



DAIFUKU

WYNRIGHT CORPORATION

Warehouse Rx Web Client

Customer – Location

2019-06-28

Version 0

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Version History

Date	Version	Author	Changes
2019-06-27	0		Initial version

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Introduction

Insert introduction here.

Starting the Web Client

Navigate to <http://WRxServerNameOrIP>

Login

Warehouse Rx comes preconfigured with 4 user logins, each corresponding to a different role.

- Read Only Role – can view most things but cannot edit.
 - User ID: readonly
 - Password: readonly
- Operator Role – can perform basic operations as well as recovery operations like deleting tracking or modifying load data.
 - User ID: operator
 - Password: operator
- Administrator Role – all permissions, including the creation of users and assignment of roles.
 - User ID: administrator
 - Password: administrator

Typical Screen Controls

Typical screen controls. Not all screens have all controls.

The screenshot shows the 'LOADS' screen in the Warehouse Rx Web Client. It features a search criteria section at the top with fields for Load ID, Location, Address, Position, Device, and Wave Number. Below this is a table of load data with columns for Load ID, Address, Position, Move Status, Device ID, Next Address, Next Position, Load Date, Wave Nr, and Recommended Zone. The table is paginated, showing 1 to 14 of 120 entries. Numbered callouts (1-10) point to specific UI elements: 1. Search Criteria toggle, 2. Load ID input field, 3. Search button, 4. Add dialog button, 5. Refresh button, 6. Export button, 7. Column selection icon, 8. Auto Refresh button, 9. Filter input field, and 10. Pagination controls.

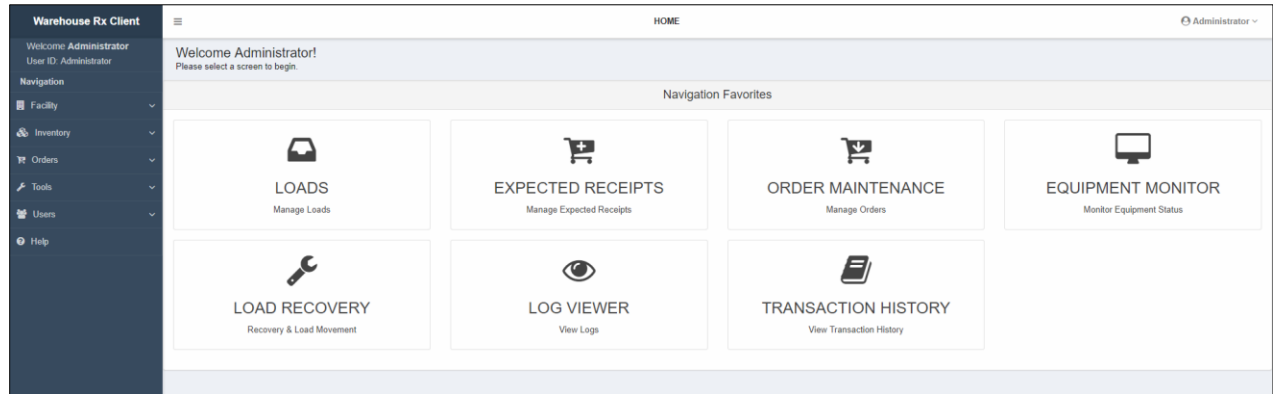
Load ID	Address	Position	Move Status	Device ID	Next Address	Next Position	Load Date	Wave Nr	Recommended Zone
1	001003015	103	No Move	SRVA0115		000	Jun 27, 2019 9:02:37 AM	190625190459396	NRM
10	001003006	101	No Move	SRVA0106		000	Jun 27, 2019 9:02:29 AM	190625190459396	NRM
11	001003005	101	No Move	SRVA0105		000	Jun 27, 2019 9:02:27 AM	190625190459396	NRM
12	001003004	101	No Move	SRVA0104		000	Jun 27, 2019 9:02:27 AM	190625190459396	NRM
13	001003003	101	No Move	SRVA0103		000	Jun 27, 2019 9:02:25 AM	190625190459396	NRM
14	001003002	101	No Move	SRVA0102		000	Jun 27, 2019 9:02:25 AM	190625190459396	NRM
15	001003001	101	No Move	SRVA0101		000	Jun 27, 2019 9:02:23 AM	190625190459396	NRM
16	001003015	101	No Move	SRVA0115		000	Jun 27, 2019 9:02:23 AM	190625190459396	NRM
17	001003014	101	No Move	SRVA0114		000	Jun 27, 2019 9:02:21 AM	190625190459396	NRM
18	001003013	103	No Move	SRVA0113		000	Jun 27, 2019 9:02:21 AM	190625190459396	NRM
19	001003012	103	No Move	SRVA0112		000	Jun 27, 2019 9:02:19 AM	190625190459396	NRM
2	001003014	103	No Move	SRVA0114		000	Jun 27, 2019 9:02:37 AM	190625190459396	NRM
20	001003011	103	No Move	SRVA0111		000	Jun 27, 2019 9:02:19 AM	190625190459396	NRM
3	001003013	101	No Move	SRVA0113		000	Jun 27, 2019 9:02:35 AM	190625190459396	NRM

1. Click to show or hide Search Criteria
2. Enter data to filter data from the database
3. Click to query the database
4. Click to open the Add dialog
5. Click to refresh the table
6. Click to export the table
7. Click to select which columns to display
8. Click to toggle auto-refresh
9. Type to filter across all columns in the current table data
10. Select the page to view when the tables are large.

