in the Opportunities list.
   All details for the selected opportunity appear after the list in the main pane.
3. Update an existing opportunity quote as follows:
   a. Tap Quotes in the list in the side pane.
      All quotes associated with the opportunity appear in the Quotes list in the main pane.
   b. Tap the quote that you want to update.
   c. Tap the record field that you want to update, and update the field value.
      You must navigate away from the record to save your changes to it.
4. Create a new opportunity quote as follows:
   a. Tap Quotes in the list in the side pane and then tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new quote in the fields that appear, and then save the record.

Converting an Opportunity to a Quote

When you create a quote from an opportunity using the Auto Quote link, a quote record is automatically created for the opportunity using the data from the opportunity. Quote items are created from products associated with an opportunity. Any opportunity products that have the Auto Quote flag checked are also copied to the quote record.

To convert an opportunity to a quote

1. Tap Side Menu and then tap Opportunities to display the following:
   - The Opportunities list and details for the selected opportunity in the main pane.
   - A list in the side pane in which you can select the related items for opportunities.
2. Tap an opportunity in the Opportunities list.
   All details for the selected opportunity appear after the list in the main pane.
3. Tap Quotes in the list in the side pane.
4. Tap Auto Quote to create a quote from the opportunity.

Field Mapping When Converting an Opportunity to a Quote (Offline Mode Only)

The following tables show the field mapping used when converting an Opportunity to a Quote in offline mode.

Opportunity BC Fields	Quote BC Fields
Account Id	Account Id

Opportunity Product BC Fields	Quote Item BC Fields
Product	Product
Product Quantity	Extended Quantity Requested
Product Quantity	Quantity Requested

Price related fields (for example Net Price, Start Price, and Total) are not available when a quote is created in disconnected mode. These fields are automatically populated when the records are synchronized with the server.

Modifying Activity Information for an Opportunity

Complete the following procedure to modify the activity information for an opportunity.

To modify the activity information for an opportunity

1. Tap Side Menu and then tap Opportunities to display the following:
   - The Opportunities list and details for the selected opportunity in the main pane.
   - A list in the side pane in which you can select the related items for opportunities.
2. Tap an opportunity in the Opportunities list.

   All details for the selected opportunity appear after the list in the main pane.
3. Update an existing opportunity activity as follows:
   a. Tap Activities in the list in the side pane.

      All activities associated with the opportunity appear in the Activities list in the main pane.
   b. Tap the activity that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Create a new opportunity activity as follows:
   a. Tap Activities in the list in the side pane and then tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new activity in the fields that appear, and then save the record.

Modifying Opportunity Team Information for an Opportunity

Complete the following procedure to modify the opportunity team information for an opportunity.

To modify the opportunity team information for an opportunity

1. Tap Side Menu and then tap Opportunities to display the following:
    - The Opportunities list and details for the selected opportunity in the main pane.
    - A list in the side pane in which you can select the related items for opportunities.
2. Tap an opportunity in the Opportunities list.

    All details for the selected opportunity appear after the list in the main pane.
3. Update an existing opportunity team as follows:

    a. Tap Opportunity Team in the list in the side pane.

    All team members associated with the opportunity appear in the Opportunity Team list in the main pane.

    b. Tap the team member that you want to update.

    c. Tap the record field that you want to update, and update the field value.

    You can update only the Role field and Primary check box. You must navigate away from the record to save your changes to it.

    Note: You can update the Primary check box only in online mode.
4. Add an existing person to the opportunity team as follows:

    a. Tap Opportunity Team in the list in the side pane and then tap New (the plus (+) icon) in the main pane.

    b. Choose the person on the list that appears, and then tap OK.

Managing Quotes for Siebel Sales

A *quote* is an offer to a customer for specific products and services at a specific price. It includes effective dates, prices, and discounts.

The following procedures related to quotes and quotes management are included in this topic:

- *Displaying Quote Details*
- *Modifying Quote Information*
- *Modifying Line Item Information for a Quote*
- *Modifying Order Information for a Quote*
- *Converting a Quote to an Order*
- *Modifying Quote Team Information for a Quote*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Sales.

Displaying Quote Details

You can display quote details by using the Quotes list.

To display quote details

1. Tap Side Menu and then tap Quotes to display the following:
    - The Quotes list and details for the selected quote in the main pane.
    - A list in the side pane in which you can select the related items for quotes.
2. Tap a quote in the Quotes list.

    All details for the selected quote appear after the list in the main pane.
3. To view the related items for the selected quote, tap the following names in the list in the side pane:
    - **Line Items.** Shows the quote item information for the quote. For more information, see *Modifying Line Item Information for a Quote*.
    - **Orders.** Shows the order information for the quote. For more information, see *Modifying Order Information for a Quote* and *Converting a Quote to an Order*.
    - **Quote Team.** Shows the quote team information for the quote. For more information, see *Modifying Quote Team Information for a Quote*.

Modifying Quote Information

Complete the following procedure to modify quote information.

To modify quote information

1. Tap Side Menu and then tap Quotes to display the following:
    - The Quotes list and details for the selected quote in the main pane.
    - A list in the side pane in which you can select the related items for quotes.
2. Update an existing quote as follows:
    a. Tap a quote in the Quotes list.

        All quote details for the selected quote appear after the list in the main pane.
    b. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
3. Create a new quote as follows:
    a. Tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new quote in the fields that appear, and then save the record.

Modifying Line Item Information for a Quote

Complete the following procedure to modify the line item information for a quote.

To modify the line item information for a quote

1. Tap Side Menu and then tap Quotes to display the following:
    - The Quotes list and details for the selected quote in the main pane.
    - A list in the side pane in which you can select the related items for quotes.
2. Tap a quote in the Quotes list.

    All details for the selected quote appear after the list in the main pane.
3. Update an existing quote line item as follows:
    a. Tap Line Items in the list in the side pane.

        All line items associated with the quote appear in the Line Items list in the main pane.
    b. Tap the line item that you want to update.
    c. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
4. Create a new quote line item as follows:
    a. Tap Line Items in the list in the side pane and then tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new line item in the fields that appear, and then save the record.

Modifying Order Information for a Quote

Complete the following procedure to modify the order information for a quote.

To modify the order information for a quote

1. Tap Side Menu and then tap Quotes to display the following:
    - The Quotes list and details for the selected quote in the main pane.
    - A list in the side pane in which you can select the related items for quotes.
2. Tap a quote in the Quotes list.

    All details for the selected quote appear after the list in the main pane.
3. Update an existing quote order as follows:
    a. Tap Orders in the list in the side pane.

        All orders associated with the quote appear in the Orders list in the main pane.
    b. Tap the order that you want to update.
    c. Tap the record field that you want to update, and update the field value.

You must navigate away from the record to save your changes to it.

4. Create a new quote order as follows:
   a. Tap Orders in the list in the side pane and then tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new order on the page that appears, and then save the record.

Converting a Quote to an Order

When you create an order from a quote using the Auto Order link, an order record is automatically created for the quote using the data from the quote. For more information about creating orders from quotes, see *Siebel Order Management Guide* .

To convert a quote to an order

1. Tap Side Menu and then tap Quotes to display the following:
   - The Quotes list and details for the selected quote in the main pane.
   - A list in the side pane in which you can select the related items for quotes.
2. Tap a quote in the Quotes list.

   All details for the selected quote appear after the list in the main pane.
3. Tap Orders in the list in the side pane.
4. Tap Auto Order to create an order from the quote.

Field Mapping When Converting a Quote to an Order (Offline Mode Only)

The following tables show the field mapping used when converting a Quote to an Order in offline mode.

Quote BC Fields	Order Entry - Orders BC Fields
Discount Amount	Discount Amount
Primary Organization Id	Primary Organization Id

Quote Item BC Fields	Order Entry - Line Items BC Fields
Product	Product
Quantity Requested	Quantity Requested
Discount Percent	Discount Percent
Base Price	Base Price
Adjusted List Price	Adjusted List Price

Quote Item BC Fields	Order Entry - Line Items BC Fields
Net Price	Net Price

Pricing related fields (for example Net Price, Start Price, and Total) are not available when an order is created in disconnected mode. These fields are automatically populated when the records are synchronized with the server.

Modifying Quote Team Information for a Quote

Complete the following procedure to modify the quote team information for a quote.

To modify the quote team information for a quote

1. Tap Side Menu and then tap Quotes to display the following:
   - The Quotes list and details for the selected quote in the main pane.
   - A list in the side pane in which you can select the related items for quotes.
2. Tap a quote in the Quotes list.

   All details for the selected quote appear after the list in the main pane.
3. Update an existing quote team as follows:
   a. Tap Quote Team in the list in the side pane.

      All team members associated with the quote appear in the Quote Team list in the main pane.
   b. Tap the team member that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You can update only the Primary check box. You must navigate away from the record to save your changes to it.

      Note: You can update the Primary check box only in online mode.
4. Add an existing person to the quote team as follows:
   a. Tap Quote Team in the list in the side pane and then tap New (the plus (+) icon) in the main pane.
   b. Choose the person on the list that appears, and then tap OK.

Managing Orders for Siebel Sales

An *order* is a commitment on the part of the customer to purchase products and services at a specific price. It can be generated from a quote or created directly by a sales person, call center agent, and sales administrator.

The following procedures related to orders and order management are included in this topic:

- *Displaying Order Details (Siebel Sales)*

- *Modifying Order Information*
- *Modifying Line Item Information for an Order*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Sales.

Displaying Order Details

You can display order details by using the Orders list.

To display order details

1. Tap Side Menu and then tap Orders to display the following:
    - The Orders list and details for the selected order in the main pane.
    - A list in the side pane in which you can select the related items for orders.
2. Tap an order in the Orders list.

    All details for the selected order appear after the list in the main pane.
3. To view the related items for the selected order, tap the following name in the list in the side pane:
    - **Line Items.** Shows the line item information for the order. For more information, see *Modifying Line Item Information for an Order*.

Modifying Order Information

Complete the following procedure to modify order information.

To modify order information

1. Tap Side Menu and then tap Orders to display the following:
    - The Orders list and details for the selected order in the main pane.
    - A list in the side pane in which you can select the related items for orders.
2. Update an existing order as follows:
    a. Tap an order in the Orders list.

        All details for the selected order appear after the list in the main pane.
    b. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
3. Create a new order as follows:
    a. Tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new order in the fields that appear, and then save the record.

Modifying Line Item Information for an Order

Complete the following procedure to modify the line item information for an order.

To modify the line item information for an order

1. Tap Side Menu and then tap Orders to display the following:
    - The Orders list and details for the selected order in the main pane.
    - A list in the side pane in which you can select the related items for orders.
2. Tap an order in the Orders list.

    All details for the selected order appear after the list in the main pane.
3. Update an existing order line item as follows:
    a. Tap Line Items in the list in the side pane.

        All line items associated with the order appear in the Line Items list in the main pane.
    b. Tap the line item that you want to update.
    c. Tap the record field that you want to update, and update the field value.

        You must navigate away from the record to save your changes to it.
4. Create a new order line item as follows:
    a. Tap Line Items in the list in the side pane and then tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new line item in the fields that appear, and then save the record.

Managing Activities for Siebel Sales

An *activity* is a task that you perform for a contact, account, or opportunity.

The following procedures related to activities and activity management are included in this topic:

- *Displaying Activity Details (Siebel Sales)*
- *Modifying Activity Information*
- *Modifying Contact Information for an Activity*
- *Modifying Employee Information for an Activity*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Sales.

Displaying Activity Details

You can display activity details by using the Activities list.

To display activity details

1. Tap Side Menu and then tap Activities to display the following:
   - The Activities list and details for the selected activity in the main pane.
   - A list in the side pane in which you can select the related items for activities.
2. Tap an activity in the Activities list.
   All details for the selected activity appear after the list in the main pane.
3. To view the related items for the selected activity, tap the following names in the list in the side pane:
   - **Contacts.** Shows the contact information for the activity. For more information, see *Modifying Contact Information for an Activity*.
   - **Employees.** Shows the employee information for the activity. For more information, see *Modifying Employee Information for an Activity*.

Modifying Activity Information

Complete the following procedure to modify activity information.

