

User Manual myWMS

01.06.2026

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1. Installation and Start of myWMS LOS

This chapter describes the installation of the myWMS LOS Demo System.

Restrictions of the Demo-Version

The demo version offers all the basic functions and is aimed at decision makers. The database used should be replaced in production environment by a powerful database.

You can always download the latest version of myWMS LOS from our website. After finishing the download start the file **myWMS-LOS_1.X-Setup.exe**.

An installation wizard will start and guide you through the installation process.

1.1. Start of myWMS-LOS on Windows

Please note that you need administrator privileges to install myWMS LOS.



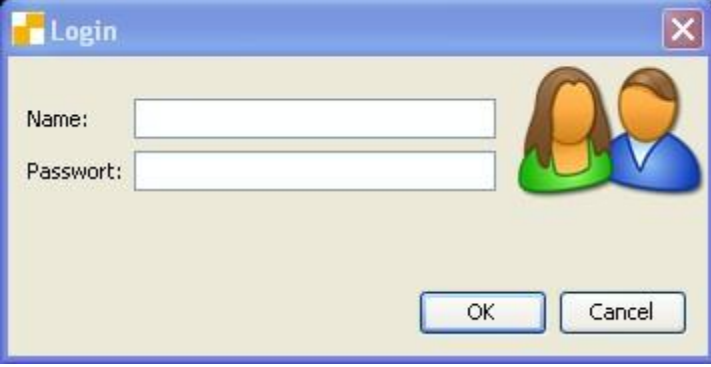
In your Windows Start->Program menu you'll find a menu group called **myWMS LOS 1.X**.

1. **Start Server** (and wait until the JBoss console shows something like "Started in 35s:78ms")
2. **Start Client**
3. **Login** as user **english** with password **english**

```

1. Start Server
n <auth-constraint> without being defined in a <security-role>
19:12:47.593 INFO [CacheManager] Selected [org.ajax4jsf.cache.LRUMapCacheFactor
yl cache factory
19:12:47.593 INFO [LRUMapCacheFactory] Creating LRUMap cache instance using par
ameters: <com.sun.faces.injectionProvider=org.jboss.web.jsf.integration.injectio
n.JBossInjectionProvider, org.richfaces.SKIN=blueSky, javax.faces.STATE_SAVING_M
ETHOD=server>
19:12:47.593 INFO [LRUMapCacheFactory] Creating LRUMap cache instance of default
capacity
19:12:47.609 INFO [CacheManager] Selected [org.ajax4jsf.cache.LRUMapCacheFactor
yl cache factory
19:12:47.609 INFO [LRUMapCacheFactory] Creating LRUMap cache instance using par
ameters: <com.sun.faces.injectionProvider=org.jboss.web.jsf.integration.injectio
n.JBossInjectionProvider, org.richfaces.SKIN=blueSky, javax.faces.STATE_SAVING_M
ETHOD=server>
19:12:47.609 INFO [LRUMapCacheFactory] Creating LRUMap cache instance of default
capacity
19:12:47.609 INFO [EARDeployer] Started J2EE application: file:/C:/Programme/my
WMS LOS 1.3/jboss/server/default/deploy/los.reference.ear/
19:12:47.671 INFO [Http11Protocol] Starting Coyote HTTP/1.1 on http-127.0.0.1-8
080
19:12:47.687 INFO [AjpProtocol] Starting Coyote AJP/1.3 on ajp-127.0.0.1-8009
19:12:47.687 INFO [Server] JBoss (MX MicroKernel) [4.2.3.GA (build: SUNTag=JBos
s_4_2_3_GA date=200807181417)] Started in 27s:156ms

```



The login dialog box has a title bar with a close button. It contains two text input fields labeled "Name:" and "Passwort:". To the right of these fields is an icon of a man and a woman. At the bottom are "OK" and "Cancel" buttons.

1.2. Installation of myWMS-LOS on Linux

Download 'myWMS-LOS_1.X.tgz' from the Download page and extract myWMS-LOS_1.X.tgz into a temporary directory. We will call it.

Requirements

- Java Sun jdk 1.6.x (For myWMS LOS version older than 1.3 you need Java Sun JDK 1.5.x)
- JBoss 4.2.3 fYMr jdk 1.6 (Hereinafter referred to as *[jboss]*)
- Cups printing system
- myWMS LOS as CD package (Hereinafter referred to as *[media]*)
- or myWMS LOS as file package

Installation Server

- If you got myWMS LOS as a file, unzip it into a temporary directory. In the following, this corresponds to *[media]*.
- Copy *[media]/deploy/los.reference.ear* in the deploy-directory of the JBoss installation *[jboss]/server/default/deploy*.
- Adjustment of th JBoss configuration:
 - There are some example configuration files in *[media]/config/*.
 - Copy *[media]/config/login-config.xml* to *[jboss]/server/default/conf/*
 - Copy *[media]/config/los.hsqldb-ds.xml* to *[jboss]/server/default/deploy/*
 - Copy *[media]/config/jms/** to *[jboss]/server/default/deploy/jms/*
- Create a database
 - Copy *[media]/config/losDB.properties* to *[jboss]/server/default/data/hypersonic/losDB.properties*
 - Copy *[media]/config/losDB.script.de* to *[jboss]/server/default/data/hypersonic/losDB.script*
- The used database is configured in *[jboss]/server/default/deploy/los.hsqldb-ds.xml*. It may be necessary to adjust this configuration.
- Start JBoss # *[jboss]/bin/run.sh*

Installation Client

- Unzip *[media]/client/los_reference.zip* into a suitable directory (*[client]*)
- Run the script *[client]/bin/los_reference*
- If your default Java installation is not Java 1.6.x (java -version), run the program with the option *-jdkhome [path to JAVA-1.6.x]*
- Log in as the user "englisch" with the password "englisch".

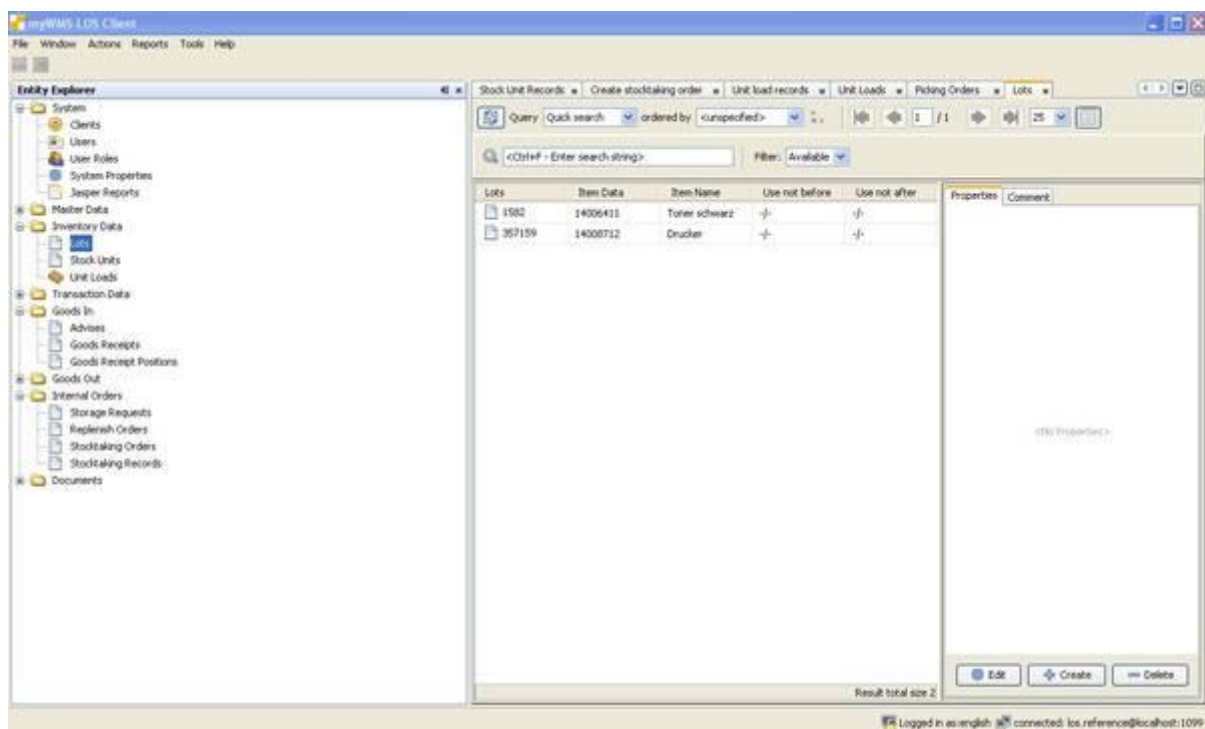
2. The Graphical User Interface

2.1. General Structure

After starting myWMS you see the following graphical user interface (GUI):

2.2. The Entity Explorer

On the left hand you will find the entity explorer which provides a fast access to the data of the myWMS. The data is summarized under a folder structure like 'Inventory Data' under which you will have access to the regarding inventory data, e.g. unit load, lot or stock unit. Make a double click on an entry and a new window appears with an overview of the data sets in the working area. Information about the individual record types can be found in the chapter data.



2.3. The Menu Bar

The menu bar consists of different menus with submenus or menu items. Find more details about the special menu item in the appropriate program description.

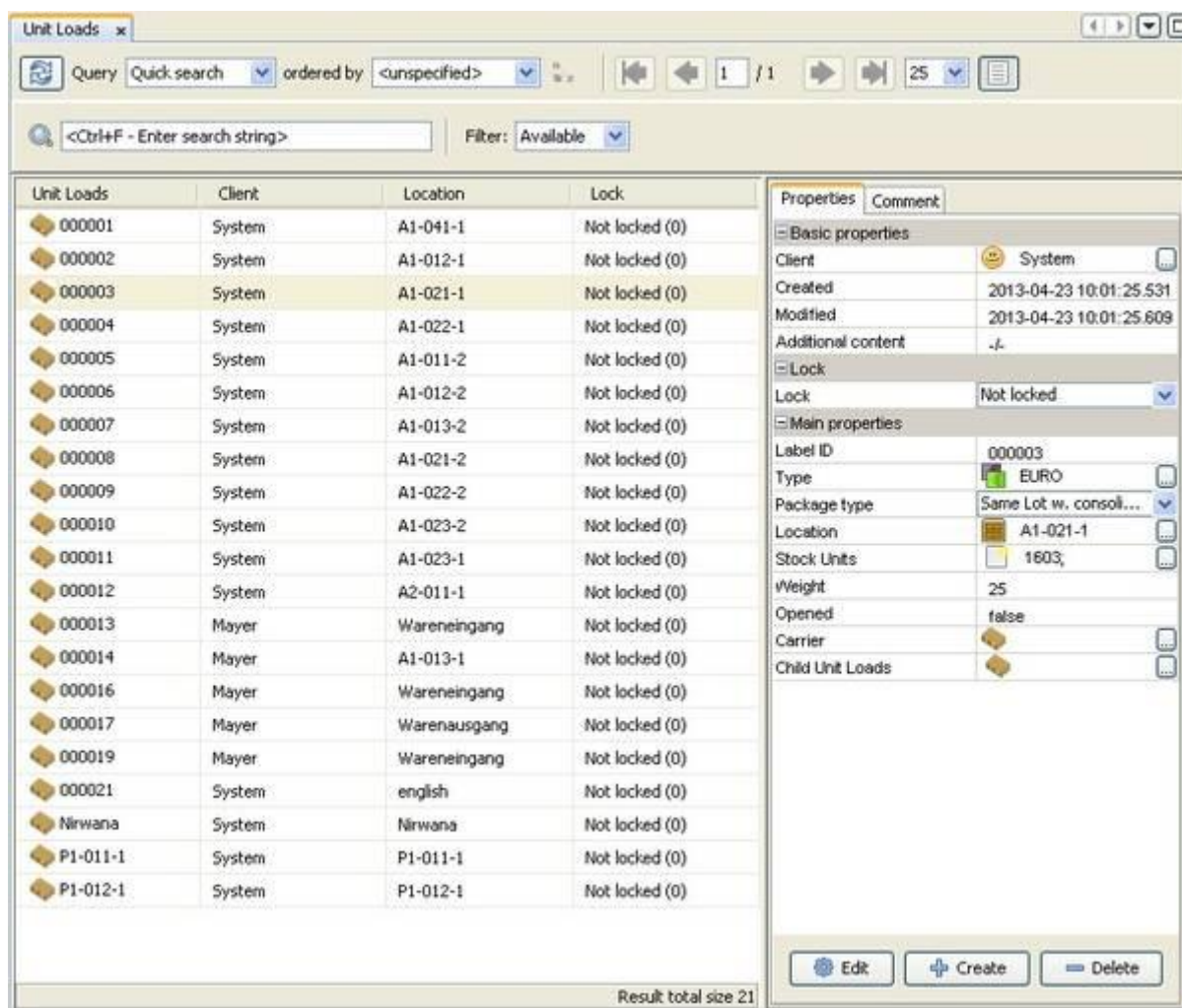
2.4. The Query Dialogue

The area in the middle of the application is called the query dialogue where you have access to manipulate data and do most of the working stuff. It contains different lists, dialogs and views. Multiple windows are shown and are separated in a tab view. Click and hold one tab to place it to the point of the screen where you want it to appear. It is possible to arrange them above or next to each other or completely separated from the application window in an own window, e.g. if you have two monitors in use.

3. Basic Techniques

3.1. Working with Lists

There are several points in the program where data is listed as a table. The following example is about unit loads and used to describe the general functionalities.



Unit Loads	Client	Location	Lock
000001	System	A1-041-1	Not locked (0)
000002	System	A1-012-1	Not locked (0)
000003	System	A1-021-1	Not locked (0)
000004	System	A1-022-1	Not locked (0)
000005	System	A1-011-2	Not locked (0)
000006	System	A1-012-2	Not locked (0)
000007	System	A1-013-2	Not locked (0)
000008	System	A1-021-2	Not locked (0)
000009	System	A1-022-2	Not locked (0)
000010	System	A1-023-2	Not locked (0)
000011	System	A1-023-1	Not locked (0)
000012	System	A2-011-1	Not locked (0)
000013	Mayer	Wareneingang	Not locked (0)
000014	Mayer	A1-013-1	Not locked (0)
000016	Mayer	Wareneingang	Not locked (0)
000017	Mayer	Wareneingang	Not locked (0)
000019	Mayer	Wareneingang	Not locked (0)
000021	System	english	Not locked (0)
Nirwana	System	Nirwana	Not locked (0)
P1-011-1	System	P1-011-1	Not locked (0)
P1-012-1	System	P1-012-1	Not locked (0)

Properties | Comment

Basic properties

Client: System

Created: 2013-04-23 10:01:25.531

Modified: 2013-04-23 10:01:25.609

Additional content: ./.

Lock: Not locked

Main properties

Label ID: 000003

Type: EURO

Package type: Same Lot w. consoli...

Location: A1-021-1

Stock Units: 1603

Weight: 25

Opened: false

Carrier:

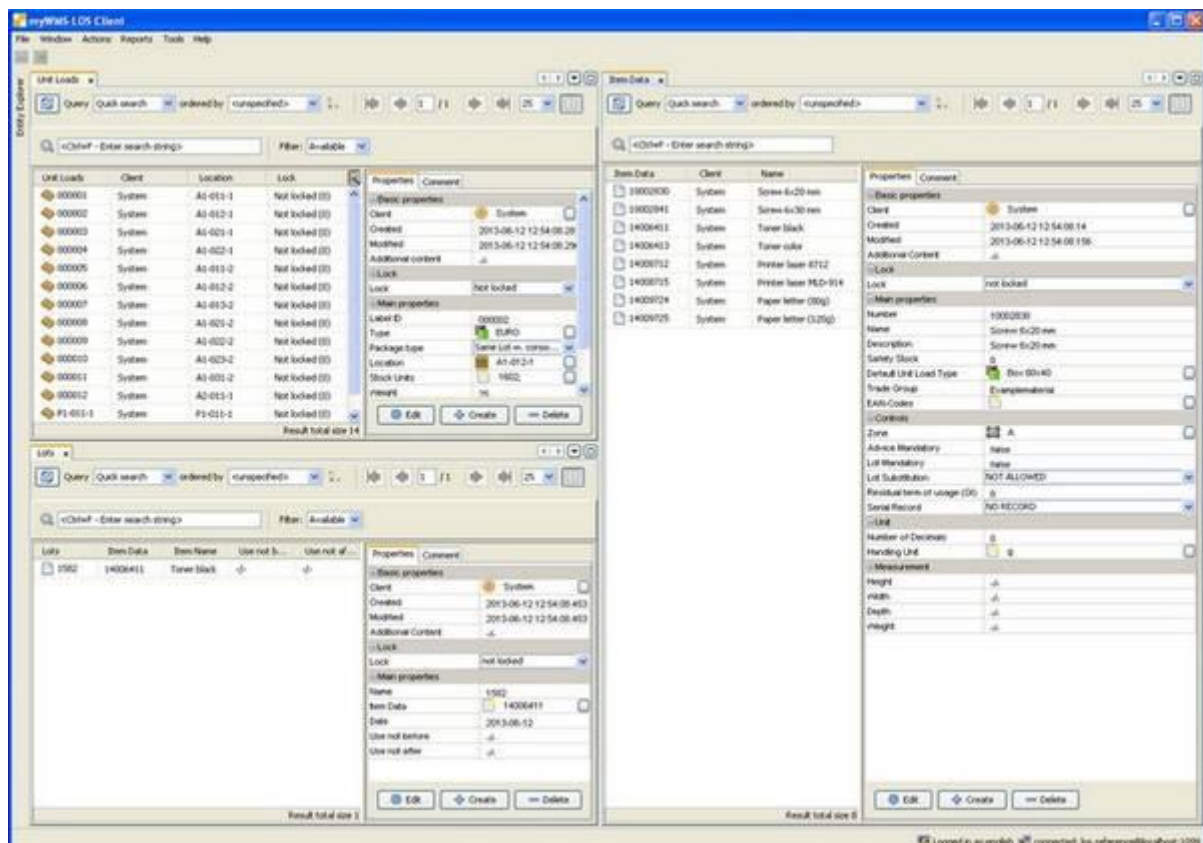
Child Unit Loads:

Edit Create Delete

Result total size 21

The table view always consists of three areas: in the middle there is the list or table itself showing any found data set. If there is one data entry selected the values are shown on the right side in the detail view area. At the top of the list is the search bar which provides the possibility to make queries and filter functionalities.

Different views and releases can be assigned in the processing to some users of the myWMS. After the registration, on the lower right side of the myWMS is announced who is registered ("Registered as") and with which network the user is connected ("Connected with").



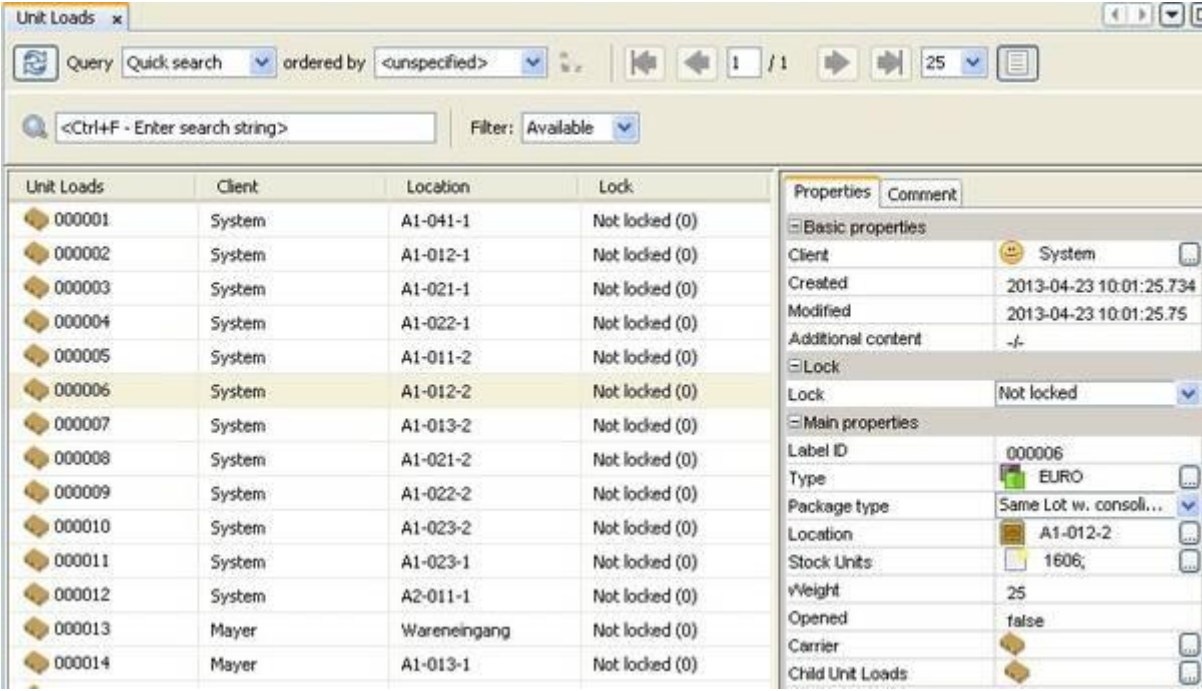
3.2. The Search Bar

The search bar allows you to specify which records you want to appear in the table area. You can specify a sorting for the records or search for data sets. On the left hand you see the button (two arrows) to update the tab. After each change, you should click this button to make sure that your view corresponds to the current storage.



A drop-down box offers the search function as a selection to look for a specific record in the table area. The standard search feature includes a 'Quick Search' field, a field to 'Search by Pattern' and a view where you can search for 'Everything'.

Selection „Quick Search“



Unit Loads	Client	Location	Lock
000001	System	A1-041-1	Not locked (0)
000002	System	A1-012-1	Not locked (0)
000003	System	A1-021-1	Not locked (0)
000004	System	A1-022-1	Not locked (0)
000005	System	A1-011-2	Not locked (0)
000006	System	A1-012-2	Not locked (0)
000007	System	A1-013-2	Not locked (0)
000008	System	A1-021-2	Not locked (0)
000009	System	A1-022-2	Not locked (0)
000010	System	A1-023-2	Not locked (0)
000011	System	A1-023-1	Not locked (0)
000012	System	A2-011-1	Not locked (0)
000013	Mayer	Wareneingang	Not locked (0)
000014	Mayer	A1-013-1	Not locked (0)

Properties	
Basic properties	
Client	System
Created	2013-04-23 10:01:25.734
Modified	2013-04-23 10:01:25.75
Additional content	-/-
Lock	
Lock	Not locked
Main properties	
Label ID	000006
Type	EURO
Package type	Same Lot w. consoli...
Location	A1-012-2
Stock Units	1606
Weight	25
Opened	false
Carrier	
Child Unit Loads	

By selection the Quick search a new bar with a text box opens below where you can enter a word or a single character you want to search for in the first column of the table area. The data sets are filtered by the conditions typed in and shown after pressing the enter key. It is possible to sort the data alphabetically after clicking in the head of the specific column. An arrow appears showing if the sorting is ascending or descending.

Selection: „Search by Pattern“

The selection Search by Pattern let a window appear in which more precise values can be entered.

Query by Template

Query by Template wizard (1 of 1)

☐ Basic properties

Client: --- [v] [😊] [...]

Created: --- [v] [...]

Modified: --- [v] [...]

Additional content: --- [v] [...]

☐ Lock

Lock: --- [v] Not locked [v]

☐ Main properties

Label ID: --- [v] [...]

Type: --- [v] [📦] [...]

Package type: --- [v] Mixed [v]

Location: --- [v] [📍] [...]

Stock Units: --- [v] [📦] [...]

Weight: --- [v] 0 [...]

Opened: --- [v] (No Property Editor) [...]

Carrier: --- [v] [🚚] [...]

Child Unit Loads: --- [v] [📦] [...]

Stock Units [?]

< Back Next > **Finish** Cancel Help

You can specify search parameters for each attribute by using a drop-down box. For example you can choose whether an value should match the expression, does not match or should be larger than or should be smaller than. Type in the expression by clicking on the three points or by selecting an item from the drop-down field. You leave the Search by Pattern view by clicking the finish-button, with clicking the cancel-button you will exit without proceeding a search order. In order to see the full data set you have to enter "all" into the choice box "Search".

Selection „All“

Unit Loads x

Query All ordered by <unspecified> 1 / 1 25

Unit Loads	Client	Location	Lock
000001	System	A1-041-1	Not locked (0)
000002	System	A1-012-1	Not locked (0)
000003	System	A1-021-1	Not locked (0)
000004	System	A1-022-1	Not locked (0)
000005	System	A1-011-2	Not locked (0)
000006	System	A1-012-2	Not locked (0)
000007	System	A1-013-2	Not locked (0)
000008	System	A1-021-2	Not locked (0)
000009	System	A1-022-2	Not locked (0)
000010	System	A1-023-2	Not locked (0)
000011	System	A1-023-1	Not locked (0)
000012	System	A2-011-1	Not locked (0)
000013	Mayer	Wareneingang	Not locked (0)
000014	Mayer	A1-013-1	Not locked (0)
000015	System	Warenausgang	Shipped (405)
000016	Mayer	Wareneingang	Not locked (0)
000017	Mayer	Warenausgang	Not locked (0)
000019	Mayer	Wareneingang	Not locked (0)
000020	System	Warenausgang	Shipped (405)
000021	System	english	Not locked (0)
Nirwana	System	Nirwana	Not locked (0)

Properties Comment

Basic properties

Client System

Created 2013-04-23 10:01:25.671

Modified 2013-06-05 11:17:33.359

Additional content -/-

Lock

Lock Not locked

Main properties

Label ID 000005

Type EURO

Package type Same Lot w. consoli...

Location A1-011-2

Stock Units 1605

Weight 25

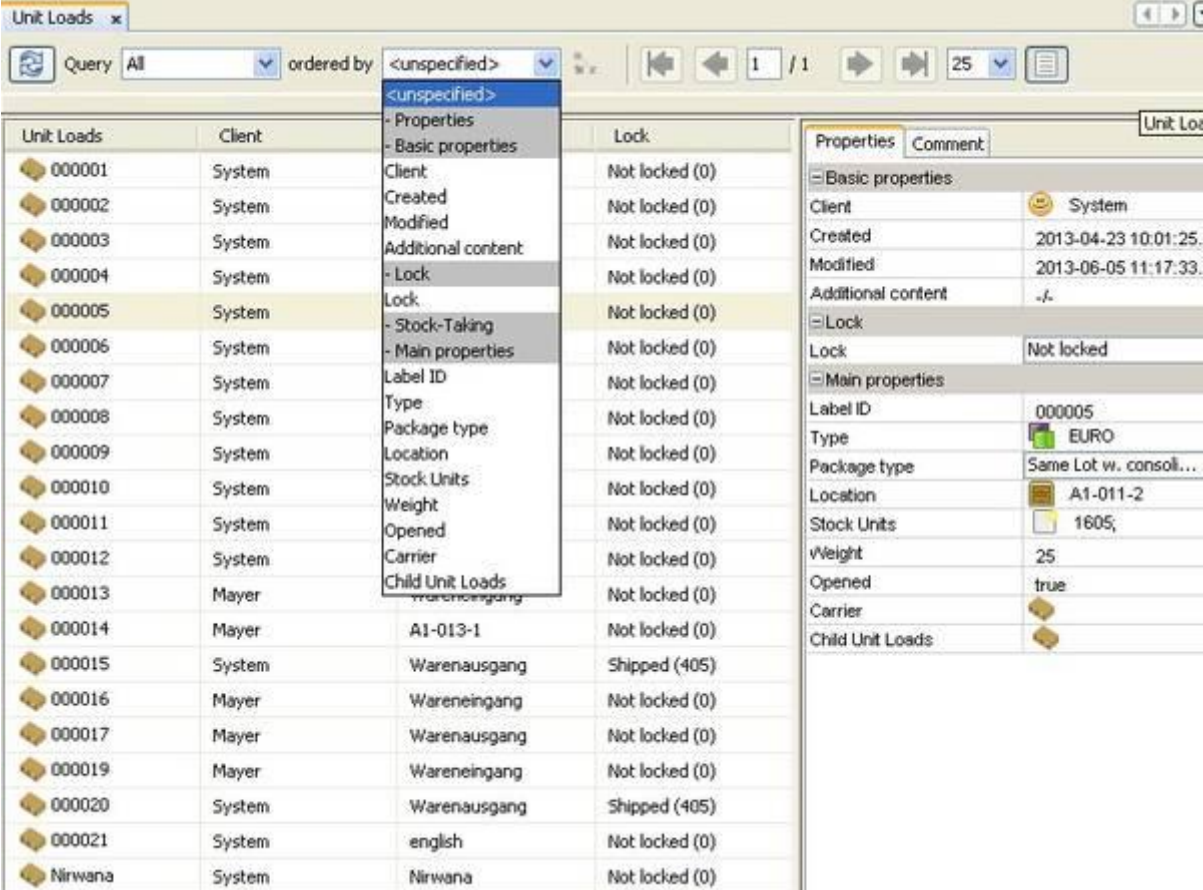
Opened true

Carrier

Child Unit Loads

To display all records again after sorting, select "All" in the search.

3.3. Sorting



The screenshot shows the 'Unit Loads' window with a table of data. A context menu is open over the table, listing various attributes for sorting. The table has columns: Unit Loads, Client, and Lock. The data rows show various unit loads with their respective clients and lock statuses.

Unit Loads	Client	Lock
000001	System	Not locked (0)
000002	System	Not locked (0)
000003	System	Not locked (0)
000004	System	Not locked (0)
000005	System	Not locked (0)
000006	System	Not locked (0)
000007	System	Not locked (0)
000008	System	Not locked (0)
000009	System	Not locked (0)
000010	System	Not locked (0)
000011	System	Not locked (0)
000012	System	Not locked (0)
000013	Mayer	Not locked (0)
000014	Mayer	Not locked (0)
000015	System	Shipped (405)
000016	Mayer	Not locked (0)
000017	Mayer	Not locked (0)
000019	Mayer	Not locked (0)
000020	System	Shipped (405)
000021	System	Not locked (0)
Nirwana	System	Not locked (0)

The choice box "Ordered by" offers a selection of methods how the data sets should be ordered. The choice box shows all attributes which can be used for sorting. By clicking on the icon "A<->Z" one can initiate an alphabetical sorting upward (A<->Z) or downward (Z>A). In the individual columns of the table area it is also possible to sort upwards and downwards by clicking on the title of the columns. An arrow indicates then if the sorting is upwards or downwards.

3.4. Paging



The screenshot shows the 'Unit Loads' window with the search bar and pagination controls. The search bar has a 'Quick search' dropdown and an 'ordered by' dropdown. The pagination controls show '1 / 1' and '25' datasets per page.

One can go through the pages of the data sets by clicking on the arrows on the right side of the search bar. It is possible to click back- and forward from page to page as well as to jump from the first to the last page. The notification shows on which side one is. For example it can show 1/3 that means that one is on the first side of three pages in total. Within the choice box one can choose how many data sets per page should be shown. The presetting arranges for showing 25 datasets per page.

3.5. The Table Area

Unit Loads	Client	Location	Lock
 000001	System	A1-041-1	Not locked (0)
 000002	System	A1-012-1	Not locked (0)
 000003	System	A1-021-1	Not locked (0)
 000004	System	A1-022-1	Not locked (0)
 000005	System	A1-011-2	Not locked (0)
 000006	System	A1-012-2	Not locked (0)
 000007	System	A1-013-2	Not locked (0)
 000008	System	A1-021-2	Not locked (0)
 000009	System	A1-022-2	Not locked (0)
 000010	System	A1-023-2	Not locked (0)
 000011	System	A1-023-1	Not locked (0)
 000012	System	A2-011-1	Not locked (0)
 000013	System	A2-011-2	Not locked (0)

In the table area all the matching data sets are listed. The data set is shown in an alphabetical order up- and downwards by clicking on the title of the second or third column. This only affects the displayed data s An arrow indicates then if the listing is executed up- or downwards. The searchbar offers search functions for the first column. In the table area below the datasets on the right side, myWMS shows how many datasets exists resulting from the searching in the search bar.

3.6. The detailed Area

The defined characteristics of the selected data set from the table area are to be find in the detailed area. The characteristics and their indication configurable in accordance with their specifications.

Groups of characteristics are summed up under a title with a coloured background. There is an icon "(+/-)" at the beginning of every title that shows the subitems with the relevant title completely (+) or with the reduced (-) one.

