Funambol DM Server
OSS Edition
Administration Guide

Revision History

Name	Date	Reason for Change	Version
T.Okamoto	Jan 27, 2013	Renewal for OSS Edition 3.7	1.0

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1 Introduction

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

- Installing the Funambol DM Server

- Starting and stopping the Funambol DM Server

2 Getting started

2.1 Prerequisites

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

- **Java Development Kit** - Java Development Kit **1.6.x** or **1.7.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 only **JBoss Application Server versions 7.1.** Other versions and servers may not function. Ensure that the *J2EE_HOME* environment variable points to the top directory of the application server.

- **JDBC Compatible Database** - **PosgreSQL** and **MySQL** are tested with the Funambol DM Server. 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=fnbl_dm*, *username=fnbl_dm* and *userpasswod=fnbl_dm*.

For additional information on the above software, see "Resources" on page 10.

2.2 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**(Currently not released) - 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).

3 Installation

This section describes how to install the Funambol DM Server. It assumes that you have an application server, JDK, and a JDBC-compliant database (including JDBC driver which must be **type 4**) installed on your system, or will obtain and install those components before proceeding.

3.1 Install procedure

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 and the port number and the content path. If your client is on the same system, do not specify a value and it will default to *http://localhost:8080/funambol/dm*.

> *Example: Host name is xxx06*
> *server-name=http://xxx06:8080/funambol/dm*

5. Locate the *dbms* property and specify the name of your JDBC-compliant database.

Example: PostgreSQL
dbms=postgresql

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6. Locate the following properties and specify values appropriate for your database; configurations of JDBC driver:

   jdbc.classpath

   jdbc.driver

   jdbc.url

   jdbc.user

   jdbc.password

   jdbc.file

   jdbc.module

Example: PostgreSQL
jdbc.classpath=/Java/jdk1.6.0_22/lib/postgresql.jar
jdbc.driver=org.postgresql.Driver
jdbc.url=jdbc:postgresql://localhost/fnbl_dm
jdbc.user=fnbl_dm
jdbc.password=fnbl_dm
jdbc.file=postgresql.jar
jdbc.module=org.postgresql

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7. Save and close *install.properties*.

8. 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 resides.

9. 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.cmd <application_server>

   > *Example: JBoss 7.1*
   > *> cd c:\Funambol\dm-server*
   > *> bin\install.cmd jboss7*

   Linux:

   $ cd <DM_SERVER_HOME>

   $ 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.

3.2 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 Java EE 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.

3.2.1   Starting the Server

The following commands start the Funambol DM Server:

>*Windows*

>*>cd <DM_SERVER_HOME>*

>*>bin\start.cmd*

>*Linux*

>*$ cd <DM_SERVER_HOME>*

>*$ sh bin/start.sh*

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

3.2.2   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.

4 Resources

This section lists resources you may find useful.

4.1 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**(for vesion 3.0): 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**(for version 3.0): Read this guide for instructions on using the SCTS tool to test devices and the DM Server for SyncML 1.2 compliance.

For information on Funambol DM Server, visit *http://okamoto.sourceforge.jp/*.

For information on former Funambol DM Server, visit

http://forge.ow2.org/project/showfiles.php?group_id=96.

4.2 Other Resources

This section lists other resources you may find useful.

For information on Java SE and Java EE, visit

http://www.oracle.com/technetwork/java/index.html.

For information on JBoss Application Server, visit *http://www.jboss.org/jbossas/*.

For information on OMA DM, visit

http://technical.openmobilealliance.org/Technical/current_releases.aspx.