



FUNAMBOL mobile open source

Funambol Email Connector Quick Start Guide

Table of Contents

1. Introduction.....	3
1.1. Release Notes.....	3
1.2. Know Issues.....	3
1.3. Related Documents.....	3
2. Setting Email Connector.....	4
2.1. Prerequisites.....	4
2.2. Funambol Email Connector Installation Procedure.....	4
2.3. Officer Configuration.....	5
2.4. Configuring Connector.....	6
2.5. Configuring SyncSource.....	7
2.6. Encryption.....	8
2.7. Enabling Log.....	8
2.8. Funambol Connector Licensing.....	9

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-based” SyncSource (You can synchronize the INBOX folder and send the email from the client [OUTBOX synchronization]) and the “IMAP-based” SyncSource (complete synchronization) features.

The opensource version provides the “POP-based” 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. 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`
- restart the server.

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

2.2. Funambol Email Connector Installation Procedure

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-enterprise-activation-3.x.x,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

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

2.3. Officer Configuration

In order to set the Officer for the Funambol Email Connector, you have to set the parameters in the file; at the moment you have to set no parameters :

<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>
```

In the Admin tool you have to specify the correct Officer:

Officer : com/funambol/server/security/EmailOfficer.xml

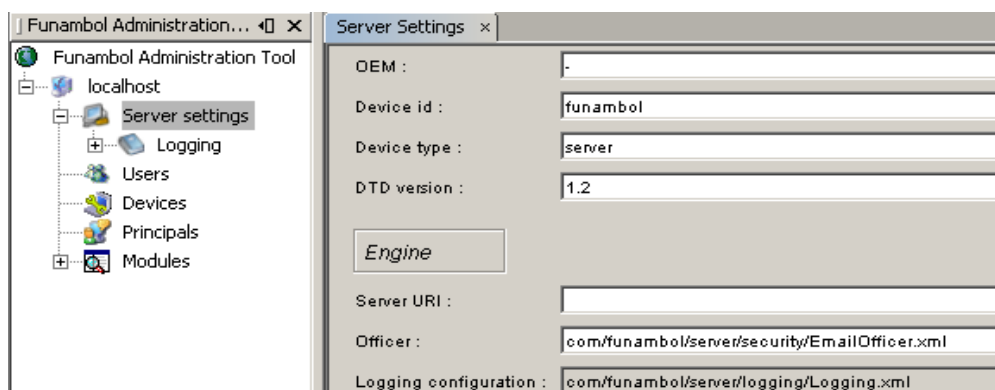


Figure 1: Officer Settings

2.4. 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 2)

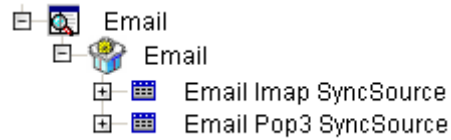


Figure 2: Connector Tree

When you point on the Email Connector item you can see the following panel (Figure 3).

The Connector Panel is a configuration window with three main sections:

- Officer Configuration:** Contains fields for Mail Server (192.168.0.10), Protocol (pop3), Port (110), SSL (unchecked checkbox), and Keystore Path (empty field).
- Funambol Configuration:** Contains a field for Funambol DataSource (jdbc/fnbls).
- Property Configuration:** Contains a checkbox for Filter Activation (checked).

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

Figure 3: Connector Panel

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

Property	Description
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

2.5. Configuring SyncSource

When you point on the Email Imap SyncSource or Email Pop3 SyncSource item you can see the Figure 4

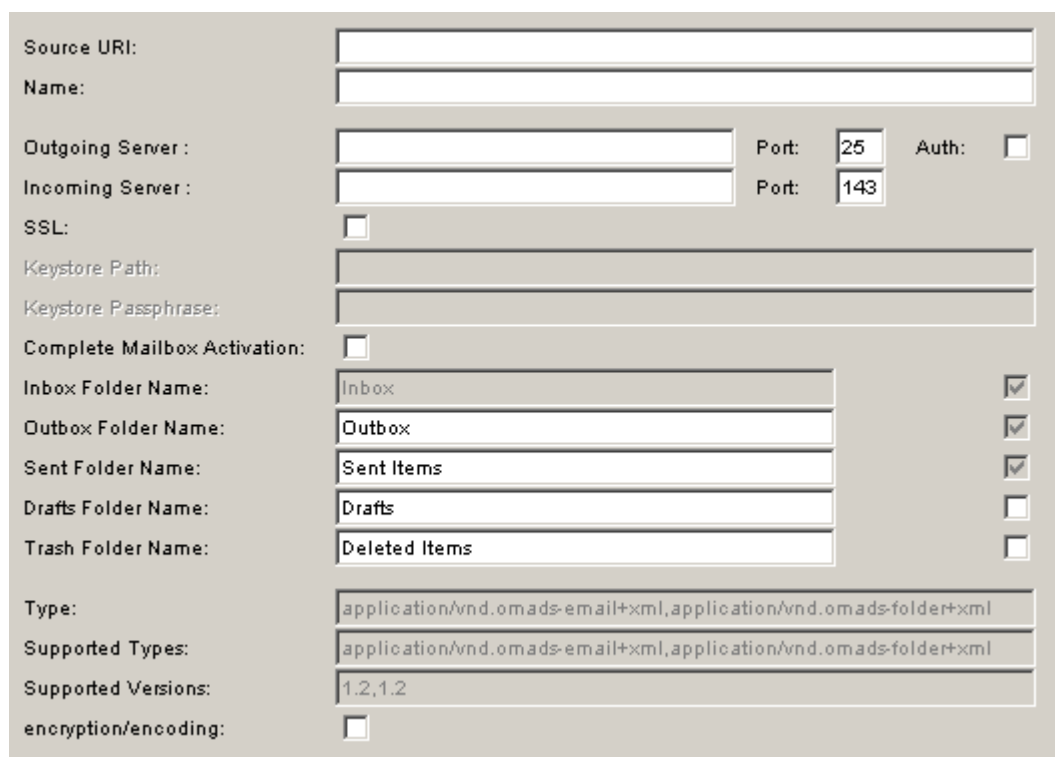