More detailed information of the characteristics related to the particular objects can be found in the myWMS LOS. They can be shown in a separate window after clicking on on the combination field (three points).

Properties		Comment
Basic properties		
Client	 System	...
Created	2013-04-23 10:01:25.671	
Modified	2013-06-05 11:17:33.359	
Additional content	-/-	
Lock		
Lock	Not locked	
Main properties		
Label ID	000005	
Type	 EURO	...
Package type	Same Lot w. consoli...	
Location	 A1-011-2	...
Stock Units	 1605;	...
Weight	25	
Opened	true	
Carrier		...
Child Unit Loads		...
 Edit  Create  Delete		

3.7. The Use of the Combination Fields (three Points)

The entering of a characteristic related to a dataset can be typed in in multiple ways. On the one hand the combination field offers the possibility to open a list by clicking on the three points. In this list the desired characteristic can be chosen and added by clicking on it. The window that opens after clicking on the three points shows the normal overview of all existing characteristics. Furthermore character string can be typed directly into the text box as well. With the help of a autocomplete all the characteristics are shown that contains any of the signs or character strings. By entering the space into the text box all characteristics are shown that are available for these value. In the upper part of the detailed area that has a grey background one can find describing information for every selected field. There are three buttons below: "Edit", "Create", "Cancel".

Button „Edit“

A separated window will be opened by clicking on “Edit”. This window shows the detailed area of the dataset chosen from the table area. Here all characteristics of the data set can be changed. After clicking on “Finish” the window closes and all changes are saved. “Cancel” closes the window without saving the changes.

Button „Create“

A mask opens by clicking on “Create”. In this mask it is possible to create a new data set. One can see all the characteristics that have to be indicated for the data set in question. Those can be entered with the help of the combination field (three points) just like in the detailed section. The combi boxes can be used (three points) in order to choose the desired object originating from a list with all objects that belong to the listing related to this selection.

Schaltfläche „Löschen“

By clicking on the “Delete” you can delete the selected dataset in the table section. myWMS asks bevor the final commitment whether the system should really delete the dataset or not.

“OK” deletes the dataset finally. The button “Cancel” stops the procedure without cancellation of the dataset.

4. Configuration

4.1. System Parameters

The behavior of the layout can be customized by system parameters.

The following system parameters are defined.

NBCLIENT_RESTORE_TABS: Opened tabs will be restored the next time the program is started.

NBCLIENT_SELECTION_ON_START: Dialogues of the entity explorer, select data automatically at startup.

NBCLIENT_SELECTION_UNLIMITED: Allow unlimited selection.

NBCLIENT_VERSION_MATCHER: Regular expression for version control of rich clients, eg “*.” All versions.

4.2. Setting up the Network Parameters

The setting of network parameter takes place in the ‘jndi.properties’ file.

You can find this file in the unzipped zip distribution of the rich client application. It is located in the directory `los_reference/los_reference/config/settings/`.

In a customized rich client application replace ‘los_reference’ with the appropriate project name.

In the file, the access to the server application is set on the entry ‘java.naming.provider.url’.

For a local installation, the entry is:
`java.naming.provider.url = localhost: 1099`

Caution! The server name must be resolvable on the network. It can not only work with IP addresses. The JBoss RMI connection checks the name resolution and allows access only if this can be carried out successfully.

In a pinch, the host name can be set statically in the hosts file.

When working with NAT is a corresponding configuration of JBoss is necessary.

5. Records

5.1. Basic Qualities of all Records

Every record contains the following basic qualities regardless of his kind:

Created: The date on which a new data record was generated.

Modified: The date of the last change of the record

Beyond this, most records contain the qualities

Client: The client to whom this record is assigned.

Lock: The value 0 means no barrier, values greater 0 locks the record.

5.2. Clients

Most records in myWMS are assigned to a client. On installation a system client was generated. He represents the operator of the store. To him typically Employee and company means are assigned. A more detailed description, you will find in the chapter 'Master Data'.

5.3. Data Import

For certain data sets it is possible to import them from files. It is storage locations and item data. A more detailed description, you will find in the chapter 'Master Data'.

6. Master Data

Before myWMS LOS can be taken fully into operation, it must be provided with appropriate master data. This master data is the basis for the procedures. They may only be modified by users with the role 'Admin'. For the data input and maintenance the customer is responsible and he adaptes it to his individual requirements.

6.1. Setting up Master Data

To set up the master data please go one by one. Between the various master data there are dependencies that have to be observed and entered. First read in this document about what is required. Then, define master data in the given order.

6.2. Program Master Data

6.2.1. Roles

The permissions in myWMS LOS are granted by a role based concept.

In this concept, a role has designated permissions.

A user has one or more roles. He inherits the permissions of the roles.

The following table shows an overview over the predefined roles of myWMS LOS.

Name of role	Assigned to	Permissions
Admin	System Administrator	All
Inventory	Advisor	Perform stock changing operations
Operator	Store Operator	Goods in / Goods out / Transportation
Foreman	Store Foreman	Advanced permissions in operative business
Clearing		Handle clearing events

Special dialog permissions Admin

Entity explorer

CRUD operations directly on the selectes entities **Edit**, **Create** and **Delete** in detail-area of the dialog.

6.2.2. Clients

The functionality of the client is implemented for the purpose of 'One warehouse with one responsible operator and some large customers'.

The system client (operator) has all permissions. He is able to work unrestricted with the data of all clients.

A major customer (client) is only permitted to work with his 'own' data. The data of other clients/customers is not visible to him.

The private data of a client is for example material, storage locations, stocks and orders.

There is also non-client related master data. These are general master data of the warehouse.

These data is available to all clients, but can only be maintained by the system client.

The client control can be used in different ways:

- a. Only one (system) client.
This eliminates the functionality of client control. But the overhead is eliminated too.
- b. More than one client, all users are assigned to the system client.
It is possible to distinguish between the material and stocks of the clients. The handling of all processes can be done by every user.
With the optional definition of client-assigned storage locations, it is possible to distinguish the physical storage of the materials.
- c. More than one client and client-assigned users.
Not only the materials and stocks are distinguished. The handling processes are distinguished too. The simple client is only permitted to handle 'his own' processes and data.
This option is useful, if i.e. a major customer should have a direct insight into the system. But he should not have access to the data of other customers.
Hybrids with option b) are possible.

Detailed description of the fields:

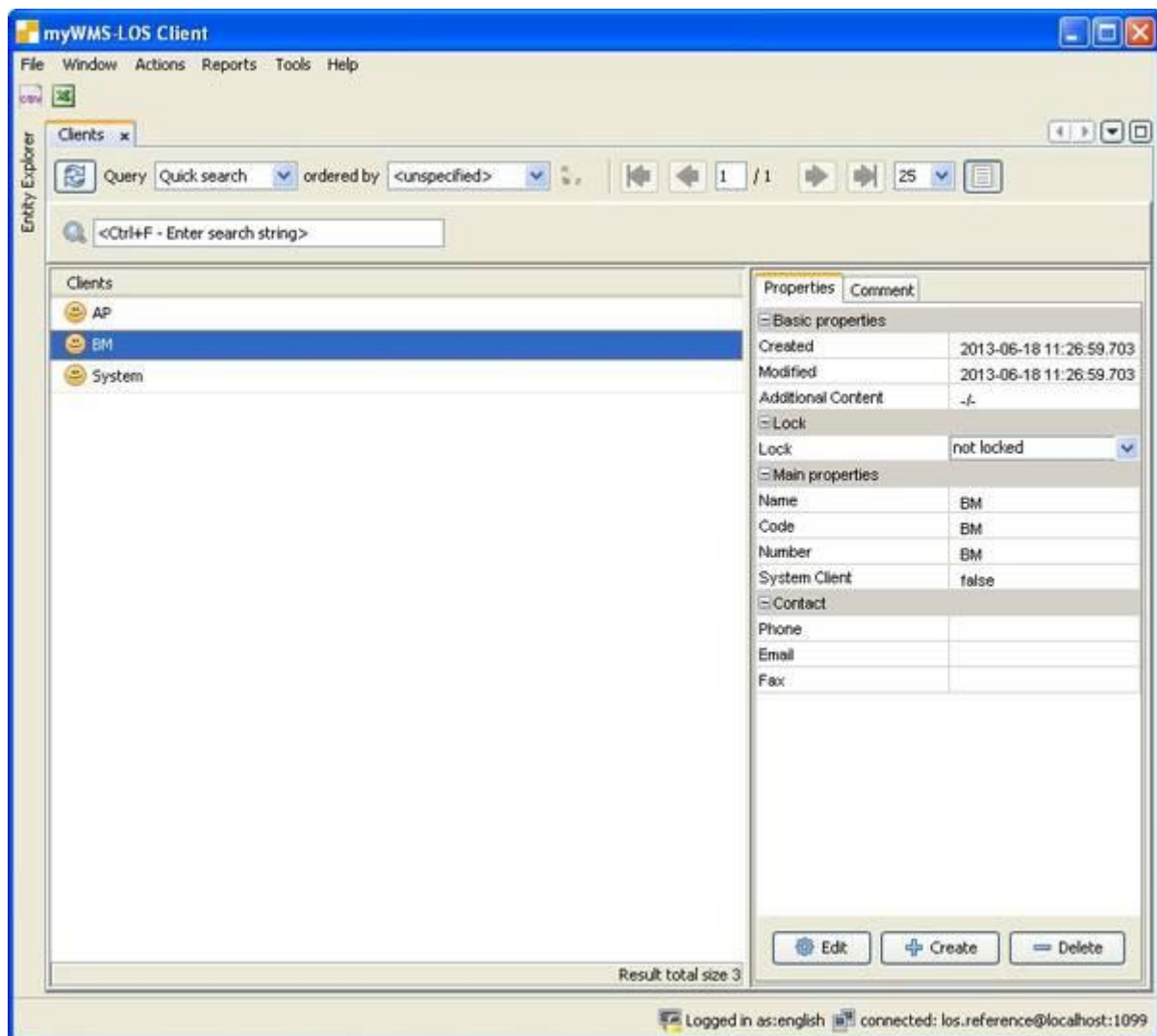
Name: Name of the client.

ID: ID of the client.

Number: Number of clients. This field is displayed in the dependent data sets.

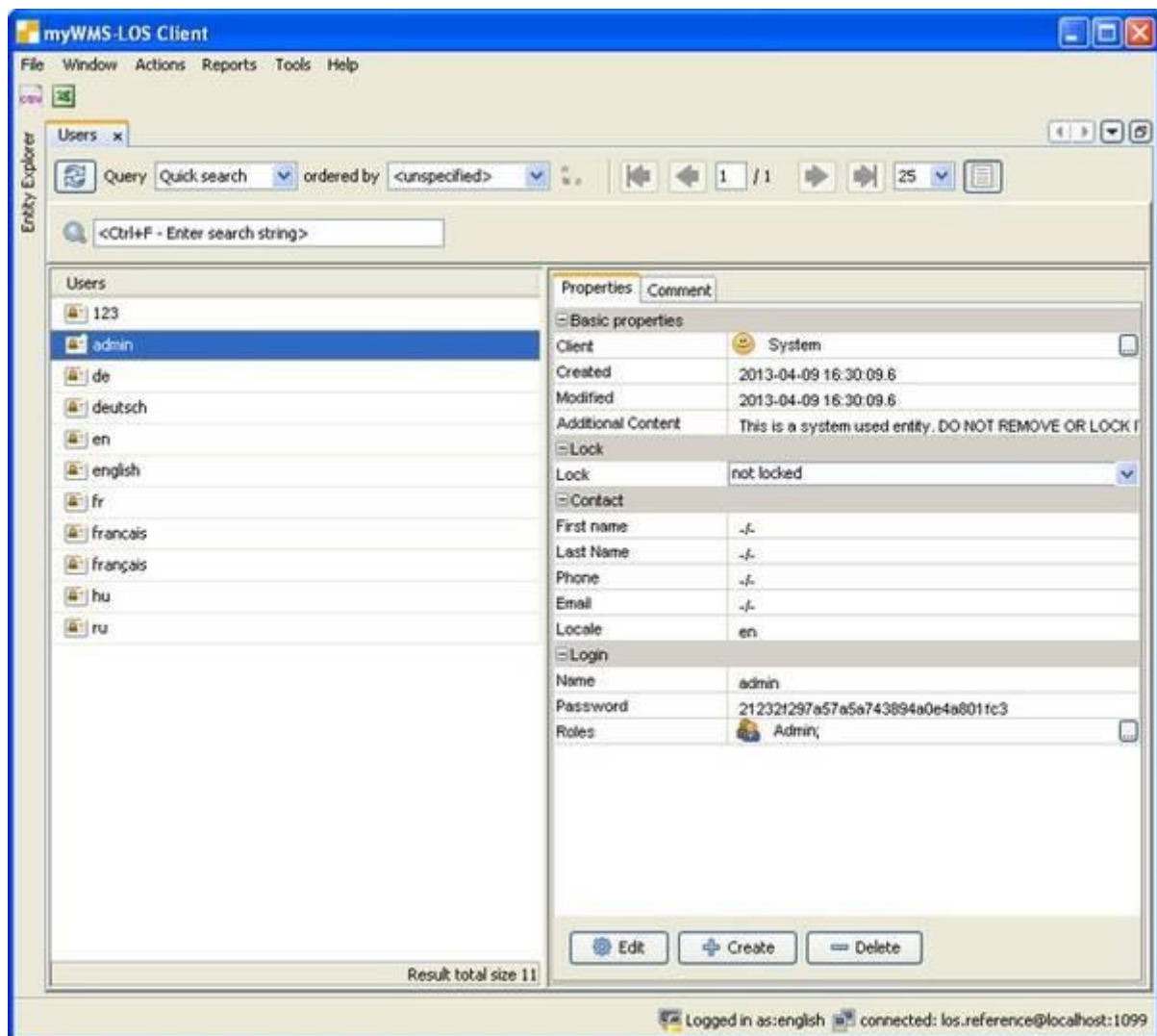
System Client: This flag is set to true for the 'owner' of the warehouse.

Telephone, email, fax: address of the client. Just for info.



6.2.3. User

myWMS LOS is handling system access with an user account. In order to access the data of the system or launch any actions, an identification is necessary. Currently, the authentication with user name and password is provided. By assigning a user to a client access permissions (see client) are controlled.



Detailed description of the fields:

First name, last name, **phone**, **email**: address of the user. Just for info.

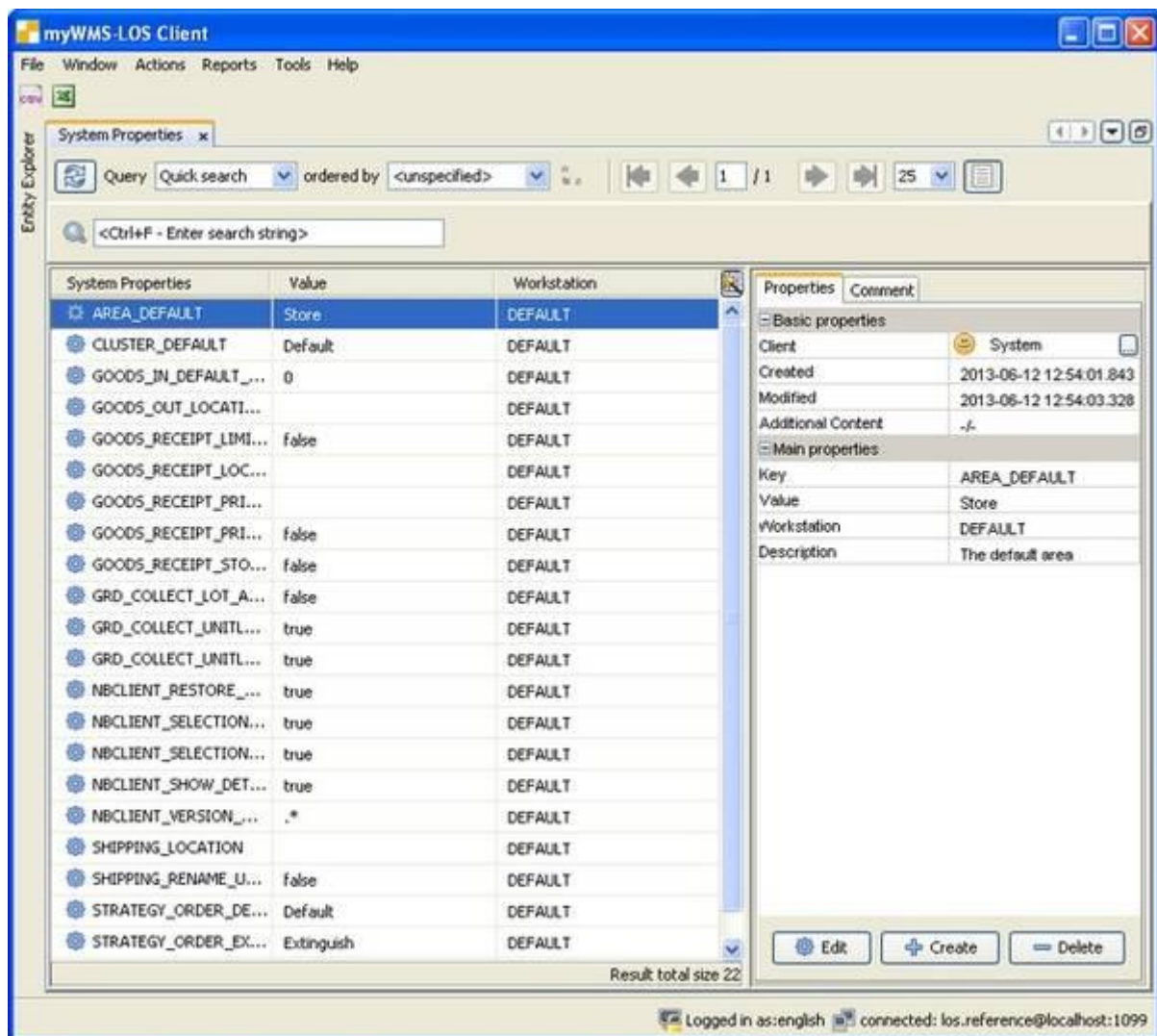
Locale: language code used in the presentation of the program interface.

Name: The login name. This value is entered to log into the system.

Password: The password of the user. It is shown encrypted in MD5 in this view. When editing the password is entered in plain text and automatically encrypted when saved.

6.2.4. System Properties

With the system properties, certain features of myWMS LOS can be configured. System properties are client- and workstation related. That means that a property can be set separately for a client or for a workstation. E.g. the default value for the goods receipt location is stored in a system property. So at the terminal on ramp 1 this gate is shown, whilst on the terminal at ramp 2 the other gate is shown.



6.2.5. Jasper Reports

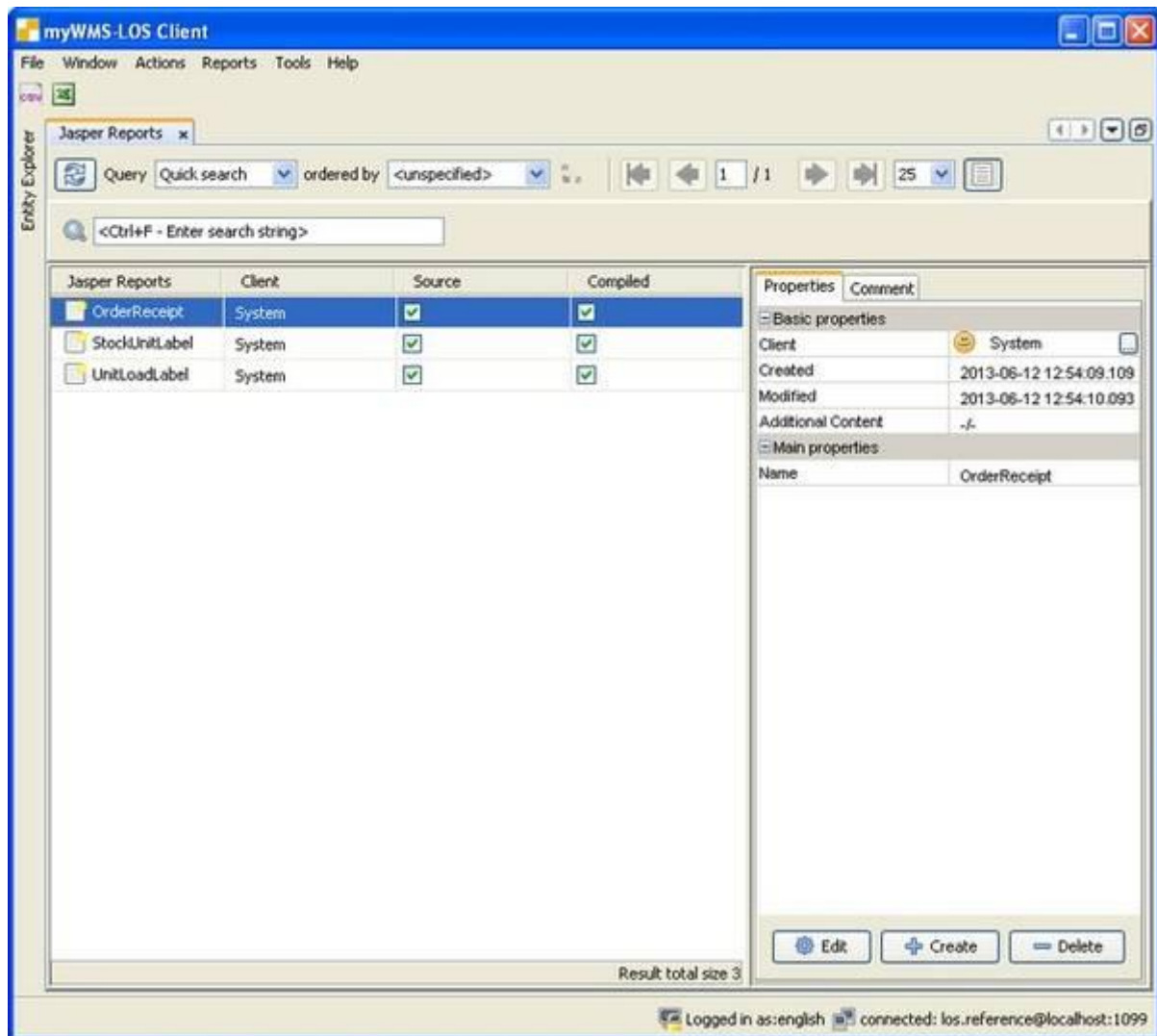
As a standard tool for creating reports myWMS LOS uses Jasper Reports. The forms or layouts required for the generation of a report are created in the database.

The reports are client-dependent. e.g. for each client his own layout can be deposited. For each layout must also exist an entry for the system client. This is used as default if no client specific layout is stored.

The reports can be read as XML files (Jasper Reports JRXML). During runtime these are compiled once and stored in compiled form in the database. When calling the individual reports no new compile is necessary.

Note! The report definition depends on the used version of Jasper Reports. As a compiler 'Java' must be given. Sub-reports, or other methods that cause an ambiguous layout are not supported.

The dialog shows the available reports.



7. Store Master Data

7.1. Zones

With zones special requirements of storage are modelled. The zone references both the storage location and the material. When searching for a location during storage process this assignment is taken into account. Only a location in the appropriate zone will be proposed.

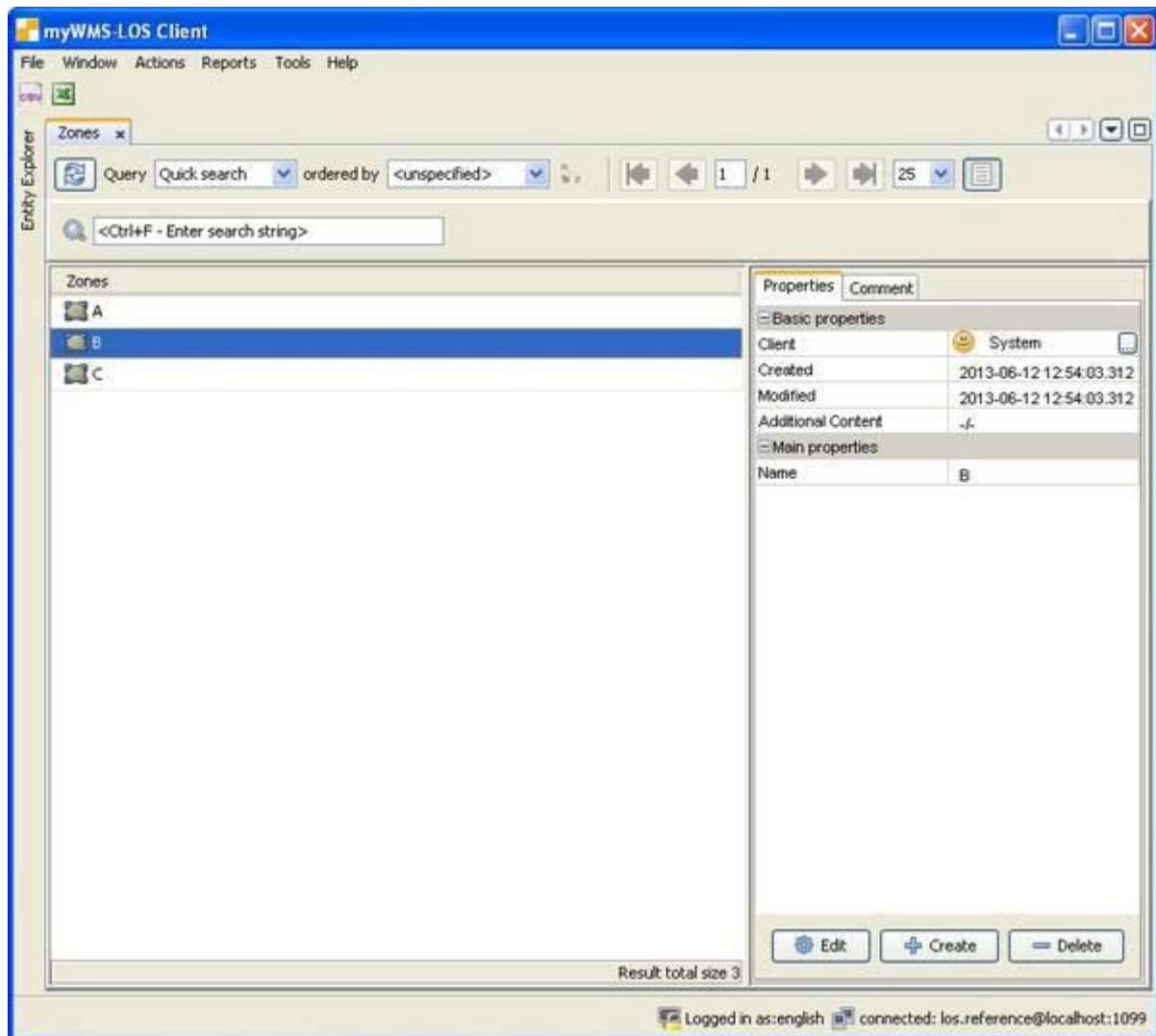
This classification can be used for example for:

- ABC classification
- Dangerous goods
- Cooled products

Example:

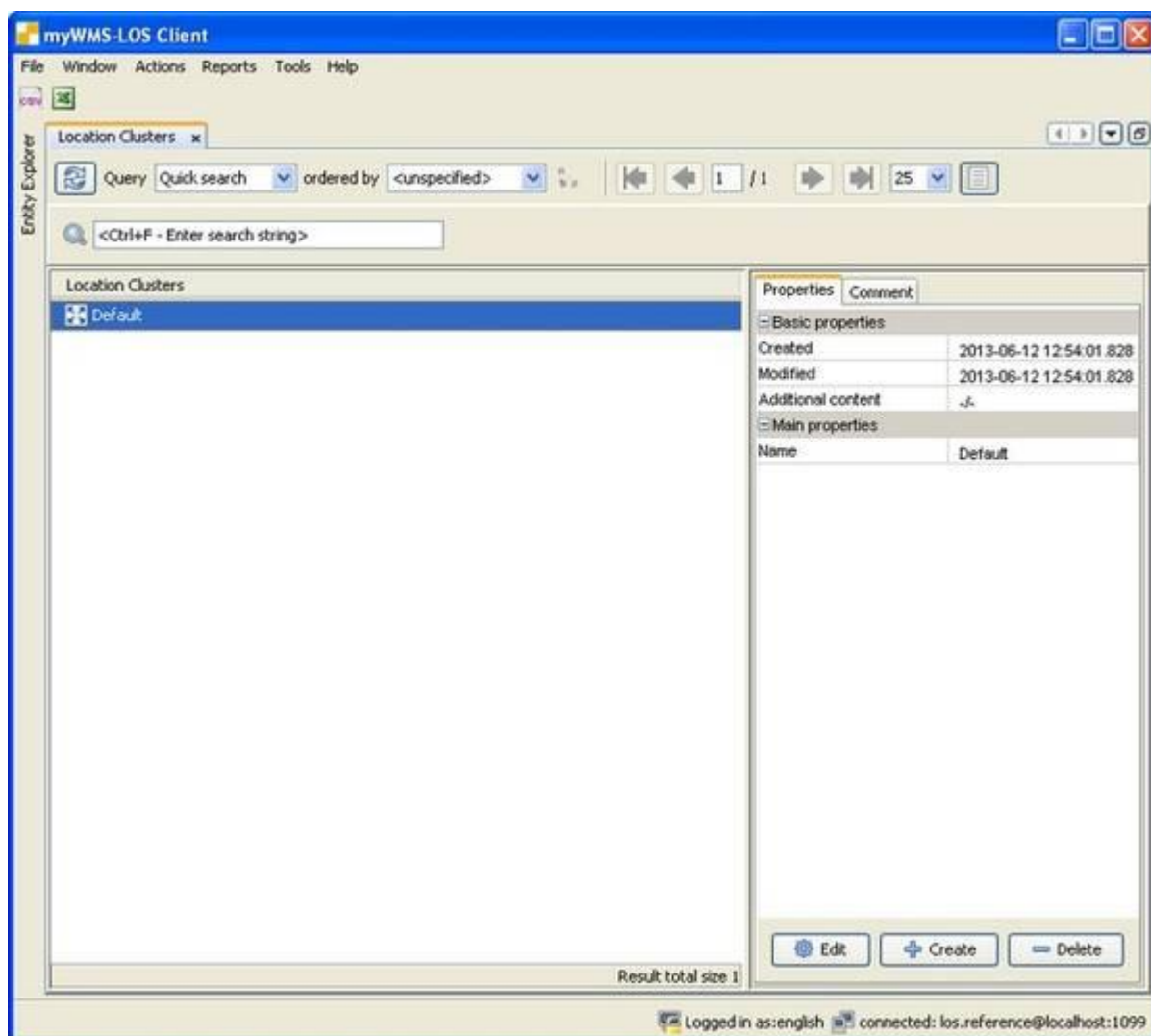
The store is divided into A-B-and C-zone.

First define the zones. You can then assign these zones to location master data and item data on setup or provide the zones with the import files.



