# Funambol DM Server OSS Edition DMDemo User's Guide

# Revision History

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

# **Table of Contents**

1	Introduction	3
2	Getting started	
	2.1 Prerequisites	
	2.2 Setting Up a Device	
	2.3 Register a Device to the DMDemo	
3	Using DMDemo.	8
	3.1 Login	8
	3.2 Get Device Details	. 10
	3.3 Tree Discovery	. 11
	3.4 Custom	. 14
4	Resources.	. 18

## 1 Introduction

This document describes how you can test basic operations of the Funambol Device Management Server(DM) with OMA DM compliant phones. The Funambol DM Server is a full implementation of the OMA DM protocol, and contains a demo interface that allows you to explore its protocol implementation.

#### **DM Operations Overview**

This document shows how to access the demo interface to perform the following operations:

- Register a device with the DM Server register a device with the server, and configure the device by setting up a profile.
- **Get device details** view device details based on the DevInfo and DevDetail Nodes.
- Tree discovery view the entire device Tree or a specific Node.
- Custom perform a set of DM commands (e.g., Add, Replace, Delete).

The examples shown in this demonstration use the SCTS DM v 1.2 tool to emulate a OMA DM compliant phone. For details on this tool, see "Resources" on page 18.

# 2 Getting started

This section describes preliminaries before using the DMDemo.

## 2.1 Prerequisites

The following are the prerequisites for this demonstration:

- Funambol DM Server
- OMA DM Compliant Phone or Device Emulator this demonstration has been tested on the some devices(T.B.D). It should work on any OMA DM compliant phone, since the Funambol DM Server code has been certified at the Open Mobile Alliance (OMA) TestFest as DM V1.2.

Knowledge of the OMA DM is highly recommended.

# 2.2 Setting Up a Device

This section describes how to register a device with the Funambol DM Server, and how to set up a profile for a mobile phone.

On your emulator, create a new client device with the following parameters:

Parameter	Value
Device ID	dmtest
Account	funambol
MaxMsgSize	5000
Max0bjSize	25000
SupportLrgObj	checked
Encoding	WBXML(or XML)

and create a new account with the following parameters:

Parameter	Value
Name	funambol
Server ID	funambol
Address	http:// <hostname address="" ip="" or="">:<port number=""> /funambol/dm</port></hostname>
Server authentification	DIGEST
Server password	srvpwd
Client authentification	DIGEST
User name	funambol
User password	funambol
ServerNonce	5678(as characters)
ClientNonce	1234(as characters)

# 2.3 Register a Device to the DMDemo

- 1. Start the DM Server.
- 2. From a web browser, enter the URL

http://<your\_server>:<your\_port>/funambol/dm.

3. You will get the following Login screen,



4. Click Add New Device, enter < your\_deviceId> and push Add button.

You will get the following screen,

Funambol DM Server DMDemo User's Guide



# 3 Using DMDemo

This section describes how to use the DMDemo.

## 3.1 Login

- 1. Start up the DM Server.
- 2. From a web browser, enter the URL

http://<your\_server>:<your\_port>/funambol/dm.

- 3. You will get the Login screen,
- 4. Enter < your\_deviceId> in the device Id field.
- 5. Click **LogIn**. The following screen displays:



You select an operation using the listbox titled **Select the management operation**; it contains the following selections: **Get device details**, **Tree discovery**, and **Custom**.

Each is covered in subsequent sections of this document. The selected operation will be added to the list (currently empty) at the bottom of the screen.

To Logout, Click LogOut. You will back to the Login screen.

**NOTE**: The Device Id displays the SCTS tool used as a device emulator.

### 3.2 Get Device Details

This operation allows you to see device details based on DevInfo and DevDetail Nodes.

- 1. In the Select the management operation listbox, select Get device details.
- 2. Click **Add to operation list**. The server will wait for your connection, the State column displays the value *Pending*.



3. On your phone, click **Connect**. When the operation is successful, the State column displays the value *Completed*.



4. Click the icon in the **View log** column. This displays the details of your phone.

	Device Id:	dmtest	
	Session Id:	1358491756828	
	State:	Completed	
	Operation:	Get device details	
		Cancel	
Operation	Node URI	Results	Status Code
Get	./DevInfo/Man	SyncML	200
Get	./DevInfo/Mod	scts devman	200
Get	./DevDetail/DevTyp	Windows workstation	200
Get	./DevDetail/OEM	SyncML Initiative	200
Get	./DevInfo/Lang	en-us	200
Get	./DevDetail/FwV	1.0	200
Get	./DevDetail/SwV	4.0	200
Get	./DevDetail/HwV	intel	200
	/DevInfo/DmV	4.0	200

# 3.3 Tree Discovery

This operation allows you to explore the entire device Tree or a specific Node.