To modify activity information

1. Tap Side Menu and then tap Activities to display the following:
   - The Activities list and details for the selected activity in the main pane.
   - A list in the side pane in which you can select the related items for activities.
2. Update an existing activity as follows:
   a. Tap an activity in the Activities list.
      All details for the selected activity appear after the list in the main pane.
   b. Tap the record field that you want to update, and update the field value.
      You must navigate away from the record to save your changes to it.
3. Create a new activity as follows:
   a. Tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new activity in the fields that appear, and then save the record.

Modifying Contact Information for an Activity

Complete the following procedure to modify the contact information for an activity.

To modify the contact information for an activity

1. Tap Side Menu and then tap Activities to display the following:
   - The Activities list and details for the selected activity in the main pane.

- A list in the side pane in which you can select the related items for activities.

2. Tap an activity in the Activities list.

   All details for the selected activity appear after the list in the main pane.
3. Update an existing activity contact as follows:

   a. Tap Contacts in the list in the side pane.

      All contacts associated with the activity appear in the Contacts list in the main pane.
   b. Tap the contact that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.
4. Add an existing contact to the activity as follows:

   a. Tap Contacts in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
   b. Choose the contact on the list that appears, and then tap the OK.

   Note: In the case of child views where records are being associated, you can associate only a downloaded contact with a selected activity in offline mode.
5. Create a new activity contact as follows:

   a. Tap Contacts in the list in the side pane and then tap New (the double plus (++) icon) in the main pane.
   b. Enter the information for the new contact in the fields that appear, and then save the record.

   Note: Creating new records on this screen is supported only in online mode.

Modifying Employee Information for an Activity

Complete the following procedure to modify the employee information for an activity.

To modify the employee information for an activity

1. Tap Side Menu and then tap Activities to display the following:

   - The Activities list and details for the selected activity in the main pane.
   - A list in the side pane in which you can select the related items for activities.
2. Tap an activity in the Activities list.

   All details for the selected activity appear after the list in the main pane.
3. Update an existing activity employee as follows:

   a. Tap Employees in the list in the side pane.

      All employees associated with the activity appear in the Employees list in the main pane.
   b. Tap the employee that you want to update.
   c. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.

4. Add an existing employee to the activity as follows:
    a. Tap Employees in the list in the side pane and then tap Add (the plus (+) icon) in the main pane.
    b. Choose the employee on the list that appears, and then tap OK.

Unsupported Siebel Sales Features in Offline Mode

The features listed in this topic are not supported in offline mode in the Siebel Mobile disconnected application for Siebel Sales. You must be connected to the Internet and, in some cases, to the Siebel Server to do the following in your Siebel Mobile disconnected application for Siebel Sales:

- Update the Primary check box

  Primary check box functionality is not supported in the Siebel Mobile application for Siebel Sales. For more information, see the following:

  - *Modifying Account Team Information for an Account*
  - *Modifying Contact Team Information for a Contact*
  - *Modifying Opportunity Team Information for an Opportunity*
  - *Modifying Quote Team Information for a Quote*

- Directly create new address records for accounts or contacts

  > **Note:** In the case of child views where records are being associated, you can associate only a downloaded address with a selected account in offline mode.

  In the case of child views where records are being associated, you can associate only a downloaded address with a selected account or contact in offline mode. For more information, see *Modifying Address Information for an Account* and *Modifying Address Information for a Contact*.

- Directly create new records using the double plus (++) icon

For more information about the general features that are not supported in offline mode, see *Unsupported Siebel Mobile Features in Offline Mode*.

12 Siebel Mobile Application for Siebel Field Service

Using the Application for Siebel Field Service

This chapter describes the tasks that a user of the Siebel Mobile application for Siebel Field Service can run in online (connected) and offline (disconnected) mode. Tasks and features that are not supported in offline mode are listed. It includes the following topics:

- *Using the Home Page for Siebel Field Service*
- *Managing Activities for Siebel Field Service*
- *Managing Service Requests for Siebel Field Service*
- *Managing Accounts for Siebel Field Service*
- *Managing Parts for Siebel Field Service*
- *Managing Orders for Siebel Field Service*
- *Managing Invoices for Siebel Field Service*
- *Managing Assets for Siebel Field Service*
- *Managing Shifts for Siebel Field Service*
- *Tasks Flows for Siebel Field Service*
- *Unsupported Siebel Field Service Features in Offline Mode*

Note: The procedures in this chapter assume that inline editing is configured for Siebel Mobile. If inline editing is not configured, then pencil icons appear in the user interface. You can tap these icons to edit information. For more information, see *Inline Editing*.

Using the Home Page for Siebel Field Service

The Siebel Mobile application for Siebel Field Service uses the Zante UI theme by default. If using an earlier version of the Siebel Mobile application for Siebel Field Service, prior to Siebel Innovation Pack 2015, then it is recommended that you reconfigure any enhancements made. For more information about the Zante theme and navigating the UI using the Zante theme, see *About the Siebel Mobile Aurora and Zante UI Themes* and the remaining procedures in this topic.

The following procedures related to using the home page of the Siebel Mobile application for Siebel Field Service are included in this topic:

- *Navigating to the Home Page (Siebel Field Service)*
- *Reviewing Activity Information*
- *Scheduling Personal Appointments*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Field Service.

Navigating to the Home Page

The following procedure shows you how to navigate to the home page of the Siebel Mobile application for Siebel Field Service (if not already displayed).

To navigate to the home page

- Tap Side Menu and then tap Activities to display the home page.

  The home page consists of the calendar and the map view:

  - The Map in the main pane or work area shows the location of activities or appointments. The map view uses Oracle Spatial.
  - The Calendar in the side pane shows the scheduling information for activities or appointments. Different icons appear on the calendar (beside the activity name) indicating the status of the activity or appointment as described in the following table.

  For more information about using the calendar view and map view, see *Reviewing Activity Information*.

Icon	Icon Description	Status
	A full page.	Scheduled (dispatched)
	An arrow that turns around a corner	Acknowledged
	A check mark	Done
	An exclamation mark	Declined

Reviewing Activity Information

On the home page, you can review the activity information.

To review the activity information

1. Tap Side Menu and then tap Activities to display the home page.
2. On the map in the main pane, you can do the following:

   - Review Routes (the pin icons) to familiarize yourself with the locations of the activities.

- Tap a Route (pin icon) to see summary information for the selected record, which includes the activity name and address location.

3. On the calendar in the side pane, you can do the following:
   - Use the navigation arrows to navigate across dates and view the activities scheduled on different dates.
   - Tap Today to see the activities scheduled for today's date.
   - Tap Daily, Weekly, or Monthly (or the corresponding calendar icons) to switch between the daily, weekly, or monthly view of activities scheduled.
   - Tap an activity icon on the calendar, and then tap Info to drill down on the detail information for the selected record. For more information, see *Displaying Activity Details (Siebel Field Service)*. For more information about activity icons, see *Navigating to the Home Page (Siebel Field Service)*.

     > **Note:** The Map and Info buttons in the main pane persist for certain views in the Siebel Mobile application for Siebel Field Service. Tap Info to drill down on a selected activity. Tap Map to return to the home page (calendar and map views).

   - Tap an activity name on the calendar to drill down on the task-based screen flow for the selected record. For more information, see *Displaying the Task-Based Screen Flow for an Activity*.
   - Schedule a personal appointment. For more information, see *Scheduling Personal Appointments*.

Scheduling Personal Appointments

On the home page, you can schedule a personal appointment.

To schedule personal appointments

1. Tap Side Menu and then tap Activities to display the home page.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. On the calendar in the side pane, schedule a new personal appointment as follows:
   a. Tap New (the plus (+) icon).
   b. Enter the information for the new personal appointment on the Add Personal Appointment dialog that appears, and then tap Add.

Managing Activities for Siebel Field Service

An *activity* is a work order assigned to a Field Service representative by the dispatcher.

The following procedures related to activities and activity management are included in this topic:

- *Displaying Activity Details (Siebel Field Service)*
- *Verifying and Ordering Parts and Tools for an Activity*
- *Viewing Substitute Information for a Part*
- *Accepting an Activity*
- *Displaying the Task-Based Screen Flow for an Activity*

- *Recording Task Completion for an Activity*
- *Capturing Asset Readings for an Activity*
- *Attaching Media to an Activity*
- *Modifying Part Tracker Information for an Activity*
- *Removing a Serialized Part*
- *Installing a Replacement Serialized Part*
- *Modifying Part Tracker for an Activity by Scanning Barcode Data*
- *Modifying Time Tracker Information for an Activity*
- *Modifying Expense Tracker Information for an Activity*
- *Generating Service Reports*
- *Creating Invoices from Activities in Siebel Field Service*
- *Printing Invoices Associated with Activities*
- *Capturing Signatures for Invoices in Siebel Field Service*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Field Service.

Displaying Activity Details

You can display activity details by using the calendar on the home page.

To display activity details

1. On the home page, tap an activity icon on the calendar and then tap Info to drill down on the detail information for the selected activity.
   All details for the selected activity appear in the main pane in the Activity Details view from where you can perform the following tasks:
   - *Verifying and Ordering Parts and Tools for an Activity*
   - *Viewing Substitute Information for a Part*
   - *Accepting an Activity*

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap the Side Menu under Substitutes in the main pane, and then tap one of the following to view more information about the selected activity:
   - **Tasks.** Tap to view the tasks (if any) that must be completed for the activity.
   - **Service Request.** Tap to view the service request information for the activity.
   - **Asset Details.** Tap to view the asset information for the activity.
   - **Contact Information.** Tap to view the contact information for the activity.
   - **Account Information.** Tap to view the account information for the activity.
   - **Documentation.** Tap to view the documentation for the activity.
3. Tap Map in the main pane to return to the home page.

Verifying and Ordering Parts and Tools for an Activity

Complete the following procedure to check part availability in the trunk, and to verify and order parts and tools for an activity. Before visiting a customer to service or complete an activity, you must verify that the required parts and tools are in your vehicle trunk and order any needed parts and tools.

To verify and order parts and tools for an activity

1. On the home page, tap an activity icon on the calendar and then tap Info to drill down on the detail information for the selected activity.
   All details for the activity appear in the main pane. For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap the down arrow next to Parts & Tools to expand and show the parts and tools associated with the activity.
3. Select a part or tool, and then tap Check Trunk to verify that the required part or tool is in your vehicle trunk.
   The number of part or tool available in your vehicle trunk appears.
4. Order a part or tool for the activity as follows:
   a. Select the part or tool that you want to order, and then tap Order Part.
      If an order does not already exist for the part or tool, then an order for the part or tools is created.
   b. Tap the link in the Order Number field to drill down on the selected record.

Viewing Substitute Information for a Part

Complete the following procedure to view the substitute information for a part.

To view the substitute information for a part

1. On the home page, tap an activity icon on the calendar and then tap Info to drill down on the detail information for the selected activity.
2. All details for the activity appear in the main pane. For more information about the home page, see *Using the Home Page for Siebel Field Service*.
3. Tap the down arrow next to Parts & Tools to expand and show the parts and tools associated with the activity, and then select a part.
4. Tap Substitutes to expand and show the substitute availability information for the selected part.

Accepting an Activity

Complete the following procedure to accept (or decline) an activity to work upon.

To accept an activity

1. On the home page, tap an activity icon on the calendar and then tap Info to drill down on the detail information for the selected activity.

All details for the activity appear in the main pane. For more information about the home page, see *Using the Home Page for Siebel Field Service*.

2. Tap Accept in the main pane to accept and start working on the activity.

   Once accepted, the Job Status for the activity changes to Acknowledged and the activity icon on the calendar changes accordingly (to an arrow that turns around a corner).

   If you cannot take up this activity for any reason, then tap Decline to decline the activity. Once declined, the activity icon on the calendar changes to an exclamation mark and the Job Status for the activity changes to Declined.

Displaying the Task-Based Screen Flow for an Activity

You can display the task-based screen flow for an activity by using the Calendar on the home page. For more information about the home page, see *Using the Home Page for Siebel Field Service*.