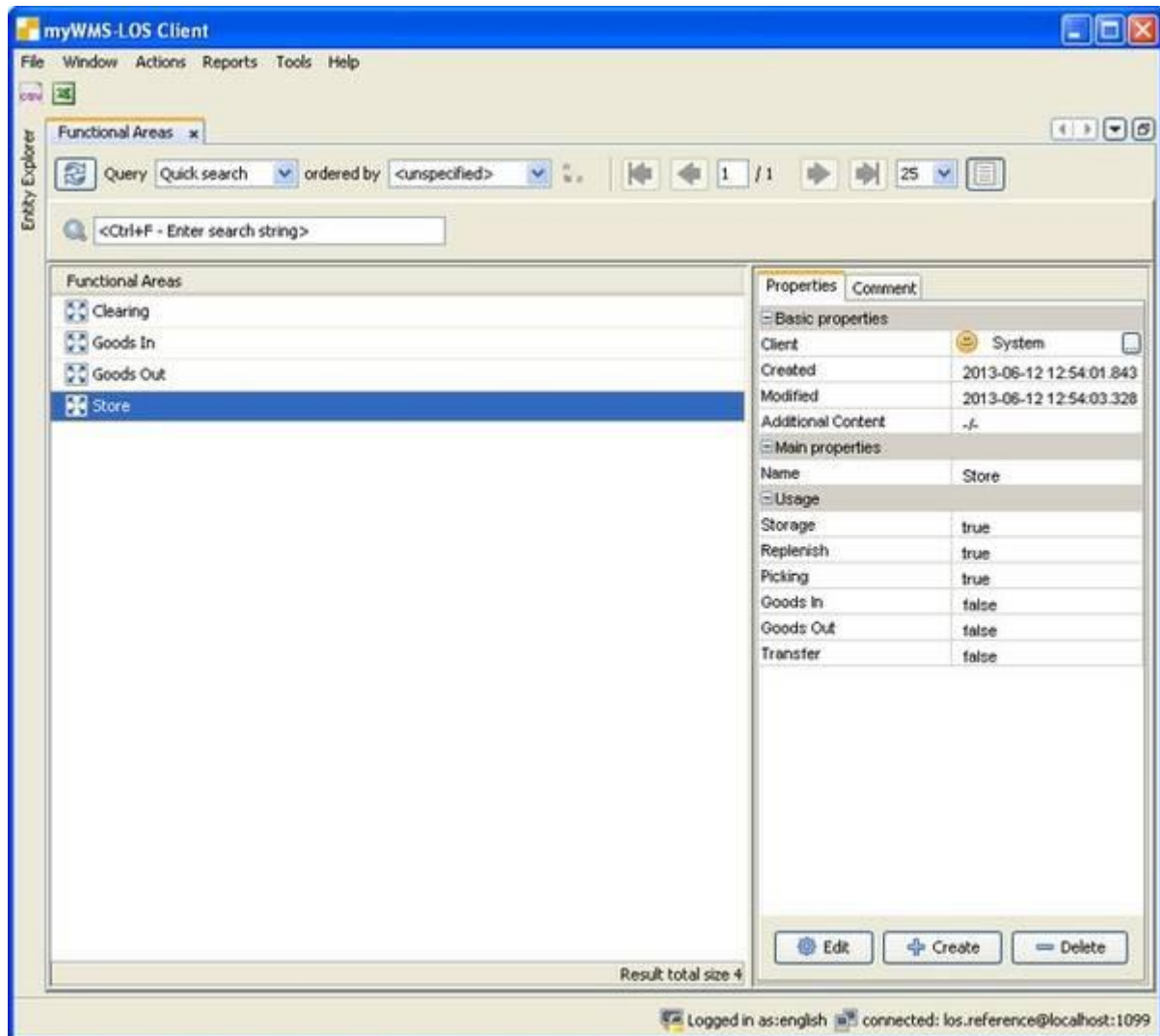
7.2. Location Clusters

Location cluster help in the spatial organization of the storage. It combines storage places with the same (spatial) properties. In the work areas then will be directed only to the location cluster.



7.3. Functional Areas

The predefined functional areas form a logical layout of the warehouse. Each storage location must be assigned to a functional area.



Detailed description of the fields:

Name: A unique identifier.

Stock: Complete unit loads can be stored and rearranged.

Replenish: The material is available for replenishment.

Picking: The material is made available for the picking.

Goods in: Use for goods in.

Goods out: Use for goods out.

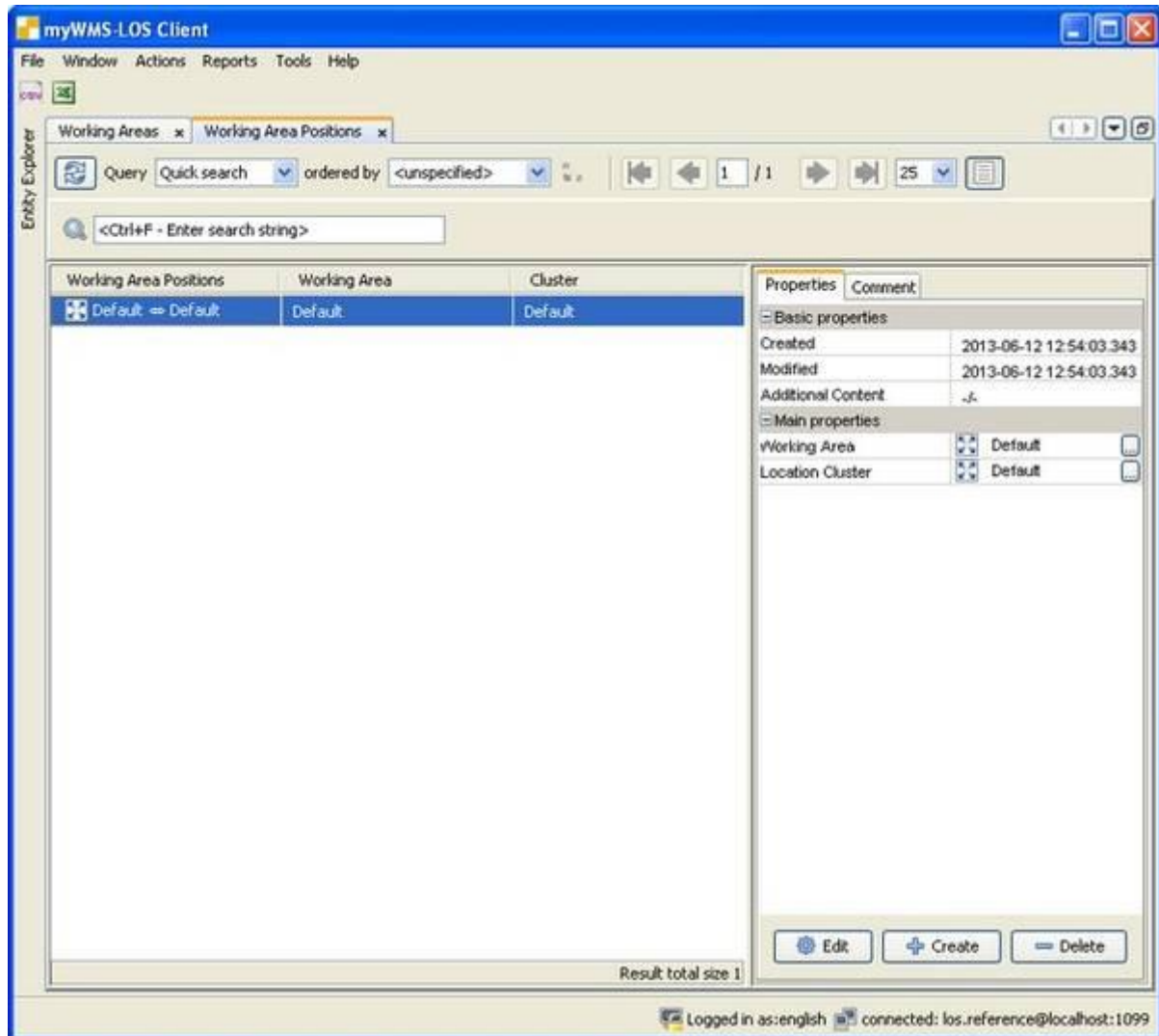
Transfer: transfer locations

7.4. Working Areas + Positions

The working areas determine where myWMS LOS automatically searches for assignable orders. E.g. orders in a forklift control system. To each working area belongs a list of storage groups.

Dispatchable orders must be based on storage areas with the respective groups. Since the working areas are based on the storage groups, all storage areas must be assigned to groups. Orders that

refer to places without storage group can not be processed.

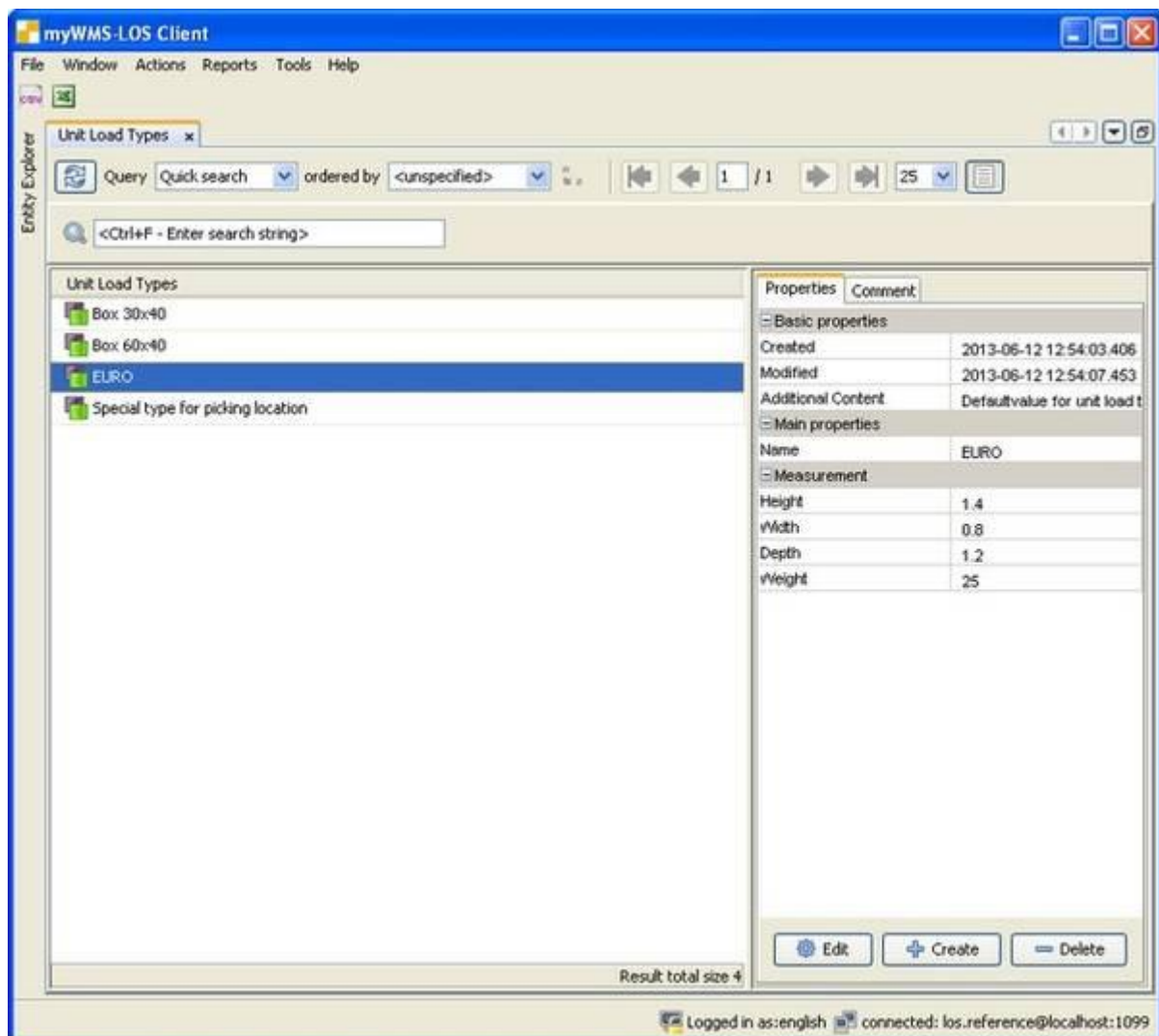


7.5. Unit Load Types

Each unit load is assigned to a unit load type. The unit load type describes the general characteristics of the unit load, such as dimensions or weight.

These types are used to e.g. control the occupancy of storage locations.

Please be cautious with the definition of various types. There are limitations, for example that only identical types may be stored on a storage location. Are there too many different types defined, the storage locations cannot be used optimally.



Detailed description of the fields:

Name: A unique key.

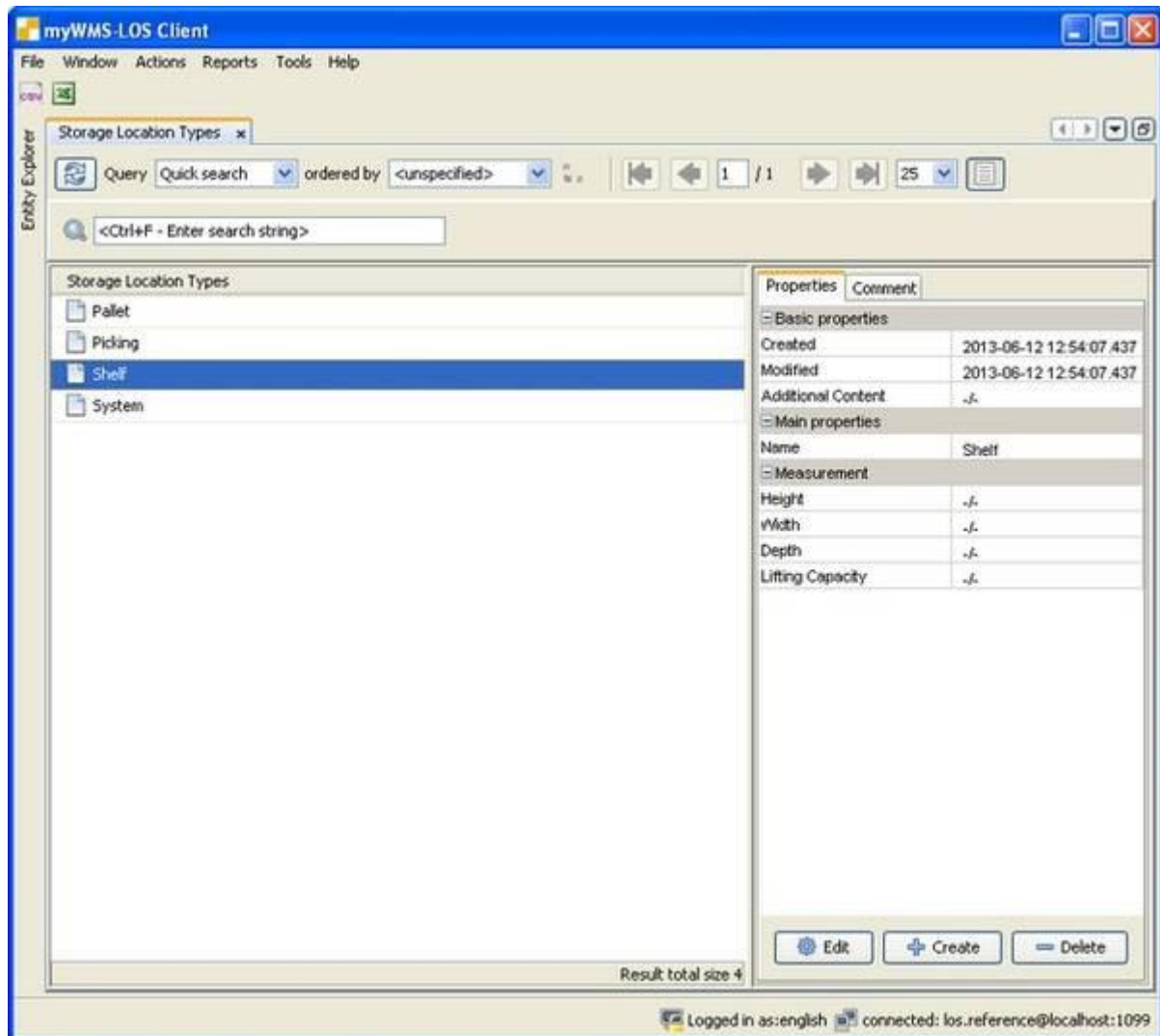
Height, width, depth: Dimensions. Just for info.

Weight: The weight of the unit load.

7.6. Storage Location Types

Each storage location is assigned to a storage location type. The storage location type describe the different physical storage locations.

By the type the strategies determine how the storage location is occupied.



Detailed description of the fields:

Name: A unique key.

Height, width, depth: Dimensions. Just for info.

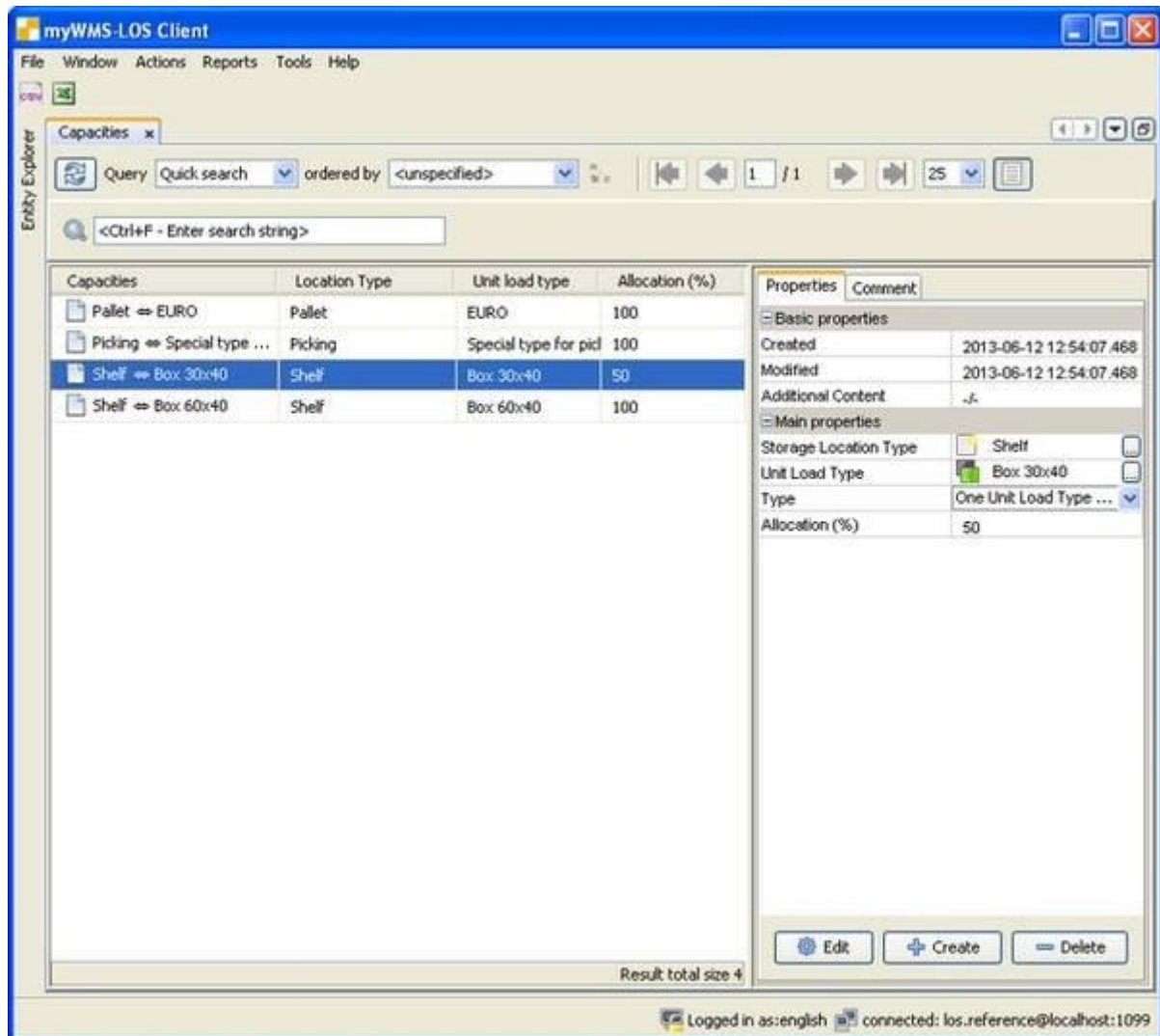
Lifting Capacity: The maximum allowable weight.

7.7. Capacities

Capacity constraints are rules that control the allocation of the storage locations. For this, the unit load type is set in conjunction with the location type.

In the dialog, you give rules, how much percentage one unit loads of a certain type allocates a storage location of a certain type.

If there are no constraints on a storage location, all unit loads are allowed to be put on this location. This is used to handle system locations or handover locations.



Detailed description of the fields:

Type of storage locations: A unique key.

Type of unit load: the dimensions. Just for info.

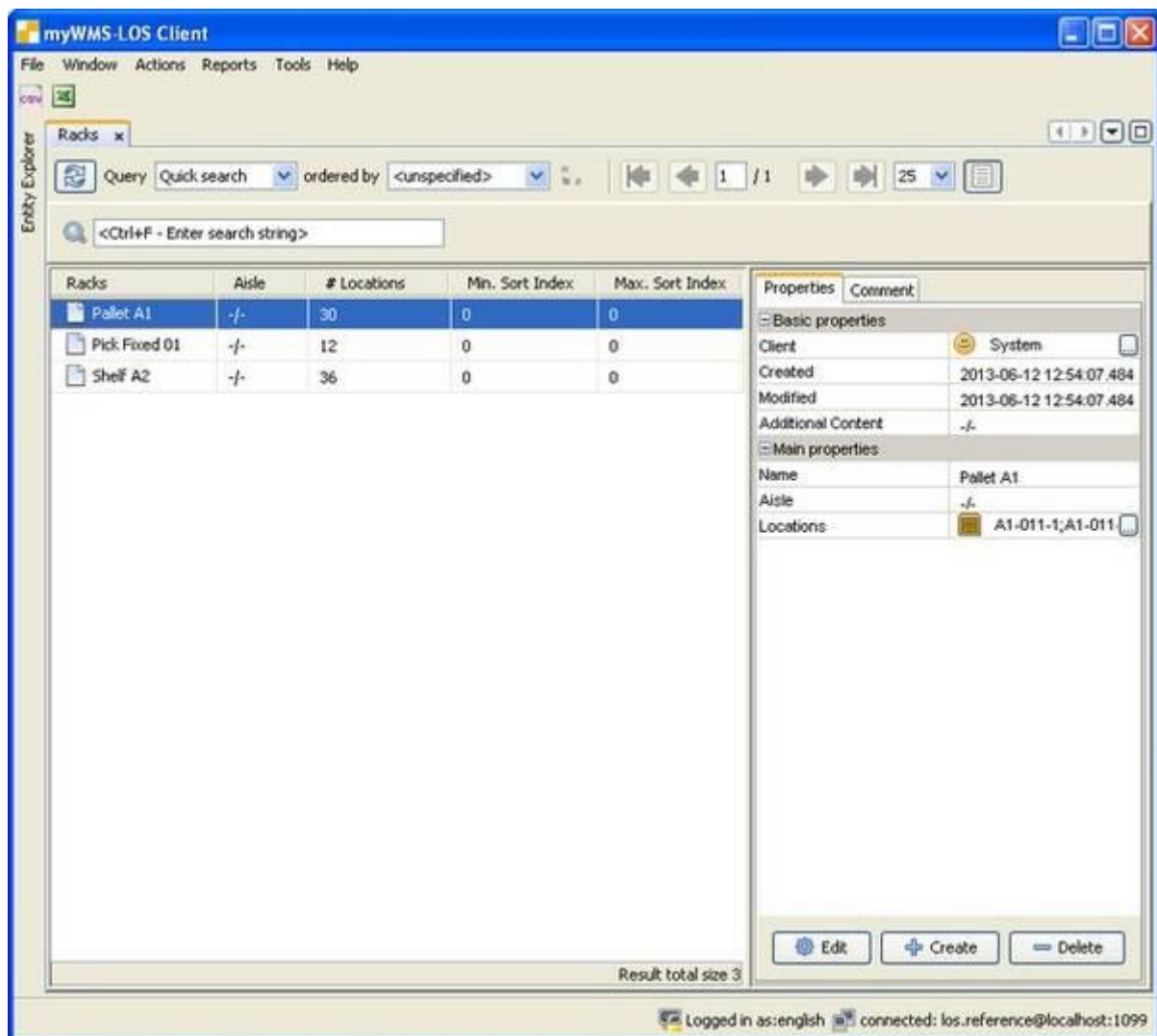
Type: The method for storage location allocation

- One unit load type. On the storage location only one type of unit loads is allowed
- Mixed unit load types. On the storage location various types of unit loads are allowed

Allocation: Percentage. Proportion of the storage location which is occupied by a unit load.

7.8. Racks

Through the mast data racks and aisles storage locations are grouped.



Detailed description of the fields:

Name: A unique identifier.

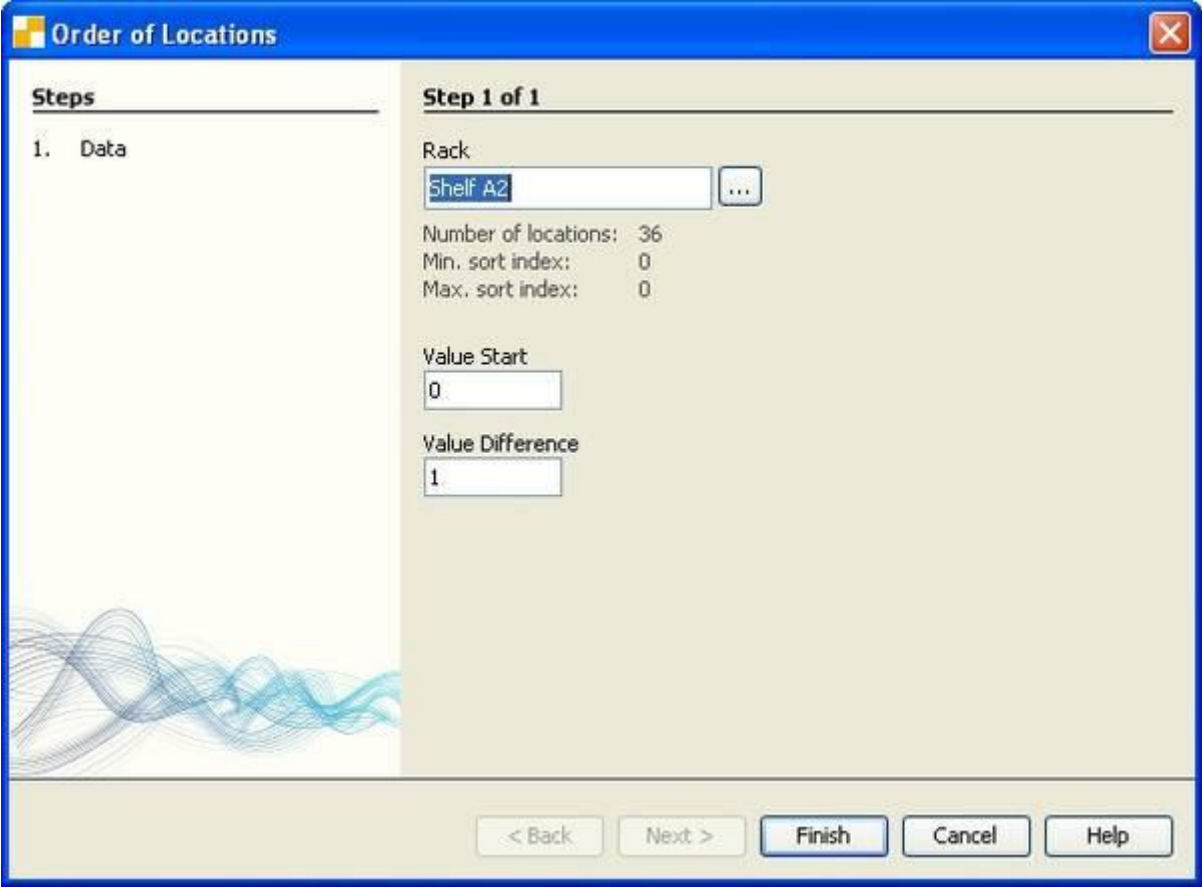
Aisle: The identifier of the aisles, where the rack is located

Description of functions:

Sorting storage locations: With this function, the picking sequence of the storage locations of the shelf are recalculated. The picking order bases on the sorting index of the storage location. This index is rewritten with this dialogue. Starting from an initial value the storage locations get a new sorting index depending on their X, Y and Z coordinates.

With this method different walks can be given for one aisle. E.g. on the one side and back the other, or both sides simultaneously.

Various courses can be synchronised by the start value.



7.9. Storage Locations

In this dialog, all storage locations of the warehouse are defined.

Before starting with the definition of storage location, it is useful to think about the labels.

The manually or via forklift operated warehouse consists of shelves that are typically backside joined together. Each shelf is accessible from a lane that branches off from the center aisle. Each shelf is made of storage compartments in the horizontal and vertical directions. The area between two shelf uprights is known as the field. All storage locations have certain dimensions and are for the single depth intake of unit loads (eg Euro pallets) designed.

On the traverses per each storage location a label is placed, on which the storage location name is encoded as a bar code and in plain text and possibly a check digit.

The name of the storage location should be easy to recognize visually. It has to be entered or scanned to identify the location. If it is scanned per barcode, the code should be as compact as possible.

Another issue is the sorting of the picking orders. They are sorted by the location names! Should picking use simultaneously locations on the left and right, the naming must be different than if first all left and then all right locations are used.

A logically clear and easily recognizable subdivision is important in any case.

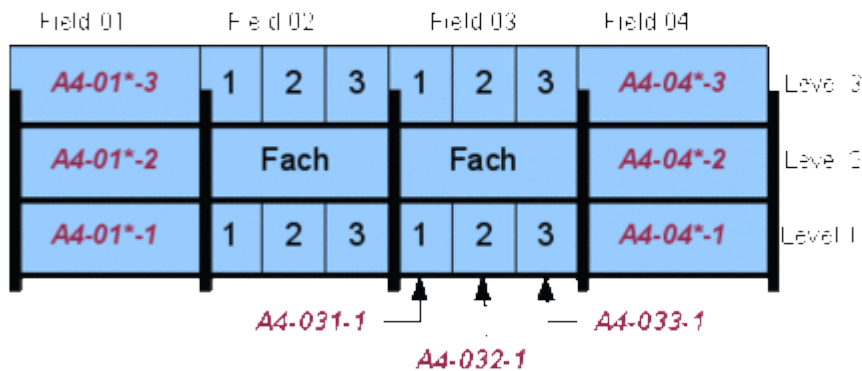
Example: A4-021-3

A4 = Rack or Aisle
02 = Field in Rack
1 = Location in field
3 = Level

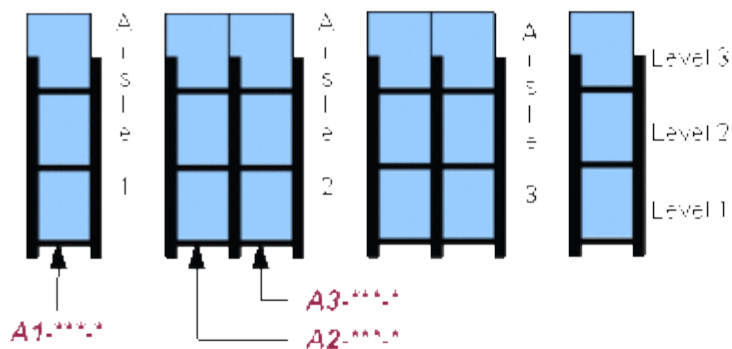
The storage location A4-021-3 is the fourth rack in hall A, there in the second field the first location in the third level.



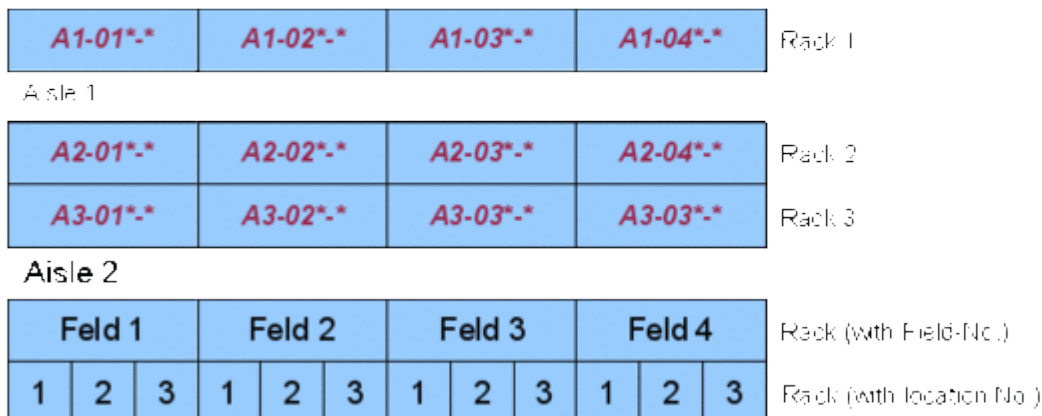
Side view (Rack A4)



Front view



Top view



Import of Storage Locations

With the menu item 'File – import – Rack & Locations' you can import XML files in Microsoft Excel 2003 XML format. A template is [here](#).

Procedure:

1. Download the template
2. Open the template in Microsoft Excel, OpenOffice Calc, LibreOffice Calc or a XML editor
3. Edit the file (a row for each storage location) and save it (in Microsoft Excel 2003 XML format!)
4. Import of this file

Structure of the file:

Hall	Aisle	Shelf	Bin	Level	Fairground merchandise	Bin type	Area	Capacity limit	Client
X		3	011	1		Pallet	Warehouse	1 EURO / Pallet compartment	System

Detailed description of the fields:

Halle (Hall): The hall area (A-Z)

Gasse (Aisle): The aisle that the rack is served by (1...)

