

Installation Manual V1.0

enprovia®
mDMS Gateway

Update Summary

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mDMS application

The mobile DMS client (mDMS) allows you to connect to your Document Management System (DMS) using a regular iPhone or iPod. There is also a BlackBerry® version of mDMS available from us.

With enprovia ® mDMS you can search and navigate through folders (dossiers/matters) and documents located on your DMS. You can subscribe to changes on both documents and folders, notifying you about any modifications in real time. Furthermore, you can keep documents offline, stored locally in the mDMS's secure Vault.

enprovia® mDMS currently supports the following Document Management Systems:

- Scalaris® ASP
- Alfresco®
- Microsoft Sharepoint®
- Basically any DMS with WebDAV support

With our plugin-based system we can rapidly build support for other DMS's on request.

This manual is about the installation of the mDMS Gateway, the server side component that enable mDMS client to run within your company.

Installing mDMS Gateway Package

Prerequisites

The mDMS gateway is released with an embedded jetty server engine (<http://jetty.codehaus.org/jetty/>). It can be installed on any Windows or Linux/Unix Operating System and requires a **JDK 1.5 or higher** properly installed (check the version typing the 'java -version' from command line).

An Alfresco or Sharepoint bundle. However for testing, the default configuration connects to an Alfresco instance available from enprovia.

To use the mDMS gateway with a local SharePoint instance you will need a licence key which you can get by contacting mdms-support@enprovia.com.

Quick Installation with Alfresco

By default the bundle comes with an embedded HSQL database and the Alfresco test instance is provided by enprovia as default DMS. Once you have downloaded the bundle you can have the Gateway running very quickly following these steps:

1. Obtain the correct bundle for your DMS system here
<http://www.enprovia.com/products/mobile/mdms/gateway-download/index.html>
2. Contact mdms-support@enprovia.com for a [license key](#)
3. Unzip the bundle to your applications directory. For example: c:\Program Files\alfresco-gateway in Windows or /usr/local/ alfresco in Linux or UNIX variants
4. Open the file *etc/gateway.properties* and customize the DMS endpoint. Change the line below to point to your installation of Alfresco. [More details here](#).

alfresco.endpoint.address=http://mdms.enstorm.com/alfresco/api (default DMS)

5. In the file *etc/gateway.properties* and add the licence key to the line.

license.secret=

6. Go to the home directory and run the gateway using the provided script. The name of the script will depend on the operating system :
 - **Start.bat** on a windows machine
 - **Start.sh** on a Linux/Unix machine

When in a Linux/Unix environment it is necessary to make the script executable by running *chmod +x filename.sh*. It is often necessary to run the executable from the directory where it resides.

7. Once the application is started go to <http://localhost:5555/test> assuming local installation. Otherwise change localhost with the host name or IP and port with the

one you set it up –see here- <http://hostname:port/test>) to check if the application is properly running.

8. To stop the application uses the provided script. The name of the script will depend on the operating system :
 - **Stop.bat** on a windows machine (and close the start.bat cmd-window)
 - **Stop.sh** on a Linux/Unix machine

Quick Installation with SharePoint

Once you have downloaded the bundle you can have the Gateway running very quickly following these steps:

1. Obtain the correct bundle for your DMS system here
<http://www.enprovia.com/products/mobile/mdms/gateway-download/index.html>
2. Contact mdms-support@enprovia.com for a [license key](#).
3. Unzip the bundle to your applications directory. For example: c:\Program Files\sharepoint-gateway in Windows or /usr/local/ sharepoint-gateway in Linux or UNIX variants
4. Because you are connecting to a local installation of SharePoint you need to configure the gateway properties. [More details here](#).

Replace the servername “testserver” at *sharepoint.server.url=testserver*

Add the licence key to the line *license.secret=*

5. Go to the home directory and run the gateway using the provided script. The name of the script will depend on the operating system :
 - **Start.bat** on a windows machine
 - **Start.sh** on a Linux/Unix machine

When in a Linux/Unix environment it is necessary to make the script executable by running *chmod +x filename.sh*. It is often necessary to run the executable from the directory where it resides.

6. Once the application is started go to <http://localhost:5555/test> assuming local installation. Otherwise change localhost with the host name or IP and port with the one you set it up –see here- <http://hostname:port/test>) to check if the application is properly running.

NOTE: by default the bundle comes with an embedded HSQL database and the Alfresco test instance provided by enprovia as default DMS (for SharePoint bundle a dummy url is provided and a correct one need to specified – see later).

7. To stop the application uses the provided script. The name of the script will depend on the operating system :
 - **Stop.bat** on a windows machine (and close the start.bat cmd-window)
 - **Stop.sh** on a Linux/Unix machine

Customizing the bundle installation

Once the bundle is up and running you can start using the mDMS application, but before opening the service to the general public some configuration is recommended.

Database Configuration

The default bundle installation of mDMS Gateway uses an embedded database. While this is a good method to have it up and running fast for reviewing or developing, it has several drawbacks:

- a. Only one user can access it at a time. This is because the data is stored on a file on disk and HSQL locks it when doing changes.
- b. When processing a large amount of data, the performance can be poor.

For these reasons it should then only be used for testing reasons.