To display the task-based screen flow for an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   The Service Request information for the selected activity appears in the main pane. The Appointment information and task-based screen flow for the activity appears in the side pane. The task-based screen flow consists of the following options:

   - **Tasks to Complete.** See *Recording Task Completion for an Activity*.
   - **Readings.** See *Capturing Asset Readings for an Activity*.
   - **Photos/Videos.** See *Attaching Media to an Activity*.
   - **Part Tracker.** See *Modifying Part Tracker Information for an Activity*.
   - **Time & Expense.** See *Modifying Time Tracker Information for an Activity* and *Modifying Expense Tracker Information for an Activity*.
   - **Finish.** See *Generating Service Reports*, *Creating Invoices from Activities in Siebel Field Service*, *Printing Invoices Associated with Activities*, and *Capturing Signatures for Invoices in Siebel Field Service*.

   You can customize the task-based screen flow for an activity by configuring second level navigation views in Siebel Tools for your Siebel application as required. For more information, see *Configuring Second Level Navigation Views*.

2. Tap the Side Menu under Service Request in the main pane, and then tap one of the following to view more information about the selected activity:

   - **Account Information.** Tap to view the account information for the activity.
   - **Contact Information.** Tap to view the contact information for the activity.
   - **Ordered Parts.** Tap to view the parts ordered for the activity.
   - **Asset Details.** Tap to view the asset information for the activity.
   - **Documentation.** Tap to view the documentation for the activity.

3. Tap the calendar icon next to the Appointment information in the side pane to return to the home page.

Recording Task Completion for an Activity

Complete the following procedure to view and record task completion for an activity. You record task completion to keep track of your work progress on the activity.

To record task completion for an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Tasks to Complete in the side pane.

   A list of the tasks associated with the activity appears in the main pane.
3. Record task completion for each activity task as follows:

   Note: Field service technicians need only complete the tasks that are relevant to the job in hand.

   a. Tap the empty switch next to a task to record the start time for the task.

      The switch starts to close or fill up indicating that the task is in progress.
   b. Tap the same switch next to same task again to record the end time for the task.

      The switch closes indicating that the task is complete.
   c. (Optional) Tap the closed switch next to a task to reopen the task.
   d. (Optional) Tap the empty switch next to the last task in the list to record to record completion of all the tasks at the same time.

      The switch next to each task closes, indicating that all tasks are complete.

Capturing Asset Readings for an Activity

For tasks such as taking a utility meter reading or measuring hydraulic pressure, you must record an asset reading. Complete the following procedure to view, and capture asset readings.

To capture an asset reading for an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Readings in the side pane.

   The Asset Readings view appears in the main pane.
3. Capture a new asset reading as follows:

   a. Under Readings, use the navigation arrows to move through the list of different readings that can be captured.
   b. Tap an individual reading, and then tap New (the plus (+) icon) to capture a new reading.

c. Enter the information for the new reading in the fields that appear.
d. Navigate away from the record to save the record.

Attaching Media to an Activity

Complete the following procedure to attach media (photos or videos) to an activity.

Note: This feature is supported only in online mode.

To attach media to an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Photos/Videos in the side pane.

   The Photos/Videos view appears in the main pane.
3. Attach media to the selected activity as follows:

   a. Tap New File in the main pane.
   b. Do one of the following as required:

      - Take a photo or record a video.
      - Select an existing photo or video file from the existing photo library.

   The following file formats are supported: jpeg, png, MOV, and mp4.

Modifying Part Tracker Information for an Activity

Complete the following procedure to modify the part tracker information for an activity and to track and create new activity part movements. You use part tracker to track part movements between locations.

To modify the part tracker information for an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Part Tracker in the side pane.

   The Part Tracker view appears in the main pane showing the tracked parts associated with the activity.
3. Update an existing activity part movement (part tracker record) as follows:

   a. Tap the part tracker record that you want to update.
   b. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.

4. Create a new activity part movement (part tracker record) as follows:
    a. Tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new part movement in the fields that appear. The following table describes the fields.

Field Name	Description
Product	Select the product that is associated with the part.
Quantity	Type the quantity of the part.
From	Select the location from where you want to move the part.
To	Select the location to where you want to move the part.
Status	Select a status for the part.
Asset #	Select an asset number to associate with the part.
Part Number	The part number associated with the product.
Comments	Type any necessary comment about the activity part movement.
Billable	Select this check box to indicate if the part movement is billable. Otherwise deselect this check box.

    c. Navigate away from the record to save the record.
5. Tap Menu (the cogwheel icon) in the main pane, and then tap Commit to generate the inventory transactions.

> **Note:** If you complete part tracker updates in offline mode, then the inventory transactions are generated when the mobile device is next synchronized with the Siebel Server.

Removing a Serialized Part

Complete the following procedure to remove a defective serialized part from service. After you complete this procedure, you install a replacement serialized part. For more information, see *Installing a Replacement Serialized Part*.

To remove a serialized part

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Part Tracker in the side pane.

   The Part Tracker view appears in the main pane showing the tracked parts associated with the activity.
3. Remove the serialized part as follows:

   a. Tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the part movement in the fields that appear. The following table describes the fields.

Field Name	Description
Product	Select the product that is associated with the part.
Quantity	Type the quantity of the part.
From	Select a value of Customer.
To	Select a value of Trunk.
Status	Select a value of Defective.
Asset #	Select an asset number to associate with the part.
Billable	Select this check box to indicate if the part movement is billable. Otherwise deselect this check box.

   c. Navigate away from the record to save the record.
4. Tap Menu (the cogwheel icon) in the main pane, and then tap Commit.

   Note: If you complete part tracker updates in offline mode, then the inventory transactions are created when the mobile device is synchronized with the Siebel Server.
5. Tap Menu (the cogwheel icon) in the main pane, and then tap RMA to create a return merchandise authorization for the part movement.

Installing a Replacement Serialized Part

Complete the following procedure to install a replacement serialized part. Before you complete this procedure, you remove the defective serialized part from service. For more information, see *Removing a Serialized Part*.

To install a replacement serialized part

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Part Tracker in the side pane.

   The Part Tracker view appears in the main pane showing the tracked parts associated with the activity.
3. Install a replacement serialized part as follows:
   a. Tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the part movement in the fields that appear. The following table describes the fields.

Field Name	Description
Product	Select the product that is associated with the part.
Status	Select a value of Good.
Quantity	Type the quantity of the part.
Asset #	Select an asset number to associate with the part.
From	Select a value of Service Order or Trunk.
To	Select a value of Customer.
Billable	Select this check box to indicate if the part movement is billable. Otherwise deselect this check box.

   c. Navigate away from the record to save the record.
4. Tap Menu (the cogwheel icon) in the main pane, and then tap Commit.

Note: If you complete part tracker updates in offline mode, then the inventory transactions are created when the mobile device is synchronized with the Siebel Server.

Modifying Part Tracker for an Activity by Scanning Barcode Data

You can use a barcode reader to update the existing part tracker information for an activity by scanning the part's barcode data or add new part tracker records by scanning the part's barcode data. For more information about barcodes in general and about how to set up the barcode interface for specific views and applets in Siebel CRM, see the chapter about barcodes in *Siebel Field Service Guide* .

To modify part tracker information for an activity by scanning barcode data

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Part Tracker in the side pane.

   The Part Tracker view appears in the main pane showing the tracked parts associated with the activity.
3. Update an existing part tracker record by scanning the barcode data as follows:

   a. Tap the part tracker record that you want to update, and then tap the Barcode Update icon.
   b. In the drop-down list next to the Barcode Update icon, select the type of data associated with the barcode (for example, select Asset Number Entry).
   c. Scan the barcode.

      The appropriate field (Asset #) in the selected part tracker record is populated with the barcode data. If the field already has a value, then the barcode data replaces the value.

      Accessibility users must enter data using the following keyboard shortcuts: `Ctrl+\(Asset#)Ctrl+\`. For example: `Control\MASSET2Control\`.

      Note: By scanning barcode data, you can update assets belonging to the same product only.
4. Add a new part tracker record by scanning the part's barcode data as follows:

   a. Tap the Barcode New icon.
   b. In the drop-down list next to the Barcode New icon, select the type of data associated with the barcode (for example, select Asset Number Entry).
   c. Scan the barcode for the part.

      A new part tracker record is created, and the appropriate field (Asset #) in the new record is populated with the barcode data.

      Accessibility users must enter data using the following keyboard shortcuts: `Ctrl+\(Asset#)Ctrl+\`. For example: `Control\MASSET1Control\`.

      Note: By scanning barcode data, you can update assets belonging to the same product only.

   d. Enter other appropriate field values in the new record.

Modifying Time Tracker Information for an Activity

Complete the following procedure to modify the time tracker information for an activity. Time tracker includes information about the time spent working on an activity (for example, travel and labor time). You can include this time in a customer invoice.

Note:

To modify the time tracker information for an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Time & Expense Tracker in the side pane.

   The Time & Expense Tracker view appears in the main pane showing the time spent working on the activity under Time Tracker, the expenses incurred while working on the activity under Expense Tracker, and the photos associated with the activity under Attachments.
3. Start a new time tracker record as follows:

   a. Next to Time Tracker, tap Start (the plus (+) icon) in the main pane.
   b. Enter the information for the new record in the fields that appear.

   The following table describes the fields. You must navigate away from the record to save your record.

Field Name	Description
Type	Select the type of time (for example: Work, Travel, Service. Consulting).
Date	Select the date of the time.
Start Time	The start time for the activity, which defaults to the current time but you can change this as required.
End Time	Type the end time for the activity. You can leave this field blank, and tap End in the main pane to record the current time in the End Time field. **Note:** The End button is supported only in online mode.
Billable	Select this check box to indicate if the time is billable. Otherwise deselect it

4. To update an existing time tracker record, tap the record field that you want to update, and then update the field value.

   You must navigate away from the record to save your changes to it.

Modifying Expense Tracker Information for an Activity

Complete the following procedure to modify the expense tracker information for an activity. Expense tracker includes information about the expenses that are incurred for the activity. You can include these expenses in a customer invoice.

To modify the expense tracker information for an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Time & Expense Tracker in the side pane.

   The Time & Expense Tracker view appears in the main pane showing the time spent working on the activity under Time Tracker, the expenses incurred while working on the activity under Expense Tracker, and the photos associated with the activity under Attachments.
3. Create a new expense tracker record as follows:

   a. Next to Expense Tracker, tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new expense incurred in the fields that appear.

      The following table describes the fields. You must navigate away from the record to save the record.

Field Name	Description
Type	Select the type of expense (for example: Car Rental, Dinner, Conference).
Amount	Type the amount to expense.
Date	The date the expense was incurred.
Comments	Type any necessary comment about the expense.
Rate	Select a rate for the expense (for example: Expense or Material).
Billable	Select this check box to indicate if the expense is billable. Otherwise deselect it.

4. To update an existing expense tracker record, tap the record field that you want to update, and then update the field value.

You must navigate away from the record to save your changes to it.

Generating Service Reports

Complete the following procedure to generate a service report for an activity.

Note: This task is supported only in online mode.

To generate a service report for an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Finish in the side pane.

   The Invoices view appears in the main pane.
3. Tap Report in the main pane to generate a service report for the activity.

   The service report appears in the main pane. The service report summarizes all the task information, readings, part tracker, time tracker, and expense tracker information for the activity.

   The field service representative shows the service report to the customer.
4. When the customer has reviewed the service report, tap OK to return to the Invoices view.

Creating Invoices from Activities in Siebel Field Service

When you create an invoice from an activity, an invoice record is automatically created for the activity using the data from the activity.

Note: This task is supported only in online mode.

To create an invoice from an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Finish in the side pane.

   The Invoices view appears in the main pane.
3. Tap Create Invoice in the main pane to create an invoice from the activity.

   A new invoice is appended to the invoice list in the main pane.

   Note: To create an invoice from an activity, note that the Billable check box must be selected on the activity.

4. Tap to preview the invoice details.

   For more information, see *Printing Invoices Associated with Activities*.
5. Tap Sign to obtain a signature for the invoice.

   For more information, see *Capturing Signatures for Invoices in Siebel Field Service*.

Printing Invoices Associated with Activities

Complete the following procedure to print an invoice associated with an activity.

Note: The print invoice capability in the Siebel Mobile application for Siebel Field Service is built using third-party open source embedded JavaScript (http://embeddedjs.com) and uses MIT licensing. For more information, see *MIT License*.

To print an invoice associated with an activity

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Finish in the side pane.

   The Invoices view appears in the main pane.
3. Tap the invoice that you want to print.
4. Tap Print to preview the invoice details.