Regal (Rack): The number of the rack (1...)

Ebene (Level): The level of the storage location (1...)

Fach (Field): The field of the storage location within the level

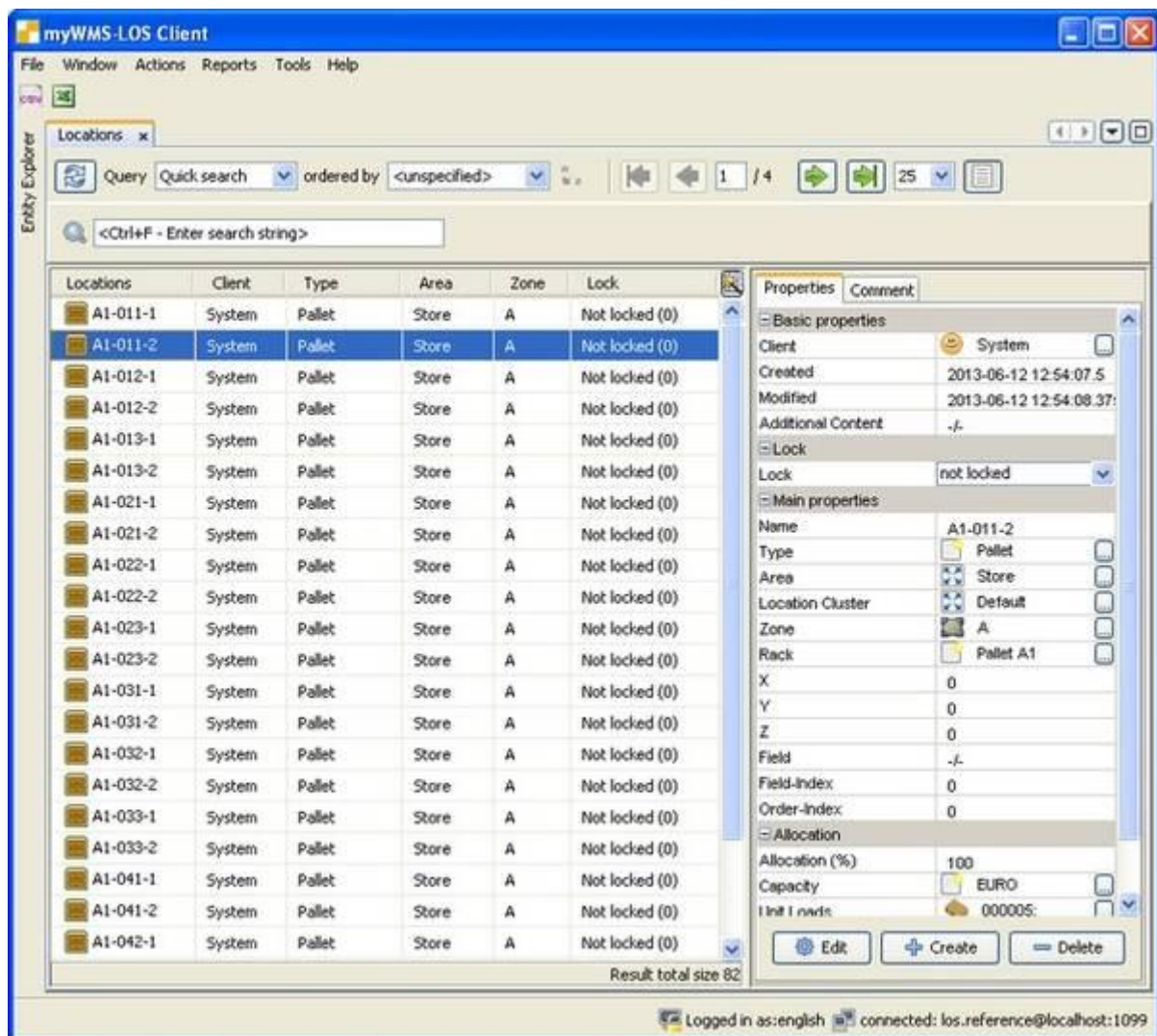
Festplatzartikel (Fixed Item): The given number is interpreted as an item data number. This one is fix assigned to the storage location.

Fachtyp (Location type): An existing storage location type

Mandant (Client): The client that owns the storage location. Mostly it is the system client.

The example above will create the following storage location:

X3-011-1



Detailed description of the fields:

Client: Is the storage location assigned to a client (except system client), only stocks of that client are stored in the storage location. Storage locations of the system client can be placed with material of each client.

Name: A unique identifier.

Location cluster: The storage group of the client

Range: The functional area that is associated with the storage location.

Type: The type of storage location.

Rack: The shelf, which is associated with the storage location.

X, Y, Z: Integer positions of the storage location.

Field: The field in which the storage location is located. Required for overcrowding.

Field index: Position within a field.

Sorting index: Integer value. After this field, picking routes are sorted.

Allocation (%): Percentage of the storage location, which is occupied or reserved for allocation.

Capacity: The assignment rule currently in use. This value is automatically set for access and release of the storage location of the system. Do not change this value in the

master data maintenance.

Unit loads: A list of unit loads available in the storage location.

Last Stocktaking: The date on which the storage location was last counted in inventory.

Description of functions:

Lock Entity: The data set is provided with a selectable block indicator.

Reservations release: Existing reservations / allocations are removed from the storage location.

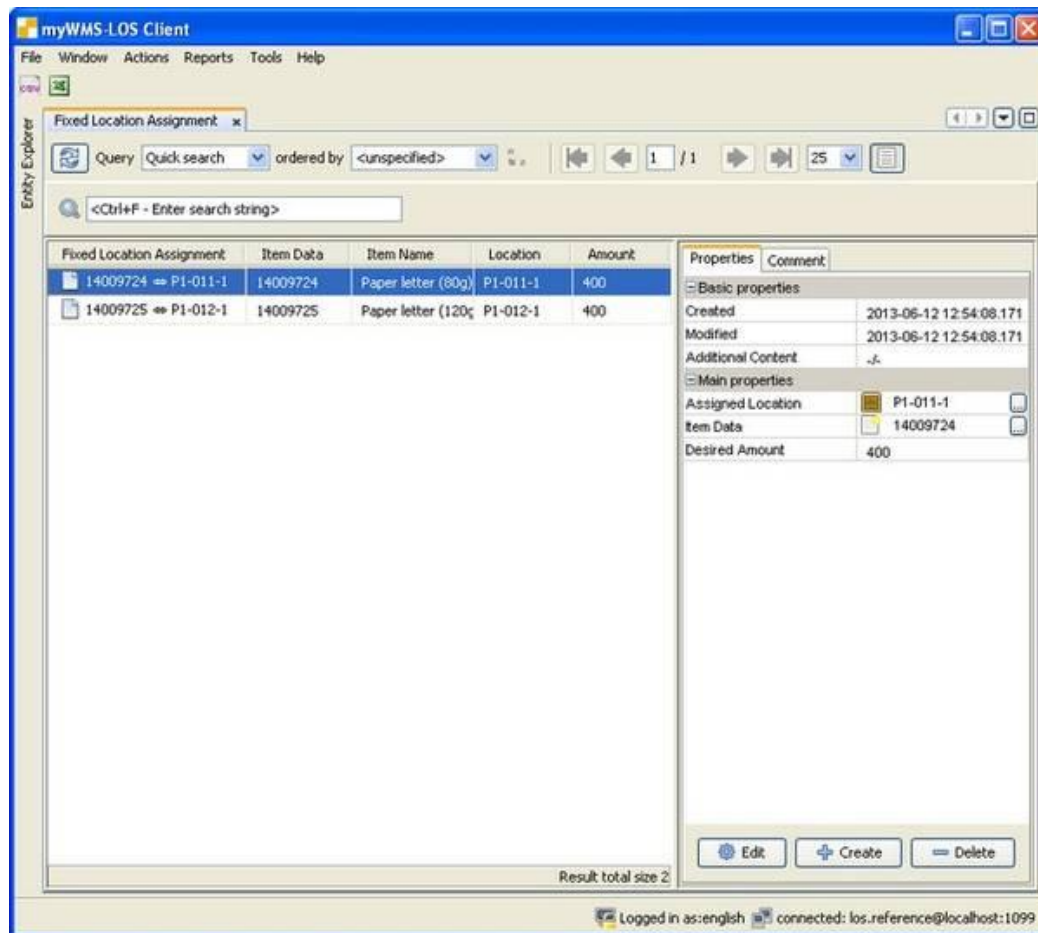
The storage area is therefore no longer in use and is available for new storage. If material is still on the storage location, this can lead to unexpected behavior.

Create stocktaking order: For the storage location an inventory counting is created.

7.10. Fixed Location Assignment

With the fixed location assignment, storage locations are designated to certain materials.

These settings for example are required for the establishment of dedicated picking locations.



Detailed description of the fields:

Location: The affected storage space.

Item Data: The assigned item.

Desired Amount: The quantity of the item that matches the maximum storage space.

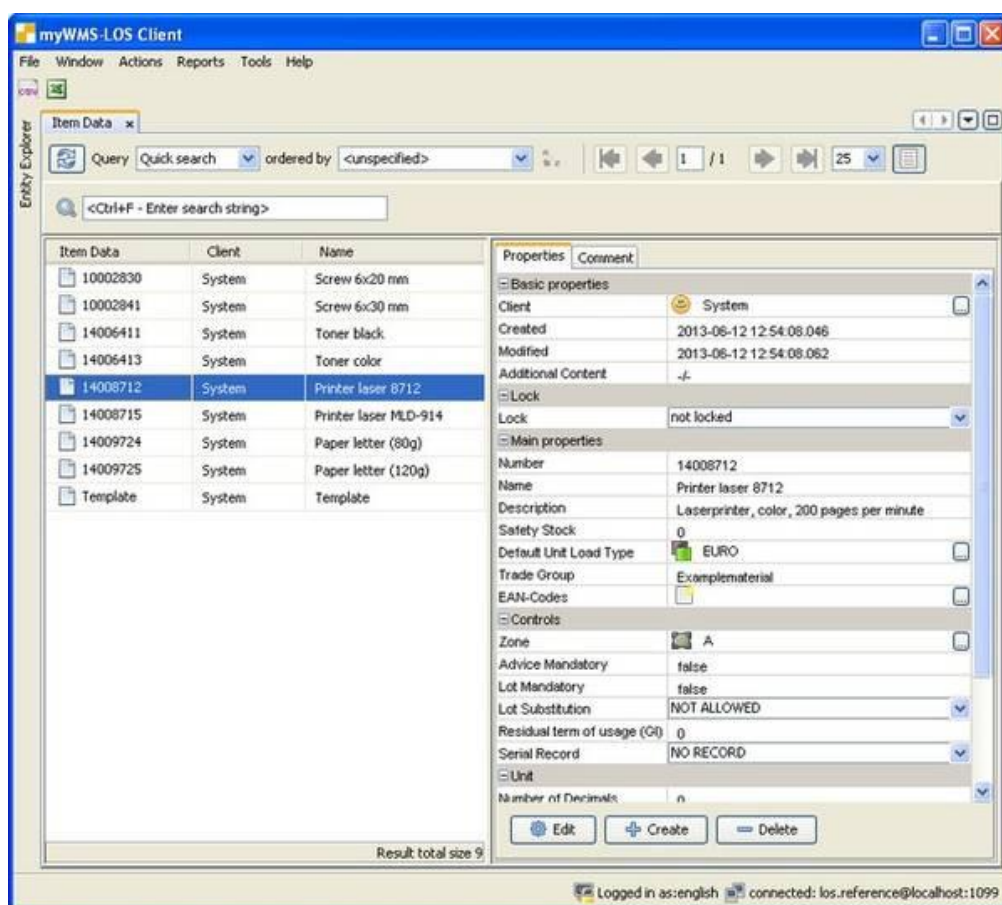
8. Material Master Data

8.1. Item Units

Each item is assigned to a standard unit of measure. These units are stored here as master data.

8.2. Item Data

In the item data definitions the various items are defined.



Detailed description of the fields:

Client: Only the specified client (and the system client) have access to this product. All stocks of the article are created for this client.

Number: The unique item number.

Name: A detailed description.

Description: A long description.

Safety Stock: For special deployment.

Default Unit Load Type: This unit load type is used in several goods receipt and stocktaking processes as default value for new stock creation.

Trade Group: For special deployment.

EAN-Codes: A List of additional identifiers. (see EAN-Codes).

Zone: The default zone of the item. Is used is storage location search.

Advice Mandatory: For special deployment.

Lot Mandatory: A Flag that directs, whether a lot is mandatory for this item.

Lot substitution: Regulates, whether a lot may be replaced by another one.

Residual Term Of Usage (GI): The minimal remaining term of the item on goods receipt.

Serial Record: Regulates, whether or when a serialnumber has to be captured for a stock.

Number of Decimals: The number of decimals displayed for the amounts of the item.

Handling Unit: The unit of measure.

Height, Width, Depth: The dimensions of the item.

Weicht: The weight of the item.

Attention! Not all fields of the item data are evaluated by myWMS in the current processes. Which propertie is used at which process, is determined by the particular application process. The item master data offer the possibility to store this information.

Import of Item Data

With the menu item '**File – import – Item Data**' you can import XML files in Microsoft Excel 2003 XML format. A template is [here](#).

Procedure:

1. Download the template
2. Open the template in Microsoft Excel, OpenOffice Calc, LibreOffice Calc or a XML editor
3. Edit the file (a row for each storage location) and save it (in Microsoft Excel 2003 XML format!)
4. Import of this file

Structure of the file:

Client	Number	Name	Description	LHM-Type	Batch Requirement	Unit
System	21740001	Article 21740001	Description of the article 21740001	EURO	Yes	Pcs

The headers of the table have to be this keywords. Please do not translate them.

Detailed description of the fields:

Mandant (Client): The Client of the item

Nummer (Number): The number of the item

Name (Name): The name of the item

Beschreibung (Description): The description of the item

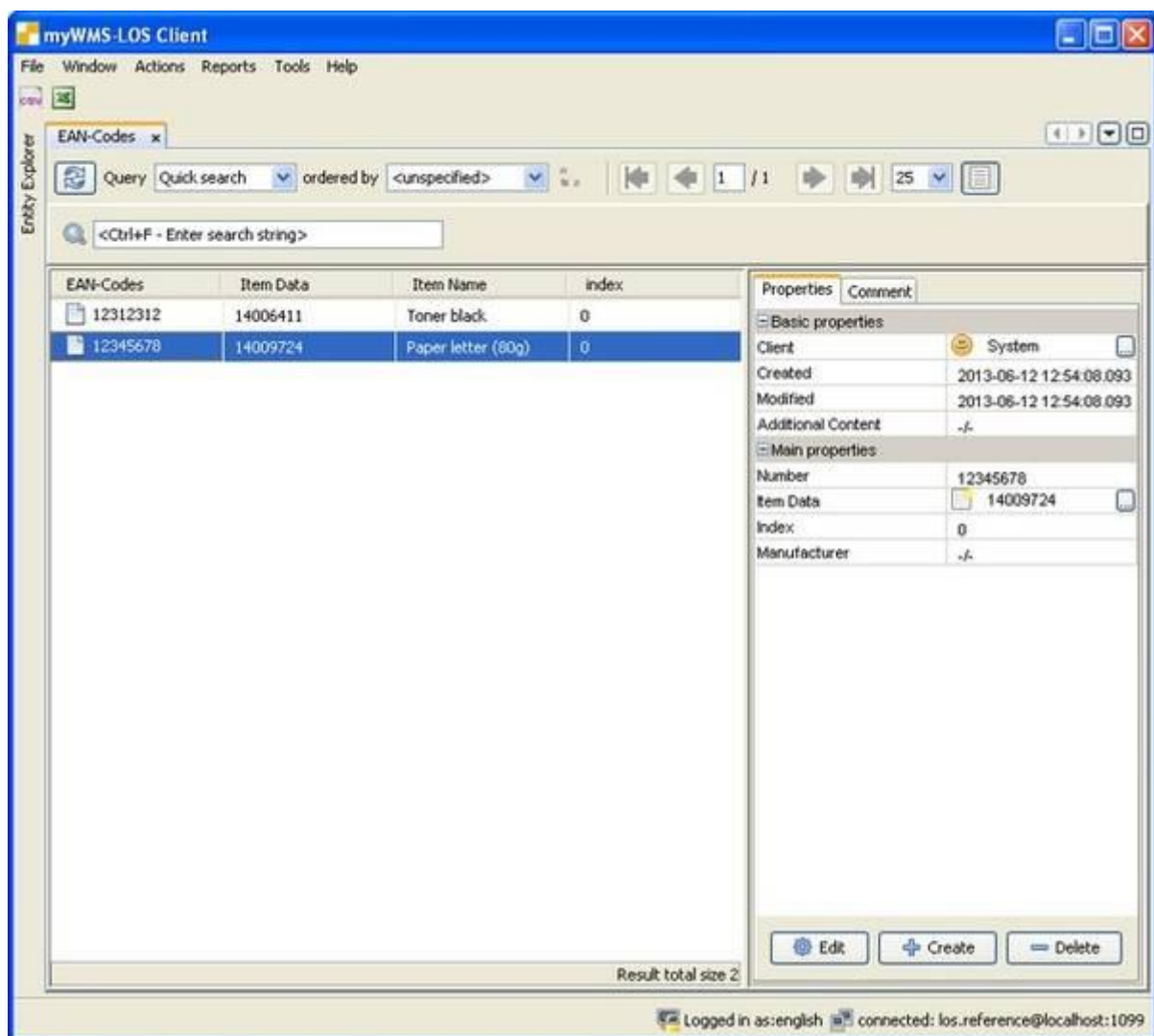
LHM-Type (Unit load type): The default unit load type of the item

Chargenpflicht (Lot mandatory): The flag for mandatory lot. (YES / NO)

Einheit (Unit): The unit of measure

8.3. EAN-Codes

In addition to the part number, there are other identifiers. This can for example be EAN- or UPC-codes. It can also be custom codes of the manufacturer of the goods. These additional item numbers must clearly refer to one item. It is not possible to have one additional number referring to several items.



Detailed description of the fields:

Number: A unique identifier.

Item Data: The affected article

Index: For special deployment.

Manufacturer: The manufacturer of the item. Just for info.

8.4. Bills of Material

In this list items will be combined into one bill.

One item is the master. To this master any number of items can be assigned.

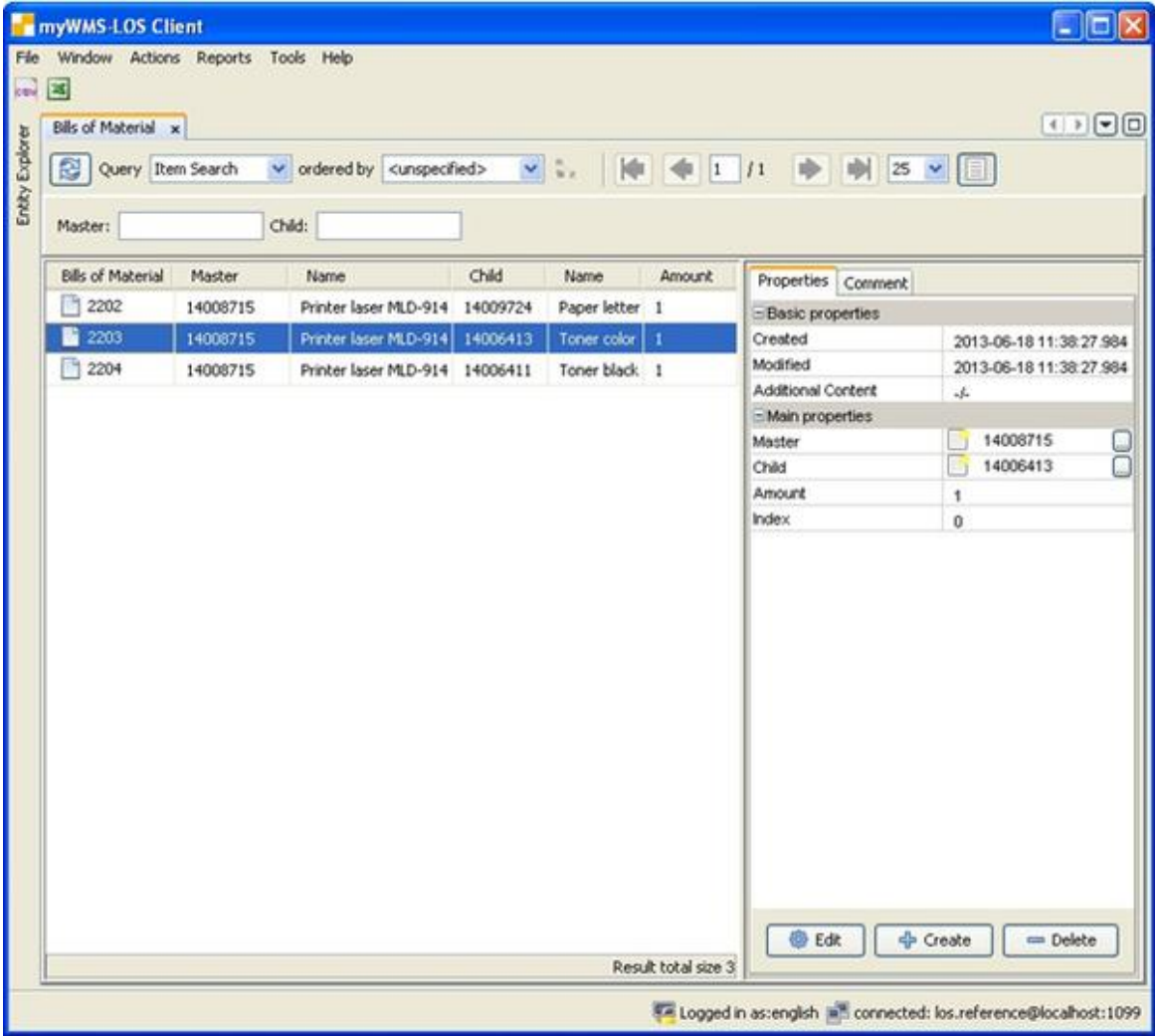
Detailed description of the fields:

Master: The master article.

Part: The part article.

Amount: The amount of sub-articles that are required to form the BOM.

Index: Sorting the list.



myWMS-LOS Client

File Window Actions Reports Tools Help

Entity Explorer

Bills of Material x

Query Item Search ordered by <unspecified>

Master: Child:

Bills of Material	Master	Name	Child	Name	Amount
2202	14008715	Printer laser MLD-914	14009724	Paper letter	1
2203	14008715	Printer laser MLD-914	14006413	Toner color	1
2204	14008715	Printer laser MLD-914	14006411	Toner black	1

Properties Comment

Basic properties

Created 2013-06-18 11:38:27.984

Modified 2013-06-18 11:38:27.984

Additional Content -/-

Main properties

Master 14008715

Child 14006413

Amount 1

Index 0

Edit Create Delete

Result total size 3

Logged in as: english connected: los.reference@localhost:1099

9. Strategies

9.1. Storage Strategy

Searching for a storing position with the help of a storage strategy.

Detailed description of the fields:

Name: A unique identifier.

Use Zone of Item: The strategy searches only storage locations that have the same fixed zone as the article.

Zone: Only storage locations in the specified zone.

This setting is only active when 'Use zone article' is not set.

Use Area Storage: Only storage locations in functional areas with 'stock' can be used.

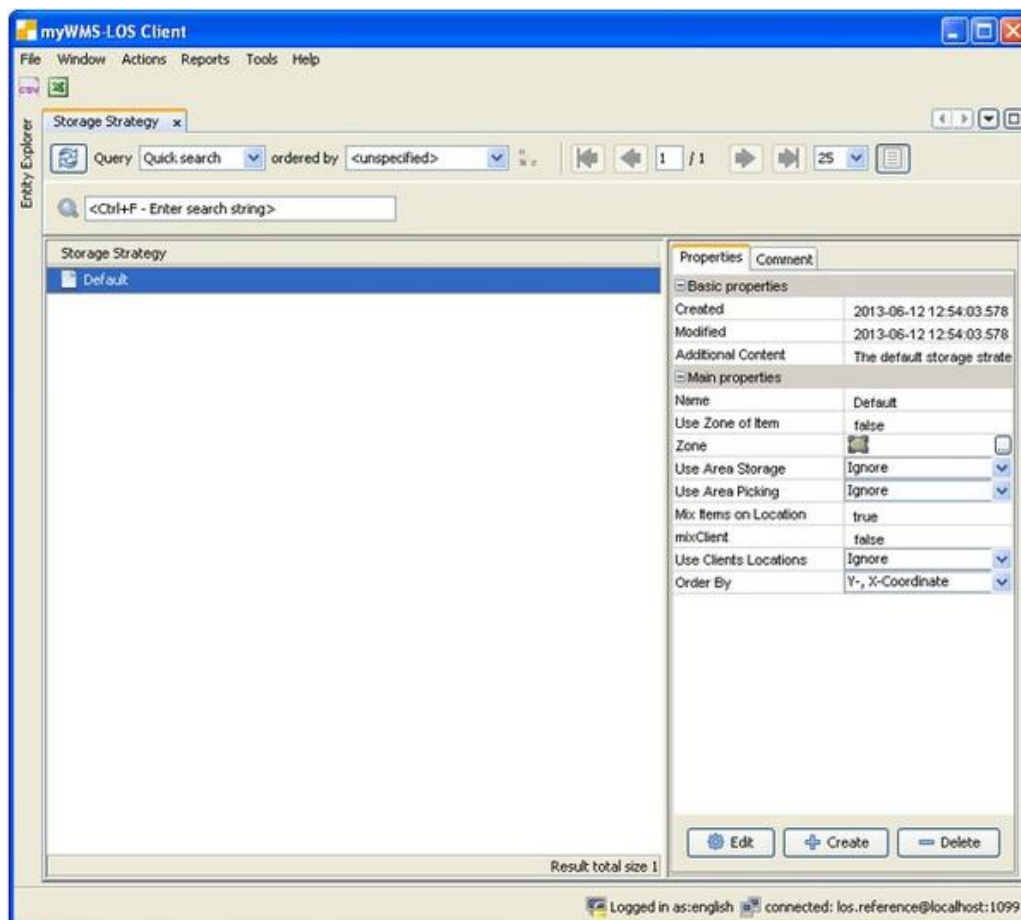
Use Area Picking: Only bins in functional areas with 'picking' can be used.

Mix Item on Location: On a storage location several articles may be mixed.

Mix Clients on Location: On a storage location several articles may be mixed.

Use Clients Locations: Setting if the clients are treated preferentially.

Order by: Various options for sorting the storage locations.

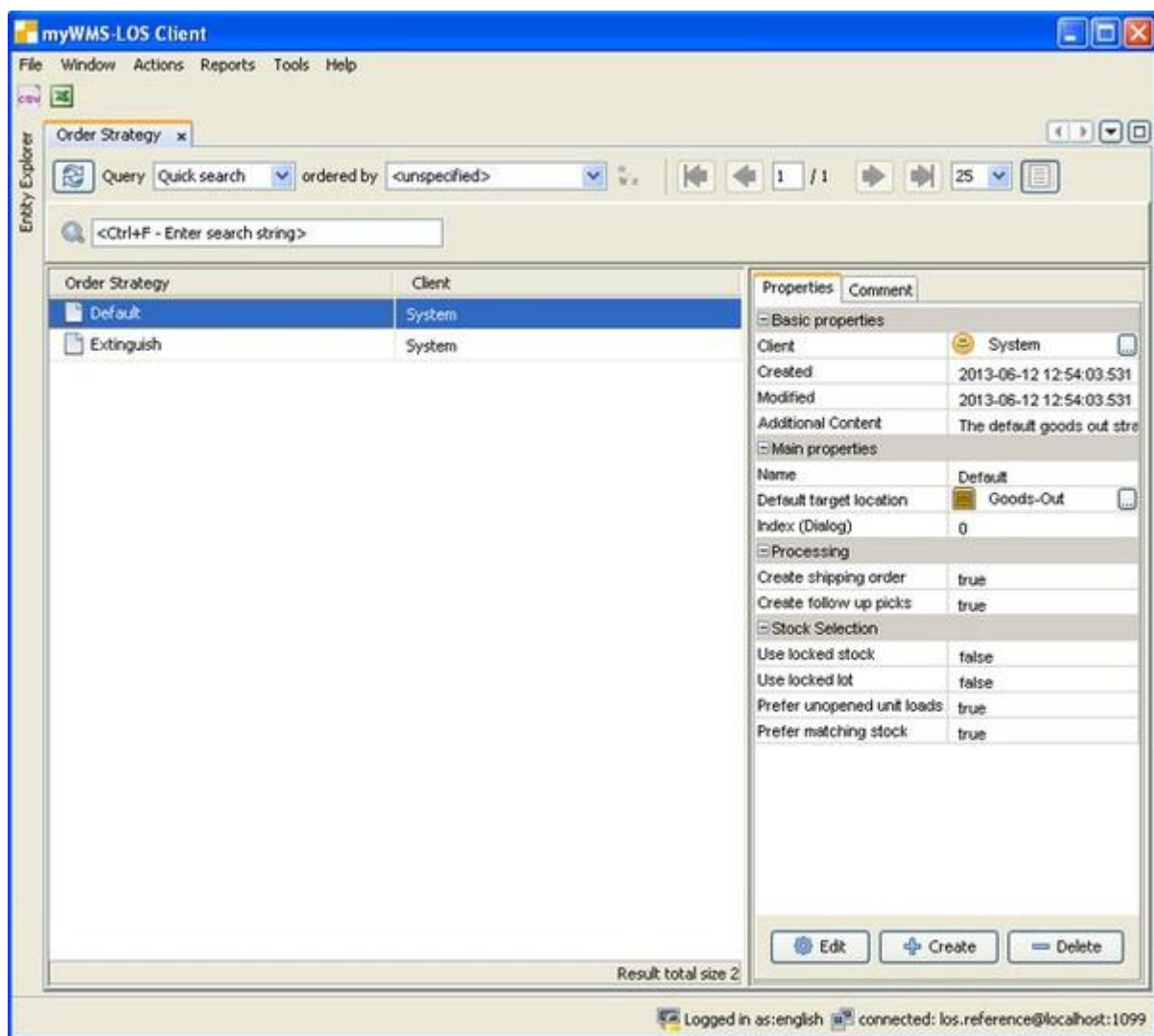


9.2. Order Strategy

With the help of strategies for stock removal settings for outbound orders are made. These relate to the selection of outsourced resources as well as the implementation of removal orders.

The strategy is written together with the removal order or sales order into the system. It is thus not depending on the item.

In general, the stock selection is done strictly according to FIFO. However, there are switches that rank higher other criteria.



Detailed description of the fields:

Client: The client for who the release order is written.

Name: A unique identifier

Default target location: A target location for the pick

Index Dialog: Controls the display in the selection list for manual order creation.
(less than 0 will not displayed)

Create shipping order: After picking a shipping order for the sales order is automatically generated.

Create follow up picks: When shortfalls occur in picking, the system automatically tries to find replacement material.

Use locked stock: Also stocks are used, which are blocked.

Use locked lot: Also lots are used, that are blocked.

Prefer unopened unit loads: Can an unopened unit load be fully used, it will be accepted over FIFO.

Prefer matching stock: Can a suitable unit load be completely used for a position, it will be accepted over FIFO.

