



## Funambol v6 to v6.5 Migration Guide

## Revision History

<i>Name</i>	<i>Date</i>	<i>Reason for Change</i>	<i>Ver./Rev.</i>
G. Migliavacca	17 July 2007	First draft	1.0
S. Nichele	26 July 2007	Added server section	1.1
S. Nichele	02 August 2007	Added section about PimListener and InboxListener configuration	1.2
S. Nichele	31 August 2007	Updated according to v.6.5.1 and added section Database migration script	1.3
S. Nichele	25 September 2007	Updated according to PimListener 6.5.3	1.4
S. Nichele	20 October 2007	Added section about Foundation Connector	1.5
P. Maggi	5 November 2007	Modified database migration script	1.6
P. Maggi	15 November 2007	Database migration script: changed type of column 'principal' in fnbl_email_cache,fnbl_email_folder, fnbl_email_senpop tables; added insertion of Hotmail mail server to the public mail servers list. Revised 'Database changes' section.	1.7
P. Maggi	30 November 2007	Database migration script: updated ids ofr Yahoo and AOL mail servers; added update of Gmail mail server to imap protocol; added update of server type and folder names for AOL mail server; added insertion of Google Mail mail servers.	1.8
G. Zanchi	10 Dicembre 2007	Minor revision	1.9
S.Nichele	05 January 2008	Added Step-by-step migration data instructions	1.10

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# **1. Introduction**

## **1.1. Purpose of this Document**

The purpose of this document is to describe how to migrate data and configuration from Funambol v6 to Funambol v6.5. The document details the migration procedure for single components, such as: DS Server, Email Connector, PIM Listener, etc.

The last sections contain step-by-step instructions about migrate data for hypersonic, mysql and postgres providing moreover the links for the migration script files.

## 2. DS Server

In this chapter we will show the steps in order to migrate users from a v6.0 installation to a v6.5 version. The tables used in the authentication phase (*fnbl\_user*, *fnbl\_device*, *fnbl\_user\_role*, *fnbl\_principal*) have not changed but, in this version, the passwords are stored in the database in an encrypted form.

So, in order to use an already existing user db, the v6.5 DS Server distribution provides a simple script (`encryptPasswords.sh[.cmd]`) that updates all user passwords encrypting them. The utility reads the user from the DS Server database reading the database information (such as the URL, the driver or the username) in the *install.properties* file located under `Funambol/ds-server`.

The script tries to understand if the passwords are already encrypted, and a confirmation is required for the users that maybe already have an encrypted password (maybe you already ran this script or you imported old users so that some users already have an encrypted password and others don't).

## 3. PIMListener

In the new PIM Listener, the configuration bean file has been changed from:

*com/funambol/pushlistener/PushListenerConfiguration.xml*

to:

*com/funambol/pimlistener/PIMListenerConfiguration.xml*

Moreover, the configuration file can be specified in the starting script files (.cmd and .sh) using the system property: *funambol.pushlistener.config.bean*

### 3.1. Cluster architecture

In v6.5, a new cluster architecture based on JGroups has been introduced. With this new architecture, the entries are automatically partitioned between the push listener instances based on the cluster size (number of servers in the cluster) and on the server index. If there is just one server, all entries are handled by that. This makes the field *id\_push\_listener* in the table *fnbl\_push\_listener\_registry* not needed, and so it has been removed (it was used to segment the entries in the db).

### 3.2. Database changes

The length of the field *fnbl\_pim\_listener\_registry* has been increased to 255.

## 4. Foundation connector

### 4.1. Database changes

A new table *fnbl\_pim\_contact\_photo* has been added to store the contact photos.

A new field *photo\_type* (*smallint*) has been added to *fnbl\_pim\_contact* to indicate if the contact has a photo and its type (EMPTY, IMAGE, URL).

## 5. Email Connector / Inbox Listener Migration

In this chapter we will show the steps required to migrate accounts from the v6.0 installation to the v6.5 version.