   Use the mobile device features to print or email the invoice as required.

Capturing Signatures for Invoice in Siebel Field Service

After you create an invoice, you capture the (contact) signature for the invoice. You capture this signature to verify that the contact reviewed the invoice.

Note: Signature display is supported only in online mode.

To capture the electronic signature for an invoice

1. On the home page, tap an activity name on the calendar to drill down on the task-based screen flow for the selected activity.

   For more information about the home page, see *Using the Home Page for Siebel Field Service*.
2. Tap Finish in the side pane.

   The Invoices view appears in the main pane.
3. Tap the invoice for which you want to capture the electronic signature.
4. Capture a signature for the invoice as follows:

a. Tap Sign.

   Information about the invoice appears in the main pane. A Signature applet appears after the invoice information.
b. In the Contact field, select the name of the contact who signs for the invoice.
c. Capture the signature of the contact in the signature input box.
d. If you make a mistake when capturing the signature, tap Clear to clear the signature and start again.
e. Tap Save when finished.
f. Complete the Customer Satisfaction Survey when prompted, and then tap Finish.

> **Note:** The Customer Satisfaction Survey is supported only in online mode.

Managing Service Requests for Siebel Field Service

A *service request* is a customer request for service. It includes the activities associated with the request and information about the response to the request.

The following procedures related to service requests and service request management are included in this topic:

- *Displaying Service Request Information*
- *Modifying Activity Information for a Service Request*
- *Modifying Order Information for a Service Request*
- *Viewing Invoice Information for Service Requests*
- *Printing Invoices Associated with Service Requests*

> **Note:** You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Field Service.

Displaying Service Request Information

Complete the following procedure to display service request information.

To display service request information

1. Tap Side Menu and then tap Service Request to display the following:
   - The Service Requests list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. Update an existing service request as follows:
   a. Tap a service request in the Service Requests list.
   b. Tap the record field that you want to update, and update the field value.

      You must navigate away from the record to save your changes to it.

Note: You cannot modify service requests that are closed.

3. Create a new service request as follows:
   a. Tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new service request in the fields that appear.

   You must navigate away from the record to save the record.
4. In the Service Requests list, tap the link in the SR# field to drill down on the selected record.

   All details for the selected service request appear in the main pane, from where you can do the following:

   - *Modifying Activity Information for a Service Request*
   - *Modifying Order Information for a Service Request*
   - *Viewing Invoice Information for Service Requests*
   - *Printing Invoices Associated with Service Requests*

Modifying Activity Information for a Service Request

Complete the following procedure to modify the activity information for a service request. You can add a specific activity to a service request that is associated with an account. You can also add a miscellaneous activity, such as depositing funds at a bank or obtaining service work on a truck, to a service request that is not associated with an account.

To modify the activity information for a service request

1. Tap Side Menu and then tap Service Request to display the following:
   - The Service Requests list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. In the Service Requests list, tap the link in the SR# field to drill down on the selected record.

   All details for the selected service request appear in the main pane.
3. Update an existing service request activity as follows:
   a. Tap the down arrow next to Activities to expand and show the activities associated with the service request.
   b. Tap the activity that you want to update.
   c. Tap the record field that you want to update, and update the field value.

   You must navigate away from the record to save your changes to it.
4. Create a new service request activity as follows:
   a. Tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new activity in the fields that appear.

   You must navigate away from the record to save the record.

Modifying Order Information for a Service Request

Complete the following procedure to modify the order information for a service request.

To modify the order information for a service request

1. Tap Side Menu and then tap Service Request to display the following:
    - The Service Requests list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. In the Service Requests list, tap the link in the SR# field to drill down on the selected record.

    All details for the selected service request appear in the main pane.
3. Update an existing service request order as follows:
    a. Tap the down arrow next to Orders to expand and show the orders associated with the service request.
    b. Tap the order that you want to update.
    c. Tap the record field that you want to update, and update the field value.

    You must navigate away from the record to save your changes to it.
4. Create a new service request order as follows:
    a. Tap New (the plus (+) icon) in the main pane.
    b. Enter the information for the new order in the fields that appear.

    You must navigate away from the record to save the record.

Viewing Invoice Information for Service Requests

Complete the following procedure to view the invoice information for a service request.

To view the invoice information for a service request

1. Tap Side Menu and then tap Service Request to display the following:
    - The Service Requests list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. In the Service Requests list, tap the link in the SR# field to drill down on the selected record.

    All details for the selected service request appear in the main pane.
3. Tap the down arrow next to Invoices to expand and show the invoices associated with the service request.
4. Tap the link in the Invoice # field to drill down on the selected record and view the details of the invoice.

Printing Invoices Associated with Service Requests

Complete the following procedure to print an invoice associated with a service request.

Note: The print invoice capability in the Siebel Mobile application for Siebel Field Service is built using third-party open source embedded JavaScript (http://embeddedjs.com) and uses MIT licensing. For more information, see *MIT License*.

To print an invoice associated with a service request

1. Tap Side Menu and then tap Service Request to display the following:
   - The Service Requests list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. In the Service Requests list, tap the link in the SR# field to drill down on the selected record.

   All details for the selected service request appear in the main pane.
3. Tap the down arrow next to Invoices to expand and show the invoices associated with the service request.
4. Tap the link in the Invoice # field to drill down on the selected record and review the details of the invoice.
5. Tap Print to preview the invoice details.

   Use the mobile device features to print or email the invoice as required.

Managing Accounts for Siebel Field Service

An *account* is a company or individual with whom your company conducts business. It represents the relationship between your company and that company or individual. You can use the Account Details screen as the primary navigation tool for your customer interactions.

The following procedures related to accounts and account management are included in this topic:

- *Displaying Account Details (Siebel Field Service)*
- *Viewing Contact Information for an Account*
- *Modifying Service Request Information for an Account*
- *Viewing Asset Information for an Account*
- *Viewing Entitlement Information for an Account*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Field Service.

Displaying Account Details

You can display account details by using the Accounts list.

To display account details

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. In the Accounts list, tap the link in the Account field to drill down on the selected record.

    All details for the selected account appear in the main pane, from where you can do the following:
    - *Viewing Contact Information for an Account*
    - *Modifying Service Request Information for an Account*
    - *Viewing Asset Information for an Account*
    - *Viewing Entitlement Information for an Account*

Viewing Contact Information for an Account

Complete the following procedure to view the contact information for an account.

To view the contact information for an account

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. In the Accounts list, tap the link in the Account field to drill down on the selected record.

    All details for the selected account appear in the main pane.
3. Under Contacts, scroll through the Contacts associated with the account.

Modifying Service Request Information for an Account

Complete the following procedure to modify the service request information for an account.

To modify the service request information for an account

1. Tap Side Menu and then tap Accounts to display the following:
    - The Accounts list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. In the Accounts list, tap the link in the Account field to drill down on the selected record.

    All details for the selected account appear in the main pane.
3. Update an existing account service request as follows:

a. Tap the down arrow next to Service Requests to expand and show the service requests associated with the account.
b. Tap the service request that you want to update.
c. Tap the record field that you want to update, and update the field value.

   You must navigate away from the record to save your changes to it.

4. Create a new account service request as follows:

   a. Tap New (the plus (+) icon) in the main pane.
   b. Enter the information for the new service request in the fields that appear.

      You must navigate away from the record to save the record.

Viewing Asset Information for an Account

Complete the following procedure to view the asset information for an account.

To view the asset information for an account

1. Tap Side Menu and then tap Accounts to display the following:

   - The Accounts list in the main pane.
   - The Calendar showing the activity planning information in the side pane.

2. In the Accounts list, tap the link in the Account field to drill down on the selected record.

   All details for the selected account appear in the main pane.
3. Tap the down arrow next to Assets to expand and show the assets associated with the account.
4. Tap the link in the Asset# field to drill down on the selected record and view the details of the asset.

Viewing Entitlement Information for an Account

Complete the following procedure to view the entitlement information for an account.

To view the entitlement information for an account

1. Tap Side Menu and then tap Accounts to display the following:

   - The Accounts list in the main pane.
   - The Calendar showing the activity planning information in the side pane.

2. In the Accounts list, tap the link in the Account field to drill down on the selected record.

   All details for the selected account appear in the main pane.
3. Tap the down arrow next to Entitlements to expand and show the entitlements associated with the account.

Managing Parts for Siebel Field Service

A *part* is an item that you sell to the customer.

The following procedures related to parts and part management are included in this topic:

- *Displaying Part Details*
- *Viewing the Good and Defective Availability Information for a Part*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Field Service.

Displaying Part Details

You can display part details by using the Inventory Level list.

To display part details

- Tap Side Menu and then tap Inventory to display the following:
  - The Inventory Level list in the main pane.
  - The Calendar showing the activity planning information in the side pane.

Viewing the Good and Defective Availability Information for a Part

Complete the following procedure to view the availability information for a part.

To view the availability information for a part

1. Tap Side Menu and then tap Inventory to display the following:
   - The Inventory Level list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. To view the inventory level availability for good parts, select Good from the drop-down menu under Inventory Level.
3. To view the inventory level availability for defective parts, select Defective from the drop-down menu under Inventory Level.

Managing Orders for Siebel Field Service

An *order* is a commitment on the part of the customer to purchase products and services at a specific price. It can be generated from a quote or created directly by a sales person, call center agent, and field technician.

The following procedures related to orders and order management are included in this topic:

- *Displaying Order Details (Siebel Field Service)*
- *Modifying Order Information*
- *Modifying Line Item Information for an Order*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Field Service.

Displaying Order Details

You can display order details by using the Orders list.

To display order details

1. Tap Side Menu and then tap Orders to display the following:
   - The Orders list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. In the Orders list, tap the link in the Order # field to drill down on the selected record.
   All details for the selected order appear in the main pane, from where you can do the following:
   - *Modifying Order Information*
   - *Modifying Line Item Information for an Order*

Modifying Order Information

Complete the following procedure to modify order information.

To modify order information

1. Tap Side Menu and then tap Orders to display the following:
   - The Orders list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. Update an existing order as follows:
   a. In the Orders list, tap the link in the Order # field to drill down on the selected record.
      All details for the selected order appear in the main pane.

b. Tap the record field that you want to update, and update the field value.
You must navigate away from the record to save your changes to it.
c. To add more line items to the order, see *Modifying Line Item Information for an Order*.

You cannot create a new order from the Orders view. You can create a new order by navigating to one of the following views:

- Activities, then Recommended Parts and Tools. For more information, see *Verifying and Ordering Parts and Tools for an Activity*.
- Activities, then Part Tracker (and using the RMA link). For more information, see *Removing a Serialized Part*.

Modifying Line Item Information for an Order

Complete the following procedure to modify the line item information for an order.

To modify the line item information for an order

1. Tap Side Menu and then tap Orders to display the following:
   - The Order s list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. In the Orders list, tap the link in the Order # field to drill down on the selected record.
All details for the selected order appear in the main pane.
3. Update an existing order line item as follows:
   a. Tap the line item that you want to update.
   b. Tap the record field that you want to update, and update the field value.
   You must navigate away from the record to save your changes to it.
4. Create a new order line item as follows:
   a. Tap New (the plus (+) icon).
   b. Enter the information for the new line item in the fields that appear.
   You must navigate away from the record to save the changes to it.

Managing Invoices for Siebel Field Service

An *invoice* is a bill to the customer for parts, labor, and other expenses that you incur.

The following procedures related to invoices and invoice management are included in this topic:

- *Displaying Invoice Details (Siebel Field Service)*
- *Viewing Line Item Information for an Invoice*
- *Printing Invoices*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Field Service.

Displaying Invoice Details

You can display invoice details by using the Invoices list.

To display invoice details

1. Tap Side Menu and then tap Invoices to display the following:
   - The Invoices list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. In the Invoices list, tap the link in the Invoice # field to drill down on the selected record.

   All details for the selected invoice appear in the main pane, from where you can do the following:
   - *Viewing Line Item Information for an Invoice*
   - *Printing Invoices*

Viewing Line Item Information for an Invoice

Complete the following procedure to view the line item information for an invoice.

To view the line item information for an invoice

1. Tap Side Menu and then tap Invoices to display the following:
   - The Invoices list in the main pane
   - The Calendar showing the activity planning information in the side pane.
2. In the Invoices list, tap the link in the Invoice # field to drill down on the selected record.