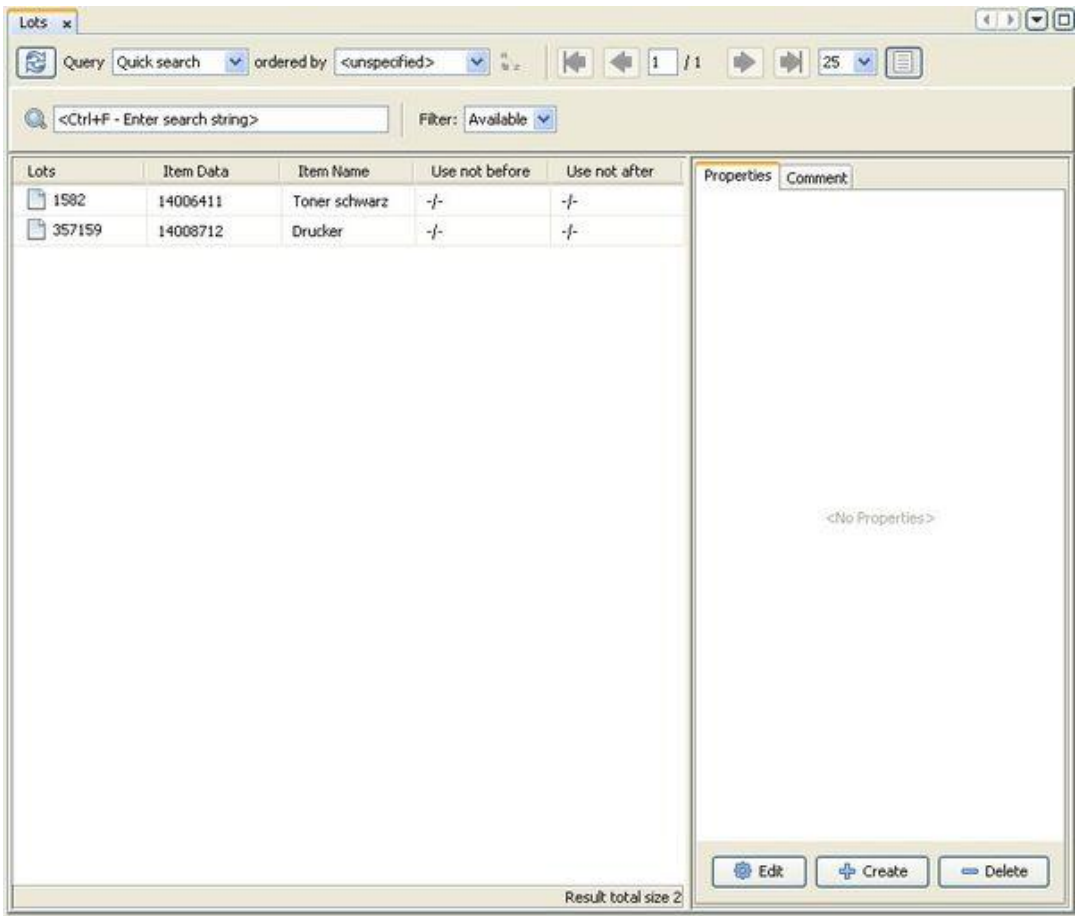
10. Inventory Data

In the inventory data you will find the current stocks. The stock unit, item amounts unit loads and their location assignment is displayed.

This information is changed with every movement in the warehouse.

10.1. Lots

In the lots, additional information to the (production) lot of a stock units is stored. Not every item must have a lot.



Lots	Item Data	Item Name	Use not before	Use not after
1582	14006411	Toner schwarz	-/-	-/-
357159	14008712	Drucker	-/-	-/-

Properties Comment

<No Properties>

Edit Create Delete

Result total size 2

Detailed description of the terms used in the dialog:

Name: The name of the lot

Item Data: The number of the item, which is connected to the lot

Date: The date of the lot

Use not before: The first date, when the material will be valid

Use not after: The last date, until the material is valid. It is used as best-before date

Description of functions:

Extinguish lot

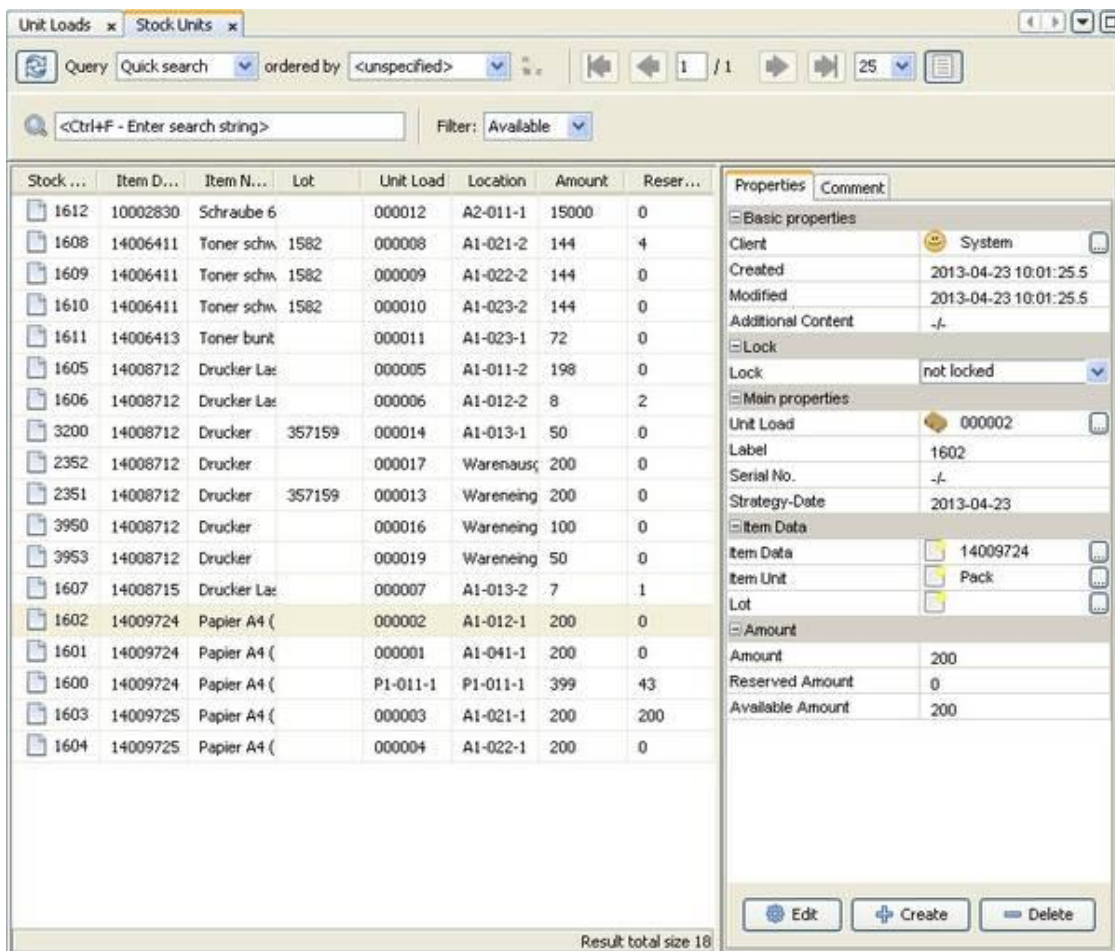
In the context menu of the lot you will get the function **'Extinguish Lot'**.

With this function, an extinguish order will be generated for all stock units of every selected lot. An extinguish order creates a picking order for all available stock units of the selected lot.

Other parameters for the preparation and processing of extinguish orders can be set via the order strategy. The settings for the stock selection will be ignored, since all available are selected.

10.2. Stock Units

A stock unit shows an amount of an item on one unit load or storage location. Thereby all single peaces of the stock unit have identical qualities and are replaceable.



Stock ...	Item D...	Item N...	Lot	Unit Load	Location	Amount	Reser...
1612	10002830	Schraube 6		000012	A2-011-1	15000	0
1608	14006411	Toner schw.	1582	000008	A1-021-2	144	4
1609	14006411	Toner schw.	1582	000009	A1-022-2	144	0
1610	14006411	Toner schw.	1582	000010	A1-023-2	144	0
1611	14006413	Toner bunk		000011	A1-023-1	72	0
1605	14008712	Drucker Las		000005	A1-011-2	198	0
1606	14008712	Drucker Las		000006	A1-012-2	8	2
3200	14008712	Drucker	357159	000014	A1-013-1	50	0
2352	14008712	Drucker		000017	Warenausg	200	0
2351	14008712	Drucker	357159	000013	Wareneing	200	0
3950	14008712	Drucker		000016	Wareneing	100	0
3953	14008712	Drucker		000019	Wareneing	50	0
1607	14008715	Drucker Las		000007	A1-013-2	7	1
1602	14009724	Papier A4 (		000002	A1-012-1	200	0
1601	14009724	Papier A4 (		000001	A1-041-1	200	0
1600	14009724	Papier A4 (		P1-011-1	P1-011-1	399	43
1603	14009725	Papier A4 (		000003	A1-021-1	200	200
1604	14009725	Papier A4 (		000004	A1-022-1	200	0

Properties | Comment

Basic properties

Client: System

Created: 2013-04-23 10:01:25.5

Modified: 2013-04-23 10:01:25.5

Additional Content: -/-

Lock

Lock: not locked

Main properties

Unit Load: 000002

Label: 1602

Serial No.: -/-

Strategy-Date: 2013-04-23

Item Data

Item Data: 14009724

Item Unit: Pack

Lot:

Amount

Amount: 200

Reserved Amount: 0

Available Amount: 200

Edit Create Delete

Result total size 18

Detailed description of the terms used in the dialog:

Client: The client owns the stock unit.

Unit Load: The unit load or locad carrier on which the stock unit is placed.

Location: The name of the storage location where the stock unit or unit load is placed.

Label: A unique identifier of the storage unit.

Serial-No: The serial number (if available).

Strategy-Date: Based on this date the FIFO is performed. This panel is usually filled with the creation date of the stock unit. For unit loads with a lot the „best-before“ of this lot is used.

Item Data: The number of the item data of the stock unit.

Item Unit: The unit of measure.

Lot: The name of the lot (if available).

Amount: The current amount of the stock unit.

Reserved Amount: The current reserved amount of the stock unit. A reservation is done for picking orders.

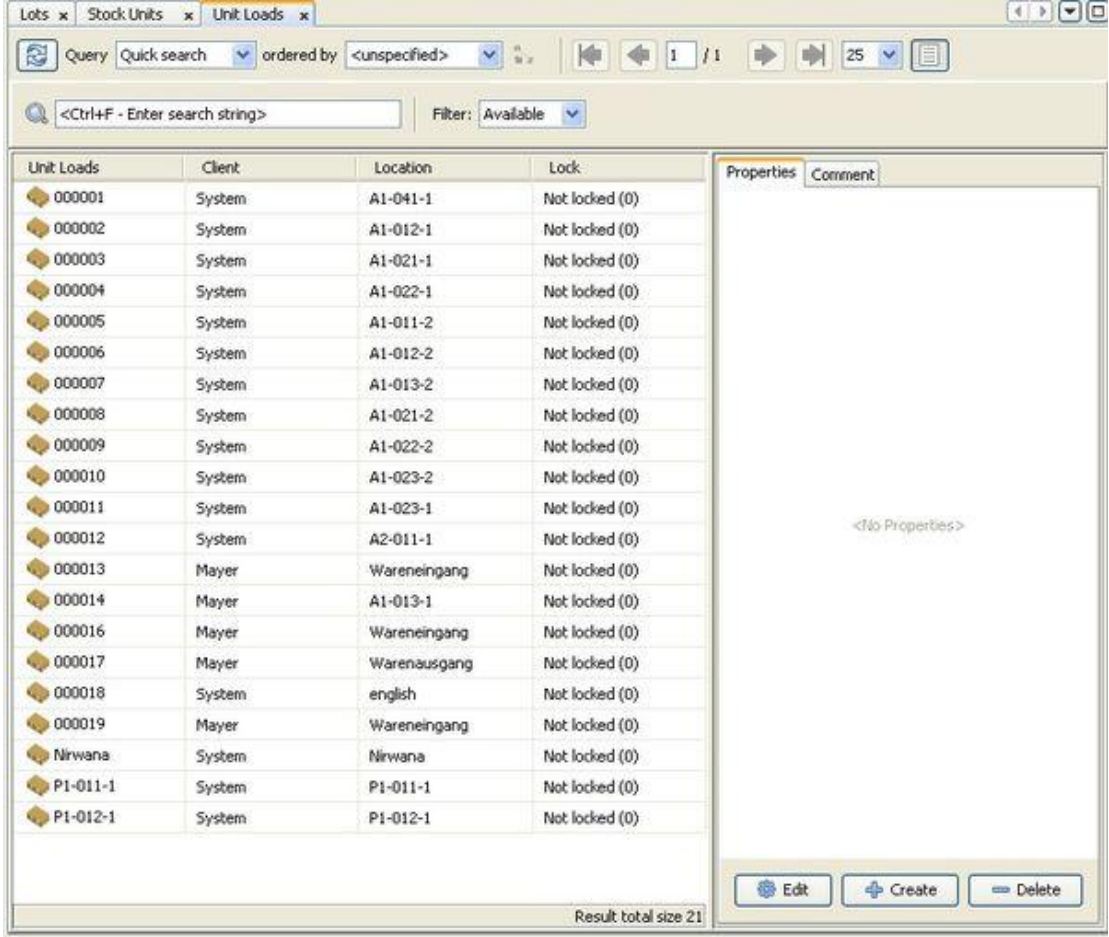
Available Amount: The amount that is available, taking into account the reservation.

Description of functions:

Lock entity: The dataset is provided with a selectable block indicator. Thus it is no longer available at stock.

Send to nirwana (delete): In myWMS stock units are principally not deleted directly. This can be done in a separate process. Stock units and unit loads which have to be deleted are moved first to a location named 'Nirvana'. There they get a dedicated lock and are no more visible for normal operation.

10.3. Unit Loads



Unit Loads	Client	Location	Lock
000001	System	A1-041-1	Not locked (0)
000002	System	A1-012-1	Not locked (0)
000003	System	A1-021-1	Not locked (0)
000004	System	A1-022-1	Not locked (0)
000005	System	A1-011-2	Not locked (0)
000006	System	A1-012-2	Not locked (0)
000007	System	A1-013-2	Not locked (0)
000008	System	A1-021-2	Not locked (0)
000009	System	A1-022-2	Not locked (0)
000010	System	A1-023-2	Not locked (0)
000011	System	A1-023-1	Not locked (0)
000012	System	A2-011-1	Not locked (0)
000013	Mayer	Wareneingang	Not locked (0)
000014	Mayer	A1-013-1	Not locked (0)
000016	Mayer	Wareneingang	Not locked (0)
000017	Mayer	Warenausgang	Not locked (0)
000018	System	english	Not locked (0)
000019	Mayer	Wareneingang	Not locked (0)
Nirwana	System	Nirwana	Not locked (0)
P1-011-1	System	P1-011-1	Not locked (0)
P1-012-1	System	P1-012-1	Not locked (0)

Detailed description of the terms used in the dialog:

Client: The client owns the stock unit.

Label ID: A unique identifier or barcode of the unit load.

Type: The type of the unit load.

Packing Type: The packing type determines how to merge stock on an unit load.

- Mixed: Any material may be mixed.
- Mixed with consolidation: Any material may be mixed. Identical items / lots will be merged.
- Same material: Only material of one article is allowed on this unit load.
- Same material with consolidation: Only material of one article is allowed on this unit load. Identical items / lots may be merged.
- Same lot: Material from only one lot must be stored to the unit load.
- Same lot with consolidation: Material from only one lot must be stored to the unit load. Identical items / lots may be merged.
- Container: Any material may be mixed. Stock lists and stock weight on this unit load are not updated for performance reasons.

Location: The storage location, where the unit load is currently placed.

Storage units: A list of storage units that are located on the loading unit.

Weight: The weight of the unit loads. If an explicitly weighed weight is present, this will be displayed. Otherwise, the calculated weight.

Opened: This flag is set when an increase or deduction has been made on a unit load. Unopened unit loads can be accounted for in the retrieval strategies.

Carrier: The carrier is said if the current unit load is on a carrying unit load.

Child unit loads: When the current unit load is a carrier here is the list of the unit loads thereon.

Description of functions:

Lock entity: The dataset is provided with a selectable block indicator. Thus it is no longer available on stock.

Send to nirwana (delete): In myWMS stock units are principally not deleted directly. This can be done in a separate process. Stock units and unit loads which have to be deleted are moved first to a location named 'Nirvana'. There they get a dedicated lock and are no more visible for normal operation.

11. Journal

Every movement in the warehouse is stored to the journal. They document every performed action. These journals cannot be changed. So they are able to proof certain activities.

11.1. Journal of Unit Loads

Every movement of a unit load is written to this journal.

With this journal, the way of each unit load can be traced in the warehouse at any time.

Lots x Stock Units x Unit Loads x

Query Quick search ordered by <unspecified> 1 / 1 25

<Ctrl+F - Enter search string> Filter: Available

Unit Loads	Client	Location	Lock
000001	System	A1-041-1	Not locked (0)
000002	System	A1-012-1	Not locked (0)
000003	System	A1-021-1	Not locked (0)
000004	System	A1-022-1	Not locked (0)
000005	System	A1-011-2	Not locked (0)
000006	System	A1-012-2	Not locked (0)
000007	System	A1-013-2	Not locked (0)
000008	System	A1-021-2	Not locked (0)
000009	System	A1-022-2	Not locked (0)
000010	System	A1-023-2	Not locked (0)
000011	System	A1-023-1	Not locked (0)
000012	System	A2-011-1	Not locked (0)
000013	Mayer	Wareneingang	Not locked (0)
000014	Mayer	A1-013-1	Not locked (0)
000016	Mayer	Wareneingang	Not locked (0)
000017	Mayer	Warenausgang	Not locked (0)
000018	System	english	Not locked (0)
000019	Mayer	Wareneingang	Not locked (0)
Nirwana	System	Nirwana	Not locked (0)
P1-011-1	System	P1-011-1	Not locked (0)
P1-012-1	System	P1-012-1	Not locked (0)

Properties Comment

Basic properties

Client System

Created 2013-04-23 10:01:25.64

Modified 2013-04-23 10:01:25.656

Additional content -/-

Lock

Lock Not locked

Main properties

Label ID 000004

Type EURO

Package type Same Lot w. consoli...

Location A1-022-1

Stock Units 1604;

Weight 25

Opened false

Carrier

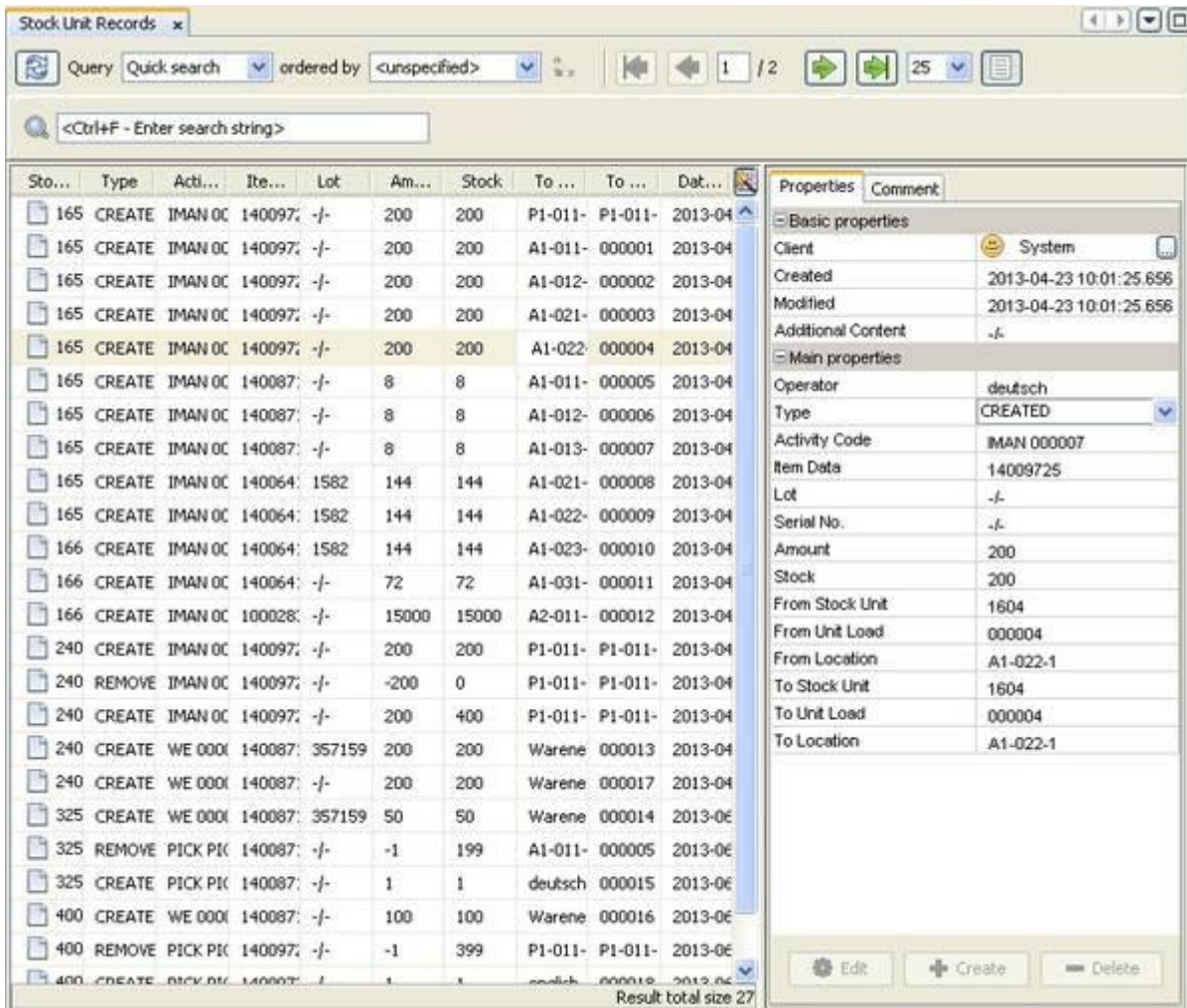
Child Unit Loads

Edit Create Delete

Result total size 21

11.2. Journal of Stock Units

Every stock changing operation is written to this journal. With this journal it is possible to show every change of a stock unit.



Sto...	Type	Acti...	It...	Lot	Am...	Stock	To ...	To ...	Dat...
165	CREATE	IMAN OC	140097	-/-	200	200	P1-011-	P1-011-	2013-04
165	CREATE	IMAN OC	140097	-/-	200	200	A1-011-	000001	2013-04
165	CREATE	IMAN OC	140097	-/-	200	200	A1-012-	000002	2013-04
165	CREATE	IMAN OC	140097	-/-	200	200	A1-021-	000003	2013-04
165	CREATE	IMAN OC	140097	-/-	200	200	A1-022-	000004	2013-04
165	CREATE	IMAN OC	140087	-/-	8	8	A1-011-	000005	2013-04
165	CREATE	IMAN OC	140087	-/-	8	8	A1-012-	000006	2013-04
165	CREATE	IMAN OC	140087	-/-	8	8	A1-013-	000007	2013-04
165	CREATE	IMAN OC	140064	1582	144	144	A1-021-	000008	2013-04
165	CREATE	IMAN OC	140064	1582	144	144	A1-022-	000009	2013-04
166	CREATE	IMAN OC	140064	1582	144	144	A1-023-	000010	2013-04
166	CREATE	IMAN OC	140064	-/-	72	72	A1-031-	000011	2013-04
166	CREATE	IMAN OC	100028	-/-	15000	15000	A2-011-	000012	2013-04
240	CREATE	IMAN OC	140097	-/-	200	200	P1-011-	P1-011-	2013-04
240	REMOVE	IMAN OC	140097	-/-	-200	0	P1-011-	P1-011-	2013-04
240	CREATE	IMAN OC	140097	-/-	200	400	P1-011-	P1-011-	2013-04
240	CREATE	WE 000	140087	357159	200	200	Warene	000013	2013-04
240	CREATE	WE 000	140087	-/-	200	200	Warene	000017	2013-04
325	CREATE	WE 000	140087	357159	50	50	Warene	000014	2013-04
325	REMOVE	PICK PK	140087	-/-	-1	199	A1-011-	000005	2013-04
325	CREATE	PICK PK	140087	-/-	1	1	deutsch	000015	2013-04
400	CREATE	WE 000	140087	-/-	100	100	Warene	000016	2013-04
400	REMOVE	PICK PK	140097	-/-	-1	399	P1-011-	P1-011-	2013-04
400	CREATE	PICK PK	140097	-/-	1	1	deutsch	000018	2013-04

Result total size 27

Detailed description of the terms used in the dialog:

Operator: The name of the user, who has done the operation.

Type: There are different types defined:

CREATED: A new stock has been created.

COMBINED: A Part of a stock unit has been moved.

ALTERED: The amount of the stock unit has been changed.

REMOVED: A stock unit has been deleted.

TRANSFERRED: A stock has been moved to a different unit load.

COUNTED : A stock, unit load or stock unit has been counted.

Activity Code: All movements are provided with an activity code which indicates which process has initiated the movement. The activity code itself is given by the processes involved. E.g. Inventory Order No. X or picking order Y.

Item Data: The number of the item.

Lot: The name of the lot (if available).

Serial-No: The serial-No of the stock (if available).

Amount: The changed / registered amount.

Stock: The amount of the stock after the operation.

From Stock Unit: The stock unit, where the operation comes from (internal ID).

From Unit Load The unit load, where the operation comes from (label).

From Location: The storage location, where the operation comes from.

To Stock Unit: The stock unit, where the operation goes to.

To Unit Load: The unit load, where the operation goes to.

To Location: The storage location, where the operation goes to.

12. Inbound Processes

For goods receipt different processes are available. They can be used independently. The standard goods receipt is a multistep process that is usually carried out in conjunction with an ERP system. The notified deliveries are transferred from the ERP to myWMS LOS. In myWMS LOS they are assigned to a receiving process, on the basis of delivery information. And then material is collected and stored.

In the simplified goods receipt process, the material is collected and stored directly. Without an advice of an ERP system.

12.1. Goods Receipt

The standard goods receipt consists of several sub processes.

a) Advice: First the expected material is advised. With the advice, the connection to an ERP system is kept.

b) Rough goods receipt: Goods receipt operations are defined on basis of the advice informations. A goods receipt describes a delivery of material. It will be generated on the shipping documents and advices. This predetermined assignment simplifies the subsequent collection.

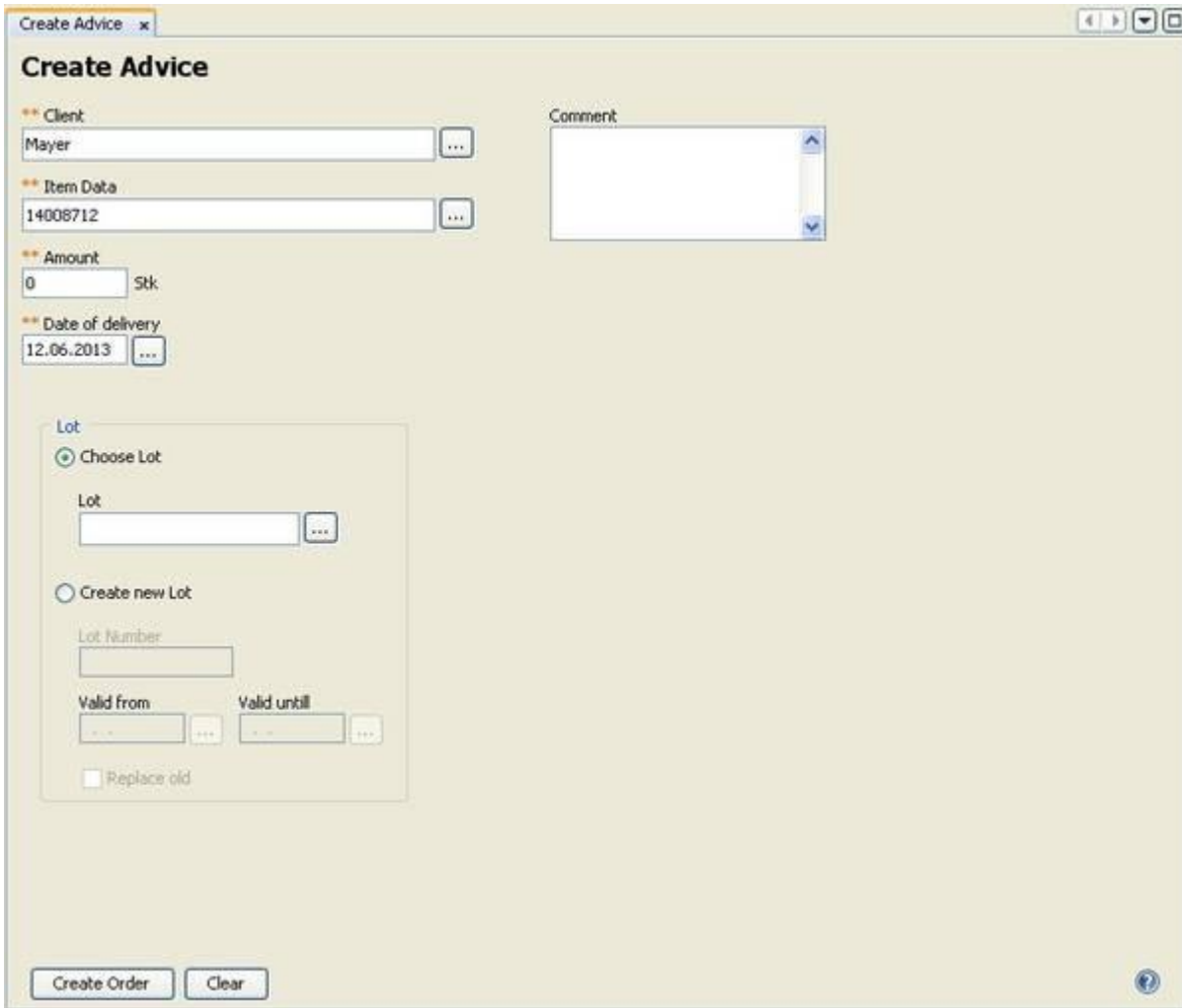
c) Detailed goods receipt: During this process the detailed data such as item data, lot, amount, unit load numbers, etc. will be announced. The data can be entered on both rich clients and mobile devices. You must ensure that only goods of the same material are on one pallet.

d) Finishing of the goods receipt: The dialog enables to compare what has been advised and what has been collected. By the conclusion of the goods receipt, the data is confirmed and if necessary reported back to an ERP system.

e) Storing mobile: Finally the received unit loads are stored.

12.1.1. Advice

The expected delivery is communicated through an advice. This advice can be passed automatically through an interface of an ERP system, or be entered manually. To manually create an advice open the menu item '**Window – Create Advice**'.



Detailed description of the terms used in the dialog:

Client: Select the client for which the delivered goods is determined.

Item Data: The advised item.

Amount: The advised amount. In reference to each item data the unit of the amount is given as an information on the right side e.g. quantity or weight.

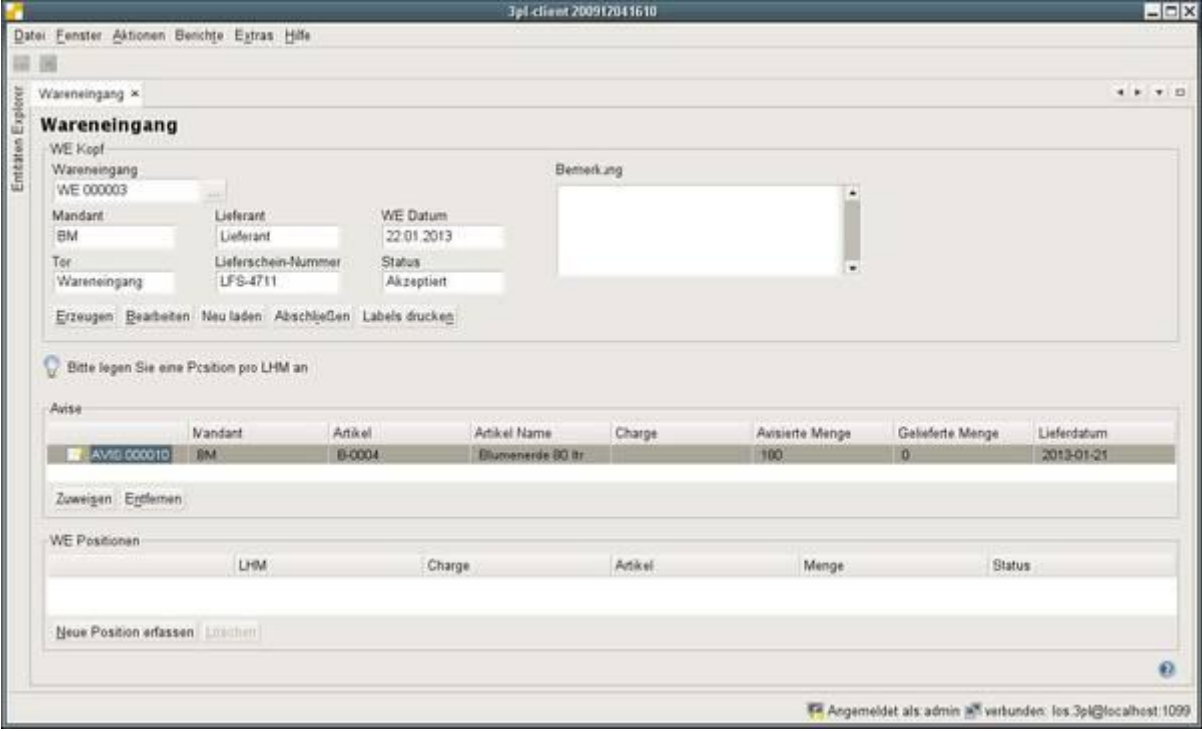
Date of delivery: The date when the delivery is expected.

