Funambol Inbox Listener

# Quick Start Guide

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# Introduction

The Funambol inbox listener monitors a set of email accounts on an email server. When a new email is detected, it sends a notification to the Funambol engine, which maps the email to the user's device and notifies the device of the new mail. The device then initiates the email synchronization process with the email server via the Funambol engine and Funambol email connector.

## Bundled Package or Individual Download

The Funambol inbox listener software is included in the Funambol DS Server bundled package. This package is available for the convenience of those who want to quickly implement an operational synchronization server. For details on the server bundle, see the *Funambol DS Server Administration Guide*.

The inbox listener software is also included in the Funambol email connector archive file. This archive file is available for those who do not use the bundled package (i.e., those who have implemented the Funambol DS Server with their own choice of application server, database, and so on). This document describes how to install and configure the inbox listener software in this environment.

## Prerequisites

The requirements for using the Funambol inbox listener are as follows:

- You have installed the Funambol DS Server, an application server, JDK/JRE, and a JDBC-compliant database on your system, or will obtain and install those components.
- Funambol email connector – the email connector must be installed before installing the inbox listener.

For details, see the *Funambol DS Server Administration Guide* and the *Funambol Email Connector Quick Start Guide*.

# Installation

This section provides details for obtaining and installing the software.

## Obtaining the Software

The Funambol Inbox Listener software is available as follows:

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

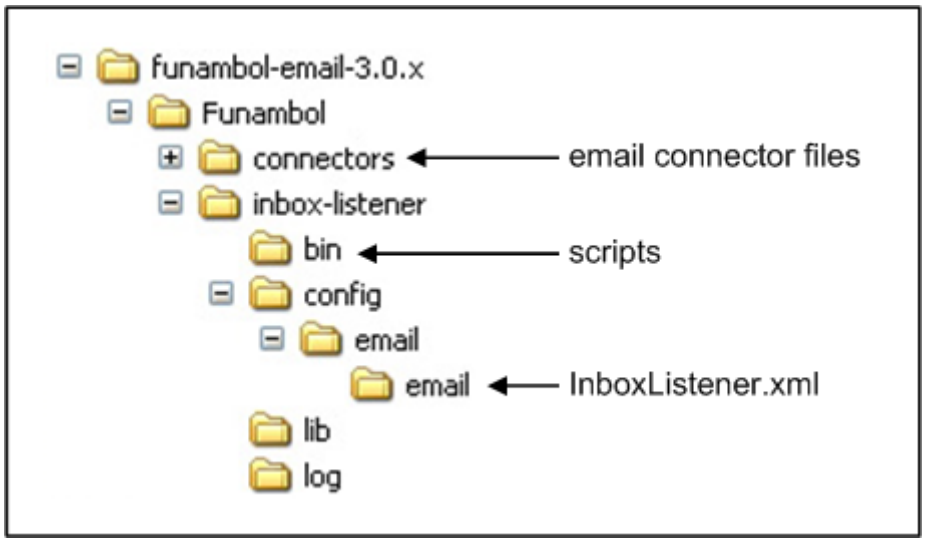
File: `funambol-email-3.0.x.zip`

Size: 4 MB

The Inbox Listener is included in the Funambol email connector archive file.

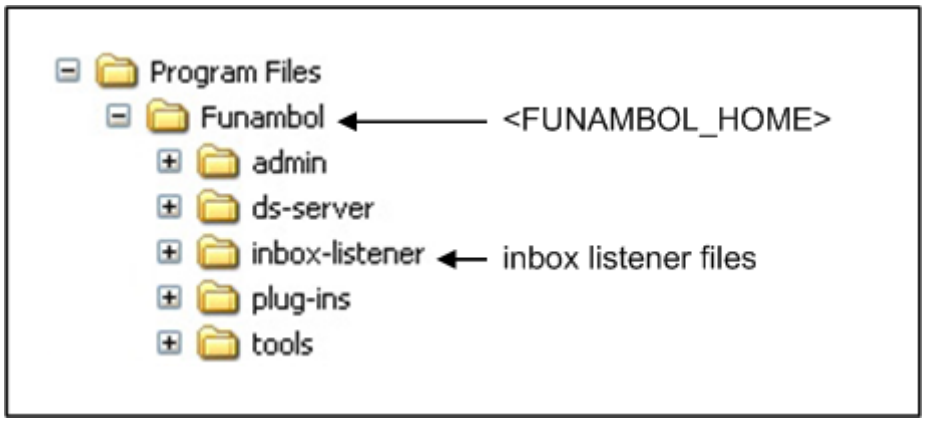
## Installing the Software

1. Unzip the `funambol-email-3.0.x.zip` file to a temporary directory. Extracting the file creates the following directory structure:




The Funambol email connector files and inbox listener files are stored in separate directories. You must install the Funambol email connector before installing the inbox listener. For details, see the *Funambol Email Connector Quick Start Guide*.

2. To store the inbox listener files with other Funambol components, move the **inbox-listener** folder from the temporary directory to the Funambol home directory, as shown below:




3. Navigate to the `<FUNAMBOL_HOME>\inbox-listener\bin` directory and locate the `startlistener` and `console` scripts. In each of these files, edit the following:

   ```
   JAVA_HOME=

   JDBC_JAR=
   ```

   Set these parameters according to your environment.