Web Client Screens

Welcome Screen

The welcome screen has a sidebar menu on the left as well as quick link tiles to frequently used screens.

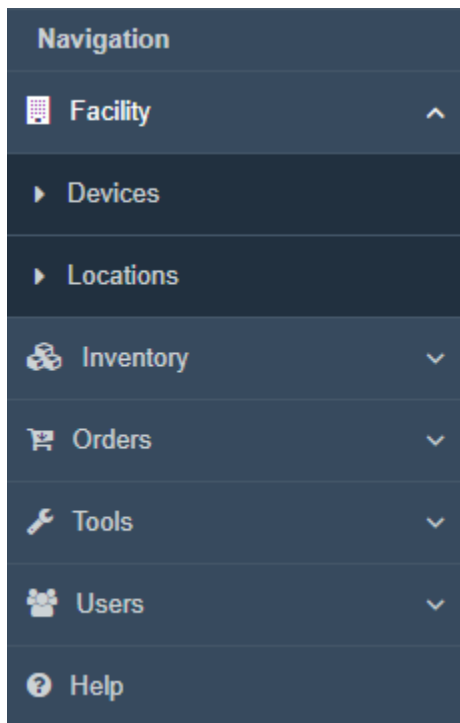


Facility

The Facility menu group contains two options:

- Devices – Shows the list of devices with their configurations and statuses.
- Locations – Shows the list of locations with their configurations and statuses.

Click the option to open the screen.

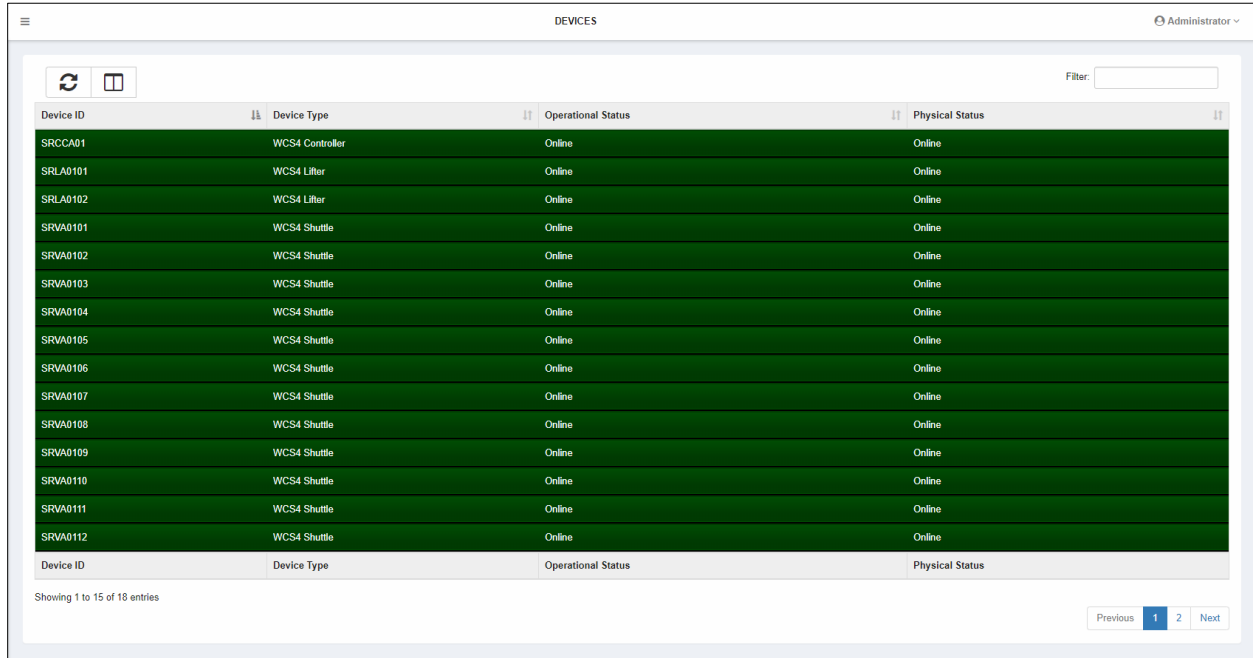


Warehouse Rx Web Client

Customer – Location

Devices

The Devices screen shows the list of devices with their configurations and statuses. This screen is provided for information only.



Device ID	Device Type	Operational Status	Physical Status
SRCCA01	WCS4 Controller	Online	Online
SRLA0101	WCS4 Lifter	Online	Online
SRLA0102	WCS4 Lifter	Online	Online
SRVA0101	WCS4 Shuttle	Online	Online
SRVA0102	WCS4 Shuttle	Online	Online
SRVA0103	WCS4 Shuttle	Online	Online
SRVA0104	WCS4 Shuttle	Online	Online
SRVA0105	WCS4 Shuttle	Online	Online
SRVA0106	WCS4 Shuttle	Online	Online
SRVA0107	WCS4 Shuttle	Online	Online
SRVA0108	WCS4 Shuttle	Online	Online
SRVA0109	WCS4 Shuttle	Online	Online
SRVA0110	WCS4 Shuttle	Online	Online
SRVA0111	WCS4 Shuttle	Online	Online
SRVA0112	WCS4 Shuttle	Online	Online

Columns

Column	Notes
Device ID	The ID for the device.
Device Type	The type of the device.
Operational Status	The operational status for the device. <ul style="list-style-type: none">Online – the device is available for storage and retrieval.Offline – the device is unavailable for storage. If the device is physically online, retrievals will still be performed.Inoperable – the device is unavailable.
Physical Status	The physical status for the device. <ul style="list-style-type: none">Online – the device is onlineOffline – the device is offline (stopped, in error, etc.)
Read/Write Port	The name of the port controller for this device.
Comm Device	The name of the communications device for this device.
Scheduler Name	The name of the scheduler for this device.
Allocator Name	The name of the allocator for this device.
Emulation Mode	The emulation mode for this device. <ul style="list-style-type: none">No Emulation – software is connected to a physical deviceFull Emulation – software is connected to an emulated device.