Lot: The specification of a lot is optional and can be done later. If the lot is specified here, only this lot can be received.

Valid from, Valid until: More information that is needed to create a new lot.

12.1.2. Rough Goods Receipt

A goods receipt describes a delivery of material. It will be generated on basis of the shipping documents and advices.



Detailed description of the terms used in the dialog:

Client: The client for whom the advised goods is meant for.

Gate: The gate, where the goods are delivered.

Deliverer: Text field to enter the deliverer / supplier.

Delivery Number: Field to enter the delivery number.

Receipt Date: The date, when the goods receipt is done.

State: The current state of the process.

Advice: This list contains the advices, which are assigned to the goods receipt. The announced items and amounts shall be collected with the goods receipt.

Positions: This list contains all amounts already collected in the goods receipt.

Description of functions:

Create: Creates a new (empty) goods receipt.

Edit: With this function you can edit the data of the inbound process.

Reload: Reload the current goods receipt from the database.

Finish: With this function, you finish the goods receipt. In this process very often an ERP system is informed.

Print labels: Print label for all unit loads, which are collected with this goods receipt. The printing is done on the printer which is assigned to the current workstation. It can be set by system properties.

Advice, Assign: Selection and assignment of another advice to the goods receipt.

Advice, Detach: Remove an advice from the list. This is only possible, if no good has been collected for this advice.

Positions, Create new: With this function, the receiving of a new item is started. Usually this is done with the corresponding mobile process but it can also be done stationary here.

To start this function, in the above list the fitting advice has to be selected.

Positions, Remove: Deletion of a collected position. With this function the unit load and stock is removed, which has been created with the collection.

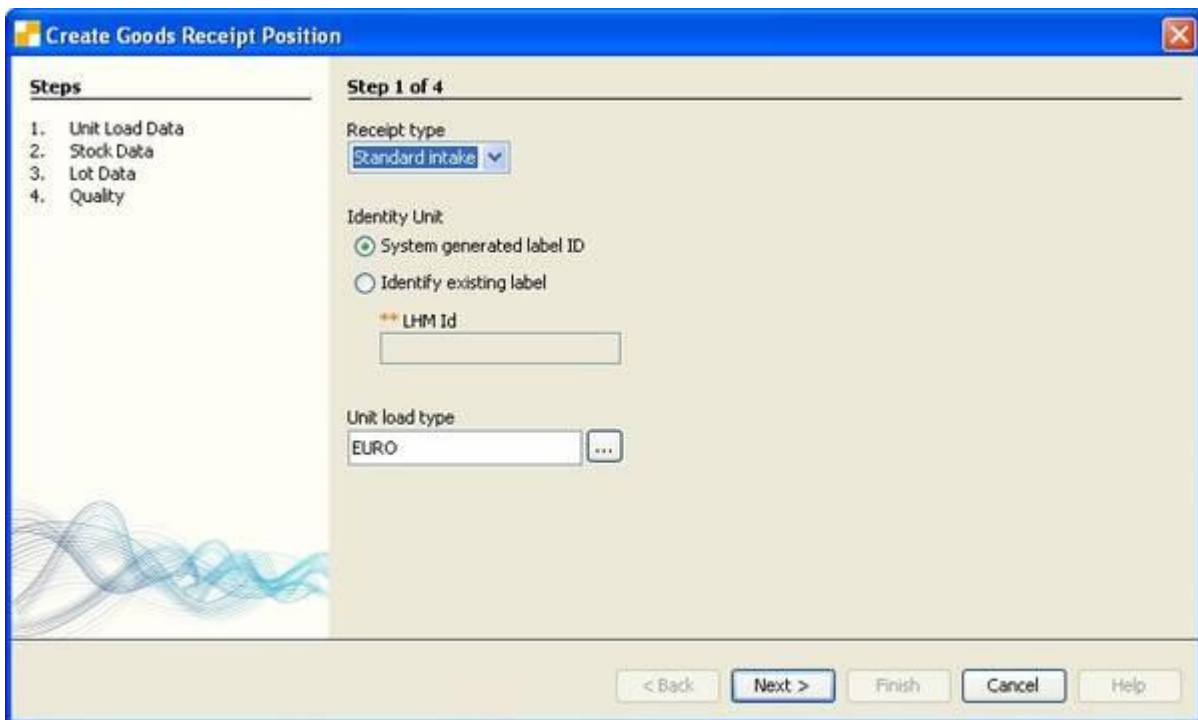
This function is only as long available as the material has not been further processed. Even after merging stocks it is not available.

12.1.3. Detailed Goods Receipt

In the collection or the detailed goods receipt, the received goods are checked in detail and separated per item data on one unit loads. Here, all data such as items, lots, amount, unit load numbers, etc. are announced to myWMS LOS.

To start this function the appropriate advice has to be selected from the top list.

The collection and processing of data occurs with the help of an assistant.



The screenshot shows a software window titled "Create Goods Receipt Position" with a close button in the top right corner. The window is divided into two main sections. On the left, under the heading "Steps", is a list of four steps: 1. Unit Load Data, 2. Stock Data, 3. Lot Data, and 4. Quality. The right section is titled "Step 1 of 4" and contains the following fields and controls:

- Receipt type:** A dropdown menu currently showing "Standard intake".
- Identity Unit:** Two radio buttons. The first is "System generated label ID" and is selected. The second is "Identify existing label".
- LHM Id:** A text input field with a small icon to its left.
- Unit load type:** A text input field containing "EURO" and a small icon to its right.

At the bottom of the window, there are five buttons: "< Back", "Next >", "Finish", "Cancel", and "Help". The "Next >" button is highlighted with a blue border.

Create Goods Receipt Position

Steps

1. Unit Load Data
2. Stock Data
3. Lot Data
4. Quality

Step 2 of 4

Item Data

 Toner black

Advise

** Amount on unit load
 Pcs

Amount of identical unit loads

< Back Next > Finish Cancel Help

Create Goods Receipt Position

Steps

1. Unit Load Data
2. Stock Data
3. Lot Data
4. Quality

Step 3 of 4

☒ Choose Lot ☐ Create new Lot

Lot
 ...

Lot Number

Valid from Valid until

☐ Replace old

< Back Next > Finish Cancel Help



Detailed description of the terms used in the dialog:

Type of Goods Receipt: This can distinguish between normal goods receipt and return. Just for info.

Capture Unit Load: The system can generate a number for the unit load automatically. It may alternatively be entered a (unique) number.

Type of Unit Load: The type of the unit load.

Item: The item belonging to the selected advice.

Advice: The selected Advice.

Amount per Unit Load: The amount of stock that is recorded on each unit load.

Number of identical Unit Loads: Number of identical unit loads with the amount mentioned above.

Lot: You can select an existing lot or generate a new one.

Is there a lot setting in the advice then only this can be received.

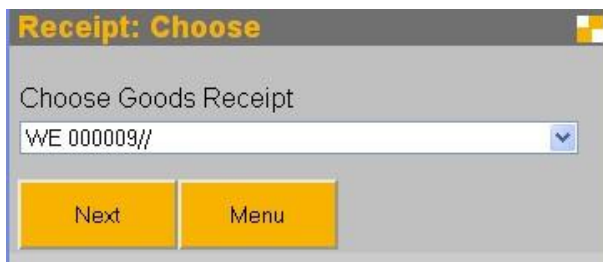
For material with a lot, the lot must be specified. For material with no lot the you can leave this field open.

Note: Here a text can be entered as hint for a lock. It is then visible in the dialog as 'QA Fault' in the goods receipt position of this item.

12.1.4. Mobile Dialog

As an alternative to stationary collection, a mobile dialogue with the same functionality is available. After logging on to the mobile application, select the menu item 'Goods Receipt'.

Here you get a list of all available unfinished goods receipts. Select from this list the goods receipt which is to be processed.



Receipt: Choose

Choose Goods Receipt

WE 000009//

Next Menu

Next, you need select the advice / item, to be collected.



Receipt: Advice

Advised Positions

14008712/—/200

Lot

Valid until

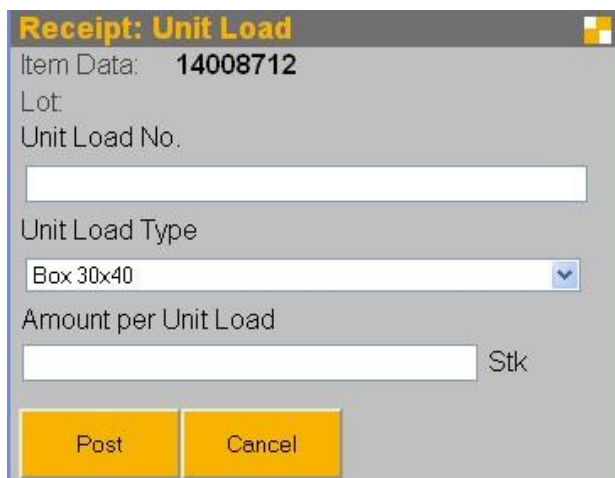
Next Cancel

In this screen you enter the lot as well.

If the lot is not yet known to the system, additional the validity / best-before date has also to be specified.

This information is not necessary for lots that are already known to myWMS LOS.

In the next step, the unit load data is requested.



Receipt: Unit Load

Item Data: 14008712

Lot:

Unit Load No.

Unit Load Type

Box 30x40

Amount per Unit Load

Stk

Post Cancel

Enter the barcode of the unit load into the field 'Unit Load No.'. If a new label should be generated

automatically, leave this field blank!
Select the unit load type from the list.

Furthermore, you have to enter the amount that is on one unit load. This amount is also used as the default value if several similar unit loads will be recorded.
With the function 'Post' a new unit load and stock will be generated.



Receipt: Summary	
Item Data:	14008712
Lot:	
Amount notified:	200 Stk
Amount to come:	-350 Stk
Processed Unit Loads:	1
Next Change data Finish	

In this screen you receive information about what has been received and what is still pending.
With the function '**Next**' another unit load is generated, which has the same parameters as the previous one.

The function '**Change data**' brings you back to the advice selection. There you can select a different advice / item to be received.

'**Finish**' completes the reception.

Note: This will not finish the process automatically (see next step).

12.1.5. Finish the Goods Receipt

In the stationary screen 'Goods Receipt' you are able to compare the entered items with the delivery note. By finishing the goods receipt, the data is confirmed and if necessary reported back to an ERP system. To check and finish a goods receipt open again the menu item 'Window – Goods Receipt'.

Select the goods receipt. All information of the goods receipt and the collection are displayed.
With '**Finish**' the operation is completed. It is possible to transmit the data to an external system.

12.1.6. Storage mobile

This dialog is used to store unit loads, which have been received in the goods receipt.
Alternatively, this dialogue can also be used to relocate already stored unit loads.
The p. i.e. the user chooses the unit load, scans it and places it onto the storage location.

Process flow of mobile storage:

After logging on to the mobile application, select the option 'Storage'.
First, the unit load is scanned.



Storage: Unit Load

Scan Unit Load

[Empty input field]

Next Menu

The system then searches for a suitable location. If no suitable location is found, a message is displayed and the unit load can not be stored at the moment. First free storage locations have to be made available.

The fact that myWMS LOS cannot find a suitable location for the unit load, although obviously free location are available, may depend on incomplete master data settings. In this case, check your settings to capacity constraints and unit load types.

In the next step enter the target location.



Storage: Destination

Unit Load 000014

[000014]

Scan Destination A1-011-1

[Empty input field]

☐ Add to existing Stock

Finish Cancel Close

Back

Normally, the proposed location is scanned. It may make sense for several reasons, not to pursue this proposal. You can scan any other location. That location is checked for validity and will be accepted as an alternative. If it is not valid, an error message is displayed.

In another situation, it may happen that the material should not be placed on a new storage location, but added to an existing unit load. To do this, select the field 'Add to existing stock' and scan the unit load as the target to which the material is added. Please note that you need to scan the unit load, NOT the storage location.

With the function '**Cancel**' the current storage order is cancelled.

12.2. Goods Receipt and direct Storage

The goods receipt with direct storage is a simplified process for receiving, for example, returns.

As in the standard goods receipt there is a comparison with advice data. The difference is that after receiving the material is stored directly. The separate process of storage is no longer necessary.

The storage in the process has its own storage strategies. The first searched storage location is a fix assigned picking location. To be stored on a different location, it has to be searched manually.

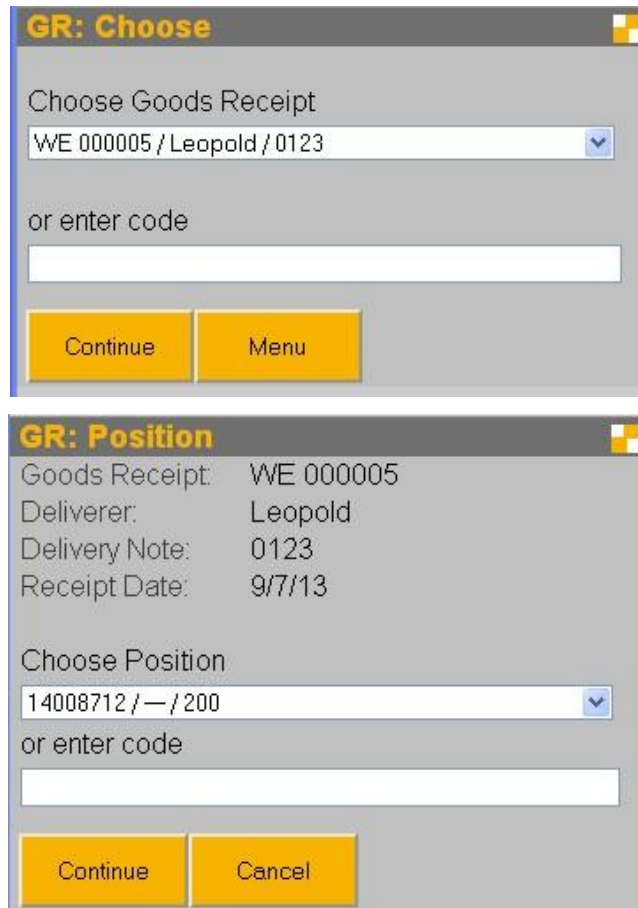
Advice: See standard goods receipt

Rough goods receipt: See standard goods receipt

Finishing: See standard goods receipt

12.2.1. Process Flow

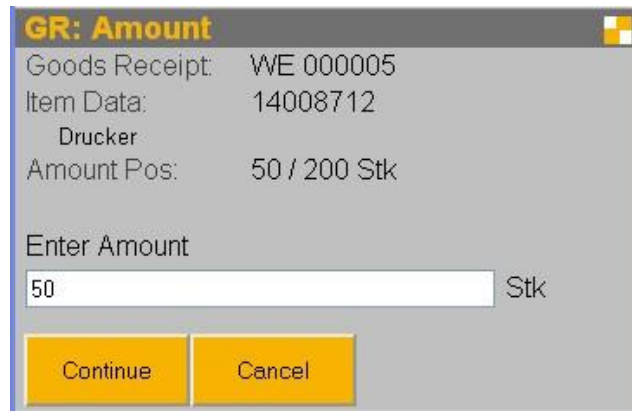
After logging on to the mobile application, select the option 'Goods Receipt & Storage'. First the goods receipt and received item have to be identified. For each entry the position is selected from the lists.



Alternatively it is possible to scan the goods receipt number, advice number or a material number (EAN / UPC code). The goods receipt is identified on the receipt number. The position is identifiable by the advice number or the external advice number.

It is also possible to scan an EAN code. In this case the choice is reduced to the EAN code matching operations.

Subsequently the amount is specified.



GR: Amount

Goods Receipt: WE 000005
Item Data: 14008712
Drucker
Amount Pos: 50 / 200 Stk

Enter Amount

50 Stk

Continue Cancel

Enter the quantity, that will be put to the fixed bin location or unit load.
Is there a fix assigned location for the material, it will be displayed in the next step. You have the option to add the material to that location..

You have two different modes: **'Store new UL'** and **'Add to UL'**.

If you select **'Store new UL'** the material is added to a new unit load and the unit load will be placed onto an available storage location. This is the default mode.

If you select **'Add to UL'** the material is added to an existing stock. Storage location and unit load are taken from the existing stock.

You can switch between that modes.

Store new UL:

For the generation of a new unit load, first enter the type of the unit load. Afterwards enter the label of the unit load.



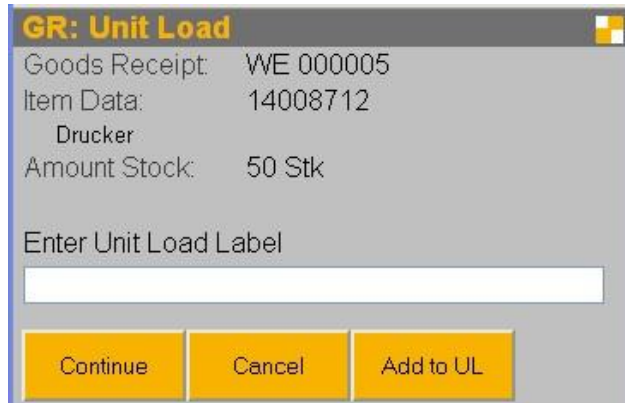
GR: Unit Load Type

Goods Receipt: WE 000005
Item Data: 14008712
Drucker
Amount Stock: 50 Stk

Enter Unit Load Type

EURO

Continue Cancel Add to UL



GR: Unit Load

Goods Receipt: WE 000005
 Item Data: 14008712
 Drucker
 Amount Stock: 50 Stk

Enter Unit Load Label

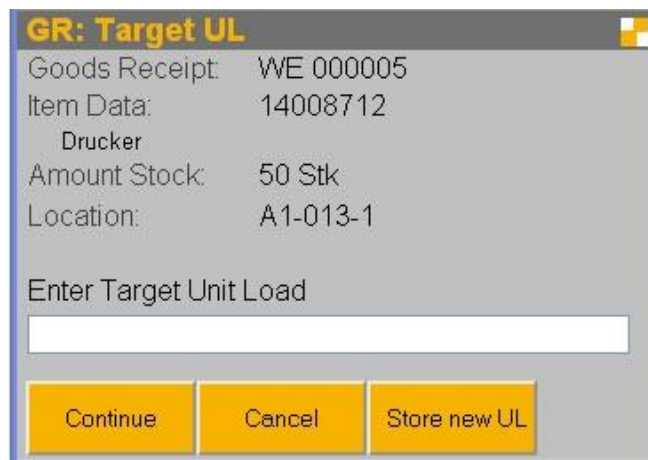
Continue Cancel Add to UL

If you leave the field for the unit load label empty, myWMS LOS will automatically generate a label. This has to be printed and attached to the unit load.

After entering the unit load label the storage location has to be found where the unit load is to be stored. By scanning the location, you give the information to myWMS LOS, where it is placed.

Add to UL:

With the function 'Add to UL' you can add the material to an already existing stock. For this scan the unit load, where the material should be added.



GR: Target UL

Goods Receipt: WE 000005
 Item Data: 14008712
 Drucker
 Amount Stock: 50 Stk
 Location: A1-013-1

Enter Target Unit Load

Continue Cancel Store new UL

12.2.2. Configuration

System Parameters

Changes in the parameters become active only after log in again.

GR_LIMIT_AMOUNT_TO_NOTIFIED: Only the advised amount can be received.

GRD_COLLECT_UNITLOAD_TYPE: Detection of unit load type. If set, the mask for detecting the unit load type displays. Otherwise, the default value (material or system) is displayed.

GRD_COLLECT_UNITLOAD_NO: Detection of the unit load number. The mask to capture the unit load number is displayed if set. Otherwise, the unit load numbers are automatically generated.

GRD_COLLECT_LOT_ALWAYS: Registration of the lot. If set a lot can be detected to each material. Otherwise, the mask opens only for material which needs a lot.

12.3. New Material and direct Storage

The generation of new material and direct storage is a highly simplified goods receipt process. In contrast to the other goods receipt processes, there is no advice handling. Therefore, there is only one mobile process for the complete handling.

12.3.1. Configuration

System Parameters

The same parameters as in the 'goods receipt with direct storage' are used.

12.3.2. Process Flow

After logging on to the mobile application, select the menu item 'access & storage of goods' First, the product to be received must be identified. This item is entered via the item number or EAN code. The further process is analogous to the '**Goods Receipt & Storage**'.



12.4. Data

12.4.1. Advice

The expected delivery is communicated through an advice. This advice can be passed automatically through an interface of an ERP system, or be entered manually. The dialog shows the currently available advice data.

Detailed description of the terms used in the dialog: Client: The client for which the delivered goods are determined. Advice-No.: A unique key. External Number: Any number for your own use. Advice Status: Processing status of the advice • Created • In Progress • Under Delivery • Over Delivery • Fulfillment Item Data: The advised item. Amount: The advised amount. Date of delivery: The date

when the delivery is expected. Lot: Optional. For material which needs a lot it can be specified in this field. Is there no default, the lot is recorded on the goods receipt. Delete old lot: The old lot of the article is locked when collecting the new batch. Delivered quantity: The amount already recognized. Open Quantity: The unrecognized amount. Positions of goods receipt: A list of items that have already been recorded to the selected Advice.

Description of functions:

Finish: The advice is marked as 'Fulfilled' in the current state of processing. No posting of material is initiated by this function. It is only possible if all current incoming transactions to the advice have been completed.

Remove: The Avis will be deleted. Deletion is only possible if no goods have been collected of this advice.

12.4.2. Goods Receipts

A goods receipt describes a delivery of materials. It will be based on the papers associated with the expected delivery in the delivery advice notes

Detailed description of the terms used in the dialog:

Client: The client for which the delivered goods are determined.

Number: A unique key.

External number: Any number for your own use.

Assigned Advices: List of assigned advices.

Positions: List of positions recognized to this process.

State: Processing status of goods receipt.

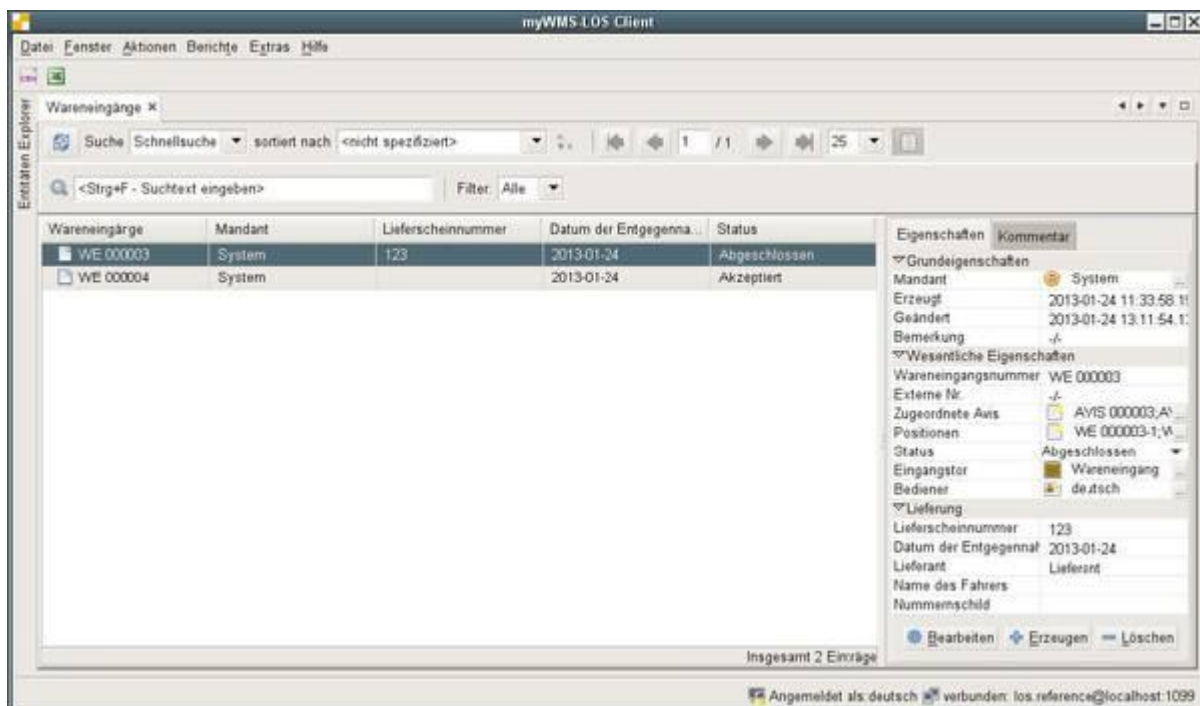
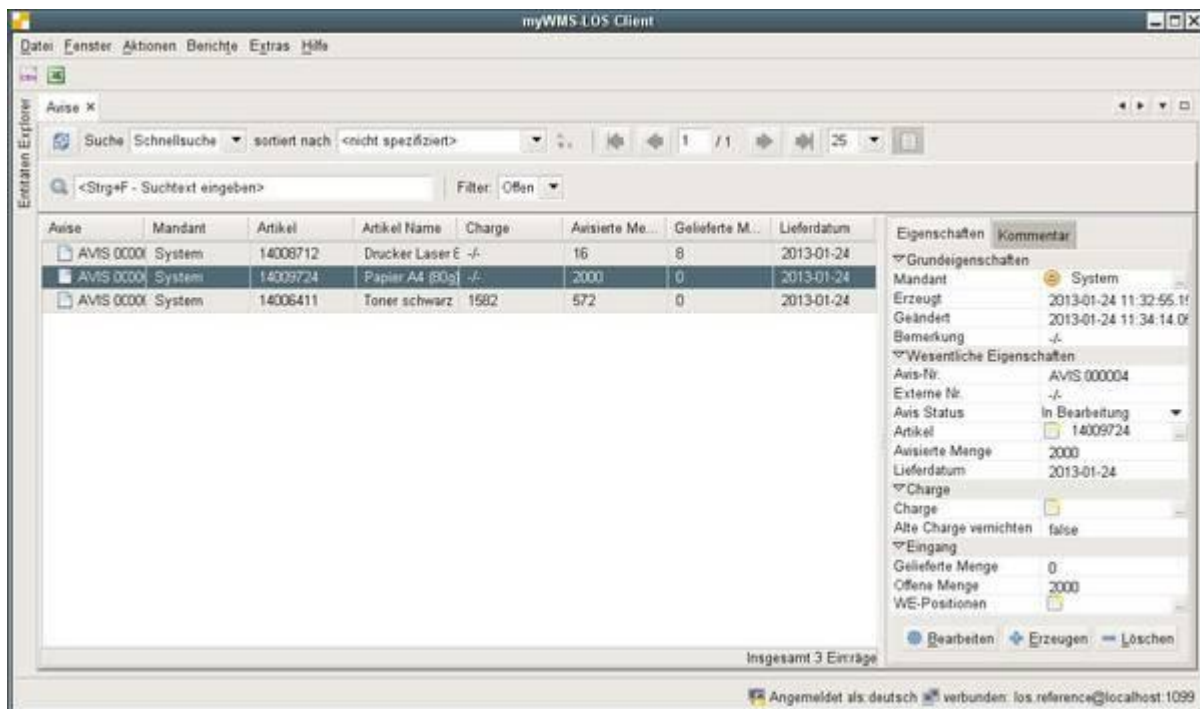
Location: A location that is associated with the receipt of goods. In this storage space new material is generated.

Operator: User who created the goods receipt.

Delivery: data that has been entered in the generation of goods receipt.

12.4.3. Positions of Goods Receipt

For each detected unit load in goods receipt, a position is created.



Detailed description of the terms used in the dialog:

Position Number: A unique key.

Goods Receipt: The corresponding goods receipt.

Advice: The associated Avis.

Type: Distinction between normal goods receipt and return. Just for info.

Item Data: The data of the collected item.

Lot: The name of the collected lot.

Amount: The collected amount on the unit load.

QA Lock: The lock indicator that was set for the collected inventory.

QA Fault: The optional description of the lock.

Unit Load: Number of the collected unit load.

Stock Unit: Internal number (ID) of the collected storage unit.

12.5. Configuration of Goods Receipt

System Parameters

GOODS_RECEIPT_PRINT_LABEL: Sets whether a label is to be printed (true / false).

GOODS_RECEIPT_PRINTER_NAME: The name of the printer on which the label is printed.

GOODS_RECEIPT_STORE_LABEL: Sets whether a label should be saved (true / false).

Caution! These global parameters do not dependent on the workstation. These are used in stationary and mobile editing.

GOODS_RECEIPT_LOCATION_DEFAULT: The default value for the incoming goods. There must be an existing warehouse space for incoming goods.

13. Outbound Processes

The outbound process is divided into several steps.

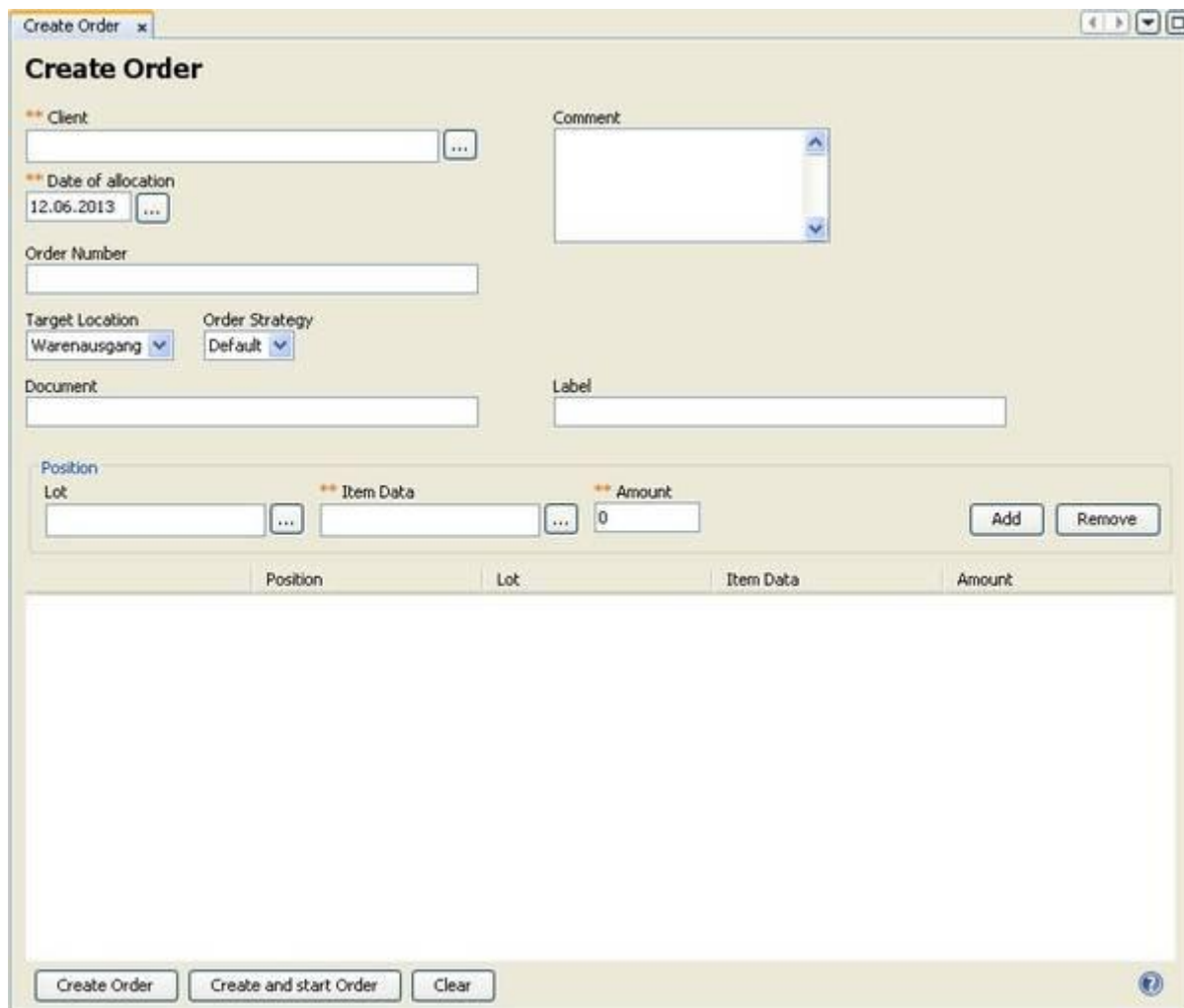
1. First, the customer orders are loaded into myWMS. This can be read automatically via an interface to an ERP system or be entered manually.
2. From these customer orders picking orders are composed.
3. The picked goods are merged to shipping orders.