**NOTE:** For Unix/Linux, assign the execution permission for the `startlistener` and `console` scripts using the dos2unix and chmod commands.

# Configuration

This section provides details for configuring the software and settng the log level.

## Configuring the Inbox Listener

Navigate to the `<FUNAMBOL_HOME>\inbox-listener\config\email\email` directory and open the `InboxListener.xml` file. Edit the following properties:

| Property | Description |
|---|---|
| listnerid | Id of the inbox listener. |
| startupNotification | Send notification to all registered users when the inbox listener module starts. |
| host | Email server URL. |
| protocol | Email protocol. |
| port | Email server port. |
| isSSL | Specifies whether SSL protocol is used. |
| keystorePath | Path to the Java keystore for SSL (when isSSL is true). |
| keystorePassphrase | Password phrase for the Java keystore (when isSSL is true). |
| interval | Interval at which to poll the user mailbox, specified in milliseconds. |
| jdbcDriver | Database driver. |
| jdbcUrl | Database URL. |
| jdbcUser | User ID to access the database. |
| jdbcPassword | Password to access the database. |
| reloadingTime | Interval at which the inbox listener checks the list of accounts in the database; specified in milliseconds. |
| wsEndPoint | Funambol engine administration URL. |
| wsUsername | Funambol engine administrator username. |
| wsPassword | Funambol engine administrator password. |
| wsSyncSource | Name of the email SyncSource. |

## Configuring the Log Level

To configure the log level of the inbox listener, perform the following:

1. Navigate to the `<FUNAMBOL_HOME>\inbox-listener\bin` directory and open the `inboxlistenerlog.properties` file.

2. Edit the `./level=` property. Valid values: NONE = no information logged; ERROR = only errors are logged; INFO = basic info and errors are logged; ALL = info, errors and debug information are logged. Default = INFO.

3. Save and close `inboxlistenerlog.properties`.

# Using the Inbox Listener

This section provides details for starting and stopping the inbox listener, and managing the user account database.

## Starting the Inbox Listener

To start the inbox listener, open a command prompt window and type the following at the prompt:

**Windows**:

```
> cd <FUNAMBOL_HOME>\inbox-listener\bin
> startlistener
```

**Unix/Linux**:

```
> cd <FUNAMBOL_HOME>/inbox-listener/bin
> sh startlistener.sh
```

## Stopping the Inbox Listener

To stop the inbox listener, kill the process, e.g., use the **Ctrl - c** key combination.

## Managing the User Account Database

Before running the inbox listener you need to populate the user email account database.

1. Open a command prompt window and type the following at the prompt:

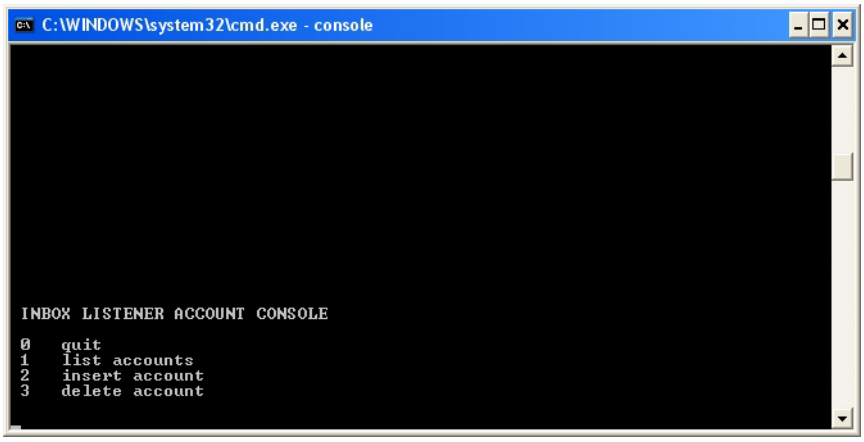
   **Windows**:

   ```
   > cd <FUNAMBOL_HOME>\inbox-listener\bin
   > console
   ```

   **Unix/Linux**:

   ```
   > cd <FUNAMBOL_HOME>/inbox-listener/bin
   > sh console.sh
   ```

2. The Inbox Listener Account Console window displays, as shown below:




Use the console commands for the following actions:

| Command | Description |
|---|---|
| 0 – quit | Exits the console. |
| 1 – list accounts | Displays a list of user accounts, showing the username and Id of the listener associated with the username. |
| 2 – insert account | Adds user account data; specify the following:<br>• **username** – name of the user account<br>• **password** – password for the user account<br>• **listener id (number)** – Id (number) of the listener associated with the user account. |
| 3 – delete account | Deletes a user account by specifying the username. |

# Resources

This section lists resources you may find useful.

## Related Documentation

This section lists documentation resources you may find useful.

### Funambol Connector Documentation

- *Funambol Email Connector Quick Start Guide*: Read this guide for instructions on installing and configuring the email connector.

### 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 for instructions on server 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.