Funambol DM Server

DM Demo User's Guide

Version 3.0
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Important Information

Contents

Introduction

This document describes how you can test basic operations of the Funambol Device Management Server with a SyncML DM compliant phone. The Funambol DM Server is a full implementation of the SyncML 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 commands (e.g., add, replace, delete).

The examples shown in this demonstration use the SCTS DM v 1.1.2 tool to emulate a SyncML DM compliant phone. For details on this tool, see "Resources" on page 11.

Prerequisites

The following are the prerequisites for this demonstration:

- **Funambol DM Server**

- **SyncML DM Compliant Phone or Device Emulator** – this demonstration has been tested on the Nokia 6600 and 7610 devices. It should work on any SyncML DM compliant phone, since the Funambol DM Server code has been certified at the Open Mobile Alliance (OMA) TestFest.

Knowledge of OMA Device Management is highly recommended.

Accessing the Demo Interface

To access the demo interface, point a web browser to the following URL: `http://`
`<your_server>:<your_port>/dmdemo.`, where `<your_server>` is the name of your DM
Server and `<your_port>` is the port used by your server. The browser displays the following
screen:

All functionality described in this document will be accessed through this interface.

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.

Registering a Device

To register a device, perform the following:

1. Open the demo interface if not already open.

2. In the Device Id field, specify the Id. For mobile phones, specify the IMEI.

   Example: `IMEI:1234567890123456`

   The format can be that shown above, or just the value without the '`IMEI:`' prefix. Use the format that is appropriate for your device.

3. Click **Add New Device**.

Configuring a Mobile Phone

On your mobile phone, access the device manager functionality to set up a new profile, and specify the following parameters:

Parameter	Value
Server Name:	Funambol
Server ID:	funambol
Server Pwd:	srvpwd
Access Point:	<youraccesspoint>
Host Address:	http://<yourserver>/funambol/dm
Port:	<yourport>
Username:	funambol
Pwd:	funambol
Active:	yes
Accepted:	yes

Using the DM Demo

Login to the Demo

To perform device management operations, login to the demo as follows:

1. Open the demo interface if not already open.

2. In the Device Id field, specify the Id.

3. 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.

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

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.

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

Device Id: scts

Select the management operation: Get device details

Add to operation list

Device Id	Session Id	Operation	State	Start time	End time	View log	
scts	1150908281963	Get device details	Completed	06-21-2006 18:49:03	06-21-2006 18:49:09	🗎	🗑

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

Device Id: scts
Session Id: 1150908281963
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

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Tree Discovery

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

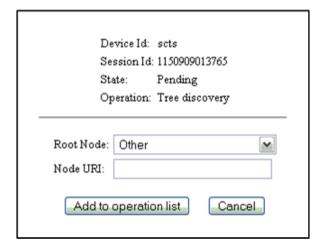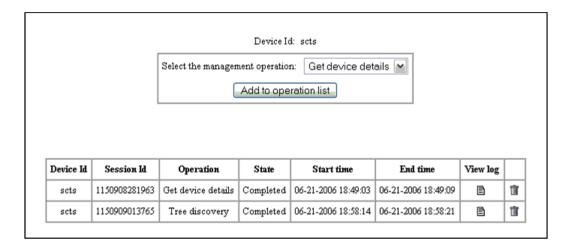1. In the **Select the management operation** listbox, select **Tree discovery** and click **Add to operation list.** This displays the following parameters:

```
Device Id:  scts
Session Id: 1150909013765
State:      Pending
Operation:  Tree discovery
─────────────────────────────────
Root Node:  [ Other          ▼ ]
Node URI:   [               ]

   [ Add to operation list ]   [ Cancel ]
```

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:  scts

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

Device Id	Session Id	Operation	State	Start time	End time	View log	
scts	1150908281963	Get device details	Completed	06-21-2006 18:49:03	06-21-2006 18:49:09	🗎	🗑
scts	1150909013765	Tree discovery	Completed	06-21-2006 18:58:14	06-21-2006 18:58:21	🗎	🗑

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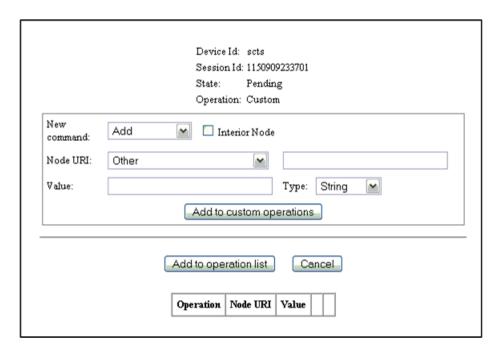

NOTE: The selection *Entire Tree* returns the entire configuration of your phone. This operation could take 10 minutes or more.

Custom

This operation allows you to apply one or more 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:
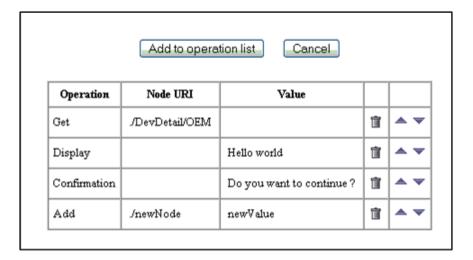

2. Specify values for the following parameters:

Parameter	Description
New Command	The 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., `./SyncML/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 commands: Add, Replace, Display, Confirmation.
Type	Data type of Value (preceding field).

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

(Do not click **Add to operation list** until you have specified all custom operations.)
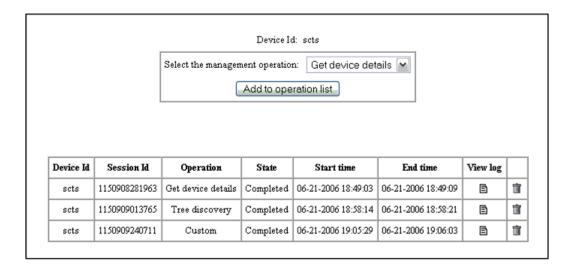
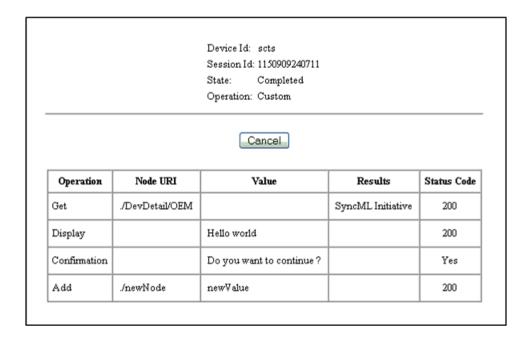If you specify a set of custom operations, it displays as follows:

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

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*.

Device Id: scts

Select the management operation: Get device details ⌄

Add to operation list

Device Id	Session Id	Operation	State	Start time	End time	View log	
scts	1150908281963	Get device details	Completed	06-21-2006 18:49:03	06-21-2006 18:49:09	🗎	🗑
scts	1150909013765	Tree discovery	Completed	06-21-2006 18:58:14	06-21-2006 18:58:21	🗎	🗑
scts	1150909240711	Custom	Completed	06-21-2006 19:05:29	06-21-2006 19:06:03	🗎	🗑

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

Device Id: scts
Session Id: 1150909240711
State: Completed
Operation: Custom

Cancel

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

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:* 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*: Read this guide for instructions on using the SCTS tool to test devices and the DM Server for SyncML 1.1.2 compliance.