Funambol Windows Mobile Plug-in
(for Smartphone)

User's Guide

Version 3.0
November 2006

Important Information

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Published by Funambol, Inc., 643 Bair Island Road, Suite 305, Redwood City, CA 94063

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Introduction

The Funambol Windows Mobile Plug-in (for Smartphone) provides synchronization functionality for mobile devices running on Microsoft Windows Mobile for Smartphones. After installing the software on your mobile device, you can synchronize the data on the device with that stored in enterprise data sources, including email, PIM data, and files. This document describes how to install, configure, and use the software.

Prerequisites

The system requirements for using the software are as follows:

Desktop or Portable Computer Used to Install the Plug-in on a Mobile Device

- Microsoft Windows 2000 or XP.
- Microsoft ActiveSync 4.0 or 4.1.

Mobile Device

- Microsoft Windows Mobile 4.2 or 5.0.

For information on obtaining Microsoft Windows Mobile and Microsoft ActiveSync, see "Resources" on page 19.

Installation

The section provides details for obtaining, installing and configuring the software environment.

Obtaining the Software

The Funambol Windows Mobile Plug-in (for Smartphone) software is available as follows:

Download Site: `www.funambol.com/opensource/downloads.html`

File: `funambol-smartphone-plugin-3.1.x.exe`

Size: 615 kb

The file contains the Funambol Windows Mobile Plug-in (for Smartphone) version 3.1.x

Installing the Software

Before proceeding, ensure that Microsoft ActiveSync is installed on your desktop/portable computer. If a previous version of the plug-in is installed on the mobile device, you will uninstall that version before installing the current version (as described below).

1. Connect your mobile device to the desktop/portable computer, e.g., via a USB cable.
2. On the desktop/portable computer, start Microsoft ActiveSync.
3. When ActiveSync recognizes device, the New Partnership windows displays. Select **Guest partnership** and click **Next**.
4. If a previous version of the plug-in is **not** installed on the device, skip to step 6. Otherwise, on the ActiveSync main menu bar, select **Tools > Add/Remove Programs**. The Add/Remove Programs windows displays.
5. In the list box, select the previous version of the plug-in and click **Remove**. A verification dialog box displays. Click **OK**.
6. Run the `funambol-smartphone-plugin-3.1.x.exe` file.
7. A dialog box displays, asking permission to install the Funambol Windows Mobile Plug-in (for Smartphone) in the default application installation directory on the device. Click **Yes**.
8. On the mobile device, verify that the plug-in installs without error. When complete, on the desktop/portable computer, click **OK**.
9. A dialog box displays, notifying you that the installation is complete. Click **Done**.

Configuring the Plug-in

To configure the software for your device, perform the following:

1. Start the Funambol Windows Mobile Plug-in (for Smartphone).

2. Access the communication settings by selecting **Menu > Account**. Specify the following settings: Funambol Server URL, Username, and Password. For details, see "Account" on page 6.

3. Choose the sources with which to synchronize by selecting **Menu > Sync Settings**. For details, see "Sync Settings" on page 7. Note that default parameters are set on the Funambol server for synchronizing contacts and calendar.

Uninstalling the Software

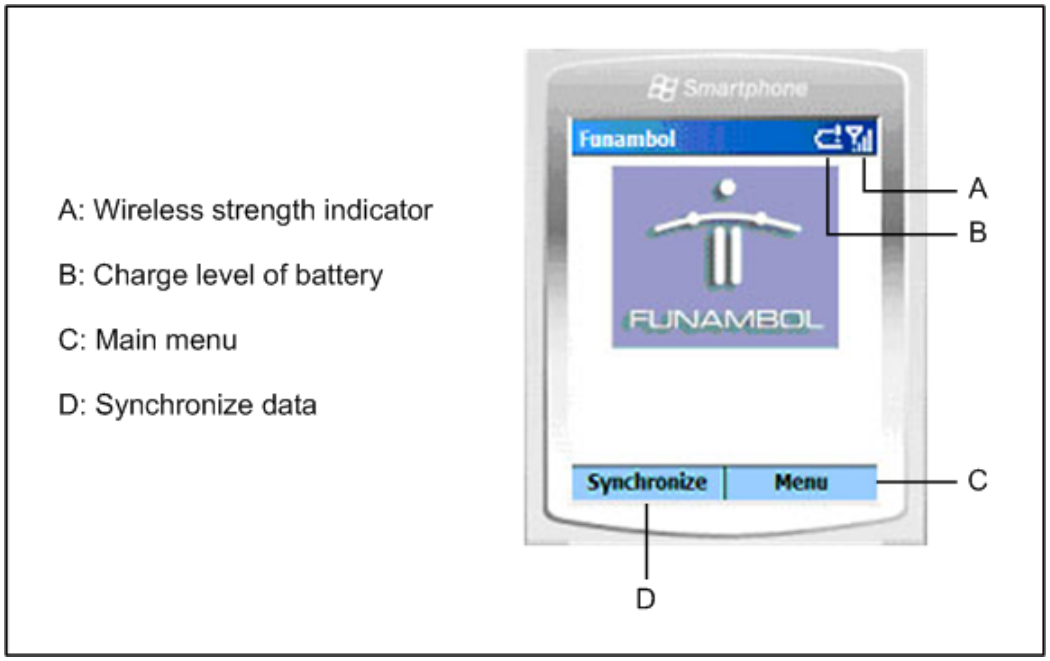
To uninstall the software, refer to your device's documentation for instructions on removing applications.

