



FUNAMBOL mobile open source

# **Funambol Email Connector Quick Start Guide**

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# 1. Introduction

The purpose of this document is to describe how to manage and administer the Email Connector and SyncSource component using the FunambolAdmin console.

The enterprise version provides the “POP like” SyncSource (You can synchronize the INBOX folder and send the email from the client [OUTBOX synchronization]) and the “IMAP like” SyncSource (complete synchronization) features.

The opensource version provides the “POP like” SyncSource only.

This document is intended to be read by the administration users.

## 1.1. Release Notes

The current version of the email connector is compliant with the following clients:

- funambol-windowsmobile-plugin
- funambol-blackberry-plugin
- Nokia E60 (prototype)

The current version was tested with:

- Ms Exchange 2000/2003 Server
- Lotus Domino 6.5 (for “pop-like” SyncSource)

## 1.2. Know Issues

- ...

## 1.3. Related Documents

The following documents are related to this design document:

- [1] Sync4j Modules Development Guide
- [2] Sync4j SyncServer 5.0.x Administration Guide

## 2. Setting Email Connector

### 2.1. Funambol Email Connector Installation Procedure

#### Prerequisites

In order to install the Funambol Email Connector *enterprise* version you should check the following prerequisites:

- funambol-enterprise-\*.\*.s4j installation: To install the funambol enterprise module follow the usual Funambol module installation procedure.
- license presence: To activate the Email Connector, copy “funambol-email-connector-license.jar” file in the following directory:
  - if you're using the Tomcat bundle environment:
    - `<installation_directory>\tools\tomcat\common\lib`
  - if you're using jboss environment
    - `<installation_directory>\server\default\lib`
    - `<installation_directory>\server\funambol\lib`
- Then restart the server.

The Funambol Email Connector *opensource* version don't need the Funambol Enterprise Module and the license file.

#### Installing the Funambol Email connector

The Funambol Email Connector is distributed as a standard Funambol module [1]. The distribution contains the following files:

- funambol-email-connector-<major>.<minor>.<buildnumber>.s4j (the module)
- this guide

To install the module you have to follow this steps:

1) put the s4j file in the directory

`<installation dir>\ds-server\modules`

2) modify “install.properties” file adding “funambol-email-connector-x.x.x” to the modules list:

`modules-to-install=foundation-3.0.0,pdi-1.5,pimweb-1.1,funambol-email-x.x.x`

3) start installation modules command.

For more details about the Funambol module installation see [2].

During the installation the following steps are performed automatically:

1. the database is initialized creating the connector specific tables and registering the connector into the server.
2. the EmailOfficer.xml file is copied in the directory:  
<installation dir>\ds-server\config\funambol\server\security
3. the Funambol.xml configuration file is updated to configure the Funambol Server to use the EmailOfficer.

Before running the Funambol Server you have to put the jdbc and javamail library in the application server library folder.

For the Tomcat + Mysql installation you have to copy:

- mail.jar
- activation.jar
- mysql-connector-java-x.x.x-bin.jar

## 2.2. EmailOfficer Configuration Procedure

In order to complete the Funambol Email Connector installation you have to set the parameters in the file:

<installation dir>\ds-server\config\funambol\server\security\EmailOfficer.xml

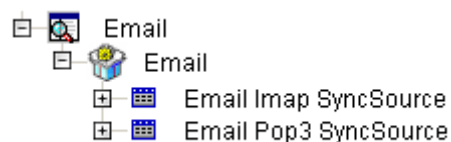
This is an example of the EmailOfficer.xml file:

```
<?xml version="1.0" encoding="UTF-8"?>
<java version="1.4.0" class="java.beans.XMLDecoder">
  <object class="com.funambol.email.security.EmailOfficer">
    </object>
  </java>
```

NOTE: at the moment you have to set no parametrs.

## 2.3. Configuring Connector

In order to configure the Funambol Email Connector you can open the Funambol Administrator Console and browse in the following tree structure (Figure 1)



**Figure 1: Connector Tree**

When you point on the Email Connector item you can see the following panel (Figure 2).

The image shows a 'Connector Panel' configuration window. It is divided into three main sections:

- Officer Configuration:** Contains five fields: 'Mail Server' with the value '192.168.0.10', 'Protocol' with 'pop3', 'Port' with '110', 'SSL' with an unchecked checkbox, and 'Keystore Path' which is empty.
- Funambol Configuration:** Contains one field: 'Funambol DataSource' with the value 'jdbc/fnblds'.
- Property Configuration:** Contains one field: 'Filter Activation' with a checked checkbox.

A 'Save' button is located at the bottom center of the panel.