### 5.1. Inbox Listener configuration

In the new Inbox Listener, the configuration bean file has been changed from:

*com/funambol/pushlistener/PushListenerConfiguration.xml*

to:

*com/funambol/email/inboxlistener/InboxListenerConfiguration.xml*

Moreover, the configuration file can be specified in the starting script files (.cmd and .sh) using the system property: *funambol.pushlistener.config.bean*

### 5.2. Cluster architecture

In v6.5, a new cluster architecture based on JGroups has been introduced. With this new architecture, the accounts are automatically partitioned between the Inbox Listener instances based on the cluster size (number of servers in the cluster) and on the server index. If there is just one server, all accounts are handled by that.

### 5.3. Database changes

The table below shows the differences between the v6 and v6.5 mail handling schemas:

V6 Schema	V6.5 Schema	Note
fnbl_email_cache		Added foreign key to fnbl_principal. Changed type of column 'principal' to 'bigint'.
fnbl_email_inbox	unchanged	
fnbl_email_folder		Added foreign key to fnbl_principal. Changed type of column 'principal' to 'bigint'.
fnbl_email_sentpop		Added foreign key to fnbl_principal. Changed type of column 'principal' to 'bigint'.
fnbl_email_enable_account	unchanged	
fnbl_email_account	modified	Added columns: - ms_mailboxname  Removed columns: - listener_id - activation - refresh_time - keystore_path - keystore_pwd



fnbl_email_push_registry	New (new table used by the push framework)	Columns <ul style="list-style-type: none"> <li>- id: (related to fnbl_email_account.account_id)</li> <li>- period (ex refresh_time)</li> <li>- active (ex activation)</li> <li>- last_update</li> <li>- status</li> <li>- task_bean_file</li> </ul>
fnbl_email_mailserver	modified	Removed columns: <ul style="list-style-type: none"> <li>- keystore_path</li> <li>- keystore_pwd</li> </ul>

## 5.4. Account Migration steps

Read from:

- fnbl\_email\_enable\_account
- fnbl\_email\_account

Insert into the tables:

- fnbl\_email\_enable\_account
  - set all columns
- fnbl\_email\_account
  - set all columns except: listener\_id, activation, refresh\_time
- fnbl\_email\_push\_registry
  - id = account\_id
  - period = fnbl\_email\_account.refresh\_time
  - active = fnbl\_email\_account.activation
  - last\_update = now
  - status = "N"
  - task\_bean\_file = "com/funambol/email/inboxlistener/task/InboxListenerTask.xml"

**Note:** the value of keystore\_path and keystore\_pwd must be ignored.

## 6. Step-by-step migration data instructions

### 6.1. Migration steps on Postgresql

In order to migrate your data, follow these steps:

1. Stop the Funambol services (ds-server, inbox-listener, pim-listener)
2. Backup your database (see Postgresql documentation)
3. Download migration script files from: [http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/docs/ds-server/migrate-v6-to-v65-script-files/postgresql/?only\\_with\\_tag=b\\_v65](http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/docs/ds-server/migrate-v6-to-v65-script-files/postgresql/?only_with_tag=b_v65)
4. Using postgresql tools (like pgAdmin or psql command line tool) run the script migrate\_v6\_to\_v65\_postgresql.sql
5. Open a shell and change directory to Funambol/ds-server/bin
6. Run encryptPasswords.sh[.cmd]

#### 6.1.1. Updating public mail servers

Funambol V6.5 adds support to Hotmail and to GoogleMail. Moreover Gmail is now configured as IMAP server.