Using the Funambol Windows Mobile Plug-in (for Smartphone)

This section introduces the features of the software.

Home Screen

When you start the plug-in, the following screen appears:



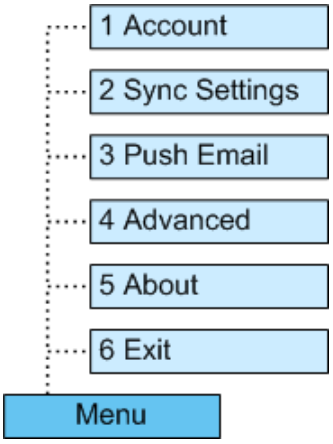
In the diagram above, items A and B are Windows Mobile features. The Funambol Windows Mobile Plug-in (for Smartphone) provides the following functionality:

- **Menu button (C)** – access screens for specifying settings for communication, synchronization, push email, recovery, and logging.
- **Synchronize button (D)** – select to synchronize data using the current settings.

  The screen displays the Funambol icon (double arrows) in the title bar when the synchronization is in progress. You can stop the synchronization by selecting this icon; this action displays a pop-up window that asks you to confirm that you want to stop the synchronization.

Main Menu Overview

When you select the **Menu** button, the following selections display:

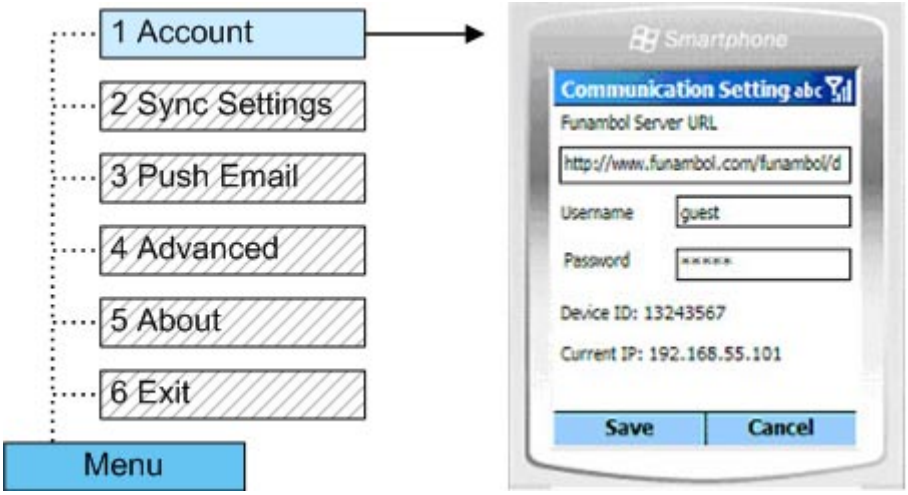


The selections perform the following actions:

Selection	Action
1 Account	Displays a screen for specifying communication settings.
2 Sync Settings	Displays a screen for specifying settings for synchronization, polling and encryption.
3 Push Email	Displays a screen for specifying push email settings.
4 Advanced	Displays a menu for choosing and specifying recovery or log settings.
5 About	Displays the version number of the plug-in.
6 Exit	Exits the plug-in.