The image shows a configuration panel for a SyncSource. It contains several input fields and checkboxes. The fields are: Source URI, Name, Outgoing Server, Incoming Server, Keystore Path, Keystore Passphrase, Complete Mailbox Activation, Inbox Folder Name, Outbox Folder Name, Sent Folder Name, Drafts Folder Name, Trash Folder Name, Type, Supported Types, Supported Versions, and encryption/encoding. The Outgoing Server field has a Port dropdown set to 25 and an Auth checkbox. The Incoming Server field has a Port dropdown set to 143. The Complete Mailbox Activation checkbox is unchecked. The folder names are: Inbox, Outbox, Sent Items, Drafts, and Deleted Items. The Type, Supported Types, and Supported Versions fields contain the same text: application/vnd.omads-email+xml,application/vnd.omads-folder+xml. The encryption/encoding checkbox is unchecked.

Figure 4: SyncSource Configuration Panel

Note: for the pop-based syncsource the following text fields are fixed

- complete mailbox activation
- inbox, outbox, sent, drafts, trash folder
- all checkbox activation for the default folder

In fact the pop-based sync source can synchronize only the Inbox folder and send the email from the device.

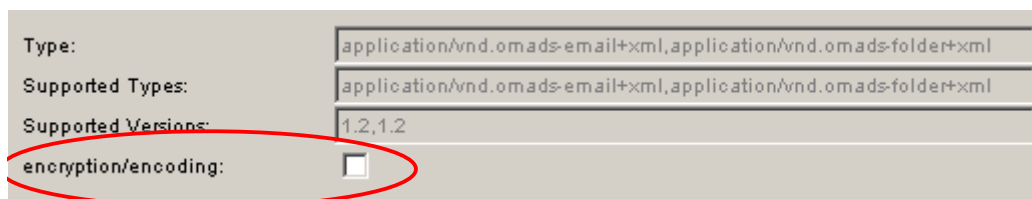
In the SyncSource Panel you can set the following properties:

Property	Description
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)

<i>Property</i>	<i>Description</i>
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
encryption	the communication between syncml client and ds-server will be encrypted (DES and BASE64)

2.6. 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 check the “encryption/encoding checkbox in the SyncSource configuration Panel



The screenshot shows a configuration panel with the following fields:

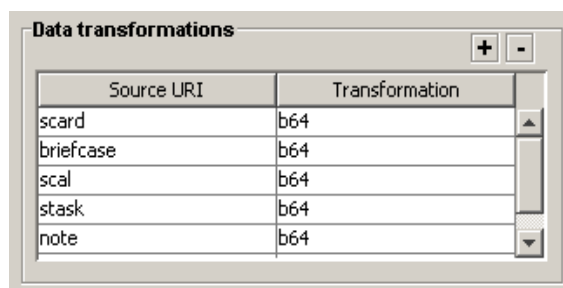
- Type: application/vnd.omads-email+xml,application/vnd.omads-folder+xml
- Supported Types: application/vnd.omads-email+xml,application/vnd.omads-folder+xml
- Supported Versions: 1.2,1.2
- encryption/encoding: ☐ (This checkbox is circled in red in the original image)

Figure 5: encryption settings

if the encryption is enable the synchronization will be provided with DES and BASE64 encoding

You can also check the configuration in the Data transformation panel in the Server Settings section

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



The screenshot shows a window titled "Data transformations" with a table containing the following data:

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

Figure 6: Data Transformation Table

- 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.

2.7. 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>
    <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
```

2.8. 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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