Warehouse Rx Web Client

Customer – Location

Locations

The Locations screen shows the list of locations with their configurations and statuses.

LOCATIONS

Administrator

Search Criteria

Location

ALL

-

Address

-

Position

Device

ALL

Zone

ALL

Availability

ALL

Empty Flag

ALL

Search

Filter:

Warehouse	Address	Position	Zone	Availability	Empty Flag	Device ID	Search Order	Depth	Linked	Swap Zone
B	001001001	101	PRI	Available	Swap	SRVA0101	1	Outer	002001001	1
B	001001001	102	PRI	Available	Empty	SRVA0101	1	Outer	002001001	1
B	001001001	103	PRI	Available	Occupied	SRVA0101	1	Outer	002001001	1
B	001001001	104	PRI	Available	Occupied	SRVA0101	1	Outer	002001001	1
B	001001002	101	PRI	Available	Swap	SRVA0102	3	Outer	002001002	2
B	001001002	102	PRI	Available	Empty	SRVA0102	3	Outer	002001002	2
B	001001002	103	PRI	Available	Occupied	SRVA0102	3	Outer	002001002	2
B	001001002	104	PRI	Available	Occupied	SRVA0102	3	Outer	002001002	2
B	001001003	101	PRI	Available	Swap	SRVA0103	5	Outer	002001003	3
B	001001003	102	PRI	Available	Empty	SRVA0103	5	Outer	002001003	3
B	001001003	103	PRI	Available	Occupied	SRVA0103	5	Outer	002001003	3
B	001001003	104	PRI	Available	Occupied	SRVA0103	5	Outer	002001003	3
B	001001004	101	PRI	Available	Swap	SRVA0104	7	Outer	002001004	4
B	001001004	102	PRI	Available	Empty	SRVA0104	7	Outer	002001004	4
B	001001004	103	PRI	Available	Occupied	SRVA0104	7	Outer	002001004	4
B	001001004	104	PRI	Available	Occupied	SRVA0104	7	Outer	002001004	4
B	001001005	101	PRI	Available	Swap	SRVA0105	9	Outer	002001005	5

Columns

Column	Notes
Warehouse	The warehouse designation for this location.
Address	The address for this location. Addresses are in RRRBBBTTT format: <ul style="list-style-type: none"> • RRR – Row (or bank) • BBB – Bay (or column) • TTT – Tier (or level)
Position	The position for this location.
Zone	The zone for this location.
Height	The maximum height for this location.
Length	The assigned length for this location.
Availability	The availability for a location: <ul style="list-style-type: none"> • Available – Available for storage with a length pattern assigned. • Prohibited – Storage at this location is prohibited. For use when a shelf is damaged. • Unavailable – Unavailable for storage/retrieval. • Unassigned – Available for storage with no length pattern assigned.
Empty Flag	The empty status for a location: <ul style="list-style-type: none"> • Empty – The location is empty. • Occupied – The location is occupied.

	<ul style="list-style-type: none"> • Reserved – The location is reserved for a load that is in the process of storing. • Double-deep movement – The inner location is reserved during movement to or from an outer location. • Swap – The location is reserved as a swap location. Swap locations are used when an inner location needs to be emptied so the container in the outer location may be retrieved.
Device ID	The device ID of the device that controls this location.
Search Order	The search order for this location that is used when searching for an empty location.
Depth	The depth of this location <ul style="list-style-type: none"> • Inner – The location is between the shuttle and the outer location. • Outer – The location is behind the inner location.
Linked	The address of the location that is connected to this location.
Swap Zone	The swap zone for this location. There is a swap zone for every device + zone + height combination.

List Operations

Users with ROLE_ELEVATED permissions can modify a location to correct its status. Right-click a row and select Modify to modify it.

Modify Location ×

Location

B

-

001001001

-

103

Availability

Available ▼

Empty Flag

Occupied ▼

Close

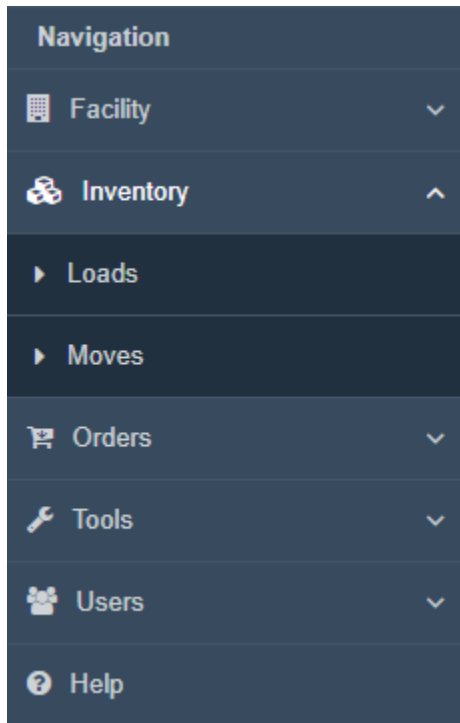
Update

Inventory

The Inventory menu group contains two options:

- Loads – Shows a list of loads (containers) with their locations and statuses.
- Moves – Show a list of moves, which show allocations for outbound orders.

