UMDS (Version 6.12)

UMDS Quick Start

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Chapter 1

Introduction

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This guide helps first-time users initially configure and start the UMDS Server and run some of the example applications. It is written for technical staff who install the UMDS package and who develop UMDS client applications.

The reader is assumed to be familiar with Ultra Messaging concepts.

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Chapter 2

UMDS Quick Overview

UMDS requires different types of installations for the UMDS Server and the UMDS Client.

When you install the UMDS Server and UMDS Client, the installer or installation procedure places files in an `[installdir]` directory.

On a Linux machine, `[installdir]` is typically the following:
`/home/`*user-id*`/UMDS_6.12/Linux-glibc-2.5-x86_64`
(the glibc version is subject to change)

For a client on a Microsoft Windows machine, `[installdir]` is typically the following:
`C:\Program Files\Informatica\UMDS_6.12_client\Win2k-x86_64</filepath>`

2.1 UMDS Server Installation

You must install the UMDS Server on a Linux machine that also has UMS, UMP, or UMQ of version 6.0 or beyond.

To install the UMDS Server, perform the following procedure:

1. Download the UMDS package, the current UMS, UMP, or UMQ version Linux package, and a UMDS license file. Contact Informatica Sales or initiate a shipping request.
2. Install the current version of UMS, UMP, or UMQ, if not already installed.
3. Install UMDS Server by entering the commands:

   ```
   cd [installdir]
   ./UMDS_6.12_Linux-glibc-2.17-x86_64.sh
   ```

   (the glibc version is subject to change)
4. Save the UMDS license file to `[installdir]`. Note the path and filename for later use with the UMDS configuration file.

2.2 UMDS Client Installation

You can install UMDS Clients on UNIX and/or Microsoft Windows machines. The UMDS Client does not require an Ultra Messaging UMS, UMP, or UMQ installation on the client host.

1. For Windows UMDS clients, download the UMDS Windows client package. Contact Informatica Sales or initiate a shipping request. The UMDS package for UNIX contains both the server and Java clients.
2. Run the UMDS client installation appropriate for your client platform. For Windows, run `UMDS_6.12_client-install.exe`. For UNIX, follow the server installation instructions.
3. If you want to run the example applications, download `openmdx-kernel.jar` and `log4j-1.2.9.jar` files, or locate the same files in the UMS, UMP, or UMQ installation.

Note

The example applications install under the `[installdir]` in the `dotnet_client/bin` and `java_client/bin<` directories.

Chapter 3

Configuring the UMDS Server

Before starting the UMDS Server, perform the following adjustments to the UMDS Server configuration file. When editing, do not change the order of the elements in `cfg.xml`.

1. Open `[installdir]/doc/UMDS/QuickStart/cfg.xml` in a text editor.
2. Add the UMDS license file name to the `<lbm-license-file>` element.
3. Specify a null UM configuration file with `<lbm-config></lbm-config>` or specify a valid UMS configuration file. Note that the UMDS Server ignores some parameters.
4. The default server connection port is 14701. If this is unavailable, edit the `<server ...>` element to use a different port, for example: `<server bind-addr="*:14733"/>`. Note this server's IP address and the new port number for later use.
5. If using the UMDS Web Monitor, ensure that the Web Monitor port number does not conflict with other UMDS Servers or other applications.
6. Save the updated `cfg.xml` configuration file in `[installdir]`.

Chapter 4

Starting the UMDS Server

To start the UMDS Server, perform the following procedure:

1. Open a terminal window and navigate to the server bin directory.

   ```
   $ cd  [installdir]/bin
   ```

2. Update `LD_LIBRARY_PATH` with both UMDS and Ultra Messaging library paths.

   ```
   $ LD_LIBRARY_PATH="/usr/lib:[LBMinstalldir]/lib:[UMinstalldir]/lib"
   export LD_LIBRARY_PATH
   ```

3. Issue the following command:

   ```
   $ ./umdsd ../cfg.xml
   ```

You see output similar to the following:

```
Ultra Messaging Desktop Services Version 6.12 Build: ...

Purpose: UMDS daemon

authentication: Warning: no authentication methods specified, 'none' assumed
```

Open a Web browser to the web monitor IP address and port noted in Configuring the UMDS Server. E.g. `http://172.16.254.1:8080`

Chapter 5

Running UMDS Example Applications

To run UMDS client example applications, perform the following platform and source language procedure.

5.1 Windows Java Example

To run UMDS example Java applications on a Microsoft Windows machine, perform the following procedure.

1. Save the openmdx-kernel jar file to UMDS `[installdir]`.
2. Locate the UMDS client jar file in `[installdir]`. It was placed there by the UMDS Client Installation.
3. Open a Command Prompt and start a UMDS receiver connection to the server. Substitute the UMDS Server's IP address and port number for `ip:port`.

   ```
   java -cp [installdir]\[umdsjarfile];[installdir]\openmdx-kernel.jar umdsreceive -S ip:port my
   ```

4. Open a second Command Prompt and Start a UMDS source connection to the server for the same topic. Substitute the UMDS Server's IP address and port number for `ip:port`.

   ```
   java -cp [installdir]\[umdsjarfile];[installdir]\openmdx-kernel.jar umdssend -S ip:port mytop
   ```

If there are problems, first check version compatibility by issuing the following command:

```
java -version
```

Compare the installed java version with the version in the UMDS jar file name. The jar file version number should be equal to or lower than the installed java version.