

Funambol DM Server

Administration Guide

Version 3.0
July 2006



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



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Introduction

This document is intended for developers and administrators who manage the Funambol DM Server, and provides information on the following:

- Installing the Funambol DM Server
- Starting and stopping the Funambol DM Server

Prerequisites

The following software should be installed before installing the Funambol DM Server:

- **Java Development Kit** – Java Development Kit 1.4.x or 1.5.x. Ensure that the `JAVA_HOME` environment variable points to the top directory of the JDK.
- **Application Server** – The application servers tested with the Funambol DM Server include JBoss versions 3.0.x and 3.2.x. Other servers may function but have not been tested. Ensure that the `J2EE_HOME` environment variable points to the top directory of the application server.
- **JDBC Compatible Database** – The use of a database by the Funambol DM Server requires that you have created a database with the appropriate permissions for connecting, creating, deleting, reading and writing tables. Default values used by the Funambol DM Server are `database=sync4j` and `username=sync4j`.

For additional information on the above software, see “Resources” on page 5.

Obtaining the Software

You can download the software from the Funambol website. The following versions are available:

- **Stable release** – this release is tested for the defined feature set.
- **Developer (beta) release** – this release includes work in progress, and may have additional features. The developer release supports normal Funambol DM Server functionality; however, open issues may be present.

The Funambol DM Server is available for download unbundled (i.e., no other components are included).



Installation

This section describes how to install the Funambol DM Server. It assumes that you have an application server, JDK/JRE, and a JDBC-compliant database installed on your system, or will obtain and install those components before proceeding.

Installing the Funambol DM Server

1. Create a top-level directory to store all Funambol components. We suggest that you name this directory `funambol`, and will refer to it as `<FUNAMBOL_HOME>`.
2. Unpack the compressed file containing the Funambol DM Server in `<FUNAMBOL_HOME>`. This will automatically create a subdirectory for the server software that we will refer to as `<DM_SERVER_HOME>`.
3. Using a text editor, open the `<DM_SERVER_HOME>\install.properties` file. Note that commented lines are preceded by the number (#) symbol.
4. Locate the `server-name=` property and specify the URL via which your clients will access the Funambol DM Server. If your client is on the same system, do not specify a value and it will default to `<localhost>`.
5. Locate the `dbms=` property and specify the name of your JDBC-compliant database.
6. Locate the following lines and specify values appropriate for your database:

```
jdbc.classpath=
jdbc.driver=
jdbc.url=
jdbc.user=
jdbc.password=
```
7. Save and close `install.properties`.
8. Your application server must be able to load the driver specified in the `jdbc.driver` property in Step 6 above. For JBoss, you can copy the driver JAR file to the `JBoss/server/default/lib` directory.
9. Verify that your `J2EE_HOME` environment variable points to the top-level directory where your application server resides, and the `JAVA_HOME` environment variable points to the top-level directory where the JDK/JRE resides.
10. Run the server installation script.

Windows: open a command prompt window by selecting **Start > All Programs > Accessories > Command Prompt** and type the following at the prompt:

```
cd <DM_SERVER_HOME>
bin\install <application_server>
```



Example: JBoss 3.2.x

```
> cd program files\funambol\dm-server
> bin\install jboss32
```

Unix/Linux:

```
shell) cd <DM_SERVER_HOME>
shell) sh bin/install.sh <application_server>
```

You will be prompted several times; type **y** for "yes" for all questions.

NOTE: The Funambol DM Server database structure is different from and incompatible with the Funambol DS Server database; therefore, you should install the Funambol DM Server using a different database schema.



Starting and Stopping the Funambol DM Server

The methods for starting and stopping the Funambol DM Server depend on how the application server associated with the server starts and stops J2EE applications. In this section, we assume the Funambol DM Server is installed as a standalone application; therefore, when the Funambol DM Server is stopped, the entire application server is stopped, and when it is started, the entire application server is started.

Starting the Server

The following commands start the Funambol DM Server:

Windows

```
cd <DM_SERVER_HOME>  
bin\start.cmd
```

Unix / Linux

```
shell) cd <DM_SERVER_HOME>  
shell) sh bin/start.sh
```

To check that the Funambol DM Server is started, point a browser to `http://<server>:<port>/dmdemo` (you should get the DM Demo welcome page).

Stopping the Server

Stopping the Funambol DM Server depends on the application server. For JBoss, if it is running in foreground, press **Ctrl+C**. If this fails, determine the process id and kill it with an operation system command or tools.



Resources

This section lists resources you may find useful.

Related Documentation

This section lists documentation resources you may find useful.

Funambol DM Server Documentation

The Funambol DM Server documentation set includes the following documents:

- *Funambol DM Server Administration Guide*: This document.
- *Funambol DM Server Developer's Guide*: Read this guide to understand how to develop extensions to the DM Server.
- *Funambol DM Server DM Demo User's Guide*: Read this guide for a demonstration of the basic management operations of the DM Server.
- *Funambol DM Server SCTS Testing Guide*: Read this guide for instructions on using the SCTS tool to test devices and the DM Server for SyncML 1.1.2 compliance.

Other Resources

This section lists other resources you may find useful.

- For information on Java 2 Standard Edition, visit <http://java.sun.com/j2se>.
- For information on Java 2 Enterprise Edition, visit <http://java.sun.com/j2ee>.
- For information on JBoss, visit <http://www.jboss.org>.