Click the option to open the screen.



Warehouse Rx Web Client

Customer – Location

Loads

The Loads screen shows a list of loads (containers) with their locations and statuses.

LOADS

Administrator

Search Criteria

Load ID

Location

Device

Wave Number

Load ID

ALL

Address

Position

ALL

Wave Number

Search

+

↺

↻

On

Audio Playback

Filter:

Load ID	Address	Position	Load Date	Move Status	Device ID	Next Address	Next Position	Wave Nr	Recommended Zone
T91554	001001012	103	Jun 27, 2019 9:01:48 AM	No Move	SRVA0112		000	190627090100101	PRI
T91794	001001003	104	Jun 27, 2019 9:01:54 AM	No Move	SRVA0103		000	190627090100101	PRI
T93840	002003006	103	Jun 27, 2019 9:11:53 AM	No Move	SRVA0106		000	190627091129003	NRM
T94786	002003001	102	Jun 27, 2019 9:11:49 AM	No Move	SRVA0101		000	190627091129003	NRM
T96391	001001009	103	Jun 27, 2019 9:01:46 AM	No Move	SRVA0109		000	190627090100101	PRI
Load ID	Address	Position	Load Date	Move Status	Device ID	Next Address	Next Position	Wave Nr	Recommended Zone

Showing 57 to 61 of 61 entries

Previous

1

2

3

4

5

Next

Columns

Column	Notes
Load ID	The barcode for this load.
Warehouse	The warehouse for this load.
Address	The address for this load.
Position	The position for this load.
Load Date	The date of the last load movement.
Move Status	<p>The move status for this load.</p> <ul style="list-style-type: none"> Arrived – The load has arrived at a station is awaiting a user operation. Arrival Pending – The load is awaiting an arrival message from the equipment. Move Error – The controller rejected the station-to-station move command for this load. Move Pending – This load is waiting for a station-to-station move command to be sent to the controller. Move Sent – This load is waiting for a response to a station-to-station move command. Moving – This load is moving from station to station. No Move – This load is not moving (it is stored on a shelf). Retrieve Error – The controller rejected the location-to-station or location-to-location move command for this load. Retrieve Pending – This load is waiting for a location-to-station or location-to-location move command to be sent to the controller.

Warehouse Rx Web Client

Customer – Location

	<ul style="list-style-type: none"> Retrieve Sent – This load is waiting for a response to a location-to-station or location-to-location move command. Retrieving – This load is moving from a location to a station or another location. Store Error – The controller rejected the station-to-location move command for this load. Store Pending – This load is waiting for a station-to-location move command to be sent to the controller. Store Sent – This load is waiting for a response to a station-to-location move command. Storing – This load is moving from a station to a location.
Device ID	The device ID of the device that controls this load.
Next Warehouse	The next warehouse for this load.
Next Address	The next address for this load.
Next Position	The next position for this load. Default for this is 000.
Wave Nr	The Wave Number assigned to this load.
Recommended Zone	The recommended zone for this load.

List Operations – Add Button

To add a load, click the Add icon above the list (ROLE_ELEVATED or higher). Populate the fields in the dialog and click Add.

Add Load
×

Load ID*:

Location*:

B

▼

-

Address

-

Position

Next Location:

▼

-

Next Address

-

Position

Route:

1101

▼

Move Status:

No Move

▼

Message:

Barcode:

Device ID:

SRVA0101

▼

Recommended Zone:

NRM

▼

Wave Number:

* Required

Close
Add

List Operations – Context Menu

A pop-up menu is available with options depending on the user's roles. Right-click to display the pop-up menu.

- Retrieve – ROLE_USER or higher.
- Modify – ROLE_ELEVATED or higher. Modify the selected load in a pop-up dialog.
- Delete – ROLE_ELEVATED or higher. Delete the selected load.
- Show Location – ROLE_READONLY or higher. Show location information in a pop-up dialog.
- Show Moves – ROLE_READONLY or higher. Show move information in a pop-up dialog.

Warehouse Rx Web Client

Customer – Location

Moves

The Moves screen shows a list of moves which show allocations for outbound orders. This screen is provided for information only.

