Funambol DM Server

DM Demo User’s Guide

Version 3.0
July 2006
Important Information

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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 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: \texttt{http://<your_server>:<your_port>/dmdemo}, where \texttt{<your_server>} is the name of your DM Server and \texttt{<your_port>} is the port used by your server. The browser displays the following screen:

![Demo Interface Screen](image)

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:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Name:</td>
<td>Funambol</td>
</tr>
<tr>
<td>Server ID:</td>
<td>funambol</td>
</tr>
<tr>
<td>Server Pwd:</td>
<td>srvpwd</td>
</tr>
<tr>
<td>Access Point:</td>
<td>&lt;youraccesspoint&gt;</td>
</tr>
<tr>
<td>Host Address:</td>
<td>http://&lt;yourserver&gt;/funambol/dm</td>
</tr>
<tr>
<td>Port:</td>
<td>&lt;yourport&gt;</td>
</tr>
<tr>
<td>Username:</td>
<td>funambol</td>
</tr>
<tr>
<td>Pwd:</td>
<td>funambol</td>
</tr>
<tr>
<td>Active:</td>
<td>yes</td>
</tr>
<tr>
<td>Accepted:</td>
<td>yes</td>
</tr>
</tbody>
</table>
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.

4. Click the icon in the View log column. This displays the details of your phone.
**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 Discovery Parameters](image)

   - **Device Id**: scts
   - **Session Id**: 1150909013765
   - **State**: Pending
   - **Operation**: Tree discovery

   ![Root Node Selection](image)

   - **Root Node** can be selected from the options.
   - **Node URI**: Empty

   ![Add to Operation List](image)

   - Click **Add to operation list**.

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**.

![Operation List](image)
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:

![Image of Custom operation interface]

2. Specify values for the following parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Command</td>
<td>The command to be performed.</td>
</tr>
<tr>
<td>Interior Node</td>
<td>Specifies an interior node (a node that can have subnodes).</td>
</tr>
<tr>
<td>Node URI</td>
<td>The URI of the node (e.g., ./SyncML/DMacc).</td>
</tr>
<tr>
<td>Blank field adjacent to Node URI</td>
<td>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.</td>
</tr>
<tr>
<td>Value</td>
<td>Value used by the command. Available with the following commands: Add, Replace, Display, Confirmation.</td>
</tr>
<tr>
<td>Type</td>
<td>Data type of Value (preceding field).</td>
</tr>
</tbody>
</table>

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 Table]

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

<table>
<thead>
<tr>
<th>Operation</th>
<th>Node URI</th>
<th>Value</th>
<th>Results</th>
<th>Status Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>/DevDetail/OEM</td>
<td>SyncML Initiative</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td></td>
<td>Hello world</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>Confirmation</td>
<td></td>
<td>Do you want to continue?</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Add</td>
<td>/newNode</td>
<td>newValue</td>
<td></td>
<td>200</td>
</tr>
</tbody>
</table>
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.