   All details for the selected invoice appear in the main pane.

Printing Invoices

Complete the following procedure to print an invoice.

Note: The print invoice capability in the Siebel Mobile application for Siebel Field Service is built using third-party open source embedded JavaScript (http://embeddedjs.com) and uses MIT licensing. For more information, see *MIT License*.

To print an invoice

1. Tap Side Menu and then tap Invoices to display the following:
    - The Invoices list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. In the Invoices list, tap the link in the Invoice # field to drill down on the selected record.

   All details for the selected invoice appear in the main pane.
3. Tap Print to preview the invoice details.

   Use the mobile device features to print or email the invoice as required.

Managing Assets for Siebel Field Service

An *asset* is property or an item of value that your company owns.

The following procedures related to assets and asset management are included in this topic:

- *Displaying Asset Details*
- *Viewing Measurement Information for an Asset*
- *Capturing a Reading for an Asset*
- *Viewing Warranty Information for an Asset*
- *Viewing Service Request Information for an Asset*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Field Service.

Displaying Asset Details

You can display asset details by using the Assets list.

To display asset details

1. Tap Side Menu and then tap Assets to display the following:
    - The Assets list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. In the Assets list, tap the link in the Asset # field to drill down on the selected record.

   All details for the selected asset appear in the main pane, from where you can do the following:
    - *Viewing Measurement Information for an Asset*
    - *Capturing a Reading for an Asset*
    - *Viewing Warranty Information for an Asset*

- *Viewing Service Request Information for an Asset*

Viewing Measurement Information for an Asset

Complete the following procedure to view the measurement information for an asset. You might view measurement information to record readings for utility meters or to measure hydraulic pressure.

To view the measurement information for an asset

1. Tap Side Menu and then tap Assets to display the following:
   - The Assets list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. In the Assets list, tap the link in the Asset # field to drill down on the selected record.
   All details for the selected asset appear in the main pane.
3. Under Readings, use the navigation arrows to move through the list of different readings that can be captured.
   For example: Pump Pressure, Odometer, and Oil Pressure.

Capturing a Reading for an Asset

For tasks such as taking a utility meter reading or measuring hydraulic pressure, you must record an asset reading.

To capture a reading for an asset

1. Tap Side Menu and then tap Assets to display the following:
   - The Assets list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. In the Assets list, tap the link in the Asset # field to drill down on the selected record.
   All details for the selected asset appear in the main pane.
3. Capture a new asset reading as follows:
   a. Under Readings, use the navigation arrows to move through the list of different readings that can be captured.
   b. Tap an individual reading, and then tap New (the plus (+) icon) to capture a new reading.
   c. Enter the information for the new reading in the fields that appear, and then save the record.

Viewing Warranty Information for an Asset

Complete the following procedure to view the warranty information for an asset.

To view the warranty information for an asset

1. Tap Side Menu and then tap Assets to display the following:

- The Assets list in the main pane.
- The Calendar showing the activity planning information in the side pane.

2. In the Assets list, tap the link in the Asset # field to drill down on the selected record.

   All details for the selected asset appear in the main pane.
3. Tap the down arrow next to Warranty to expand and show the warranties associated with the asset.
4. Tap the warranty that you want to view.

Viewing Service Request Information for an Asset

Complete the following procedure to view the service request information for an asset.

To view the service request information for an asset

1. Tap Side Menu and then tap Assets to display the following:

   - The Assets list in the main pane.
   - The Calendar showing the activity planning information in the side pane.
2. In the Assets list, tap the link in the Asset # field to drill down on the selected record.

   All details for the selected asset appear in the main pane.
3. Tap the down arrow next to Service Requests to expand and show the service requests associated with the asset.

   Tap the link in the SR # field to drill down on the selected record.

Managing Shifts for Siebel Field Service

A *shift* is an established time interval in which employees perform work.

The following procedures related to shifts and shift management are included in this topic:

- *Displaying Shift Details*
- *Starting and Ending a Shift*
- *Starting and Ending a Break*
- *Starting or Ending a Period of Unavailability*

Note: You must complete the relevant setup tasks detailed in *Siebel Applications Administration Guide* before using the Siebel Mobile application for Siebel Field Service.

Displaying Shift Details

You can display shift details by using the Shifts list. You can update shift information, including breaks and periods of unavailability (POUs), only if you use Siebel Real-time Scheduler Version 2.1 or later as your scheduling engine and Siebel Field Service Integration to Oracle Real-time Scheduler Version 2.1 or later integration pack for the integration.

Note: Updating shift information, including breaks and POUs, is supported only in online mode.

To display shift details

1. Tap Side Menu and then tap Shifts to display the following:
    - The Shift list in the main pane from where you can do the following:
        - View and update the shift information, see *Starting and Ending a Shift*.
        - View and update the break information for the shift, see *Starting and Ending a Break*.
        - View and update the period of unavailability (POU) information for the shift, see *Starting or Ending a Period of Unavailability*.
    - The Calendar showing the activity planning information in the side pane.

Starting and Ending a Shift

Complete the following procedure to start and end a shift.

To start and end a shift

1. Tap Side Menu and then tap Shifts to display the following:
    - The Shift list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. Tap a shift record in the main pane.
3. Tap Start when you start the shift to record your start time and date.
4. Tap Complete when you end the shift to record your end time.

Starting and Ending a Break

Complete the following procedure to start and end a break.

To start and end a break

1. Tap Side Menu and then tap Shifts to display the following:
    - The Shift list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. Tap a break record in the main pane.

3. Tap Start when you start the break to record your start time and start date.
4. Tap Complete when you end the break to record your end time.

Starting or Ending a Period of Unavailability

Complete the following procedure to start or end a period of unavailability (POU) for a shift.

To start or end a period of unavailability

1. Tap Side Menu and then tap Shifts to display the following:
    - The Shift list in the main pane.
    - The Calendar showing the activity planning information in the side pane.
2. Tap a POU record in the main pane.
3. Tap Start when you start the POU to record the start time and date.
4. Tap Complete when you end the POU to record your end time.

Tasks Flows for Siebel Field Service

Siebel Field Service representatives travel from one customer location to another performing jobs like installation and repairs. This topic summarizes the typical Siebel Field Service task flows that field service representatives or technicians carry out on a daily basis and lists the topics that you should review for further information.

Siebel Field Service task flows are divided into the following areas:

- *Starting the Day*.
- *Preparing for Customer Visits*
- *Working on a Job*
- *Finishing a Job*

Starting the Day

Siebel Field Service representatives typically perform the following tasks at the start of each day to plan their daily activities:

- Review the daily activities and schedule. For more information, see *Reviewing Activity Information*.
- View the route for the day (that is, view the locations for the activities on the map). For more information, see *Reviewing Activity Information*.
- View the notifications list. For more information, see *Reviewing Notification Messages in Siebel Mobile* and *Displaying Location Details in Siebel Mobile*.

Preparing for Customer Visits

Siebel Field Service representatives prepare for meetings and customer visits by reviewing all the information associated with the activity. Typical tasks to perform for each activity include the following:

- Review the activity information. For more information, see *Reviewing Activity Information*.
- Review the tasks or instructions for the activity and other information (such as service requests, asset details, contact information, account information, and documentation) associated with the activity. For more information, see *Displaying Activity Details (Siebel Field Service)*.
- Review the inventory in the trunk. If parts are not available in the trunk, then order them. For more information, see *Verifying and Ordering Parts and Tools for an Activity*.
- Confirm the availability of substitute parts. For more information, see *Viewing Substitute Information for a Part*.
- If you have the skills to complete an activity, then accept the activity to work on it otherwise decline the activity. For more information, see *Accepting an Activity*.
- Review the tasks needed to complete the activity. For more information, see *Recording Task Completion for an Activity*.

Working on a Job

Siebel Field Service representatives start working on a job when they reach the customer site. Typical tasks to perform include the following:

- Complete each activity task as required and record completion of each task. For more information, see *Recording Task Completion for an Activity*.
- Record and update readings as required. For more information, see *Capturing Asset Readings for an Activity*.
- Attach media to the service request as required. For example, take a picture or video of the damaged part and attach it to the service request. For more information, see *Attaching Media to an Activity*.
- Track the movement of parts and nonserialized parts. For more information, see *Modifying Part Tracker Information for an Activity*.
- Remove serialized parts. For more information, see *Removing a Serialized Part*.
- Install replacement serialized parts. For more information, see *Installing a Replacement Serialized Part*.
- Record the time that you spent working to complete the activity. For more information, see *Modifying Time Tracker Information for an Activity*.
- Record any expenses that you incurred while working to complete the activity. For more information, see *Modifying Expense Tracker Information for an Activity*.

Finishing a Job

Siebel Field Service representatives finish work on a job by completing the following tasks:

- Verify that all tasks for the activity are complete. For more information, see *Recording Task Completion for an Activity*.

- Generate a service report for the activity and show it to the customer. For more information, see *Generating Service Reports*.
- Create an invoice for the activity. For more information, see *Creating Invoices from Activities in Siebel Field Service*.
- Capture the (contact) signature for the invoice. For more information, see *Capturing Signatures for Invoices in Siebel Field Service*.
- Record customer feedback to the service provided. For more information, see *Capturing Signatures for Invoices in Siebel Field Service*.
- Record the end time for the activity after you finish work on the job. For more information, see *Modifying Time Tracker Information for an Activity*.

Unsupported Siebel Field Service Features in Offline Mode

The features listed in this topic are not supported in offline mode in the Siebel Mobile disconnected application for Siebel Field Service. You must be connected to the Internet and, in some cases, to the Siebel Server to do the following in your Siebel Mobile disconnected application for Siebel Field Service:

- Attach media (photo or video) to an activity. For more information, see *Attaching Media to an Activity*.
- Use the End button for time tracker. For more information, see *Modifying Time Tracker Information for an Activity*.
- Generate service reports. For more information, see *Generating Service Reports*.
- Create invoices from activities. For more information, see *Creating Invoices from Activities in Siebel Field Service*.
- Capture electronic signatures. For more information, see *Capturing Signatures for Invoices in Siebel Field Service*.
- Complete the customer satisfaction survey. For more information, see *Capturing Signatures for Invoices in Siebel Field Service*.
- Update shift information, including breaks and periods of unavailability (POUs). For more information, see *Displaying Shift Details*.

For more information about the general features that are not supported in offline mode, see *Unsupported Siebel Mobile Features in Offline Mode*.

13 CardDAV Dynamic Mapping

Siebel CardDAV Dynamic Mapping

This chapter includes information about how to set up and enable CardDAV dynamic mapping for Siebel. It contains the following topics:

- *About CardDAV*
- *Setting Up CardDAV Dynamic Mapping for Siebel CRM*
- *Enabling CardDAV Dynamic Mapping for Siebel CRM*
- *Default Supported CardDAV Clients*
- *Supported CardDAV Synchronization*
- *Contact Properties*
- *Contact Company Property*
- *Type Property*
- *Type Conversion Mappings*
- *Known Limitations for Siebel CardDAV Dynamic Mapping*
- *Known Limitations for Outlook CardDAV Clients*

About CardDAV

CardDAV (vCard Extensions to WebDAV) is a client-server protocol designed to allow users to access and share address book or contact data on a server. CalDAV (Calendaring Extensions to WebDAV) is an internet standard designed to allow users to access and share calendar data on a remote server. By supporting both standards, users are able to view and update Siebel Business Application contact/address book data and calendar information on Apple iOS 9.x mobile devices.

Setting Up CardDAV Dynamic Mapping for Siebel CRM

Before you can use CardDAV functionality in Siebel applications, you must set up CardDAV dynamic mapping. CardDAV dynamic mapping defines the mapping between Siebel objects and the CardDAV properties. The Siebel CardDAV Sync module synchronizes the defined entities (address book and contact data) accordingly between mobile devices and Siebel CRM applications.

Siebel CardDAV dynamic mapping supports:

- Google Maps Geocoding API integration (with geocoding response in JSON) to normalize address data.

  Note: Customers are responsible for Google Maps API licensing.

- Addresses containing non-ASCII characters.
- Non-US addresses with a specified Province or County.