MOVES										
										Administrator ▾
<div> <div> <div></div> <div></div> </div> </div>										Filter: <input type="text"/>
Move ID	Load ID	Warehouse	Address	Priority	Order ID	Type	Status	Move Date	Move Route ID	
73091915	T39320	B	002003014	7	T39320	Load Move	Available	Jun 27, 2019 2:32:43 PM	1201	
299699620	T61889	B	002003008	7	T61889	Load Move	Available	Jun 27, 2019 2:32:42 PM	1201	
344344126	T03087	B	002003011	7	T03087	Load Move	Available	Jun 27, 2019 2:32:42 PM	1201	
504965435	T72011	B	002003010	7	T72011	Load Move	Available	Jun 27, 2019 2:32:44 PM	1201	
573992584	T01992	B	002003009	7	T01992	Load Move	Available	Jun 27, 2019 2:32:44 PM	1201	
678929479	T54325	B	002003007	7	T54325	Load Move	Available	Jun 27, 2019 2:32:44 PM	1201	
684785515	T33371	B	002003008	7	T33371	Load Move	Available	Jun 27, 2019 2:32:44 PM	1201	
738685434	T76813	B	002003009	7	T76813	Load Move	Available	Jun 27, 2019 2:32:42 PM	1201	
797412811	T96124	B	002003010	7	T96124	Load Move	Available	Jun 27, 2019 2:32:42 PM	1201	
853768020	T47547	B	002003004	7	T47547	Load Move	Available	Jun 27, 2019 2:32:43 PM	1201	
967473671	T23221	B	002003007	7	T23221	Load Move	Available	Jun 27, 2019 2:32:42 PM	1201	
980684065	T50309	B	002003013	7	T50309	Load Move	Available	Jun 27, 2019 2:32:43 PM	1201	
1081679522	T56603	B	002003015	7	T56603	Load Move	Available	Jun 27, 2019 2:32:43 PM	1201	
1324964711	T09585	B	002003012	7	T09585	Load Move	Available	Jun 27, 2019 2:32:43 PM	1201	
1453690672	T90632	B	002003006	7	T90632	Load Move	Available	Jun 27, 2019 2:32:44 PM	1201	
Move ID	Load ID	Warehouse	Address	Priority	Order ID	Type	Status	Move Date	Move Route ID	

Showing 1 to 15 of 20 entries

Previous **1** 2 Next

Columns

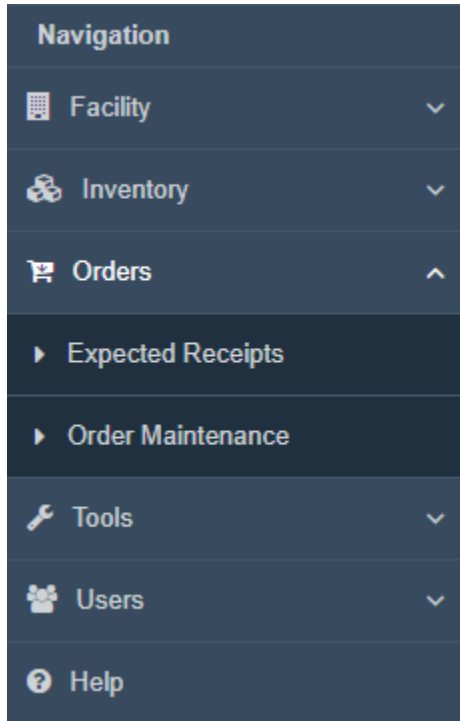
Column	Notes
Move ID	The system-generated unique ID for the move.
Load ID	The barcode for this load.
Warehouse	The warehouse for this load.
Address	The address for this load.
Priority	The priority for the move (based upon the order).
Order ID	The order ID for the move.
Type	The type of move.
Status	The status of the move.
Move Date	The date and time the move was created.
Move Route ID	The destination for this movement. <ul style="list-style-type: none"> 1201 – Shipping 1203 – Recirculation

Orders

The Orders menu group contains two options:

- Expected Receipts – Shows a list of expected receipts, or inbound load orders.
- Order Maintenance – Shows a list of outbound orders.

Click the option to open the screen.



Warehouse Rx Web Client

Customer – Location

Expected Receipts

The Expected Receipts screen shows a list of expected receipts, or inbound load orders.

EXPECTED RECEIPTS

Administrator

Search Criteria

Order ID

Load ID

Wave Number

Search

Refresh

On

Auto Refresh

Filter:

Load ID	Wave Nr	Recommended Zone	Expected Date	Expected Receipt Status
T00655	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T17667	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T29369	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T30470	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T35270	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T45120	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T58810	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T61371	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T68512	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T68694	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T69062	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T75117	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T79793	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
T81972	190627152529913	NRM	Jun 27, 2019 3:25:34 PM	Expected
Load ID	Wave Nr	Recommended Zone	Expected Date	Expected Receipt Status

Showing 1 to 14 of 20 entries

Previous12Next

Columns

Column	Notes
Load ID	The barcode for this load.
Wave Nr	The wave number for this load.
Recommended Zone	The recommended zone for this load. If the recommended zone is not available, it will be stored in the alternate zone.
Expected Date	The date and time the expected receipt was created.
Expected Receipt Status	The status for the expected receipt.

List Operations – Context Menu

A pop-up menu is available with options depending on the user's roles. Right-click to display the pop-up menu.

- Delete – ROLE_ELEVATED or higher. Delete the selected expected receipt.
- Show Details – ROLE_READONLY or higher. Show detail information in a pop-up dialog.

Warehouse Rx Web Client

Customer – Location

Order Maintenance

The Order Maintenance screen shows a list of outbound orders.