Account

You use this screen to set the communication parameters between the server and plug-in. You access your account communication settings by selecting **Menu > Account,** as shown below:



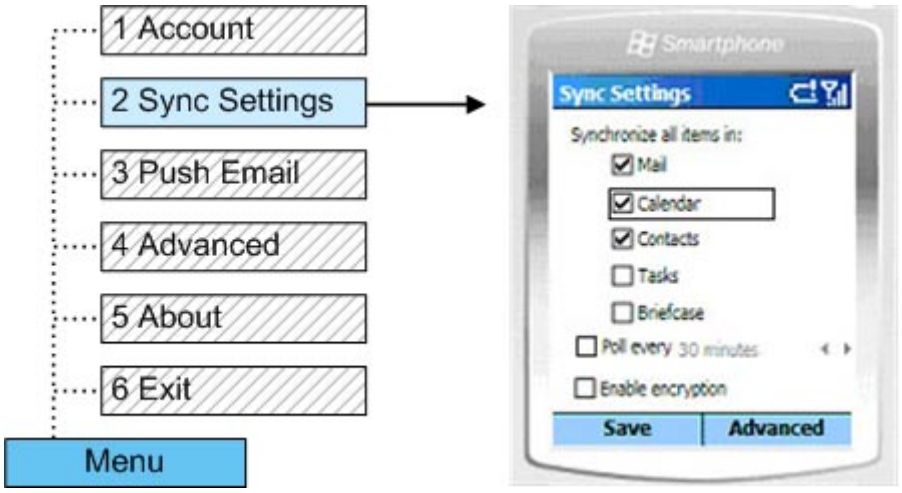
The following account communication settings display:

Setting	Description
Funambol Server URL	The URL of the synchronization server.
Username	The user ID used to access the database associated with the synchronization server.
Password	The password used to access the database associated with the synchronization server.
Device Id	Read-only display of the device ID, which is sent to the server and used in user device mapping.
Current IP	Read-only display of the device's current IP address.

Select the **Save** button to save the settings; select **Cancel** to close the screen without changes.

Sync Settings

You access synchronization settings by selecting **Menu > Sync Settings,** as shown below:



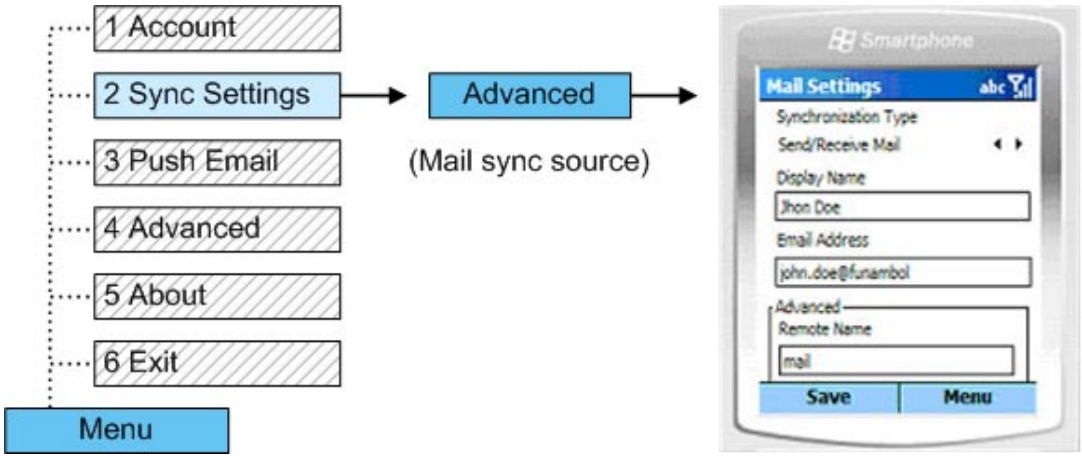
The following synchronization settings display:

Setting	Description
Synchronize all items in	Specifies the source with which to synchronize. For the selected source, you specify additional settings by selecting the **Advanced** button. These additional settings are described in subsequent sections. The possible sources are as follows: • **Mail** • **Calendar** • **Contacts** • **Tasks** • **Briefcase**
Poll Every	Send an email synchronization request to the server at the specified interval. Used when a mobile operator does not give a public IP address.
Enable encryption	Enables content encryption using the 3DES algorithm (global parameter).

Select the **Save** button to save the settings; select **Cancel** to close the screen without changes.