**Figure 2: Connector Panel**

In this panel you can set the parameters like in the table below:

<i>Property</i>	<i>Description</i>
Mail Server	Outgoing mail server
Protocol	Used Protocol by the Email Officer
Port	Used Port by the Email Officer
SSL	SSL Activation
Keystore path	Path of the java keystore
Funambol DataSource	Funambol Datasource. Used by the Caching system
Apply Filter	You can choose to use or not the filters

## 2.4. Configuring SyncSource

When you point on the Email Imap SyncSource or Email Pop3 SyncSource item you can see the Figure 3

Source URI:	<input type="text"/>	
Name:	<input type="text"/>	
Outgoing Server :	<input type="text"/>	Port: <input type="text" value="25"/>
Incoming Server :	<input type="text"/>	Port: <input type="text"/>
SSL:	<input type="checkbox"/>	
Keystore Path:	<input type="text"/>	
Complete Mailbox Activation:	<input type="checkbox"/>	
Inbox Folder Name:	<input type="text" value="Inbox"/>	<input checked="" type="checkbox"/>
Outbox Folder Name:	<input type="text" value="Outbox"/>	<input checked="" type="checkbox"/>
Sent Folder Name:	<input type="text" value="Sent Items"/>	<input checked="" type="checkbox"/>
Drafts Folder Name:	<input type="text" value="Drafts"/>	<input type="checkbox"/>
Trash Folder Name:	<input type="text" value="Deleted Items"/>	<input type="checkbox"/>
Type:	<input type="text"/>	
Supported Types:	<input type="text"/>	
Supported Versions:	<input type="text"/>	
<input type="button" value="Add"/>		

**Figure 3: SyncSource Configuration Panel**

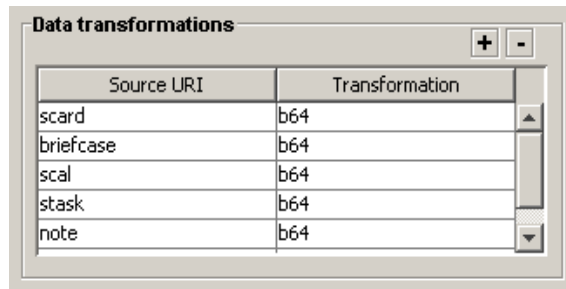
In the SyncSource Panel you can set the following properties:

<i>Property</i>	<i>Description</i>
Source URI	The sync source URI [i.e. "mail" ].
Name	The SyncSource name. [i.e. "mail" ]
Outgoing Server / Port	Default SMTP port : 25
Incoming Server / Port	Default Imap port : 143, pop3 port : 110
Complete Mailbox Activation	You can choose to sync only the main default folders (Inbox, Outbox, Sent, Drafts, Trash) or the entire mailbox (this feature is not tested at the moment)
Folder Name / activation	For each main default folder you can define the Server Label and the activation
Type	application/vnd.omads-email+xml,application/vnd.omads-folder+xml
Supported Type	application/vnd.omads-email+xml,application/vnd.omads-folder+xml
version	1.2,1.2

## 2.5. Encryption

In order to enable the Encryption Communication between syncML client (i.e. The Funambol WM plugin) and the Funambol Server/Email Connector you have to set the following parameters:

- Open the Funambol Admin Tool
- Settings – Data Transformation – Configure
- In the DataTransformer Configuration Manager; add a row in the Data Transformations table



Source URI	Transformation
scard	b64
briefcase	b64
scal	b64
stask	b64
note	b64

- press “+”
  - SourceUri : set the SyncSource Name [i.e. “mail”]
  - Transformation: set “**des;b64**”
- press “save”

In this way the server is enabled to handle the encryption data. Meanwhile you have to set on the client the “encryption” property.

## 2.6. Enabling Log

In order to configure the logging level for the Funambol Email Connector, you have to modify the file:

`<installation dir>\ds-server\config\sync4j\server\logging\Logging.xml`

adding this rows:

```
<void method="add">
  <object class="com.funambol.framework.config.LoggerConfiguration">
    <void property="append">
      <boolean>true</boolean>
    </void>
    <void property="count">
      <int>1</int>
    </void>
    <void property="inherit">
      <boolean>false</boolean>
    </void>
    <void property="level">
      <string>INFO</string>
    </void>
    <void property="limit">
      <int>100</int>
    </void>
    <void property="name">
      <string>funambol.email</string>
    </void>
  </object>
</void>
```



```
</void>
<void property="pattern">
  <string>logs/syncserver.email.log</string>
</void>
</object>
</void>
```

This file is re-written during server installation (or module installation) so, if you don't want lost the changes, you may insert the same rows in the file:

```
<installation dir>\ds-server\default\config\common\beans\funambol\server\logging\Logging.xml
```

## 2.7. Funambol Connector Licensing

Funambol offers commercial support for this software.  
See <http://www.funambol.com/support>.

You can also get support from the open source community.  
See <http://www.funambol.com/opensource/support>.

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