ORDER MAINTENANCE

Administrator

Search Criteria

Order ID

Order ID

Order Status

ALL

Wave Number

Wave Number

Search

Refresh

Print

Search

On

Auto Refresh

Filter:

Order ID	Wave Nr	Order Type	Order Status	Priority	Scheduled Date	Destination Station	Ordered Time
T05698	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T15106	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T29503	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T32635	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T32985	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T35856	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T49703	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T50287	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:35 PM	1201	Jun 27, 2019 3:40:35 PM
T52686	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T59914	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:35 PM	1201	Jun 27, 2019 3:40:35 PM
T67570	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:35 PM	1201	Jun 27, 2019 3:40:35 PM
T67900	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T77148	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
T80706	190625111956361	Full Load Order	Scheduled	7	Jun 27, 2019 3:40:36 PM	1201	Jun 27, 2019 3:40:36 PM
Order ID	Wave Nr	Order Type	Order Status	Priority	Scheduled Date	Destination Station	Ordered Time

Showing 1 to 14 of 20 entries

Previous

1

2

Next

Columns

Column	Notes
Order ID	The order ID, which matches barcode for the ordered load.
Wave Nr	The wave number for this order.
Order Type	The type of order.
Order Status	<p>The status for the order.</p> <ul style="list-style-type: none"> Allocate Now – the system should allocate this order immediately. Allocating – the system is allocating this order. Hold – the system should not allocate this order. Ready – the system should allocate this order when the equipment is available. Scheduled – this order has been allocated. <p>Orders in this system are created with an Allocate Now status.</p>
Priority	The priority of the order.
Scheduled Date	The date and time this order was scheduled.
Destination Station	<p>The destination for this order.</p> <ul style="list-style-type: none"> 1201 – Shipping 1203 – Recirculation
Ordered Time	The date and time this order was created.

List Operations – Context Menu

A pop-up menu is available with options depending on the user's roles. Right-click to display the pop-up menu.

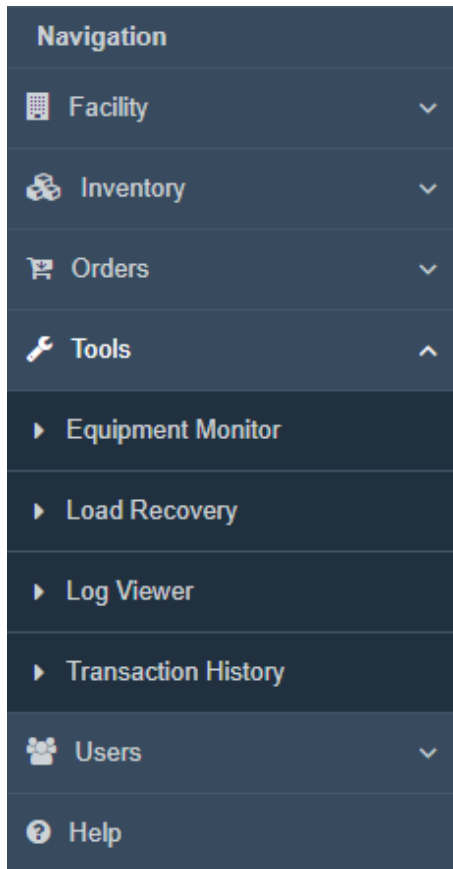
- Mark Ready – ROLE_USER or higher. Change the status of an order from Hold to Ready.
- Hold – ROLE_USER or higher. Change the status of an order to Hold.
- Delete – ROLE_ELEVATED or higher. Delete the selected order.
- Show Details – ROLE_READONLY or higher. Show detail information in a pop-up dialog.
- Show Moves – ROLE_READONLY or higher. Show move information in a pop-up dialog.

Tools

The Tools menu group contains four options:

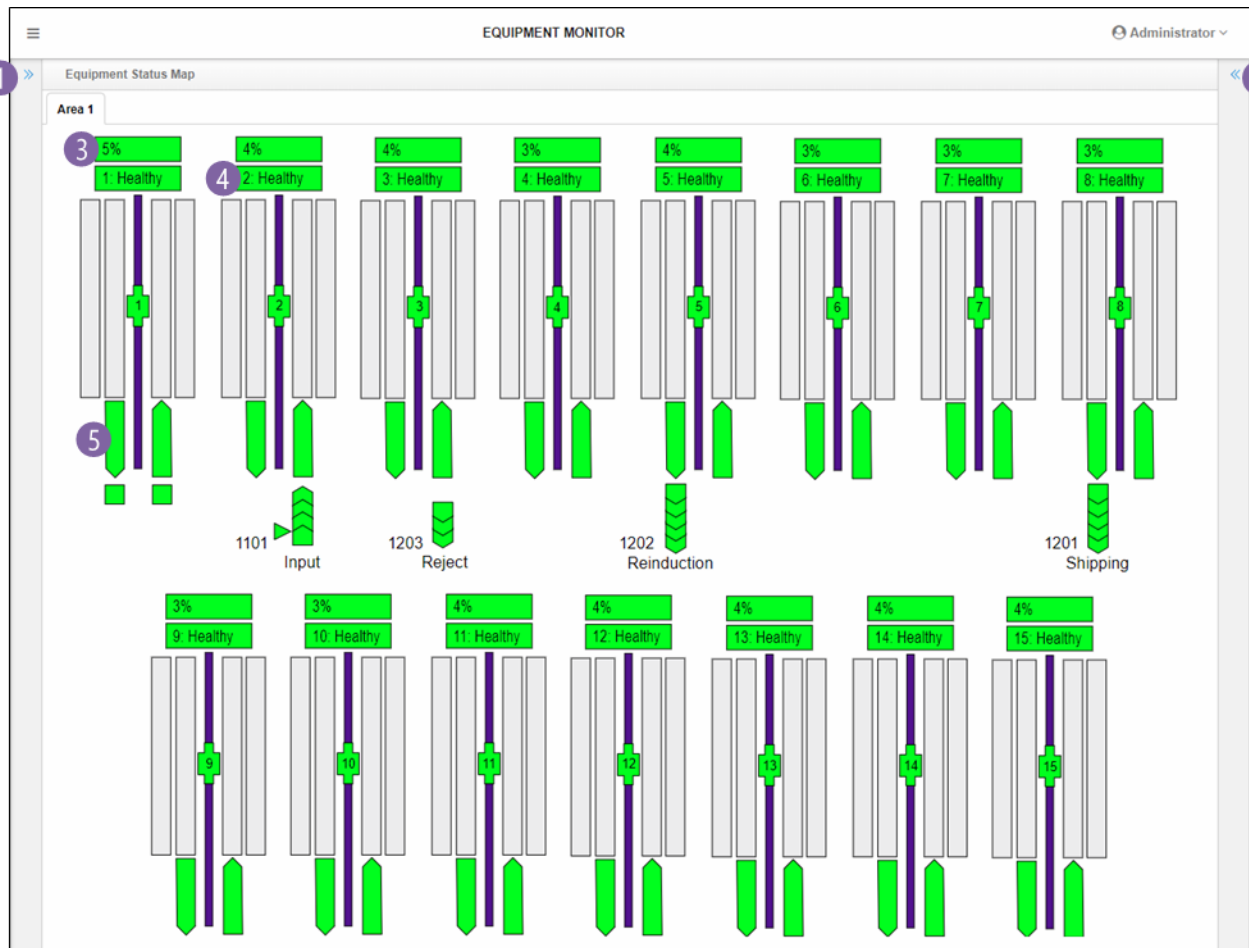
- Equipment Monitor – Shows equipment status and allows start, stop, and error reset operations.
- Load Recovery – Shows a list of moving loads (containers) and provides recovery options.
- Log Viewer – Shows a list of error logs.
- Transaction History – Shows a list of historical data.