Advanced Settings for Mail

When you specify Mail as a synchronization source and then select the **Advanced** button, the Mail Settings screen displays as shown below:



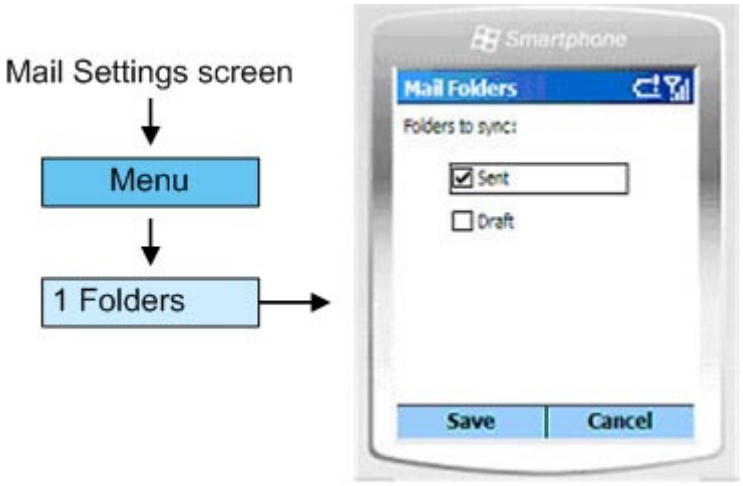
The following mail settings display:

Setting	Description
Synchronization Type	Type of synchronization. The selections are as follows: • **Send/Receive Mail** – sync outbox and inbox. • **Replace Local Mailbox** – replaces the data on the client with the data from the server. LOCAL DATA IS DELETED. When a synchronization is attempted, you receive an alert on the device asking you to confirm the deletion of local data. If you specify No, synchronization is not performed; if you do not respond to the alert within 10 seconds, it defaults to No.
Display Name	The name that is displayed for the account.
Email Address	The email address of the account.
Remote Name (text field in which the specified string must match the source URI on the server)	Name of the synchronization source (i.e., the URI) on the server. The server is not configured with a default source. You need to create and configure a source on the server before synchronization, and specify that string in this setting.

Select the **Save** button to save the settings. You can specify additional settings by selecting the **Menu** button, which displays the following selections:

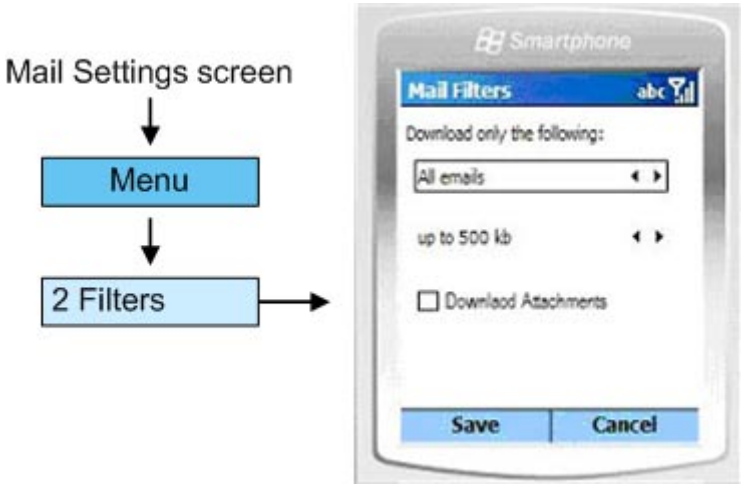
- **1 Folders** – used to specify the folders to synchronize.
- **2 Filters** – used to specify the filtering options.
- **3 Cancel** – exits the popup Menu.

From the Mail Settings screen, when you select **Menu > Folders**, the Mail Folders screen displays as shown below:



Specify the folder(s) on the device to synchronize by selecting the desired checkbox. Files in the specified folder are synchronized; files in subdirectories of the folder are not synchronized. Select the **Save** button to save the settings; select **Cancel** to close the screen without changes.