13.1. Ordering from Stock

The first step of outbound processes is to create orders.

These can be automatically transferred via an interface of an ERP system or can be entered manually.

To manually create a stock order to open the menu item **'Window – Create Order'**.



Detailed description of the terms used in the dialog:

Client: Selection of the client whose goods are to be delivered.

Order Number: Enter a reference number for your order here. For example it can be a reference to an ERP system.

Target Location: Refers to the assembly location or goods out gate, on which the goods are to be provided.

Order Strategy: Select the strategy to process the order.

Document: Here you can add a particular document to the shipping documents by specifying the URL of a network resource.

Label: As the indication of a document, a special shipping labels can be provided as a network resource.

Item List: Use the item list to specify the items of the order. For this, select item data, lot, and amount and add this to the list.

Lot: Selection of the lot.

Item data: Selection of the item data.

Amount: Specify the desired amount

Description of functions:

Create Order: If all items of the order are entered, the order will be generated and sent to the

process 'Assemble Picking Order'. In the subsequent step, the picking order are assembled with manual optimization.

Create and Start Order: If all items of the order are entered, the order will be generated and automatically a picking order will be calculated.

13.2. Assemble Picking Order

Once an order has been written, it is possible to generate picking automatically. Alternatively, it is also possible to create the picking manually.

13.2.1. Automatic Creation of Picking Order

While receiving order from web service interface these are processed automatically, i.e. picking orders are generated. That is at least in the standard implementations of myWMS.

It can also be started later when entering the further order data by specifying additional parameters. Even so, several customer orders can be combined into one picking order.



Detailed description of the terms used in the dialog:

Priority: The priority of the picking order.

Target location: The target location of the picking order.

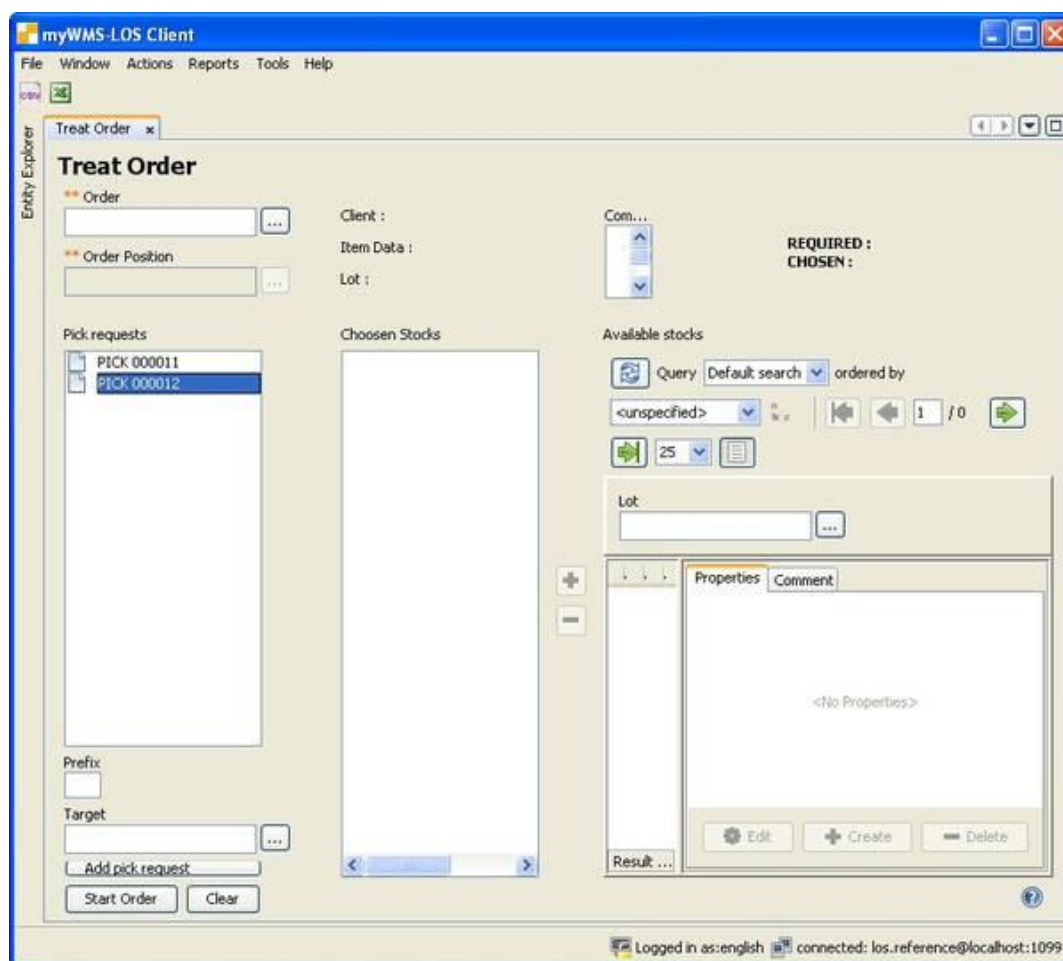
User: If a user is specified here, the picking order will be reserved for this user.

Release picking order: Picking orders are released directly for editing.

Picking Creation: The summary of the positions can be set here.

13.2.2. Manually create Picking Order

For manual assembled picking orders open the menu item *"Window – treat order"*.



Detailed description of the terms used in the dialog:

Order: Select the order to be picked. You'll only get pre-filtered orders, for which the manual assembly was provided. The associated client is automatically given by myWMS on the right.

Position: First select an order. myWMS will provide only the positions of the selected client. The item data, the lot and the amount information are displayed on the right. The available stock items are listed, showing lot, unit load, storage location and the available amount.

Prefix: To identify the picking order in the further processes, you can precede characters to the picking order.

After selection of the picking position or stock unit, you can select or deselect the stock units from which the ordered items should be picked.

Description of functions:

Start Order: Are all picking orders and positions processed, this action will start them.

13.3. Picking

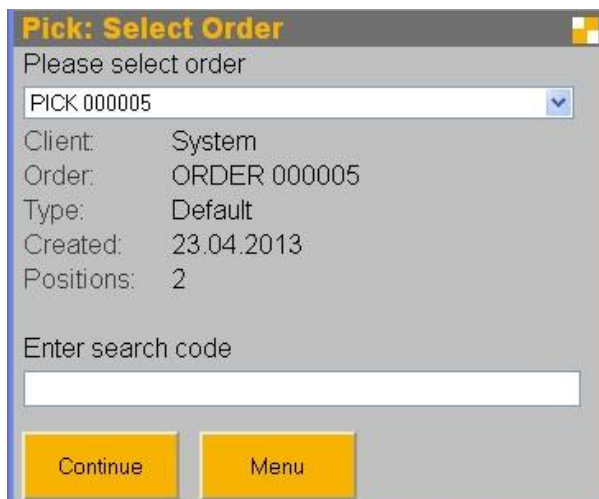
In logistics the process of putting together a customer order or a production order from different goods out of a whole assortment is called: Picking. A picker puts therefore the customer or production order together in a warehouse system.

With this window you can work on the picking order.

13.3.1. Process Flow

After login on the mobile application, select the function 'Picking'.

Here you get a list with all picking orders to select from, that have not been finished. Choose the one you want to process.



Pick: Select Order

Please select order

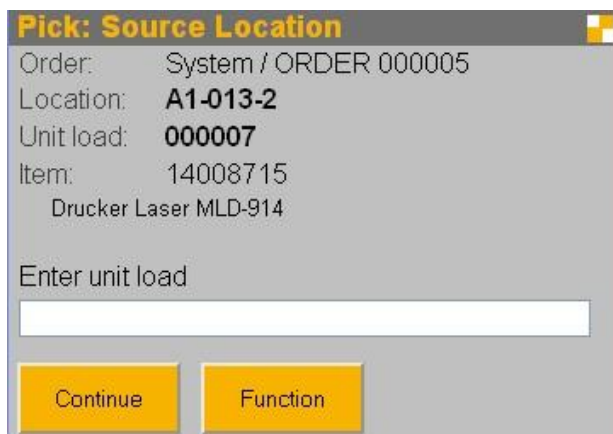
PICK 000005

Client: System
Order: ORDER 000005
Type: Default
Created: 23.04.2013
Positions: 2

Enter search code

Continue Menu

For the selected picking order, you will be guided optimal to the locations. First you have to identify the unit load from which will be picked.



Pick: Source Location

Order: System / ORDER 000005
Location: **A1-013-2**
Unit load: **000007**
Item: 14008715
Drucker Laser MLD-914

Enter unit load

Continue Function



Pick: Source Location

Order: System / ORDER 000005
 Location: **A1-013-2**
 Unit load: **000007**
 Item: 14008715
 Printer laser MLD-914

UL Complete

Cancel

Back < >

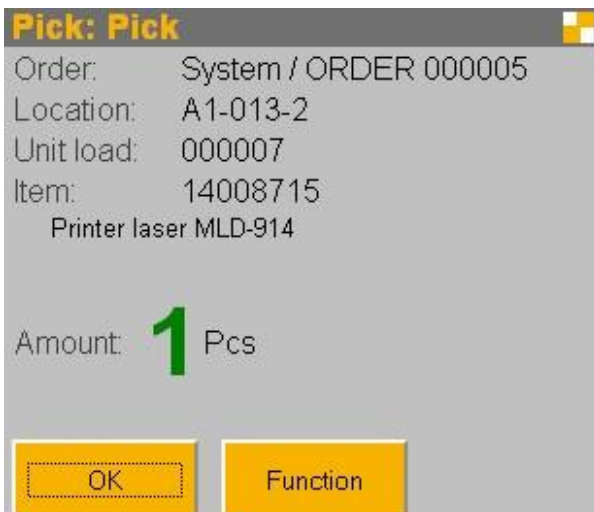
The button 'function' displays additional functions.

Previous, Next: Navigating in the positions of the picking order.

Unit Load Complete: The target unit load is full. You will be prompted to change the unit load
 For the remaining positions, a new picking order will be created.

Cancel: Cancel the processing of picking. This function is only active as long as no picking has been posted.

In this mask the picker confirms the picking.

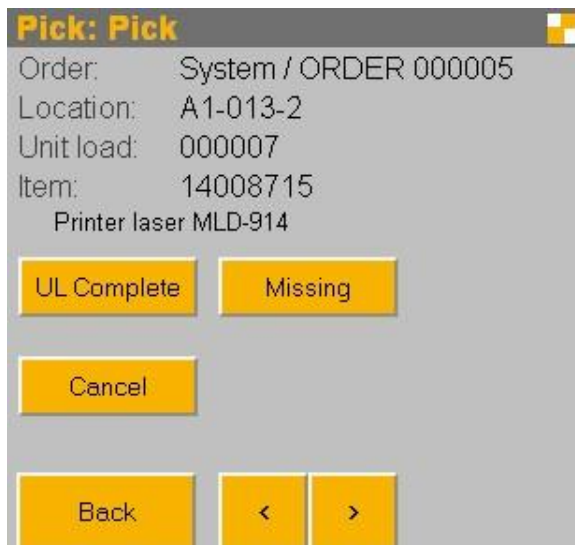


Pick: Pick

Order: System / ORDER 000005
 Location: A1-013-2
 Unit load: 000007
 Item: 14008715
 Printer laser MLD-914

Amount: **1** Pcs

OK Function



Pick: Pick

Order: System / ORDER 000005
 Location: A1-013-2
 Unit load: 000007
 Item: 14008715
 Printer laser MLD-914

UL Complete Missing

Cancel

Back < >

The button 'function' displays additional functions.

Previous, Next: Navigating in the positions of the picking order.

Unit Load Complete: The target unit load is full. You will be prompted to change the unit load. For the remaining positions, a new picking order is created.

Cancel: Cancel the processing of picking. This function is only active as long as no withdrawal has been posted.

Missing: Select this function if there is not enough material. You will then be prompted to enter the picked amount.

After all items have been processed, the user is asked to bring them to the target location.



Pick: Target Location

Order: System / ORDER 000005
 Unit load: 000013
 Target Location: **Goods-Out**

Enter Target Location

Continue Label

After scanning the target location the picking is finished.

Using the function '**Label**', a label for the picking unit load can be read, generated or printed.

With scanning the printer, the label can be printed on this printer.

Note! In the configuration of the server must be ensured that the content of the scanned code printer is the name of a suitable printer. The default print format is PDF.

Pick: Label

Order: System / ORDER 000005
Unit load: 000013

Scan Label

Pick: Printer Selection

Order: System / ORDER 000005
Unit load: 000014

Scan Printer

Special procedures:

If there are items with serial number handling, the picker is asked to enter the picked serial number.

13.4. Shipping

Pick: Serial

Order: System / ORDER 000009
Location: A1-013-2
Unit load: 000007
Item: 14008715
Printer laser MLD-914
Amount: **1 / 2**

For this item serial numbers have to be recorded.
Enter one for every picked item.

Enter Serial Number

 Pcs

Accordingly, whether it is an internal, such as for production, or external picking, shipping of the picked goods is done or not. You get a list of all unfinished shipping orders to choose from. Choose from this list the shipping order that should be processed.

13.4.1. Process Flow

After logging on to the mobile application, select the function 'Shipping'.

Here you get a list of all unfinished shipping orders to choose from. Choose from this list of the shipping order that should be processed.



In the title bar is indicated how many unit loads belong to the shipping order and how many you have already scanned.



In this screen there is always displayed a unit load belonging to the shipping order. It is not imperative that you work through the unit loads in the proposed order. You can use any unit load, belonging to the shipping order. If you scan a unit load, which is not part of the shipping order, an appropriate error message will be displayed.

This screen is displayed again until all unit loads were scanned.

The function 'Info' will always bring more information about the current shipping order.



After finishing all unit loads of the shipping order, a conclusion screen is shown.

13.4.2. Configuration

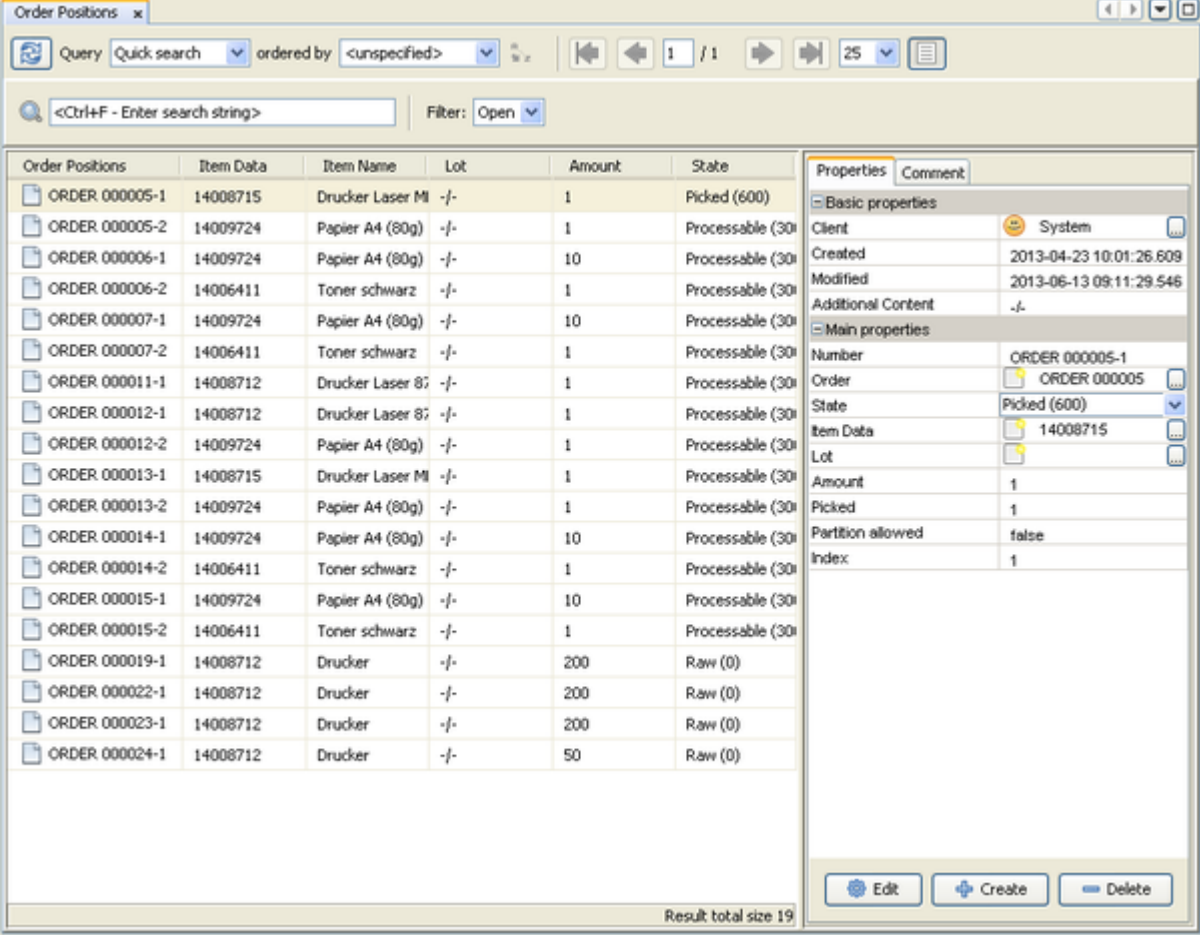
System Parameters

SHIPPING_RENAME_UNITLOAD: Unit loads are renamed during shipping. This is necessary if unit load is to be reused.

SHIPPING_LOCATION: Unit loads which are ready for shipping are transferred to this (logical) storage location. If no value is specified, no transfer.

13.5. Data

13.5.1. Orders + Positions



Order Positions	Item Data	Item Name	Lot	Amount	State
ORDER 000005-1	14008715	Drucker Laser M	-/-	1	Picked (600)
ORDER 000005-2	14009724	Papier A4 (80g)	-/-	1	Processable (30)
ORDER 000006-1	14009724	Papier A4 (80g)	-/-	10	Processable (30)
ORDER 000006-2	14006411	Toner schwarz	-/-	1	Processable (30)
ORDER 000007-1	14009724	Papier A4 (80g)	-/-	10	Processable (30)
ORDER 000007-2	14006411	Toner schwarz	-/-	1	Processable (30)
ORDER 000011-1	14008712	Drucker Laser 87	-/-	1	Processable (30)
ORDER 000012-1	14008712	Drucker Laser 87	-/-	1	Processable (30)
ORDER 000012-2	14009724	Papier A4 (80g)	-/-	1	Processable (30)
ORDER 000013-1	14008715	Drucker Laser M	-/-	1	Processable (30)
ORDER 000013-2	14009724	Papier A4 (80g)	-/-	1	Processable (30)
ORDER 000014-1	14009724	Papier A4 (80g)	-/-	10	Processable (30)
ORDER 000014-2	14006411	Toner schwarz	-/-	1	Processable (30)
ORDER 000015-1	14009724	Papier A4 (80g)	-/-	10	Processable (30)
ORDER 000015-2	14006411	Toner schwarz	-/-	1	Processable (30)
ORDER 000019-1	14008712	Drucker	-/-	200	Raw (0)
ORDER 000022-1	14008712	Drucker	-/-	200	Raw (0)
ORDER 000023-1	14008712	Drucker	-/-	200	Raw (0)
ORDER 000024-1	14008712	Drucker	-/-	50	Raw (0)

Result total size 19

Description of functions:

Start: Starts the calculation of picking

Finish: The order will be completed in the current state of processing. No posting of material is initiated by this function.

Remove: The order is deleted.

Print documents: Start printing the documents of the order. It can be specified which documents are to be issued on which printers. Alternatively the documents can be stored.

Print documents

☐ Save receipt

Verzeichnis
 ...

☒ Print receipt

☐ Print external documents

URL

URL

Printer

OK Cancel

myWMS-LOS Client

File Window Actions Reports Tools Help

Order Positions x

Query Quick search ordered by <unspecified> 1 / 1 25

<Ctrl+F - Enter search string> Filter: Open

Order Positions	Item Data	Item Name	Lot	Amount	State
ORDER 000003	14008712	Printer laser 8712	-/-	1	Picked (600)
ORDER 000004	14008712	Printer laser 8712	-/-	1	Processable (300)
ORDER 000004	14009724	Paper letter (80g)	-/-	1	Processable (300)
ORDER 000006	14009724	Paper letter (80g)	-/-	10	Processable (300)
ORDER 000006	14006411	Toner black	-/-	1	Processable (300)
ORDER 000007	14009724	Paper letter (80g)	-/-	10	Processable (300)
ORDER 000007	14006411	Toner black	-/-	1	Processable (300)
ORDER 000009	14008715	Printer laser MLD-914	-/-	2	Picked (600)

Properties Comment

Basic properties

Client System

Created 2013-06-18 11:21:51.968

Modified 2013-06-18 11:21:52.031

Additional Content -/-

Main properties

Number ORDER 000004.2

Order ORDER 000004

State Processable (300)

Item Data 14009724

Lot

Amount 1

Picked 0

Partition allowed false

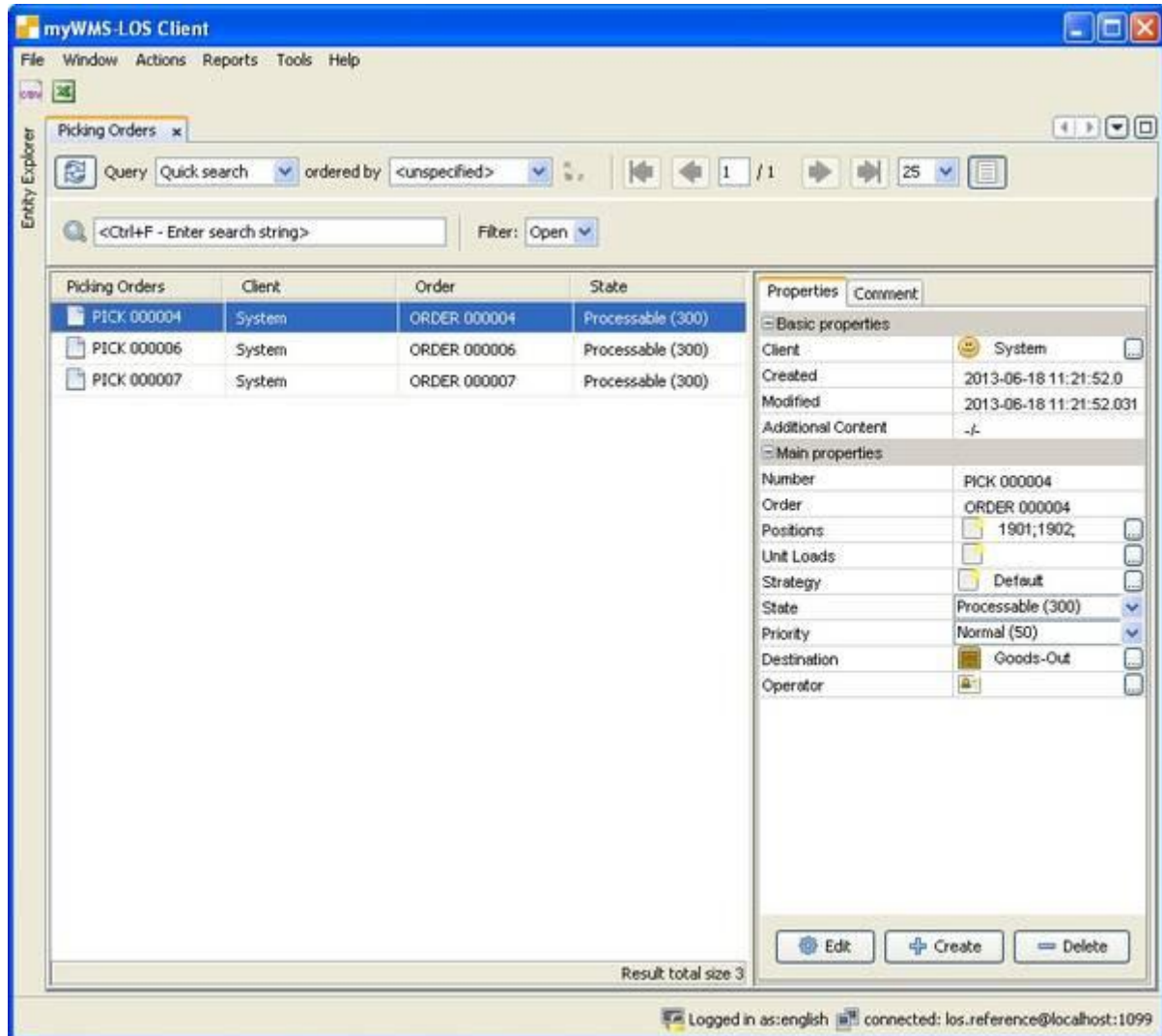
Index 2

Edit Create Delete

Result total size 8

Logged in as: english connected: los.reference@localhost:1099

13.5.2. Picking Orders + Positions + Unit Loads



Description of functions:

Halt/Release: Stopping of picking is only possible as long as it is not reserved or in progress. Paused orders do not appear in selection lists of the handsets.

Finish: The order will be completed in the current state of processing. No posting of material is initiated by this function.

Remove: The order is deleted.

Change Properties: Some parameters can be changed for a picking order.

Change Picking Order Properties

☒ Priority

☒ Destination ...

☒ User ...

myWMS-LOS Client

File Window Actions Reports Tools Help

Picking Positions x

Query Quick search ordered by <unspecified> 1 / 1 25

<Ctrl+F - Enter search string> Filter: Open

Picking ...	Picking ...	Item Data	Item Na...	Amount	Location	State
1902	PICK 000004	14009724	Paper letter	1	P1-011-1	Processable (3)
1905	PICK 000006	14009724	Paper letter	10	P1-011-1	Processable (3)
1907	PICK 000007	14009724	Paper letter	10	P1-011-1	Processable (3)
1901	PICK 000004	14008712	Printer laser	1	A1-011-2	Processable (3)
1906	PICK 000006	14006411	Toner black	1	A1-021-2	Processable (3)
1908	PICK 000007	14006411	Toner black	1	A1-021-2	Processable (3)

Result total size 6

Properties Comment

Basic properties

Client System

Created 2013-06-18 11:21:52.156

Modified 2013-06-18 11:21:52.187

Additional Content -/-

Main properties

Picking Order PICK 000006

Order Position ORDER 000006-2

State Processable (300)

Item Data 14006411

Amount 1

Picked 0

Location A1-021-2

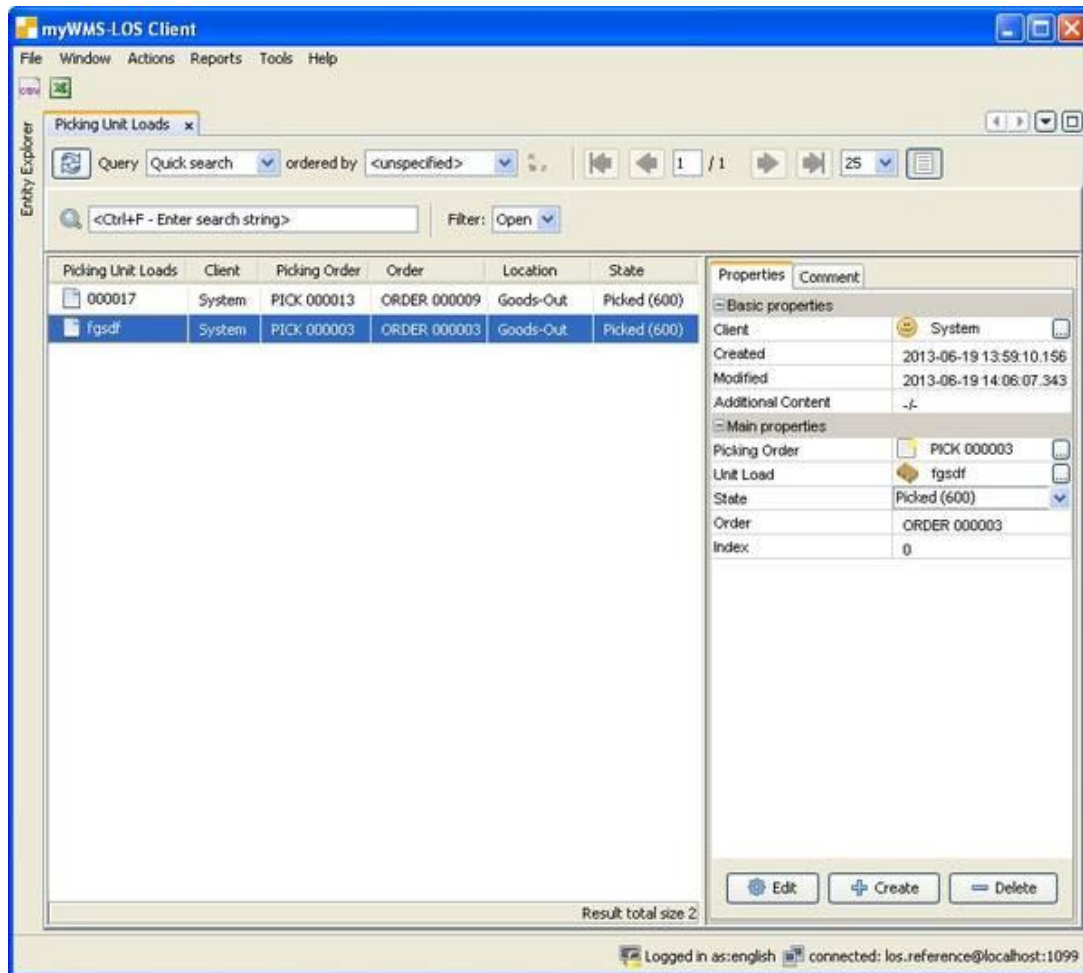
Unit Load 000008

Picking Type Pick

Pick-To Unit Load

Unit Pcs

Logged in as: english connected: los.reference@localhost:1099

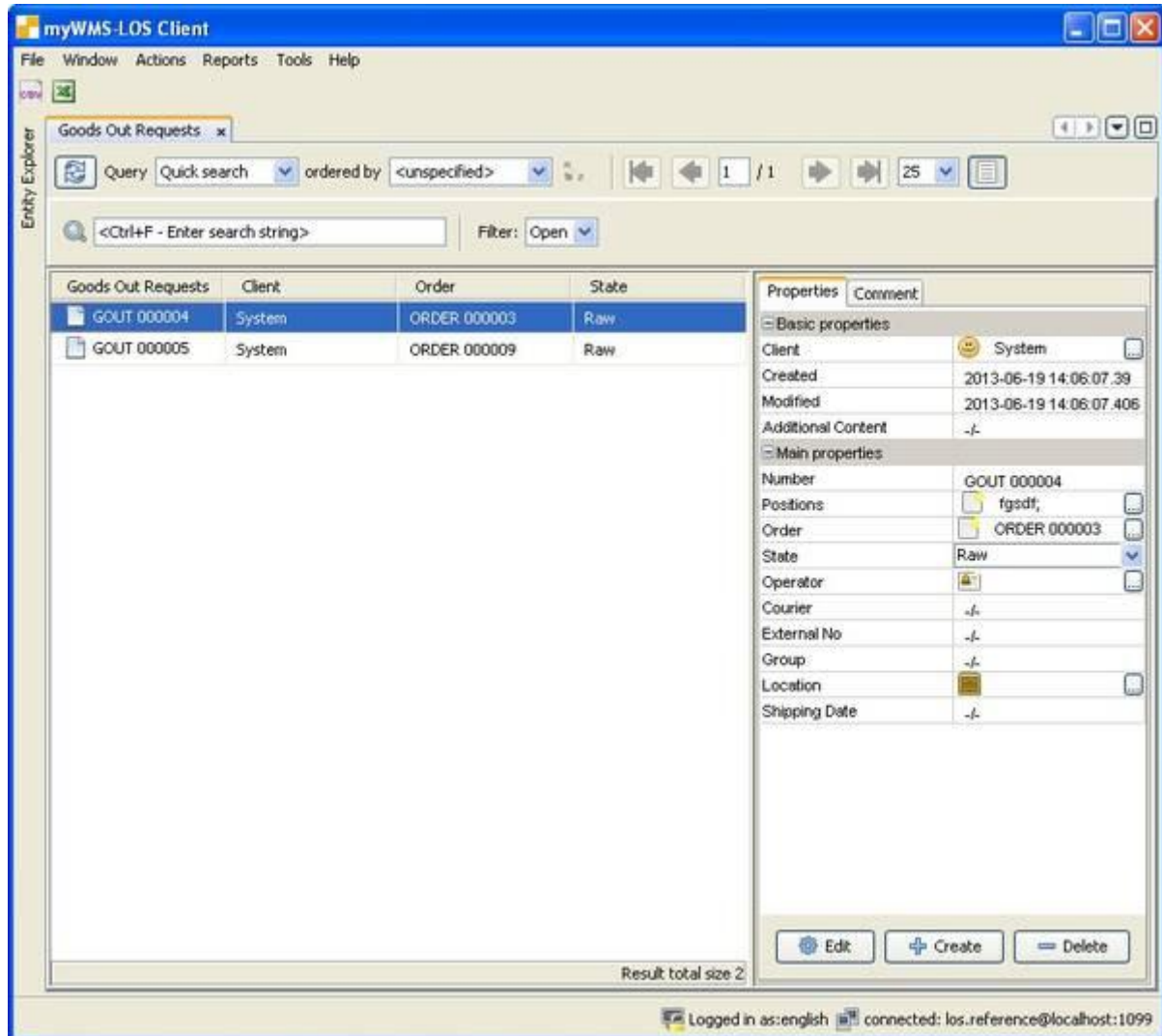


Description of functions:

Finish: The order will be completed in the current state of processing. No posting of material is initiated by this function.