Click the option to open the screen.



Equipment Monitor

The Equipment Monitor screen shows equipment status and allows start, stop, and error reset operations.



1. Click to open the Command Center sidebar.
2. Click to open the Equipment Detail sidebar.
3. Fullness indicator which shows how full a tier is. Click to open the Equipment Detail sidebar.
4. Swap zone status indicator. Click to open the Equipment Detail sidebar.
5. Equipment status indicator. Click to open the Equipment Detail sidebar.

Command Center Sidebar (Right)

The Command Center sidebar provides system commands, shows additional status, and contains legends.

Commands

The commands menu contains options that apply to the whole system.

- Start System – start all equipment
- Stop System – stop all equipment
- Reset Errors – reset errors on all equipment
- Silence Alarms – silence audible alarms on all equipment.

Connection Status

Shows the status of the Warehouse Rx and host database connections.

Equipment Status

This section is a legend for the Equipment Monitor.

Light Tower Status

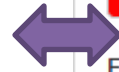
This section is a legend for the light tower(s) on the physical equipment.



Equipment Detail Sidebar (Left)

The Equipment Detail sidebar shows the status of a piece of equipment and contains a button to enable or disable load a tracking display for supported equipment.

The sidebar may be stretched by clicking and dragging the left edge.



Equipment Detail >>

Description

Status
ERROR

Error Code

Error Text

Load Tracking
Enable Load Tracking

Warehouse Rx Web Client
Customer – Location

When tracking is enabled, tracking data is requested from the controller and filtered by the selected equipment. The filter may be removed to view all data.

Equipment Detail

Description

Layer Output Conveyor SLYA010101

Status

ONLINE

Error Code

-

Error Text

-

Tracking Enabled

Disable Tracking for SLYA010101

On

Auto Refresh

Filter:

SLYA010101

Graphic ID	Device ID	Tracking ID	Barcode	Status	Origin	Destination	Size
Level-01-LayerOutput	SLYA010101	T22517	-	Dummy Data	001001001103	1201	1
Level-01-LayerOutput	SLYA010101	T83992	-	Dummy Data	001001001104	1201	1

Showing 1 to 2 of 2 entries (filtered from 18 total entries)

Previous

1

Next

Column	Notes
Graphic ID	The ID of the graphic on the screen.
Device ID	The ID of the physical equipment.
Tracking ID	The ID of the tracked load.
Barcode	Barcode data (if different from the Tracking ID).
Status	Status description from the equipment.
Origin	The origin location for the tracked load.
Destination	The destination location for the tracked load.
Size	The size profile for the tracked load.

List Operations – Context Menu

A pop-up menu is available with options depending on the user's roles. Right-click to display the pop-up menu.

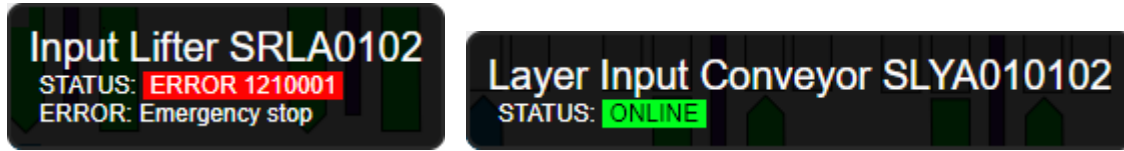
- **Delete** – Delete the selected tracking data. The equipment must be stopped to delete.

Equipment Graphics

The equipment graphics show status have context menu options to enable control of the system.

Tooltip

Hovering over a graphic shows more information in a tooltip. Sample tooltips:



Context Menus

Graphics have context menu options. Not all graphics contain all options.