From the Mail Settings screen, when you select **Menu > Filters**, the Mail Filters screen displays as shown below:



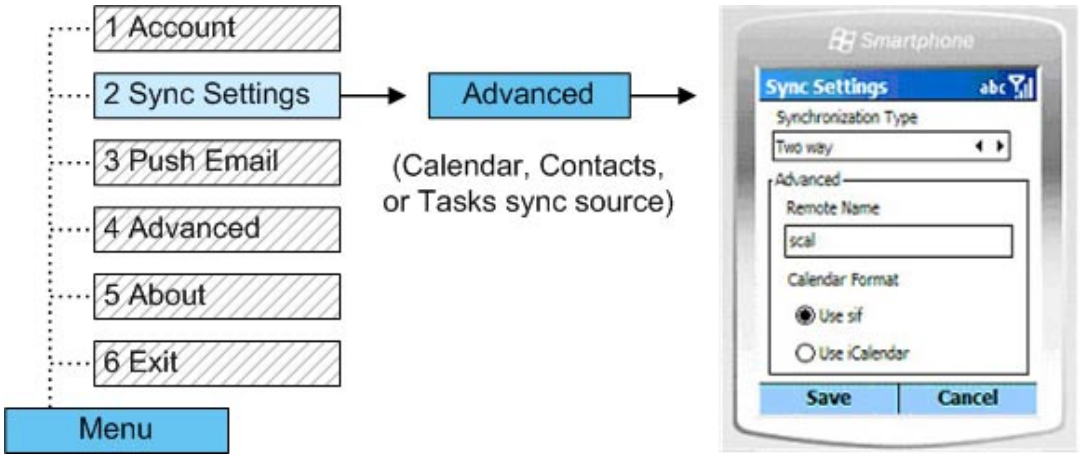
The following filter settings display:

Setting	Description
Download only the following:	Specifies the email to download. The selections are as follows: • **All email** • **Email received today** • **Email received from last 3 days** • **Email received from last 5 days** • **Email received from last 7 days** • **Email received from last 10 days**
Up to . . .	Total amount of data (measured in bytes) to download per email, where the data is comprised of an email message and attachments, if the latter is selected for download. The selections are as follows: • **Up to 10 kb** • **Up to 50 kb** • **Up to 100 kb** • **Up to 250 kb** • **Up to 500 kb** Once the specified amount of data is reached per email, the remainder of the data is truncated.
Download Attachments	Specifies that email attachments are to be downloaded.

After specifying the filter settings, select the **Save** button to save the settings; select **Cancel** to close the screen without changes.

Advanced Settings for Calendar, Contacts or Tasks

When you specify Calendar, Contacts, or Tasks as a synchronization source and then select the **Advanced** button, the following screen displays:



The following settings display:

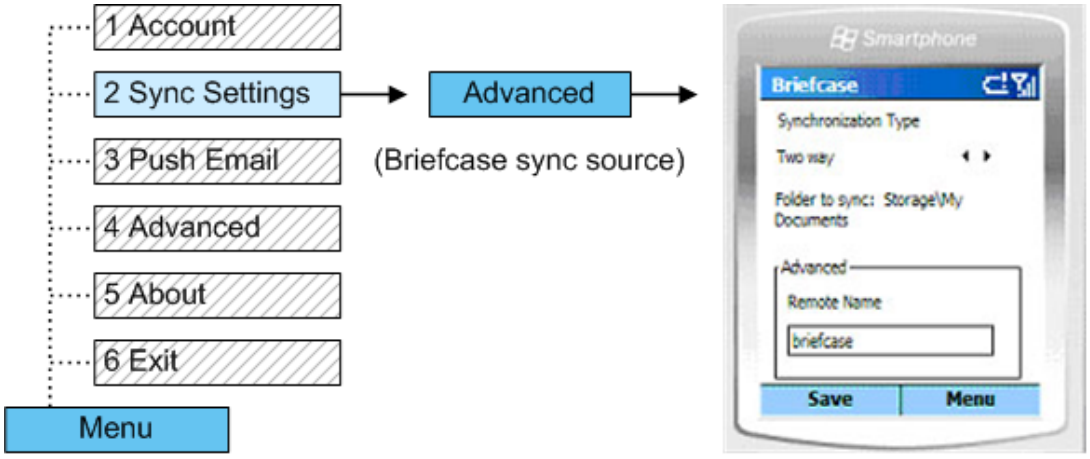
Setting	Description
Synchronization Type	Type of synchronization. The selections for all sources are as follows: • **Two-way** – two-way fast synchronization of local and remote <Calendar | Contacts | Tasks>. • **Replace Local <Calendar | Contacts | Tasks>** – replaces data on the client with data from the server. LOCAL DATA IS DELETED. When a synchronization is attempted, you receive an alert on the device asking you to confirm the deletion of local data. If you specify No, synchronization is not performed; if you do not respond to the alert within 10 seconds, it defaults to No. • **Replace Remote <Calendar | Contacts | Tasks>** – replaces data on the server with data from the client. • **Update Local <Calendar | Contacts | Tasks>** – updates data on the client with data from the server (no client modifications sent to server). • **Update Remote <Calendar | Contacts | Tasks>** – updates data on the server with data from the client (no server modifications sent to client).