Create shipping order: Manually creating a shipping order for the picking unit load. This is only possible if there is no shipping order for the picking unit load and it's not done yet.

13.5.3. Shipping Orders + Positions

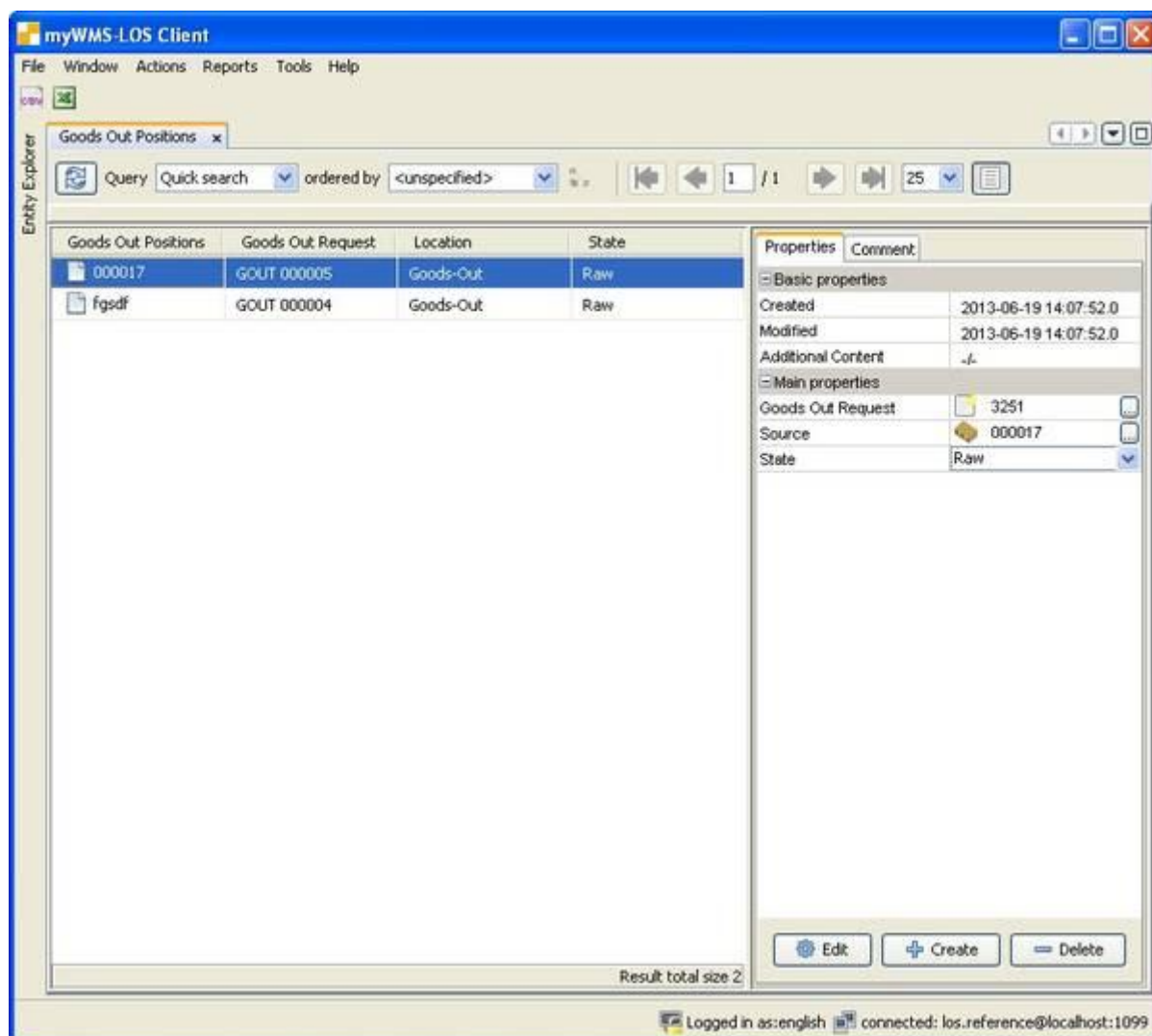


Description of functions:

Confirm: The shipping order will be completely receipt to the default values.

Finish: The order will be completed in the current state of processing. No posting of material is initiated by this function.

Remove: The order is deleted.



14. Internal Processes

14.1. Info

The mobile information dialogs displays current information about stock units. Scan a barcode and the system shows what it knows about it. Based on the input the system searches for storage locations, unit loads and item data.

Info: Order

Client: System
Order: ORDER 000007
Type: Default
State: Processable (300)
Positions: 2
Target: Goods-Out

[Back](#) [<](#) [>](#)

Info: Location

Location: A1-021-1
Type: Pallet
Fixed Loc.:
[Content](#): 000003

[Done](#) [Back](#)

Info: Unit Load

[Location](#): A1-021-1
Unit Load: 000003
Type: EURO
[Content](#): 1 Stock
Order:

[Done](#) [Back](#)

Info: Stock

[Location](#): A1-021-1
[Unit Load](#): 000003
[Item Data](#): 14009725
Paper letter (120g)
Amount (Res): 200 Pack
Lot:
Order:

[Done](#) [<](#) [>](#)

Info: Item

Item Data: 14009725
 Paper letter (120g)
 Unit: Pack
 Lot: No
 Serial-No.: No
 Fixed Loc.: P1-012-1
 Zone: A
Stock: 2 Stocks

Done Back

Info: Item

Item Data: 14009725
 Paper letter (120g)
 Paper letter, 100 g/qm

Back

14.2. Replenishment

The replenishment is the transport of goods within the warehouse or location to provide the resources at strategic locations in the optimal amount. By a manual input, you have the opportunity to order new material. The processing is performed with the picking process.

The automatic replenishment ensures that appropriate configured storage locations are refilled when the amount if fallen below the minimum amount.

Configuration of the storage locations:

- The storage location must be a fixed assigned picking location.
- The attribute 'Amount' of the fixed location assignment shows the amount, that should be there after refill.
- If the amount is below 25% of this nominal amount, a replenishment order will be generated.

Example

The storage location A1-123-1 has a fixed assignment to item A1.

The nominal amount is 200 pieces. While picking the stock is reduced to the amount of 50. Than a new replenish order is generated.

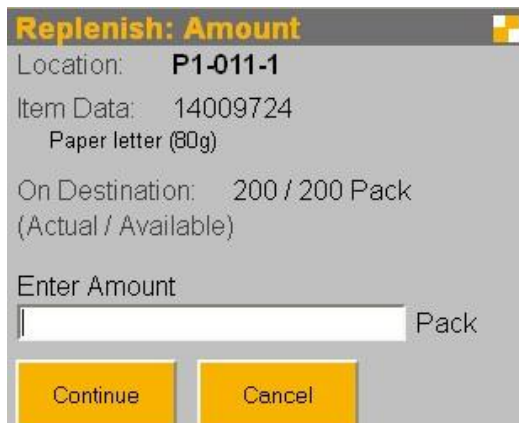
14.2.1. Request Replenishment mobile

After login on the mobile application, select the option 'Replenish Request' aus.

First you have to identify the storage location to search for replenishment.

Subsequently, the location is checked and you will see the associated item. You have now the opportunity to enter an amount. if you specify a value, the system tries to request the amount you

entered. If you leave the field blank, the system tries to request the amount that is required to refill the location as indicated in the master data.



Replenish: Amount

Location: **P1-011-1**

Item Data: 14009724
Paper letter (80g)

On Destination: 200 / 200 Pack
(Actual / Available)

Enter Amount

Pack

Continue Cancel



Replenish: Location

Location:

Item Data:

Enter Location

Continue Menu

14.2.2. Request Replenishment stationary

With the menu item 'Actions – Replenish Pick Locations' myWMS will check all fix assigned picking locations.

Is somewhere the amount below the minimum amount, a replenish order for this location will be generated.

14.2.3. Replenishment Processing

After logging on to the mobile application, select the menu item "Replenish Process" aus. First you need to select the order to be processed. You will then be guided to the storage location, where the material has to be taken from. Scan the unit load from which the material will be picked.

Replenish: Source

Location: **A1-011-1**
Unit load: **000001**
Destination: P1-011-1
Item Data: 14009724
Paper letter (80g)

Enter Source Unit Load

Continue **Cancel**

Replenish: Select

Select order
P1-011-1 (A1-011-1) ▼

Source: A1-011-1
Destination: P1-011-1
Item Data: 14009724
Paper letter (80g)

Enter search code

Continue **Menu**

Now pick the material from the source location. You can decide whether the complete unit load or a partial amount is taken. For your support, the current amount at the target location, the amount that may be currently added on the target location and what amount has been requested for, will be displayed.

Replenish: Source

Location: **A1-011-1**
Unit load: **000001**
Destination: P1-011-1
Item Data: 14009724
Paper letter (80g)

Requested: 30 Pack
On Destination: 200 / 200 Pack
(Actual / Available)

Picked Amount

 Pack

Continue **Back**

Replenish: Pick

Location: **A1-011-1**
Unit load: **000001**
Destination: P1-011-1
Item Data: 14009724
Paper letter (80g)
Requested: 30 Pack
On Destination: 200 / 200 Pack
(Actual / Available)

Complete UL

Enter Amount

Then the material is added to the material on the target location. Confirm this by scanning the label of the target location.

Replenish: Destination

Source: A1-011-1
Unit load: 000001
Destination: **P1-011-1**
Artikel: 14009724
Paper letter (80g)
Requested: 30 Pack
Picked: 30 Pack
Enter Target Location

Continue

Cancel

14.3. Stocktaking

The module stocktaking of myWMS LOS is used to perform physical inventory counts. In general, it is storage location related. That is, the counting unit is the storage location. A storage location has always to be counted completely.

14.3.1. Forms of Stocktaking

The module supports various forms of stocktaking.

Initial: With the initial stocktaking new material is introduced to myWMS. This is mainly the introduction of the warehouse management. But it can also be used to collect new stocks that are not collected through the normal receiving.

Annual: The annual stocktaking will examine the available storage locations on a reference completely.

Permanent: In the permanent stocktaking, all locations are counted during a period and all movements are recorded in a log.

The advantage is that

- a) not everything has to be counted on an appointed date and
- b) the counting can take place if it means little effort (empty space counting)

14.3.2. Procedure

The procedure for the various forms of stocktaking is very similar.

Create counting orders: First create counting orders for storage locations. For this you can use different criteria. Depending on the shape of the current planned job, appropriate criteria such as: clients, areas, locations, items, last counting date, ... can be entered.

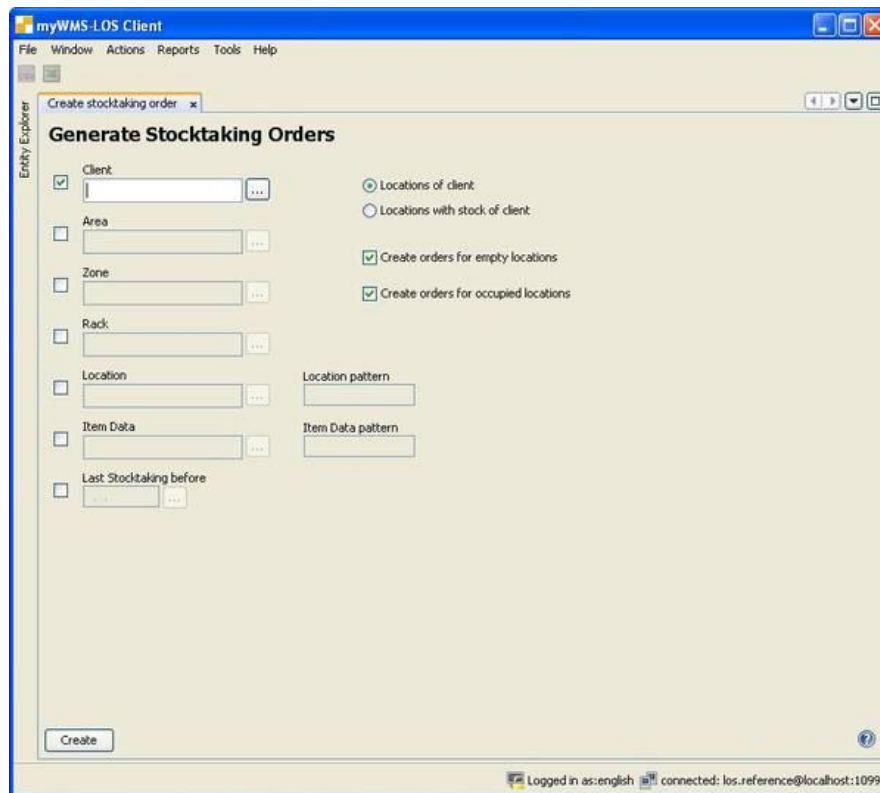
Process counting orders: The processing of the counting orders is done with mobile terminals. With the help of a handheld devices, the unit loads and stocks are checked directly to the storage locations.

Stationary postprocessing: If there were differences in mobile counting, these orders appear in the mask with an appropriate indicator. Here it is decided whether the count is so accepted, or the storage location should be counted again.

14.3.3. Create Counting Order

Start the screen in the menu folder **"Tools – Stocktaking"**.

Counting orders are created with different criteria. Orders are generated for locations where all the provided criteria meet. Should one criteria not be used, it can be disabled with the option button.



Detailed description of the terms used in the dialog:

Client: Only locations are used, which are dedicated to the specified client.

Area: Only locations are used, which are in the specified area.

Zone: Only locations are used, which are in the specified zone.

Rack: Only locations are used, which are in the specified rack.

Location: Only the specified location is used.

Location pattern: Give a pattern for the names of the locations, which should be counted.

The pattern is evaluated as a SQL LIKE operation (% = any character, ? = one character)

Item Data: All locations are used, where this item data is known to be.

Here you can use the pattern as well.

Last Stocktaking before: Only locations are used, which have not been counted after the specified date.

Create orders for empty locations: Here you can decide, whether locations could be counted that are known as empty.

Create order for occupied locations: Here you can decide, whether locations could be counted that are known as occupied.

14.3.4. Process Counting Order

To process the counting orders, use the mobile devices.

Only locations can be counted which have open counting orders. The selection of the orders is done manually.

Process flow:

After login on the mobile application, select the option '*Stocktaking*'.

In a multi-client system, you will be prompted to enter a client.

The screenshot shows a mobile application screen titled "Stocktaking: Client". It features a text input field labeled "Enter Client" with a white background and a grey border. Below the input field are two yellow buttons with black text: "Continue" on the left and "Menu" on the right. The screen has a grey background and a dark grey header bar with the title in yellow.

With this input the following process is limited to the entered client. You will only get locations which are owned by the chosen client. All entered stocks will be dedicated to this client.

With this input the following process is limited to the entered client. You will only get locations which are owned by the chosen client. All entered stocks will be dedicated to this client.

The screenshot shows a mobile application screen titled "Stocktaking: Location". It displays the text "Location: A1-011-1" in a bold black font. Below this is a text input field labeled "Scan Location" with a white background and a grey border. At the bottom are two yellow buttons with black text: "Count Loc." on the left and "Menu" on the right. The screen has a grey background and a dark grey header bar with the title in yellow.

A stocktaking counting always relates to a complete location. Are there any errors, the complete location has to be counted again.

Enter one unit load on the location.



Stocktaking: Unit Load

Location: A1-011-1

Unit Loads: -

Scan Unit Load

Count UL Loc. finished Cancel

Are there one or more unit loads on the storage location, identify them by scanning and select the function '**Count UL**'. Then you can enter the stock units on the unit load.

When selecting the function '**Loc. finished**' the counting of the storage location is closed. If no unit loads have been entered, the location is marked as empty.

Enter now the amount of the item on the unit load.



Stocktaking: Count Stock

Location: A1-011-1

Unit Load: 000001

Stock Unit: 1 / 1

Item Data: 14009724

Enter amount

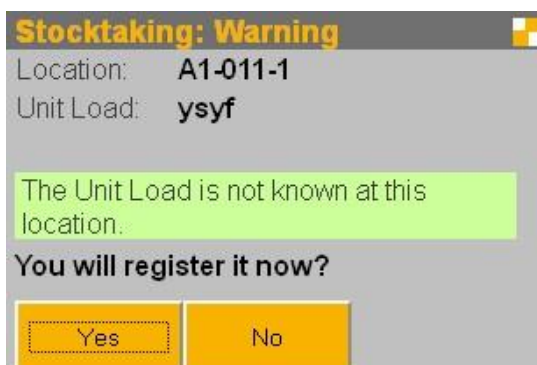
Pack

UL finished Next stock Cancel

Now you can finish the counting of the unit load or can select the next item in case of a mixed unit load.

Special procedures:

Acquisition of a new unit load.



Stocktaking: Warning

Location: A1-011-1

Unit Load: ysyf

The Unit Load is not known at this location.

You will register it now?

Yes No

This inquiry is made if an unknown unit load is detected. In this case, the unit load will be captured newly.

Detection of a new unit load type:



Stocktaking: Unit Load

Location: A1-011-1

Unit Loads: 1

Scan Unit Load

Box 60x40

Count UL Loc. finished Cancel

For a newly captured unit load first the appropriate unit load type must be specified.

Capture of the article of the unit load:



Stocktaking: New Stock

Location: A1-011-1

Unit Load: Box 60x40

Stock Unit: 1

Enter Item Data

14006413

Continue Cancel

Special functions:

Function 'Recount': For the selected locations, new counting orders are generated.

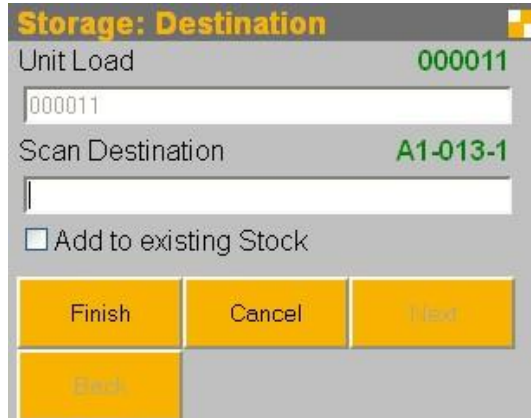
Function 'Accept count': The selected orders are confirmed. All necessary postings are done.

Function 'Remove order': The selected orders are removed. They are not confirmed. Locks are removed.

14.4. Stock Transfer

To change the current storage location of a unit load, the mobile process 'Storage' can be used .

After scanning the unit load, a new storage location is proposed. This can be accepted or it is possible to search an appropriate location manually.



The dialog box is titled "Storage: Destination" in a yellow header bar. It contains the following fields and controls:

- Unit Load:** A label followed by the value "000011" in green. Below it is a text input field containing "000011".
- Scan Destination:** A label followed by the value "A1-013-1" in green. Below it is an empty text input field.
- Add to existing Stock:** A checkbox that is currently unchecked.
- Buttons:** A row of three yellow buttons labeled "Finish", "Cancel", and "Help". Below the "Finish" button is a single yellow button labeled "Back".

14.5. Transfer Unit Load

This window serves to clear up the storage. Choose the menu item 'Actions – Transfer Unit Load' in order to transfer the goods on another loading device.

Detailed description of the terms used in the dialog:

Unit load: Enter the unit load that has to be relocated.

Destination location: The location where the goods are placed.

Ignore lock of location: The lock of the storage location is ignored.

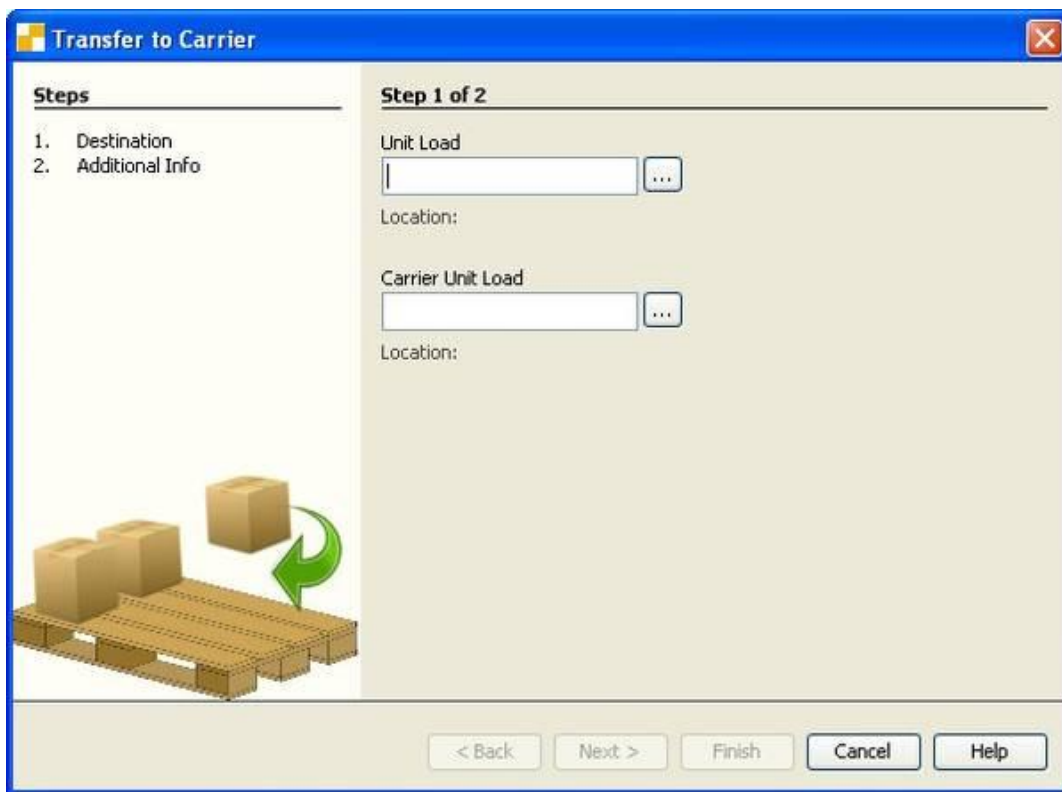
Remove Reservation: The reservation for a unit load is cancelled. For example due to a placed order of goods.

14.6. Transfer to Carrier

Transferring a unit load onto a carrier.

Choose the menu item '**Actions – Transfer to Carrier**'.

myWMS allows you to transfer a unit load on a carrier.



Detailed description of the terms used in the dialog:

unit load: The unit load to be transferred.

carrier unit load: The carrier, to which the unit load is transferred.

14.7. Transfer Stock Unit

This window usually helps to “Clean up” the stock. One stock unit can be placed to another unit load.

The menu item '**Actions – Transfer Stock Unit**' opens a new window where a stock unit can be assigned to another unit load.



Transfer Stock Unit

Steps

1. Destination
2. Additional Info

Step 1 of 2

Stock Unit:

Item Data:

Amount:

Unit load:

Location:

☐ Remove reservation from Stock Unit

☐ Unlock Stock Unit

Destination Unit Load:

Location:

< Back Next > Finish Cancel Help

Detailed description of the terms used in the dialog:

Stock unit: Enter the stock unit to be relocated.

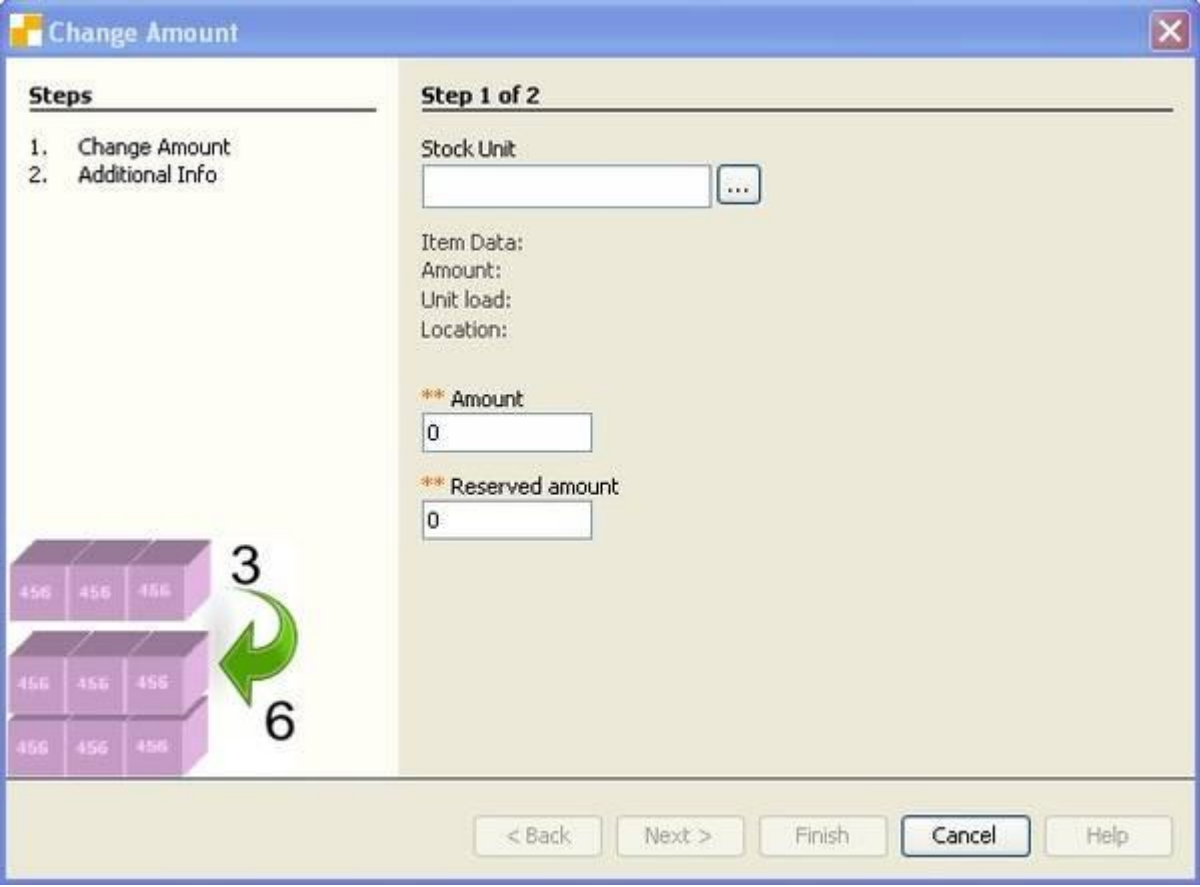
Remove reservation from stock unit: The reservation of the stock unit is removed for example due to a placed order of goods.

Unlock stock unit: The lock of the stock unit is removed for example due the validity of a lot.

Destination unit load: The unit load on which the stock unit will be placed.

14.8. Change Amount

The menu item '**Actions – Change Amount**' opens a window where the amount of goods saved within the system can be adjusted with the actual amount of goods.



Detailed description of the terms used in the dialog:

Stock unit: Choose the stock unit that has to be checked.

Amount: Enter the currently existing amount of stock unit that has been found.

Reserved amount: The system indicates automatically how much of the stock is reserved.

14.9. Lot lock, unlock

The menu item '**Actions – Lot lock / unlock**' causes to examine all lots to determine whether the 'Use not after'-date is exceeded or the 'Use not before'-date is reached.

Lots which reached their valid-to date are locked with an indicator for Lot exceed (202).

Lots that have so far be locked with an indicator for Lot not valid (203) and have reached their valid-from-date will be unlocked.

Glossary

Administrator

An administrator is the person responsible for managing a multi-user computer system, communication system, or both. The duties of an administrator include the assignment of user accounts and passwords, setting the security levels for system access, allocation of storage space and protection of your system from unauthorized access.

Article

an article describes the special shape or form of a product.

Item Unit

An item unit is the smallest sales unit or smallest package size.

Order Status

An order can be finished, picked, processed

Create Order

If all items of the order are entered, this order will be transferred to the procedure "put stock order together" via this selection. In the subsequent step, the picking orders can be put together after optimization criteria manually.

Advice

A delivery advice is an announced warehouse or goods receipt.

User

Each user has a defined user profile. Here the basic features, the lock indicator, the contact information and the credentials are set.

User Role

Each user is assigned a particular user's role in the myWMS LOS. Due to this there will be editing and viewing restrictions made. It is possible to define several different user roles such as the administrator, the clerk, the client, etc..

Order type

Determination of the order type. Choose between "Production", "Internal Order" and "Customer Order".

Batch

A batch describes a quantity of goods with the same characteristics.

Batch validity

With the validity of a batch you can define in which period a particular batch can be used.

Document

If you want to add a particular document to the shipping documents, this can be done by specifying the URL of a network resource. The printing of an associated defined document will be instructed.

Pick List

The pick list is created after the processing of an order by the system and is passed to an storage employee afterwards. The storage employee picks the specified articles listed in the pick list.

Handling Unit

The handling unit indicates the unit of measurements that belongs to each article. For instance: Pieces, kilograms, grams

Inventory

An inventory is the collection of all existing stocks in the warehouse at particular time.

Clearing place

A Clearing place is a virtual booking place in the system. Goods can be booked on this place, whose processing is unclear.

Small Load Carrier (SLC)

A Small load carrier is a small transport and storage tool in comparison to a pallet or a grid box. For example: transport and storage box made of plastic.

Picking

The picking is triggered by an order. It describes the collection of the ordered items from the inventory stored in the warehouse.

Picking

A picking trolley is a technical tool which is used in the picking procedure.

Loading Carrier

Several individual units are combined into larger units, a storage unit, on a loading carrier. They serve the transportation and storage of stock items such as pallets or small loading carriers.

Storage Unit

Storage units are a logical grouping of one or more amounts of material that are managed as integral unit within a warehouse. Each storage unit has a identifying number: the storage unit number.

Activity type code

These are characteristics that determine how an activity will be charged. An activity can be offset in the following ways: directly via predistribution of fixed costs or indirectly (value coverage) or not at all. Instead of the offsetting only the collection of the accomplished amounts will be provided to the stations.

Delivery Note

A delivery note is a document issued by the supplier that indicates information about the delivered items. It is normally sent together with the goods and serves, after the signature by the recipient as a proof of successful delivery.

Client

One client is a customer or a purchaser.

Nirvana

Nirvana describes in this system a virtual booking place for goods that are for instance lost, damaged or counted incorrectly during the entry and that have to be checked out of the system.

Zero Crossing, an unexpected one

The goods to be removed exceeds the amount of the number of available goods, in case of a unexpected zero crossing. This is due to a loss or breakage without proper Check out or a false count during the storage.

Pallet Receipt

A pallet receipt is a companion paper for the identification and the tracking of a pallet and is attached thereto. It contains different information (e.g. Amount of articles, Order number) that enable for instance to make a target-performance comparison. After processing the incoming goods a pallet receipt is created by the system that is attached to the pallet during the storage. A pallet receipt indicates the amount of items that are on the loading device.

Prefix

A prefix is one or more signs that appear at the beginning of a document number.

Return

A return describes a product which derives from the warehouse and is sent back for some reason.

Lock indicator

A lock indicator is a flag in the master data that can create to a lock for a booking.

Goods Receipt

The goods receipt describes a virtual booking place in this system for incoming goods that not yet stored.

Target Bin Location

Determination of the Outgoing goods gate where the goods should be provided fro shipment.