However the mDMS Gateway has been developed to work with other databases as well. The main installation can in fact be done on top of mysql database. Follow the next steps for this:

1. Create the database. For example:

```
create database mdmsgateway character set utf8;
```

 and enable/create a user for its use
2. Configure a *DataSource* in the etc/gateway.properties to the database created above. The following properties need to be changed:
 - a. *db.url*={db url}
 - b. *db.driver.class*={db driver class}
 - c. *db.username*={db user}
 - d. *db.password*={db password}
3. Restart the *mDMS Gateway* application. It will automatically create the necessary tables if they don't exist.

Below is an example for a possible configuration on mysql:

```
db.url=jdbc:mysql://localhost:3306/ mdmsgateway
```

```
db.driver.class=com.mysql.jdbc.Driver
```

```
db.username=gatewayuser
```

```
db.password=TopSecret
```

Further Configuration

In the file *etc/gateway.properties* additional parameters can be changed to optimize the default installation.

DMS Configuration

First important parameter is the definition of the DMS endpoint, so that the gateway is able to browse and work with the specified DMS.

If the DMS is **Alfresco** the property to be set is **alfresco.endpoint.address**. It must be set to the Alfresco api url that is commonly defined as Alfresco base url + /api. For example in the test Alfresco installation the parameter is:

```
alfresco.endpoint.address=http://mdms.enstorm.com/alfresco/api
```

where <http://mdms.enstorm.com/alfresco> is the base url of alfresco home.

If the DMS is **Share Point** the property that needs to be set is **sharepoint.server.url**. It must be set to the Share Point home page url For example:

```
sharepoint.server.url=http://sharepoint.my.com
```

The **subscription.interval** property is available for all DMS and is used to specify the time interval the gateway has to check if some documents have been updated. It is expressed in seconds. Obviously a lower interval allow the user to be notified almost real-time of some documents changed but on the other side can overload the server. A good trade-off of those parameters must be considered when setting up this value.

Server Configuration

The **server.** group of configuration items are needed to change the default parameters of the embedded jetty server. They are defined in the file in *etc/gateway.properties*

server.port: port of the server, set by default to 5555

server.ssl.port: port of the SSL server, set by default to 5443. If set to 0 SSL will be not used.

server.ssl.keystore: keystore file for SSL (a default certificate is provided)

server.ssl.keystore.password: password of the keystore file

server.ssl.keystore.key.password: password of the key of the keystore file

server.stop: port needed to be able to stop the application. Needed for a listener.

server.stop.key: key needed to validate the start and stop of the application. It is used to ensure that the application is started and stopped by the same user or at least by those who knows the password.

DMS administrator

The ***subscription.admin.*** group of parameters allows defining an admin user of the DMS. This user is used to check if subscribed documents have been modified or not. It's important to note that this parameter is not mandatory. However by using it you can greatly increase performance because multiple logins are avoided.

Set the *subscription.admin.use=true* if you want to enable the functionality, to *false* in case you don't. If the functionality is activated the parameters *subscription.admin.username* and *subscription.admin.password* must be populated with an active admin user.

Licence

The mDMS need a license key in order to run properly. The license can be obtained by contacting enprovia at mdms-support@enprovia.com or via phone (see here <http://www.enprovia.com/contact.html>). Demo licenses can be provided as well.

After obtaining the license key please update the information in the file *etc/gateway.properties*. The properties *license.secret* need to be set. A detailed e-mail from enprovia will add details to the procedure, in any case be aware that the key is under your responsibility and giving it away will allow other users to consumer your resources.

Final words

enprovia® Software Engineering s.r.o. is headquartered in Bratislava, Slovakia (60km from Vienna, Austria) with a subsidiary in Donaueschingen, Germany. You find us on the net at www.enprovia.com

Our product portfolio

Our customers achieve faster results at a higher quality using our products. See: www.enprovia.com/products for more information.

enprovia® mPresence – mobile enable your ecommerce. Expand your customer base and reach out to new, potential customers with mobile commerce on iPhone, Blackberry and other smart phones. Connect to the most common ecommerce solutions “out-of-the-box”.

enprovia® mDMS – mobile enable your Document Management and Electronic Content Management Systems. Access your data anywhere, anytime. Access your core assets securely and store documents in a secure offline storage. Receive notifications when documents, meta-data and folders/matters change.

enprovia® mobile enabler – A java based middleware technology allowing you to easily add plugins and business logic to fulfill your business requirements, mobile enabling your existing business systems with no modifications.

enprovia® Annotate! – Rapidly annotate images using loadable ontology and share within teams. Perfect for e.g. architects, construction & civil engineering, aerospace engineering, health care and photography.

Our solutions portfolio

We provide full software lifecycle management to our international customers.

Portal solutions

- Intranet, Extranet, Internet, ASP, SaaS, SEO&SEM, campaign management, newsletter and bulk mailing
- Value: Ready-made templates, deploy in days not months

Mobile business solutions

- Access your data anywhere, anytime, localized and geo-targeted
- Value: Mobile enabling technology for business with existing connectors and SDK's for iPhone, BlackBerry and Microsoft Mobile. Deploy in days not months

Search, information retrieval and annotation solutions

- Find and visualize documents, images and data stored in business backend systems.
- Value: Advanced search technology, smart & easy annotation with loadable ontology support. Ready-made tools. Integration specialists

Business integration

- Reduce costs and effort in B2B integration
- Value: Ready-made components. Integration specialists

Custom specific development

- Tailor made solutions
- Value: Strong JEE, Java, .NET skills. Any team configuration (your team, inhouse/external/expertise injection, teaching). Fixed pricing possible

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