Setting	Description
Advanced: Remote Name (text field in which the specified string must match the source URI on the server)	Name of the synchronization source (i.e., the URI) on the server. For Calendar, the following strings are valid: • **scal** (SIF format) • **cal** (iCalendar format) For Contacts, the following strings are valid: • **scard** (SIF format) • **card** (vCard format) For Tasks, the following strings are valid: • **stask** (SIF format) • **task** (iCalendar format)
Synchronization Format	Data format of the synchronization. For Calendar and Tasks, the selections are as follows: • **Use sif (SIF format)** • **Use iCalendar** For Contacts, the selections are as follows: • **Use sif (SIF format)** • **Use vCard**

Select the **Save** button to save the settings, which are stored in the device registry and used in subsequent synchronizations. Select **Cancel** to close the screen without changes.

Advanced Settings for Briefcase

When you specify Briefcase as a synchronization source and then select the **Advanced** button, the Briefcase Settings screen displays as shown below:



The following Briefcase settings display:

Setting	Description
Synchronization Type	Type of synchronization. The selections for all sources are as follows: • **Two-way** – two-way fast synchronization of local and remote Briefcase. • **Replace Local Briefcase** – replaces data on the client with data from the server. LOCAL DATA IS DELETED. When a synchronization is attempted, you receive an alert on the device asking you to confirm the deletion of local data. If you specify No, synchronization is not performed; if you do not respond to the alert within 10 seconds, it defaults to No. • **Replace Remote Briefcase** – replaces data on the server with data from the client. • **Update Local Briefcase** – updates data on the client with data from the server (no client modifications sent to server). • **Update Remote Briefcase** – updates data on the server with data from the client (no server modifications sent to client).
Folder to sync	The folder on the device to synchronize with the server. Files in the folder are synchronized; files in subdirectories of the folder are not synchronized. See the section titled **Setting the Folder to Synchronize** below for instructions on setting this folder.
Remote Name (text field in which the specified string must match the source URI on the server)	Name of the synchronization source (i.e., the URI) on the server. The server is configured with the default string **briefcase**. To use a different synchronization source, you need to create and configure a different source on the server, and specify that string in this setting.

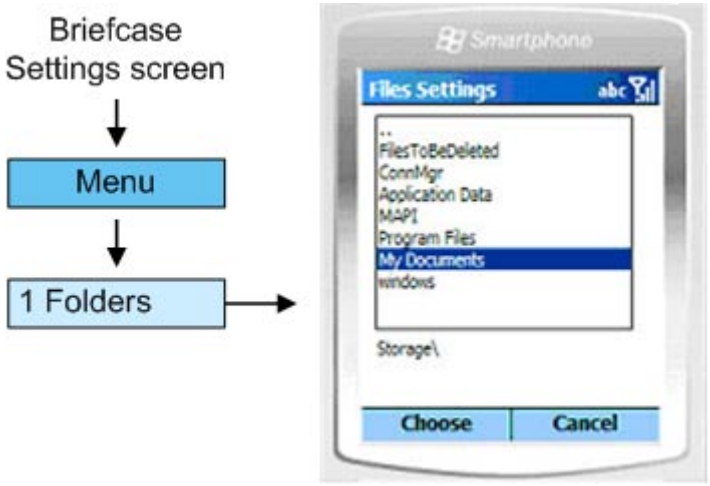
Select the **Save** button to save the settings; select **Cancel** to close the screen without changes.

Setting the Folder to Synchronize

From the Briefcase Settings screen, you specify the folder to synchronize by selecting the **Menu** button, which displays the following selections:

- **1 Folders** – used to specify the folder to synchronize.
- **2 Cancel** – exits the Briefcase Settings screen and returns to the Sync Settings screen.