Before setting up CardDAV dynamic mapping for Siebel CRM deployments, the following requirements apply:

- Install the latest Siebel Innovation Pack.
- Configure Transport Layer Security (TLS) in Siebel Application Interface. For more information, see *Siebel Security Guide* .
- Configure the server environment to enable CardDAV or CalDAV functionality. For more information, see *Siebel Installation Guide* and also *Siebel System Administration Guide* and additional documentation on Siebel Bookshelf for Siebel Enterprise Application Integration.
- In the Siebel CRM applications, valid email addresses must be associated with all Employees and Contacts. For each mobile user, the email address defined in Siebel CRM must match the user's email address on the mobile device. For more information, see *Setting Up CalDAV and CardDAV Publishing* and *Siebel Applications Administration Guide* .
- Users of mobile devices must set up CardDAV and CalDAV publishing on their devices in order to be able to access contact or calendar data. For more information, see *Setting Up CalDAV and CardDAV Publishing*.
- Enable CardDAV dynamic mapping between Siebel objects and CardDAV properties. For more information, see *Enabling CardDAV Dynamic Mapping for Siebel CRM*.
- Review the remaining sections in this appendix:
  - *Default Supported CardDAV Clients*
  - *Supported CardDAV Synchronization*
  - *Type Conversion Mappings*
  - *Known Limitations for Siebel CardDAV Dynamic Mapping*

Enabling CardDAV Dynamic Mapping for Siebel CRM

To set up CardDAV dynamic mapping between Siebel objects and CardDAV properties, do the following:

- Make sure that the following CardDAV Workflows are activated:
  - SiebDAV vCard Sync Decision Sub Process
  - SiebDAV vCard Sync Process
- (Required) Define System Preference to point to the CardDAV main workflow:

```
Name = "CardDAV Dynamic Mapping WFP"
Value = "SiebDAV vCard Sync Process"
```

- (Optional) To enable Google Maps Geocoding API integration to normalize the address, define System Preference for Google Maps Geocoding API integration as follows:

```
Name = "Google API Key"
Value = ""
```

  For more information about Google Maps Geocoding API, see *Google Maps Geocoding API Integration*.

Default Supported CardDAV Clients

Siebel CardDAV dynamic mapping is supported on:

- iOS 9.x mobile devices with vCard 3.0.
- Third-party CardDAV clients:
  - For Android, such as, Kerio Connect Sync Android client or CardDAV-Sync Android CardDAV client.
  - For Outlook, such as, Outlook CalDavSynchronizer plugin (sync Outlook with Google, SOGo, or any other CalDAV or CardDAV server).

  Note: These are examples of CardDAV clients and are not supported by Oracle.

To override the supported CardDAV clients, add the User Properties to the CalDAV Service business service where for example:

```
Name = "Supported CardDAV UserAgent Prefix 2"
Value = "iOS/10"
```

For example:

```
"Supported CardDAV UserAgent Prefix 2": "iOS/10"
```

The prefix in the Value field must be confirmed when the version information becomes available. You must define all the supported CardDAV UserAgent prefixes here so that you override the default supported prefix.

Supported CardDAV Synchronization

The following standard vCard 3.0 properties are supported for synchronization:

- *Contact Properties*
- *Contact Company Property*
- *Type Property*

Extension properties, except X-ABLabel and X_ABADR are not supported.

Unspecified properties are not supported and will not be preserved after synchronization.

Contact Properties

The following table lists the vCard 3.0 Contact properties that are supported with two-way synchronization (data upload and data download).

Contact Property	Maximum Supported Length
First Name (Required)	50
Last Name (Required)	50
Middle Name	50
Prefix	15. For more information, see *About the Prefix Contact Property*.
Suffix	15. For more information, see *About the Suffix Contact Property*.
Alias	50
Job Title	75
Note	255. Note that multiple lines of data are also supported.
Birthday	Not applicable. For more information, see *About the Birthday Contact Property*.

About the Prefix Contact Property

When uploading the Contact's prefix data to Siebel, the data is converted to LIC (language independent code) before saving the data in Siebel. If the data cannot be converted, then the prefix data is discarded. Invalid prefix data cannot be saved (because picklist is bounded) in Siebel.

- "Bounded Pick List: PickList MrMs
- "LOV Type: MR_MS

About the Suffix Contact Property

When uploading the Contact's suffix data to Siebel, the data is converted to LIC (language independent code) before saving the data in Siebel. If the data cannot be converted, then the suffix data is discarded. Invalid suffix data cannot be saved (because picklist is bounded) in Siebel.

- "Bounded Pick List: FIN PickList Suffix
- "LOV Type: FINS_SUFFIX_MLOV

About the Birthday Contact Property

Apple iOS supports no year-date data. Internally, iOS stores the year as 1604 for no year-date data. The earliest year-date data that Siebel supports is 1753. So when synchronizing with the iOS CardDAV client or Android CardDAV client, 1753 is used to indicate the no year-date data.

- When uploading data (upload synchronization), any year-date data less than or equal to 1753 is stored in Siebel as the year 1753.

  For example:

  April 1, 1754 on an iOS and Android CardDAV client uploads to Siebel as 04/01/1754.

  April 1, 1700 on an iOS and Android CardDAV client uploads to Siebel as 04/01/1753.

  April 1 on an iOS and Android CardDAV client uploads to Siebel as 04/01/1753
- When downloading data (download synchronization), the Siebel date year 1753 is converted to the year 1604, and the data shows up in the CardDAV client as follows:
  - In the iOS CardDAV client as no year-date data.
  - In the Android CardDAV client as date data with the year 1604.

    For example:

    04/01/1754 on Siebel downloads to the iOS and Android CardDAV client as April 1, 1754.

    04/01/1753 on Siebel downloads to the iOS CardDAV client as April 1.

    04/01/1753 on Siebel downloads to the Android CardDAV client as April 1, 1604.

Contact Company Property

The vCard 3.0 Contact Company property refers to the contact's Primary Account in Siebel, and is supported for (data download and upload) synchronization as follows:

- Uploading Company data is supported only for newly created contacts. Any updates made to the Company of an existing Contact are ignored and are not uploaded (or synchronized) to the server.
- The latest contact primary account data is downloaded again to the client in the subsequent synchronization.
- The Contact's Department data in Siebel is not supported for synchronization.

Note the following about deleting Contact Company data:

- If a user is not the primary sales team member of a contact, then that user cannot delete the contact on the server or the client. Because CardDAV client does not have the same record level access control that Siebel has, the user can still delete the contact on the client. Synchronization fails, however, during the subsequent data upload and the server (Siebel CardDAV service) returns an error code 403 in the log file. During the next synchronization, the deleted contact is re-downloaded from the server to the client.

- If a user is the primary sales team member of a contact, then that user can delete the contact on the server and the client. If the contact is deleted on the client and data upload synchronization is then performed, the deleted contact will be removed from the server as well.

Type Property

The vCard 3.0 Type or Label property supports the Siebel contact's Phone, Email, URL, and Address LOV types (child components). Siebel LOV types that are not a predefined type in the iOS and Android CardDAV client are handled as follows:

- When the vCard is constructed during data download synchronization, a custom label is automatically created for Siebel LOV types that are not a predefined type in the iOS and Android CardDAV client.
- Custom labels are not supported for Address on the Siebel side because there is no extra schema to store the custom label data for the Siebel Address object.
- Any non-Siebel LOV custom labels for Phone/Voice, Email, and URL are stored as a Personal type, and the custom label is stored in the Description field.
- Use a combination of Use Type and Description to handle some iOS and Android CardDAV client predefined types/labels as follows:
  - iOS CardDAV client phone's iPhone type Stored in Siebel:

    ```
    UseType="Cell" and Description="type=IPHONE"
    ```
  - iOS CardDAV client email's iCloud type Stored in Siebel:

    ```
    UseType="Personal" and Description="iCloud"
    ```
  - iOS CardDAV client URL's homepage type Stored in Siebel:

    ```
    UseType="Personal" and Description="_$!<HomePage>!$_"
    ```
  - Android CardDAV client phone's Company Main type Stored in Siebel:

    ```
    UseType="Personal" and Description="Company Main"
    ```
- If PhoneNumber, FaxNumber, EmailAddress, or URL data is not specified, then those entries are ignored and the information is discarded during upload synchronization to Siebel.

Type Property: Phone

The vCard 3.0 Type property supports the Siebel contact's Phone LOV type (child component) as follows:

- The VOICE and FAX Type property is supported.
- The Phone Number property is supported.
- The iOS-specific iPhone type is supported.
- Alphanumeric phone and fax numbers are supported.
- Custom labels for the TEL/VOICE type sent from the client are supported.

  If the custom label is not a Siebel Type entry, then the type is stored as Personal in Siebel and the custom label is stored in the Description field.
- Both iOS and Android CardDAV clients do not support the custom label for the Phone/Fax type.

If a Siebel user creates a fax number with a non-default type in Siebel (for example: Personal, Campus, or Dormitory), it becomes other fax type/label in the iOS and Android CardDAV client after synchronization. Eventually on the Siebel side, the Phone/Fax type is updated to other fax type implicitly.

- The Primary entry is handled as follows when synchronizing Siebel Phone/Fax data to the CardDAV client:
  - In the CardDAV/vCard client, there is only one TEL with type=pref entry (primary). In Siebel, TEL is split into Phone and Fax child components and each one has its own primary record.
  - When data comes from the CardDAV client into Siebel, the type=pref (VOICE or FAX) entry is honored as the primary in Siebel. The first non pref of another type is assigned as the Primary in Siebel.
  - When data is returned back to the CardDAV client, determining which Phone or Fax's primary entry is the original primary (type=pref entry) on the CardDAV client-side is difficult. Currently, the Phone's primary is chosen as the TEL's type=pref entry - however, this might unexpectedly change the user's setting.
- Updating a contact's Work Phone, Home Phone #, Cell Phone #, and Main Fax # is supported during CardDAV download synchronization, provided those numbers do not exist in the child Phone or Fax entries.

Download Synchronization

The supported behavior for download synchronization is as follows:

- The child Phone/Fax's existing primary entry based on the Contact's phone number will not be altered.
- The child Phone or Fax number will automatically be created in the CardDAV client (vCard) with the appropriate type only if no such number entry exists in the child Phone or Fax. If a child Phone or Fax number exists but the type is different, then another child Phone or Fax number will not be created.
  - Create a phone entry with label as work (iOS) or Work (Android) on client based on Contact's Work Phone #

    ```
    vCard: TEL;type=WORK;type=VOICE
    ```
  - Create a phone entry with label as home (iOS) or Home (Android) on client based on Contact's Home Phone #

    ```
    vCard: TEL;type=HOME;type=VOICE
    ```
  - Create a phone entry with label as mobile (iOS) or Mobile (Android) on client based on Contact's Cell Phone #

    ```
    vCard: TEL;type=CELL;type=VOICE
    ```
  - Create a fax entry with label as work fax (iOS) or Work Fax (Android) on client based on Contact's Main Fax #

    ```
    vCard: TEL;type=WORK;type=FAX
    ```

    > **Note:** Users will not be able to remove all phone entries from the CardDAV client if the server-side contact has at least one single value for Work Phone #, Home Phone #, Cell Phone #, and Main Fax #. The subsequent synchronization recreates the child phone entry based on the contact's single value phone/fax number.

Upload Synchronization

The supported behavior for upload synchronization is as follows:

- The Work Phone #, Home Phone #, Cell Phone #, and Main Fax # for contacts will be updated on the server only for newly created contacts.
- If a user updates an existing contact, the server-side Work Phone #, Home Phone #, Cell Phone # and Main Fax # data for the contact will not be modified.

Related Topic

Type Conversion Mappings

Type Property: Email

The vCard 3.0 Type property supports the Siebel contact's Email LOV type (child component) as follows:

- The Mail Type property is supported (maximum supported length is 100).
- The Email Address property is supported (maximum supported length is 100).
- The iOS-specific iCloud email type is supported.
- Custom labels sent from the client are supported.
  If the custom label is not a Siebel Type entry, then the type is stored as Personal in Siebel and the custom label is stored in the Description field.
- Updating a contact's single value Email Address property is supported.

