



*Deliverable Number D44.3*  
*Factsheet Number 02*  
*Mobile Delivery Module*

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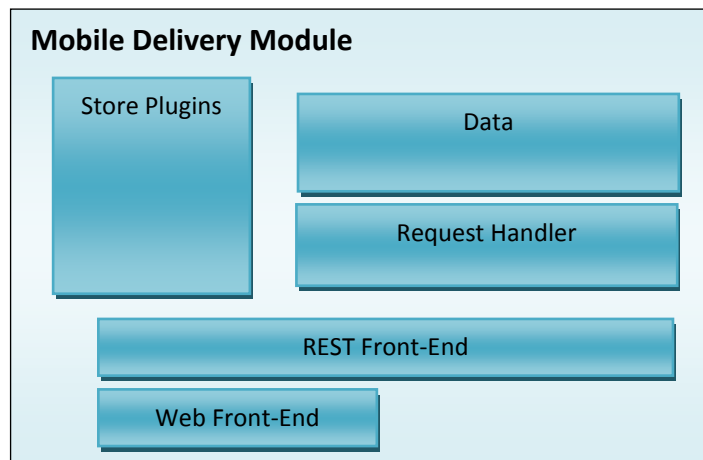
## 1 Availability and Contacts

This table describes how to reach the prototype and the contact person in case of questions.

<b>Version</b>	Final version
<b>Availability</b>	<a href="http://www.msee-ip.eu/intranet/sp4-workspace/wp44-msee-generic-mobile-business-platform/d44.3-mobile-platform-first-prototype/">http://www.msee-ip.eu/intranet/sp4-workspace/wp44-msee-generic-mobile-business-platform/d44.3-mobile-platform-first-prototype/</a>
<b>Accompanying specification and design document</b>	MSEE D44.1 – MSEE D44.3
<b>Source control</b>	<a href="http://engrep.eng.it/svn/msee/SP4/">http://engrep.eng.it/svn/msee/SP4/</a>
<b>Contact person</b>	Giovanni Casella – Softeco Sismat – giovanni.casella@softeco.it

## 2 Architecture and Functionalities

The main goal of the module is to provide a mobile interface to the discovery functionalities of the MSEE Delivery Platform Infrastructure [2]. The module also offers additional functionalities enabling the user to search on an internal store (provided only for testing/demo purposes) and on Google Play.



The previous picture shows the internal architecture of the module. End users can use the module using a mobile web browser interacting with the Web Front End component. User requests are received by the REST Front-End and managed by the Request Handler.

Finally the Store Plugins manages the interactions with the MSEE Delivery platform, Google Play and the internal store where the searches are performed. Collected results are stored by the Data component into an internal database (for subsequent accesses) and provided to the users.

The module enables to search services, web services and applications on multiple stores.

Further details can be found in the document MSEE D44.1 “Mobile business platform specification and architecture” [1].

### 3 Technical Information

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#### 3.1 Requirements

In order to use the module it is required a mobile web browser installed on a mobile device (all major OS supported like Android, iOS, etc.). For a complete list of supported operative systems/devices visit <http://jquerymobile.com/gbs/> .

#### 3.2 Technical details

Nature	Mobile Web Application
Programming Language	Java
Development Framework	Eclipse Juno
Additional libraries	Apache Axis, Apache Commons, Apache Log4J, Apache Jersey, Google Gson, JQuery, JQuery Mobile, JQuery Validation, Spring Framework, PostgreSQL JDBC Drivers.
Application Server	Apache Tomcat 7
Database	PostgreSQL 9

## 4 Licensing

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### 4.1 Service license

Proprietary licensing scheme.

### 4.2 Third party licenses

Third party software	License
Apache Axis	Apache License 2.0
Apache Commons	Apache License 2.0
Apache Jersey	CDDL 1.1
Apache Log4J	Apache License 2.0
Google Gson	Apache License 2.0
jQuery	MIT License
jQuery Mobile	MIT License
jQuery Validation	MIT License
Spring Framework	Apache License 2.0
PostgreSQL JDBC Drives	BSD

## 5 Technical Manual

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The Mobile Delivery module is provided as a standard web application archive (WAR) and the deployment/installation procedures depends by the server in which the application is deployed. The reference server where to deploy the application is Apache Tomcat 7. Detailed instructions on Tomcat 7 deployments procedures can be found at <http://tomcat.apache.org/tomcat-7.0-doc/deployer-howto.html>.

The configuration parameters of the application are contained in the file *spring-application-context.xml* in the folder WEB-INF included in the archive. The provided archive can be opened using a suitable application (i.e. WinRAR<sup>1</sup> or the *jar* tool available in the Java 7 SDK bundle) and the file can be updated before the deployment of the application.

The application uses a PostgreSQL 9 database. It is possible to create the database using the tool *pg\_dump*<sup>2</sup> and the file *db.backup* included in the distribution package.