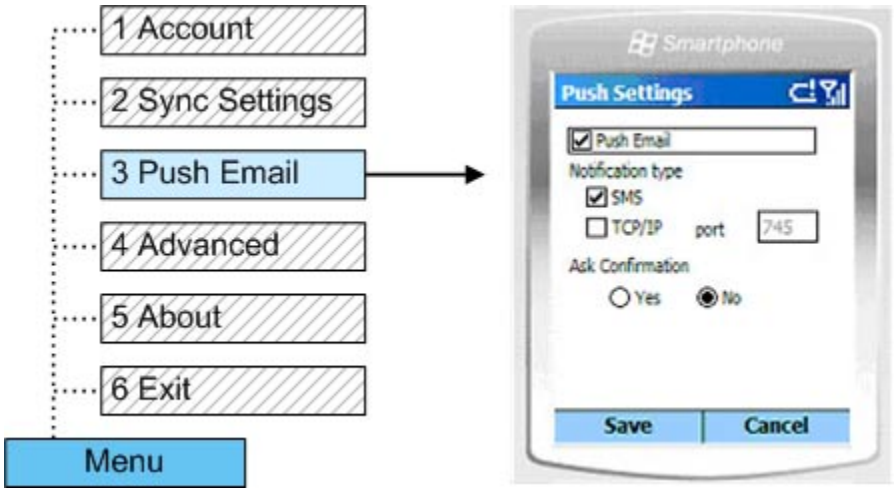
When you select **Menu > Folders**, the Files Settings screen displays as shown below:



Navigate to the folder on the device to synchronize. The current path displays below the box that lists the subdirectories. Select the **Choose** button to save the specified folder; select **Cancel** to close the screen without changes.

Push Settings

You access push email settings by selecting **Menu > Push Email**, as shown below:



The following push settings display:

Setting	Description
Push Email	If selected, the device sends the IP address it is using to the server. If the server receives and can use the IP address for server-alerted notifications, it sends a successful response, and the device starts listening for notifications. When new mail arrives for the user, the server sends notification, and the client start a sync with the parameters set by the server.
Notification Type	Specify SMS or TCP/IP. If the latter, specify the port on which the device listens for notifications.
Ask Confirmation	Specifies whether to ask for confirmation before performing a synchronization. Yes = when a message is ready on the server, and the client is notified, the user receives an alert asking to confirm the synchronization. No = synchronization performed automatically.

Select the **Save** button to save the settings; select **Cancel** to close the screen without changes.

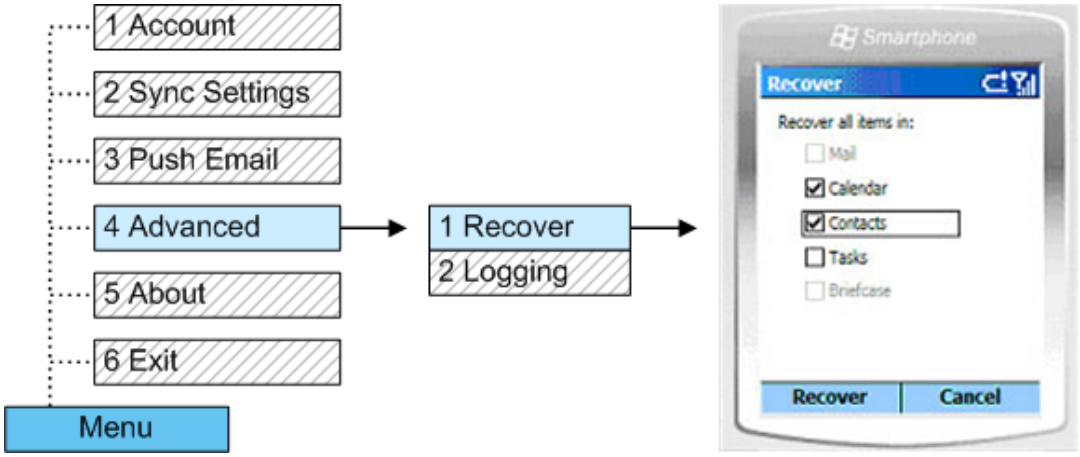
Advanced

You use the Advanced menu selection to access the following:

- **Recover** – select the source to be recovered.
- **Logging** – select the level of log information and view the log file.