Download Synchronization

The supported behavior for download synchronization is as follows:

- The child Email's existing primary entry based on the Contact's phone number will not be altered.
- The child Email entry will automatically be created in the vCard with work type only if no such email address entry exists in the child Email. If the child Email address entry exists but the type is different, then another child Email address entry will not be created.
  - Create an email entry with label as work (iOS) or Work (Android) on client based on Contact's Email Address

    ```
    vCard: EMAIL;type=INTERNET;type=WORK
    ```

> **Note:** Users will not be able to remove all emails from the CardDAV client if the server-side contact has a single value for Email Address. The subsequent synchronization recreates the child email based on the contact's single value Email Address.

Upload Synchronization

The supported behavior for upload synchronization is as follows:

- The Email Address for contacts will be updated on the server only for newly created contacts.

- If a user updates an existing contact, the server-side Email Address for the contact will not be modified.

Related Topic

Type Conversion Mappings

Type Property: URL

The vCard 3.0 Type property supports the Siebel contact's URL LOV type (child component) as follows:

- The URL Type property is supported (maximum supported length is 100).
- The URL Address property is supported (maximum supported length is 100).
- The primary URL is not supported (Siebel does not have the schema to support it).
- The iOS-specific homepage URL type is supported.
- Custom labels sent from the client are supported.

  If the custom label is not a Siebel Type entry, then the type is stored as Personal in Siebel and the custom label is stored in the Description field.

Related Topic

Type Conversion Mappings

Type Property: Address

The vCard 3.0 Type property supports the Siebel contact's Address LOV type as follows:

- The Address LOV type supports the child components listed in the following table. Note the following about the Address property type:
  - US and non US addresses are supported.

    During data upload synchronization, the iOS CardDAV client stores US address State data and non-US address Province or County data at the same Region portion of the ADR line. Siebel stores the Region data into the same appropriate State, Province, or County field.

    - US address State data is stored in the State field.
    - Ireland and United Kingdom County data is stored in the County field.
    - All other non-US address Province data is stored in the Province field whenever applicable.

    This behavior is enforced in the SiebDAV_vCardXMLToXMLDoc.xsl file.
  - If the display language for the iOS device is set to non-ENU, then the iOS CardDAV Address Country name is sent (during upload synchronization) in its own localized language display.

    Because of the bounded Country picklist restriction, the localized Country name must be converted into a language independent code (LIC) before it is stored and the data saved in Siebel. All en-us Country name-to-LIC conversion codes are defined in the SiebDAVCountryNameConversion.xsl file. However, there are only some examples of non-ENU Country name to LIC conversion codes in the same xsl file. To

support more non-ENU iOS display clients, the SiebDAVCountryNameConversion.xsl must be enhanced (by the customer) to include more languages.

- If the Country name is selected for an address in Siebel, then after the download synchronization, that Country name is displayed as is on the iOS CardDAV client.
- The US State data can be any text that the user enters on their device. If the US State data entered cannot be converted to the Siebel State LIC (language independent code), then it cannot be saved to the state field because the State field picklist is bounded. To prevent data loss, Siebel appends the unrecognizable US State name after the StreetAddress 2 field, and the data is separated with a comma (", ").
- If the Country name data entered (for example, Montenegro) cannot be converted to the Siebel Country LIC (language independent code), then it cannot be saved to the country field because the Country field picklist is bounded. To prevent data loss, Siebel appends the unrecognizable Country name after the StreetAddress 2 field, and the data is separated with a comma (", ").

- The custom label for Address is not supported when uploading data (upload synchronization) to Siebel. Siebel does not have the extra address field to store the custom label. After uploading data, Address shows up as empty/no type in Siebel and later becomes other type in the CardDAV client after downloading data (download synchronization)

Contact Property	Maximum Supported Length	Comments
Address Type	30	None.
Apartment Number	5	None.
Street Address	200	This required field will be set to "---" if it is not specified.
Street Address 2	100	None.
City	50	This required field will be set to "---" if it is not specified.
State	10	Bounded Pick list: PickList State LOV Type: STATE_ABBREV
Zipcode	30	None.
County	50	None.
Province	50	None.
Country	30	Bounded Pick list: PickList Country LOV Type: COUNTRY

Related Topic

Type Conversion Mappings

Google Maps Geocoding API Integration

Note: Customers are responsible for Google Maps API licensing.

Google Maps Geocoding API integration is supported to normalize the address. Note the following about Google Maps Geocoding API integration:

- The address line, containing the "ADR" property, in the vCard is processed.
- The address line, which contains none of the required Siebel fields, is validated:
  - To define the required Siebel fields, use the ValidvCardAddressLine Input Argument of the Workflow Process Step: "Normalize Address".
  - The default setting is ";;x;x;;;x" which indicates that the StreetAddress, City, or Country portion of the address data will be checked to see if it is empty. If any portion of the address is empty, then Google Maps Geocoding API is invoked to normalize the address data.
- The address line is reconstructed based on the Google Maps Geocoding API Response and vCardAddressFormat of the "CalDAV Service" Business Service user property:
  - The default setting for vCardAddressFormat is:

    ```
    ;;street_number route;locality;administrative_area_level_1;postal_code;country:long_name
    ```
  - You can customize different address formats for each country. The following address format for Germany is available by default:

    ```
    vCardAddressFormat-DE

    ;;route street_number;locality;;postal_code;country:long_name
    ```
- Siebel will keep the original address line unchanged if the address line data cannot be processed by Google (for example, if there is an empty response).
- Google Maps Geocoding API does not always handle the following entities as expected: PO Box, Apt#, or Unit#. In some cases, this data is lost after being processed by Google.
- Google Maps Geocoding API might return more than one "address_components". When this happens, all matching addresses that are returned from Google will be added to Siebel, and the address records will be cleansed later. For example, if the input address line contains only "San Jose", then the Google Maps Geocoding API might return, for example, the following matching addresses:

  ```
  "formatted_address" : "San Jose, CA, USA",
  "formatted_address" : "San Jose, NM 87565, USA",
  "formatted_address" : "San Jose, IL 62682, USA",
  ```

For more information about Google Maps Geocoding API and how to obtain the API key, see the following:

- https://developers.google.com/maps/documentation/geocoding/start
- https://developers.google.com/maps/documentation/geocoding/get-api-key
- https://developers.google.com/maps/documentation/geocoding/usage-limits

Related Topic

Type Conversion Mappings

Type Conversion Mappings

The following topics are included in this section:

- *Type Conversion Mappings for Phone*
- *Type Conversion Mappings for Fax*
- *Type Conversion Mappings for Email*
- *Type Conversion Mappings for URL*
- *Type Conversion Mappings for Address*

Note: Description values specified in this section do not contain the double quotes around the value

Type Conversion Mappings for Phone

The following table shows the type conversion mappings for phone.

Siebel Phone Type LOV	CardDAV Client	Display Label	vCard TEL/VOICE Type
Home	iOS	home	TEL;type=HOME;type=VOICE
	Android	Home	TEL;type=HOME;type=VOICE
Business	iOS	work	TEL;type=WORK;type=VOICE
	Android	Work	TEL;type=WORK;type=VOICE
Other	iOS	other	TEL;type=OTHER;type=VOICE
	Android	Other	TEL, or if it is a primary at Siebel then: TEL;type=OTHER;type=VOICE;type=pref
Cell	iOS	mobile	TEL;type=CELL;type=VOICE
	Android	Mobile	TEL;type=CELL;type=VOICE
Cell with Description = "type=IPHONE"	iOS	iPhone	TEL;type=IPHONE;type=CELL;type=VOICE
	Android	Custom label as iPhone	TEL;type=IPHONE;type=CELL;type=VOICE
Main	iOS	main	TEL;type=MAIN

Siebel Phone Type LOV	CardDAV Client	Display Label	vCard TEL/VOICE Type
	Android	Main	TEL;type=MAIN, supported only for download synchronization. There is no upload synchronization support. The vCard line sent becomes Tel;Type=VOICE;TYPE=PREF, and will be converted to Other type on the server.
Pager 1	iOS	pager	TEL;type=PAGER
	Android	Pager	TEL;type=PAGER
Personal	iOS and Android	Custom label as Personal	<group>.TEL <group>.X-ABLabel:Personal
Personal with Description = "MyCustLabel"or the Android's bold predefined labels	iOS and Android	Custom label as specified in Description Example: MyCustLabel	<group>.TEL <group>.X-ABLabel: MyCustLabel
	Android	Predefined labels: 1. Callback 2. Car 3. Company Main 4. ISDN 5. Radio 6. Telex 7. TTY TDD 8. Work Mobile 9. Work Pager 10. Assistant 11. MS	1. <group>.X-ABLabel:callback 2. TEL;TYPE=CAR 3. <group>.TEL;TYPE=VOICE;TYPE=WORK 4. TEL;TYPE=ISDN 5. <group>.X-ABLabel:radio 6. <group>.X-ABLabel:telex 7. <group>.X-ABLabel:TTY/TDD 8. TEL;type=VOICE;type=CELL;type=WORK After download-synchronization from the server to the client, the Android client cannot consume this type definition. So the label becomes Other on the Android CardDav client. 9. TEL;type=PAGER;type=WORK 10. <group>.X-ABLabel:assistant 11. <group>.TEL;TYPE=CELL <group>.X-ABLabel:mms
All other LOV values: • Campus • Dormitory • Fax • Pager 2	iOS and Android	Custom label as LovValue	<group>.TEL <group>.X-ABLabel: <LovValue>

Siebel Phone Type LOV	CardDAV Client	Display Label	vCard TEL/VOICE Type
• Telex • Work The Work custom type has an uppercase W. Do not confuse this with the iOS's default work type (which has a lowercase w)			

Type Conversion Mappings for Fax

The following table shows the type conversion mappings for fax. Note the following:

- The iOS and Android CardDAV clients do not support the custom label for the TEL/FAX type. You must convert Personal, Campus, and Dormitory types to the other fax type when downloading data (download synchronization) to CardDAV clients.
- After the next data upload (client upload synchronization), any Siebel-side Fax entries of type Personal, Campus, or Dormitory will be updated to Other type implicitly.

Siebel Fax Type LOV	CardDAV Client	Display Label	vCard TEL/FAX Type
Home	iOS	home fax	TEL;type=HOME;type=FAX
Home	Android	Home Fax	TEL;type=HOME;type=FAX
Business	iOS	work fax	TEL;type=WORK;type=FAX
Business	Android	Work Fax	TEL;type=WORK;type=FAX
Other	iOS	other fax	TEL;type=OTHER;type=FAX
v	Android	Other Fax	TEL;type=OTHER;type=FAX
All other LOV Values • Personal • Campus • Dormitory	iOS	other fax	TEL;type=OTHER;type=FAX
	Android	Other fax	TEL;type=OTHER;type=FAX

Type Conversion Mappings for Email

The following table shows the type conversion mappings for email.

Siebel Email Type LOV	CardDAV Client	Display Label	vCard EMAIL Type
Home	iOS	home	EMAIL;type=INTERNET;type=HOME
Home	Android	Home	EMAIL;type=INTERNET;type=HOME
Business	iOS	work	EMAIL;type=INTERNET;type=WORK
Business	Android	Work	EMAIL;type=INTERNET;type=WORK
Other	iOS	other	<group>.EMAIL;type=INTERNET <group.X-ABLabel:_$!<Other>!$_
Other	Android	Other	EMAIL;type=INTERNET
Personal	iOS and Android	Custom label as Personal	<group>.EMAIL;type=INTERNET <group>.X-ABLabel:Personal
Personal with Description "MyCustLabel"	iOS and Android	Custom label as specified in Description Example: MyCustLabel	<group>.EMAIL;type=INTERNET <group>.X-ABLabel: MyCustLabel
All other LOV Values • Campus • Dormitory	iOS and Android	Custom label as LovValue	<group>.EMAIL;type=INTERNET <group>.X-ABLabel:<LovValue>

Type Conversion Mappings for URL

The following table shows the type conversion mappings for URL.