In order to help you in the mail servers upgrade, Funambol provides the script migrate\_public\_mailservers\_postgresql.sql. It contains the queries to upgrade the V6 public mail servers to the V65 ones, but if you added your own mail servers or if you changed the configuration of the existing ones, Funambol suggests you to compare the data in fnbl\_email\_mailserver with the V65 init script file:

[http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/modules/emailconnector/src/sql/postgresql/init\\_schema.sql?only\\_with\\_tag=b\\_v65](http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/modules/emailconnector/src/sql/postgresql/init_schema.sql?only_with_tag=b_v65)

### 6.2. Migration steps on MySQL

MySQL was not fully supported in V6, but instructions are available for those who may need them, at:

<https://wiki.objectweb.org/sync4j/Wiki.jsp?page=Funambol60onMysql>

In order to migrate your data, follow these steps:

1. Stop the Funambol services (ds-server, inbox-listener, pim-listener)
2. Backup your database (see MySQL documentation)
3. Download the migration script files from: [http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/docs/ds-server/migrate-v6-to-v65-script-files/mysql/?only\\_with\\_tag=b\\_v65](http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/docs/ds-server/migrate-v6-to-v65-script-files/mysql/?only_with_tag=b_v65)
4. Using MySQL tools run the script: migrate\_v6\_to\_v65\_mysql.sql
5. Open a shell and change directory to Funambol/ds-server/bin
6. Run encryptPasswords.sh[.cmd]

#### 6.2.1. Updating public mail servers

Funambol V6.5 adds support to Hotmail and to GoogleMail. Moreover Gmail is now configured as IMAP server.

In order to help you in the mail servers upgrade, Funambol provides the script migrate\_public\_mailservers\_mysql.sql. It contains the queries to upgrade the V6 public mail servers to the V65 ones, but if you added your own mail servers or if you changed the configuration of the existing

ones, Funambol suggests you to compare the data in fnbl\_email\_mailserver with the V65 init script file:  
[http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/modules/emailconnector/src/sql/mysql/init\\_schema.sql?only\\_with\\_tag=b\\_v65](http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/modules/emailconnector/src/sql/mysql/init_schema.sql?only_with_tag=b_v65)

### 6.3. Migration steps on Hypersonic (default bundle installation)

In order to migrate your data, follow these steps (FunambolV6 indicates the root directory of the V6 installation, FunambolV65 indicates the root directory of the V65):

1. Stop the Funambol V6 services (ds-server, inbox-listener, pim-listener, hypersonic)
2. Backup your database copying the files in FunambolV6/tools/hypersonic/data
3. Download the migration script files from [http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/docs/ds-server/migrate-v6-to-v65-script-files/hypersonic?only\\_with\\_tag=b\\_v65](http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/docs/ds-server/migrate-v6-to-v65-script-files/hypersonic?only_with_tag=b_v65) and copy it in the Funambol root directory.
4. Start the Funambol V6 services (in this way also hypersonic will be started).
5. Run:

---

```
tools\jre-1.5.0\jre\bin\java org.hsqldb.util.SqlTool --autocommit --inlineRc
URL=jdbc:hsqldb:hsqldb://localhost/funambol,USER=sa
migrate_v6_to_v65_hypersonic.sql
```

---

Press <Enter> when the password for user sa is required since by default it is empty..

6. Stop the Funambol V6 services (ds-server, inbox-listener, pim-listener, hypersonic)
7. Copy data files from FunambolV6/tools/hypersonic/data to FunambolV65/tools/hypersonic/data
8. Start the Funambol V65 services (ds-server, inbox-listener, pim-listener, hypersonic)
9. Open a shell and change directory to FunambolV65/ds-server/bin
10. Run encryptPasswords.sh[.cmd]

#### 6.3.1. Updating public mail servers

Funambol V6.5 adds support to Hotmail and to GoogleMail. Moreover Gmail is now configured as IMAP server.

In order to help you in the mail servers upgrade, Funambol provides the script migrate\_public\_mailservers\_hypersonic.sql. It contains the queries to upgrade the V6 public mail servers to the V65 ones, but if you added your own mail servers or if you changed the configuration of the existing ones, Funambol suggests you to compare the data in fnbl\_email\_mailserver with the V65 init script file:

[http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/modules/emailconnector/src/sql/hypersonic/init\\_schema.sql?only\\_with\\_tag=b\\_v65](http://cvs.forge.objectweb.org/cgi-bin/viewcvs.cgi/sync4j/3x/modules/emailconnector/src/sql/hypersonic/init_schema.sql?only_with_tag=b_v65)