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<sup>1</sup>

<sup>2</sup> <http://www.postgresql.org/docs/9.1/static/app-pgdump.html>

The following table includes the configuration parameters with a short explanation:

Value	Explanation	Example
<i>dbcpBasicDataSource:username</i>	Internal PostgreSQL Database username	msee_usr
<i>dbcpBasicDataSource:password</i>	Internal PostgreSQL Database password	mypwd
<i>dbcpBasicDataSource:url</i>	Internal PostgreSQL Database url	jdbc:postgresql://192.168.122.1:5432/msee_carefreemob
<i>mseeDeliveryPlatformPlugin:deliveryPlatformDiscoveryWSTUrl</i>	MSEE Delivery Platform Discovery Service endpoint	http://sesa.sti2.at:8080/discovery-webservice/service

## 6 User Manual

### 6.1 Access

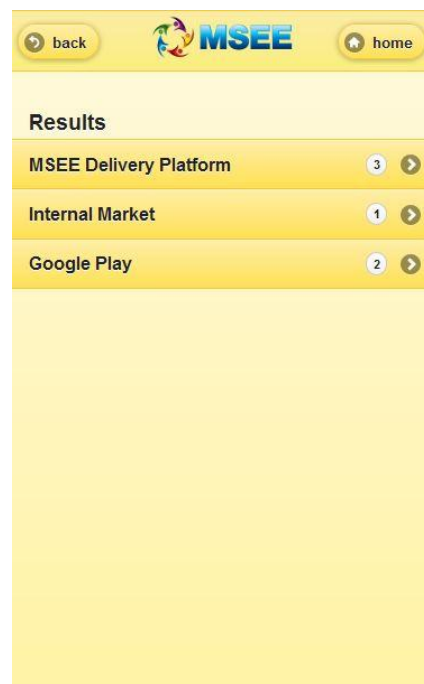
The software component is available for download at:

*<http://www.msee-ip.eu/intranet/sp4-workspace/wp44-msee-generic-mobile-business-platform/d44.3-mobile-platform-first-prototype/>*

## 6.2 User Manual

The index page of the module enables the user to select what to search (services, mobile applications, mobile web applications, web applications, web Services), where to search it (Delivery Platform, Internal Store, Google Play) and to specify a search string. The search string can be a free text or a list of properties expressed as key value couples (i.e. “manufacturer: ibarmia, model: zvcClassic45”).

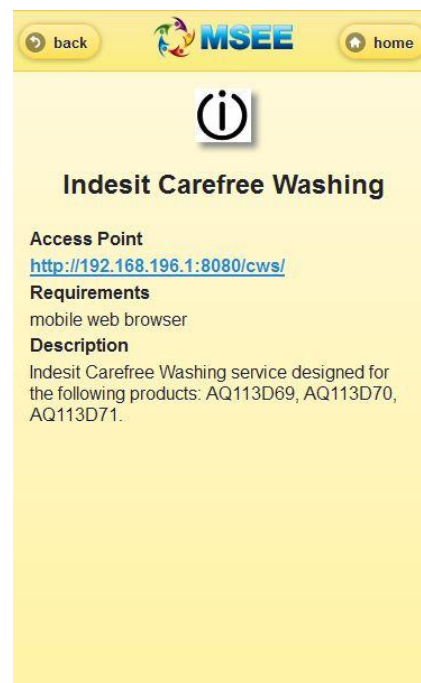
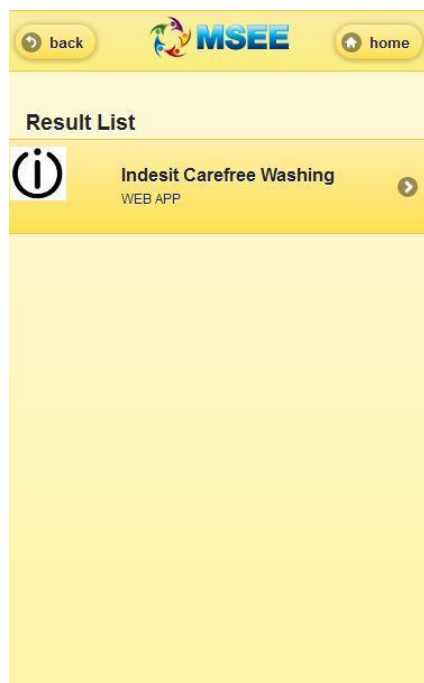
The result store list shows how many results are available for each store and includes a link to the dedicated result list page.



**Index page and result store list page.**

The result list page contains the list of results found for each store. For each result it is presented its type (i.e. web application, web service, etc.), an icon (if available) and its name.





**Result List page and Result Detail page.**

The result detail page shows the detail of a single result:

- Result Icon
- Result Name
- Access Point: how to access the item.
- Requirements: what is needed to exploit the item.
- Description

## 7 Future Plans

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The prototype will be integrated and used in the framework of the MSEE IT System [3]. Additional developments will be considered during the specification of the final prototype of the MSEE Mobile Business Platform [3].

## 8 References

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- [1] D44.1 Mobile Business Platform Specification and Architecture.
- [2] D43.1 Service Delivery Infrastructure specifications and architecture.
- [3] D44.2 Mobile Business Platform Specification and Architecture (final).
- [4] D45.1 MSEE Service-System Integrated.