Siebel URL Type LOV	CardDAV Client	Display Label	vCard URL Type
Home	iOS	home	URL;type=HOME

Siebel URL Type LOV	CardDAV Client	Display Label	vCard URL Type
Home	Android	Home	URL;type=HOME
Business	iOS	work	URL;type=WORK
Business	Android	Work	URL;type=WORK
Other	iOS	other	<group>.URL <group.X-ABLabel:_$!<Other>!$_
Other	Android	Other	URL;type=OTHER
Personal	iOS and Android	Custom label as Personal	<group>.URL <group>.X-ABLabel:Personal
Personal with Description "MyCustLabel"	iOS and Android	Custom label as specified in Description Example: MyCustLabel	<group>.URL <group>.X-ABLabel: MyCustLabel
All other LOV Values • Campus • Dormitory	iOS and Android	Custom label as LovValue	<group>.URL <group>.X-ABLabel: <LovValue>

Type Conversion Mappings for Address

The following table shows the type conversion mappings for address. Note the following:

- Siebel contact Address types (Mailing Address and Business) not in the CardDAV's default types become the custom label automatically after data download synchronization to the CardDAV client.
- An empty address type in Siebel becomes other type in the CardDAV client after data download.
- The Siebel contact Address does not have an additional field to hold a custom label. As a result, the ADR entry with custom label will become empty (no value) Address type in Siebel. And the custom label defined in the CardDAV client is cleared or lost after data upload synchronization to Siebel Server. Eventually after data download synchronization, all address custom labels become other type in the CardDAV client.

Siebel Address Type LOV	CardDAV Client	Display Label	vCard ADR Type
Mailing Address	iOS	home	<group>.ADR;type=HOME <group>.X-ABADR:<CountryCode>

Siebel Address Type LOV	CardDAV Client	Display Label	vCard ADR Type
Mailing Address	Android	Home	ADR;type=HOME
Business	iOS	work	<group>.ADR;type=WORK <group>.X-ABADR:<CountryCode>
Business	Android	Work	ADR;type=WORK
<empty, no type specified>	iOS	other	<group>.ADR;type=OTHER <group>.X-ABADR:<CountryCode>
<empty, no type specified>	Android	Other	ADR
All other LOV Values • Billing • Service • Shipping • Primary Address • Customer Premise • Rate Center • Wire Center • Central Office • Seasonal • Temporary	iOS and Android	Custom label as LovValue	<group>.ADR <group>.X-ABLabel:LovValue iOS Only: <group>.X-ABADR:<CountryCode>

Known Limitations for Siebel CardDAV Dynamic Mapping

The known limitations for Siebel CardDAV dynamic mapping include the following:

1. The First Name and Last Name fields are required fields for a Contact in Siebel.
   The CardDAV client data upload synchronization fails if one or both of these fields are not specified. The CardDAV client will not notify the user about the error during data upload synchronization. Users must make sure that both First Name and Last Name fields are filled in for new Contacts on the CardDAV client.
   The sample code in the SiebDAV_vCardXMLToXMLDoc.xsl file defaults the First Name and Last Name field to "---" if the field is empty. Customers can enable the section of code as required
   Data download synchronization is blocked until the invalid contact data (that is, the empty Last Name field) is fixed or the invalid contact is deleted.

2. Data upload synchronization failure occurs if an identical StreetAddress and City are entered for different countries.

   The root cause of this is a duplicate key violation for the Address Name field. The Address Name field is constructed from the StreetAddress and City fields based on several calculated fields in the CUT Address business component. Customers must review the CUT Address business component to see if they need to change the construction of the Address Name field or not.
3. (Android only). After a data upload synchronization failure, the subsequent creation of valid contacts will result in duplicate contacts being created on the server through any future data upload synchronization.

   The root cause of this is that the Android CardDAV client resends the PUT request of the same contact with a different UID. The iOS CardDAV client does not have this issue because iOS CardDAV clients resend the same contact with the same UID.
4. When uploading the Contact's Prefix data to Siebel, the data is converted to LIC (language independent code) before saving the data in Siebel. If the data cannot be converted, then the prefix data is discarded. Invalid prefix data cannot be saved (because picklist is bounded) in Siebel.
5. When uploading the Contact's Suffix data to Siebel, the data is converted to LIC (language independent code) before saving the data in Siebel. If the data cannot be converted, then the suffix data is discarded. Invalid suffix data cannot be saved (because picklist is bounded) in Siebel.
6. Uploading a Contacts' Company data is supported only for newly created contacts. Any updates made to the Company of an existing Contact are ignored and are not uploaded (or synchronized) to the server.
7. The iOS and Android CardDAV clients do not support the custom label for the Phone/Fax type. If a user creates a Fax number with a non-default type (for example: Personal, Campus, or Dormitory) in Siebel, it becomes an other fax type on the iOS and Android CardDAV client after synchronization. Eventually on the Siebel side, the type will be updated to Other type implicitly.
8. If PhoneNumber, FaxNumber, EmailAddress, or URL data is not specified, then those entries are ignored and the information is discarded during upload synchronization to Siebel.
9. US State data can be any text that the user enters on their device. If the US State data entered cannot be converted to the Siebel State LIC (language independent code), then it cannot be saved to the state field because the State field picklist is bounded. To prevent data loss, Siebel appends the unrecognizable US State name after the StreetAddress 2 field, and the data is separated with a comma (", ").
10. If the Country Name data entered (for example, Montenegro) cannot be converted to the Siebel Country LIC (language independent code), then it cannot be saved to the country field because the Country field picklist is bounded. To prevent data loss, Siebel appends the unrecognizable Country name after the StreetAddress 2 field, and the data is separated with a comma (", ").
11. For Siebel Address, Country is not a required field. If the Country field is empty after data download synchronization to the iOS client, then it will default to the current Region of the iOS device.

    Using the United States region as an example, if the issue occurs for an address created on the iOS client where the Country (for example: Montenegro) data is not supported by Siebel. After data upload synchronization to Siebel, the Country field data is empty. Then after data download synchronization to the iOS CardDAV client, the Country field data is United States.
12. The Siebel contact Address does not have an additional field to hold a custom label. As a result, the Address entry with custom label will become an empty (no value) Address type in Siebel. And the custom label defined in the CardDAV client is cleared or lost after data upload synchronization to Siebel Server. Eventually after data download synchronization, all address custom labels become Other type in the CardDAV client.
13. (Android only). The Android CardDAV client does not include the display language of the device when sending requests (in the HTTP header's "Accept Language" property) to Siebel. As a result, Siebel sends back only the Address Country name in en-us display to the Android CardDAV client. This is not an issue for the iOS CardDAV client.
14. The Google Maps Geocoding API does not always handle PO Box. Apt#, or Unit# data as expected. In some cases, this data is lost after API processing.

15. The Google Maps API may return more than one address. All matching addresses returned from Google are added to Siebel. Multiple returned addresses are cleansed separately later.

Known Limitations for Outlook CardDAV Clients

Note: Oracle does not support any Outlook CardDAV clients.

Outlook CalDav Synchronizer is a CardDAV client (for more information, see https://sourceforge.net/projects/outlookcaldavsynchronizer/). The recommended synchronization profile option settings for Outlook CalDav Synchronizer are as follows:

- **Outlook settings.** Select the following check box:

  ```
  Synchronize items immediately after change
  ```

- **Sync settings.** Set the following settings:

  ```
  Synchronization Mode: Outlook <—— ——> Server (Two-Way)

  Conflict Resolution: Automatic
  ```

To enable Outlook CalDav Synchronizer, define the following user properties for the CalDAV Service business service:

- `"Supported CardDAV UserAgent Prefix n" = "CalDavSynchronizer"`

  Select an appropriate number for n.

- `"CardDAV Put Use Actual ETag: CalDavSynchronizer" = "y"`

  This optional user property is required for CardDAV clients to make sure that client-side changes will not be overridden by the server data. CalDav Synchronizer must be the same as the supported prefix.

Outlook CalDAV Synchronizer Limitations

Some of the known limitations for Outlook CalDav Synchronizer CardDAV clients are as follows, consult your Outlook CardDAV client vendor for further details:

1. Outlook CardDAV Client uses the native Outlook Contact UI for users to update contact data. However, Outlook allows only a fixed number of Contact Emails (3), Web pages (1), Phone numbers (16 phones and 3 faxes), and Addresses (3).
2. Data loss occurs if more than the supported number of contact child entries are downloaded to the Outlook CardDAV client.
   - Outlook contact supports only 3 Emails:
     - E-mail: maps to vCard's EMAIL WORK type, Siebel's Business type
     - E-mail 2: maps to vCard's EMAIL HOME type, Siebel's Home type
     - E-mail 3: maps to vCard's EMAIL OTHER type (no type), Siebel's Other type

     Where more than one Business, Home, or Other type Email entry is created on the server, only one entry of each type is kept for the Outlook Contact after download synchronization.
   - Outlook contact supports only 1 Web page (URL)

- Web page: maps to vCard's URL WORK type, Siebel's Business type

Where more than one Business or Home type URL entry is created on the server, only one entry of each type is kept for the Outlook Contact after download synchronization. The Other type of URL entry is always discarded after download synchronization.

- Outlook contact supports 19 Phone numbers but only 13 of them (10 phones and 3 faxes) are uploaded to the server, 6 phone number type entries are removed from the Outlook contact.

  - Business: maps to vCard's TEL WORK type, Siebel's Business type
  - Business 2: maps to vCard's TEL WORK type, Siebel's Business type
  - Home: maps to vCard's TEL HOME type, Siebel's Home type
  - Home 2: maps to vCard's TEL HOME type, Siebel's Home type
  - Mobile: maps to vCard's TEL CELL type, Siebel's Cell type
  - Other: maps to vCard's TEL OTHER type, Siebel's Other type
  - Pager: maps to vCard's TEL PAGER type, Siebel's Pager 1 type
  - Car: maps to vCard's TEL CAR type, Siebel's Car custom label
  - ISDN: maps to vCard's TEL ISDN type, Siebel's ISDN custom label
  - Primary: maps to vCard's TEL MAIN type, Siebel's Main type
  - Business Fax: maps to vCard's TEL FAX WORK type, Siebel's Business Fax type
  - Home Fax: maps to vCard's TEL FAX HOME type, Siebel's Home Fax type
  - Other Fax: maps to vCard's TEL FAX OTHER type, Siebel's Other Fax type
  - The following 6 Outlook Contact phone number type entries are never synchronized to the server (that is, never sent out by the CardDAV client) and are lost:

    Assistant, Callback, Company, Radio, Telex, TTY/TDD type

- Outlook contact supports only 3 Addresses:

  - Business: maps to vCard's ADR WORK type, Siebel's Business type
  - Home: maps to vCard's ADR HOME type, Siebel's Home type
  - Other: maps to vCard's ADR OTHER type (no type), Siebel's Other type (empty type)

Where more than one Business, Home, or Other type Address entry is created on the server, only one entry of each type is kept for the Outlook Contact after download synchronization.

3. Outlook Contact cannot display any entries with custom labels sent from the server. Custom label entries are not lost, they are returned for upload synchronization to the server.

OpenProtocols DAVClient Limitations

The OpenProtocols DAVClient (http://www.arpdev.com) has similar limitations to those described in *Outlook CalDAV Synchronizer Limitations*, however, note the following differences:

1. **Data loss might occur.** Unlike the CalDAVSynchronizer CardDAV client, data loss for the OpenProtocols DAVClient occurs for custom label entries after download synchronization.
2. **Duplicate data might occur.** The OpenProtocols DAVClient CardDAV client expects the vCard entries to be in a certain order (for example: Email addresses in home, work, and other order). If data is not in this order, then duplicate email addresses appear for the Outlook contact.
3. **Duplicate contacts might appear after upload synchronization to the server.** In some cases after updates are made to the contact in Outlook, the OpenProtocols DAVClient CardDAV client uploads the changes using

different UIDs (sometimes the original UID.vcf is used, sometimes a totally different UID is used), and this causes the upload synchronization to create a new or duplicate contact on the server.

For example, if you create a new contact on the Outlook CardDAV client, save, and then update the home email, save, and then update the work email, the CardDAV client upload synchronization contains the following UIDs:

- Create a new contact with home and work emails: UID:f311065b-0c76-437e-9bc6-2637449c590a
- Update the home email on the original contact: UID:f311065b-0c76-437e-9bc6-2637449c590a.vcf
- Update the work email on the original contact: UID:f311065b-0c76-437e-9bc6-2637449c590a.vcf.vcf

On the server, there are 3 contacts and each contact has a different email. On the client, there are 3 contacts and two of the contacts are identical.