

Funambol DM Server DMDemo User's Guide

Funambol DM Server
OSS Edition
DMDemo User's Guide

Revision History

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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
MaxObjSize	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 or IP address>:<port number> /funambol/dm
Server authentication	DIGEST
Server password	srvpwd
Client authentication	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,



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*.

Device Id: dmtest

Select the management operation: Get device details ▼
Add to operation list

Refresh
Stop

Device Id	Session Id	Operation	State	Start time	End time	View log	
dmtest	1358491756828	Get device details	Pending				

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

Device Id: dmtest

Select the management operation: Get device details ▼
Add to operation list

Device Id	Session Id	Operation	State	Start time	End time	View log	
dmtest	1358491756828	Get device details	Completed	01-18-2013 15:55:05	01-18-2013 15:55:07		

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			
<input type="button" value="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
Get	./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:

Device Id: dmtest
 Session Id: 1358492244968
 State: Pending
 Operation: Tree discovery

Root Node: ▼

Node URI:

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.

Device Id: dmtest

Select the management operation: ▼

Device Id	Session Id	Operation	State	Start time	End time	View log	
dmtest	1358491756828	Get device details	Completed	01-18-2013 15:55:05	01-18-2013 15:55:07	📄	🗑️
dmtest	1358492244968	Tree discovery	Completed	01-18-2013 15:59:09	01-18-2013 15:59:16	📄	🗑️

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

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Root Node: ..	
<input type="button" value="Cancel"/>	
/DevDetail	
/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:

Device Id: dmtest
 Session Id: 1358492576484
 State: Pending
 Operation: Custom

New command: Add ▼ Interior Node

Node URI: Other ▼

Value: Type: String ▼

Add to custom operations

Add to operation list
Cancel

Operation	Node URI	Value		
Confirmation		Do you want to continue?	🗑️	▲ ▼

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.
Type	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 dsisplay 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:

Device Id: dmtest
 Session Id: 1358492576484
 State: Pending
 Operation: Custom

New command: Add Interior Node

Node URI: Other

Value: Type: String

Add to custom operations

Add to operation list
Cancel

Operation	Node URI	Value		
Confirmation		Do you want to continue?	🗑	▲ ▼
Display		Hello World	🗑	▲ ▼
Get	./DevDetail/OEM		🗑	▲ ▼

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.

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Device Id: dmtest

Select the management operation: Get device details ▼

Add to operation list

Device Id	Session Id	Operation	State	Start time	End time	View log	
dmtest	1358491756828	Get device details	Completed	01-18-2013 15:55:05	01-18-2013 15:55:07		
dmtest	1358492244968	Tree discovery	Completed	01-18-2013 15:59:09	01-18-2013 15:59:16		
dmtest	1358492576484	Custom	Completed	01-18-2013 16:09:24	01-18-2013 16:09:29		

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

Device Id: dmtest
 Session Id: 1358492576484
 State: Completed
 Operation: Custom

Cancel

Operation	Node URI	Value	Results	Status Code
Confirmation		Do you want to continue?		Yes
Display		Hello World		200
Get	./DevDetail/OEM		SyncML Initiative	200

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.