

myWMS

The Open Source
Warehouse Management System



Fraunhofer Institut
Materialfluss
und Logistik

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What is myWMS?

myWMS is an open source project like LINUX. myWMS is a modular framework for the creation of Warehouse Management Systems. As in other open source projects like LINUX the source code can be used and enhanced by anyone.

myWMS was designed as a framework for WMS suppliers and offers a platform for the development of specific WMS with enough scope for non-proprietary features. myWMS can be used independent of the computer operating system and offers various interfaces and possibilities for configuration.

Why a framework?

The basic idea of myWMS is to create a customised system from standardised components. Fraunhofer IML guarantees that all interfaces are maintained. The framework consists of a kernel, a components library and a runtime environment and offers guidelines for the development of WMS.

What kind of warehouses myWMS is suited to?

myWMS is structured in layers. In addition to the warehouse management itself it also supports the material flow control. Basically, all usual warehouse technologies – from stacker operated ground block stores over automatic miniload stores up to fully automatised high-bay warehouses – can be managed with Branch-specific requirements like minimum durability, minimum storage time, joint storage prohibition or traceability can also be realised.

Where do I get support?

Fraunhofer IML helps you to adapt myWMS to your needs, assists you during the setup of myWMS and trains your staff. Furthermore, you can contact the myWMS User Group for further discussions, e.g. about upgrades or the development of special drivers or WMS applications on basis of myWMS.

You are not forced to enter long-term obligations with just one supplier. This makes your investments safe and offers you the possibility to contact third-party suppliers when your WMS supplier has to cope with personal bottlenecks.

The myWMS User Group

What is the myWMS User Group?

The myWMS User Group is an group of WMS suppliers, universities and technical colleges with the aim to exchange knowledge and to jointly develop and apply the result in pilot projects.

they may publish their company logo and a link on the myWMS project web sites.

Furthermore, they have free access to the regular meetings of the User Group and are offered better conditions for the commercial use of myWMS.

Benefits of membership

Members of the User Group have advanced access to the driver library and unpublished web sites,

How to become a member?

You may apply for a membership at any time. If you are interested please write an email to info@myWMS.de or contact Fraunhofer IML in Dortmund.

community.myWMS.de



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The WMS construction kit

myWMS consists of a kernel, a library and a runtime system. Like with a construction kit customized WMS can be built with the modules in the *myWMS* library. The correct use of plug-ins and configurations prevents that you have to cope with unnecessary data and functions. Nevertheless, customized requirements can be met.

Vertical layers

myWMS is structured in separate layers one each for the inventory management, the bin management and the management of the physical equipment. Each of these layers may occur several times and all instances of the layers can be distributed in a computer network. Owing to this flexibility complex structures can easily be built and extended as well as reorganised.

Web-based operation

myWMS is web-operated and thus its user surface is independent of the operating system. Owing to the communication via Internet or intranet – also over radio networks – *myWMS* can be operated almost anywhere. It does not require a specific hardware platform just a web browser.

Runtime environment

myWMS is supplied with an efficient runtime environment which supports, among others, the logging, the configuration and the storage of statistic raw data. Like *myWMS* these tools are also network-compatible and easily facilitate remote diagnoses and configuration changes also during runtime.

Example systems

Example systems were developed to proof the functioning of *myWMS* under real conditions as well as for endurance and throughput tests.

Pilot system at Fraunhofer IML

A small automatic warehouse system with a down-flow order-picking system runs in Fraunhofer IML's test hall to simulate the complex interaction between transporters, control and identification technology, operating staff and software under real-time conditions.

Interested take the opportunity to see how *myWMS* works in practice.

Example »Virtual high-bay warehouse«

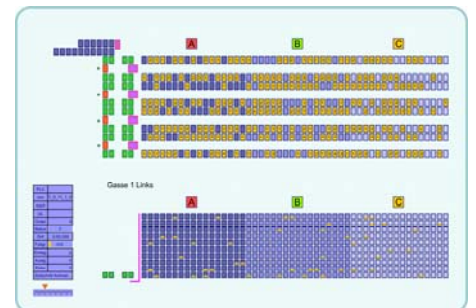
The functioning and performance of the software is tested in a virtual high-bay warehouse with four aisles. The peripheric equipment is simulated in 2D in a simulation environment which was developed especially for this purpose. This example system is used for endurance tests and performance measurements as well as to demonstrate possible *myWMS* applications.

Open Source

An open source project always requires extensive developments. The open source codes allow many developers to participate in this project and to support the improvement of *myWMS* with their expertise and the development of advanced features.

Fraunhofer IML coordinates the development projects, releases verified developments and manages and distributes the source code.

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