Recover

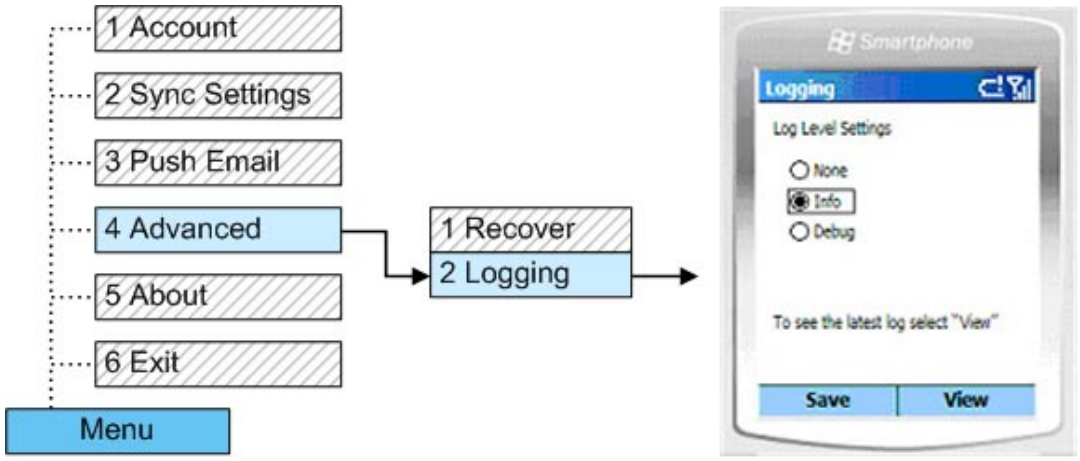
You specify the source to be recovered by selecting **Menu > Advanced > Recover**, as shown below:



Choose the source with which to synchronize by checking the appropriate checkbox. Select **Recover** to start a slow-sync; select **Cancel** to close the screen without recovering.

Logging

You select the level of log information by selecting **Menu > Advanced > Logging**, as shown below:



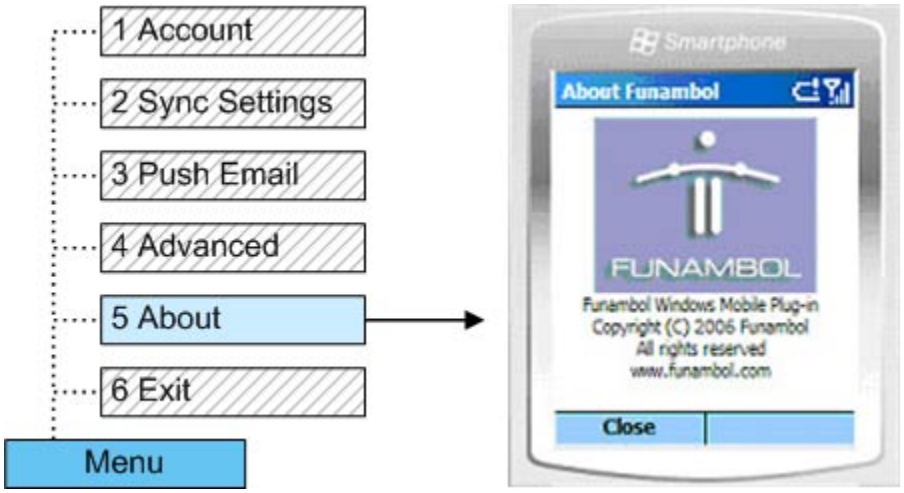
The following log settings display:

Setting	Description
None	No data stored in the log file.
Info	Informational data stored in the log file.
Debug	Debug data stored in the log file.

When set to Info or Debug, the file contains the log only for the last synchronization. Select the **Save** button to save the settings; select **View** to see the latest log.

About

You access information about the software by selecting **Menu > About**, as shown below:



Exit

You exit the software plug-in by selecting **Menu > Exit**.

Resources

This section lists resources you may find useful.

Related Documentation

This section lists documentation resources you may find useful.

Funambol DS Server Documentation

The following documents form the Funambol DS Server documentation set:

- *Funambol DS Server Architectural Overview*: Read this document for an overview of the architecture.
- *Funambol DS Server Administration Guide*: Read this guide to gain an understanding of installation, configuration, and administration.
- *Funambol DS Server Developer's Guide*: Read this guide to understand how to develop extensions to the server.
- *Funambol DS Server SyncSource API*: Read this reference guide for information on the SyncSource interface and related classes.
- *Funambol DS Server Quick Start Guide*: Read this guide to install and run a simple demonstration of synchronizing PIM data using the Funambol DS Server.
- *Funambol DS Server Module Development Tutorial*: Read this tutorial for instructions on packaging, installing and testing modules.

Other Resources

This section lists other resources you may find useful.

- For information on Microsoft Windows Mobile, visit `http://www.microsoft.com/windowsmobile/default.mspx`.
- For information on Microsoft ActiveSync, visit `http://www.microsoft.com/windowsmobile/activesync/default.mspx`.