1. In the **Select the management operation** listbox, select **Tree discovery** and click **Add to operation list**. This displays the following parameters:



- 2. Select a value for Root Node and click **Add to operation list**. The server will wait for your connection.
- 3. On your phone, click **Connect**. When the operation is completed successfully, the State column displays the value Completed.



**4.** Click the icon in the View log column. This displays all the parameters under the specified Root Node.

Funambol DM Server DMDemo User's Guide

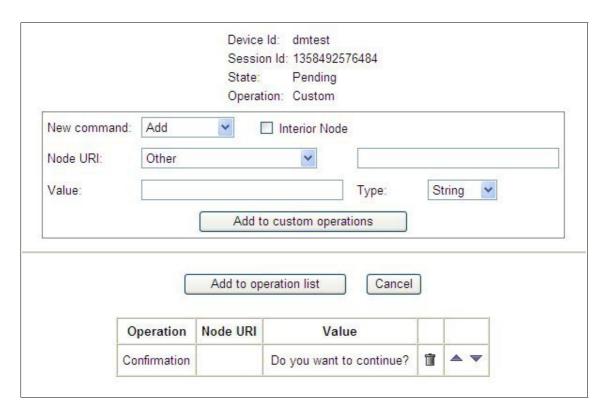
Root Node: .  Cancel		
./DevDetail/Bearer		
./DevDetail/DevTyp	Windows workstation	
./DevDetail/FwV	1.0	
./DevDetail/HwV	intel	
./DevDetail/LrgObj	true	
./DevDetail/OEM	SyncML Initiative	
./DevDetail/SwV	4.0	
./DevDetail/URI		
./DevDetail/URI/MaxDepth	0	
./DevDetail/URI/MaxSegLen	0	
./DevDetail/URI/MaxTotLen	0	

**NOTE**: The selection Entire Tree returns the entire configuration of your phone. This operation could take 10 minutes or more.

## 3.4 Custom

This operation allows you to apply one or more DM commands (e.g., Add, Replace, Delete) to Nodes. For example, you can remotely change the parameters on a mobile phone.

1. In the **Select the management operation** listbox, select **Custom** and click **Add** to operation list. This displays the following fields:



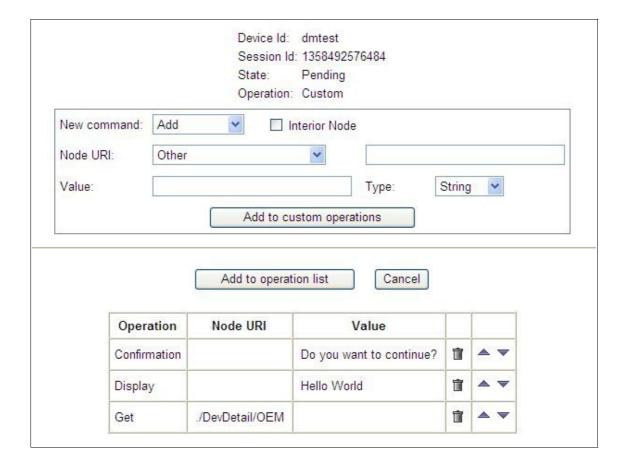
#### **2.** Specify values for the following parameters:

Parameter	Description
New command	The DM command to be performed
Interior Node	Specifies an interior node (a node that can have subnodes).
Node URI	The URI of the node (e.g., ./DMAcc).
Blank field adjacent to Node URI	When 'Other' is selected for the Node URI parameter, you can specify a URI different from those available in the selection list for Node URI.
Value	Value used by the command. Available with the following DM commands: Add, Copy, Exec, Replace, Display, Confirmation, Choice and Inpput.
Туре	Data type of Value (preceding field).
Options	Optional parameters for the DM command. Ex, Correlator for Exec commnad, 3 choices for Choice command.

To create a set of custom operation, click **Add to custom operations**, then repeat this procedure. Each cutom operation that you define dsiplay in a list(currently empty) at the buttom of screen.

(Do not click **Add to operation list** until you have specified all custom operations.)

If you specify a set of custom operations, it displays as follows:



You can delete or change the order of the operations using the icons on the right.

- 3. When your set of operations is ready, click Add to operations list.
- **4.** On your phone, click **Connect**. When the operation is completed successfully, the State column displays the value Completed.

Funambol DM Server DMDemo User's Guide



5. Click the icon in the View log column. This displays the Results and Status Code columns.



### 4 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: Read this guide for server installation instructions.
- Funambol DM Server Developer's Guide(for version 3.0): Read this guide to understand how to develop extensions to the DM Server.
- Funambol DM Server DM Demo User's Guide: This document.
- 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 1.1.2 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.