- Error Guidance – Get recovery help for an error. If the selected equipment is in error, then the error code for that equipment is the default. An error code may also be manually provided.
- Reset Error – Request an error reset.
- Silence Alarm – Silence the audible alarm without resetting the error.
- Start – Start the equipment.
- Stop – Stop the equipment.
- SRC Online – Request the equipment's controller to turn online.
- SRC Offline – Request the equipment's controller to turn offline.
- Latch Clear – Request a latch clear from the conveyor PLC.
- Disconnect – Take a piece of equipment out of service.
- Reconnect – Place a disconnected piece of equipment back into service.
- Save Logs – Request the controller save its logs. It is best if the controller is Offline when saving logs.
- Test MOS Comm. – Send a test message over the MOS (status) port.

Warehouse Rx Web Client

Customer – Location

Load Recovery

The Load Recovery screen shows a list of moving loads and provides recovery options.

RECOVERY										
Search Criteria										
<div> <div> <div></div> <div></div> <div>On</div> <div>Auto Refresh</div> </div> <div>Filter:</div> </div>										
Load ID	Address	Position	Load Date	Move Status	Device ID	Next Address	Next Position	Wave Nr	Zone	Message
T03550	001003015	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0115		000	190627090055232	NRM	
T05698	OUT0114	000	Jun 28, 2019 10:33:49 AM	Retrieving	SRVA0114	1201	000	190625111956361	NRM	
T05741	001003008	103	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0108		000	190627090055232	NRM	
T06607	001003009	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0109		000	190627090055232	NRM	
T24351	001003004	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0104		000	190627090055232	NRM	
T26109	001003001	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0101		000	190627090055232	NRM	
T28399	001003014	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0114		000	190627090055232	NRM	
T33426	001003002	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0102		000	190627090055232	NRM	
T35032	001003010	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0110		000	190627090055232	NRM	
T44296	001003012	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0112		000	190627090055232	NRM	
T47959	001003011	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0111		000	190627090055232	NRM	
T50924	001003013	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0113		000	190627090055232	NRM	
T53708	001003008	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0108		000	190627090055232	NRM	
T55875	001003006	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0106		000	190627090055232	NRM	
T60420	001003003	102	Jun 28, 2019 10:34:06 AM	Retrieve Pending	SRVA0103		000	190627090055232	NRM	
Load ID	Address	Position	Load Date	Move Status	Device ID	Next Address	Next Position	Wave Nr	Zone	Message
Showing 1 to 15 of 21 entries										
<div> <div>Previous</div> <div>1</div> <div>2</div> <div>Next</div> </div>										

Columns

Column	Notes
Load ID	The barcode for this load.
Warehouse	The warehouse for this load.
Address	The address for this load.
Position	The position for this load.
Load Date	The date of the last load movement.
Move Status	<p>The move status for this load.</p> <ul style="list-style-type: none"> Arrived – The load has arrived at a station is awaiting a user operation. Arrival Pending – The load is awaiting an arrival message from the equipment. Move Error – The controller rejected the station-to-station move command for this load. Move Pending – This load is waiting for a station-to-station move command to be sent to the controller. Move Sent – This load is waiting for a response to a station-to-station move command. Moving – This load is moving from station to station. No Move – This load is not moving (it is stored on a shelf). Retrieve Error – The controller rejected the location-to-station or location-to-location move command for this load.

	<ul style="list-style-type: none"> Retrieve Pending – This load is waiting for a location-to-station or location-to-location move command to be sent to the controller. Retrieve Sent – This load is waiting for a response to a location-to-station or location-to-location move command. Retrieving – This load is moving from a location to a station or another location. Store Error – The controller rejected the station-to-location move command for this load. Store Pending – This load is waiting for a station-to-location move command to be sent to the controller. Store Sent – This load is waiting for a response to a station-to-location move command. <p>Storing – This load is moving from a station to a location.</p>
Device ID	The device ID of the device that controls this load.
Next Warehouse	The next warehouse for this load.
Next Address	The next address for this load.
Next Position	The next position for this load. Default for this is 000.
Wave Nr	The Wave Number assigned to this load.
Recommended Zone	The recommended zone for this load.
Message	Recovery-related messages.

List Operations – Context Menu

A pop-up menu is available with options depending on the user's roles. Right-click to display the pop-up menu.

- Recover – ROLE_ELEVATED or higher. Attempt to recover a load. See Recovery Procedures for details.
- Delete – ROLE_ELEVATED or higher. Delete the selected load.
- Show Location – ROLE_READONLY or higher. Show location information in a pop-up dialog.
- Show Moves – ROLE_READONLY or higher. Show move information in a pop-up dialog.

Warehouse Rx Web Client
Customer – Location

Log Viewer

The Log Viewer shows a list of error logs.

LOG VIEWERAdministrator

Search Criteria

Date Range6/28 00:00:00 - 6/28 23:59:59

Filter

Search

Filter:

Timestamp	Source	Subject	Message
Jun 28, 2019 9:24:19 AM	main.Ctlrs	Error	2019/06/28 09:24:19 125 -06:00 - ***** APPLICATION START - Warehouse Rx - BaldorV/Rx - 2019.06.26.1734 *****
Jun 28, 2019 9:41:25 AM	SystemHealthMonitor.Ctlrs	Error [1110001]	2019/06/28 09:41:25 363 -06:00 - [1110001] Level-01 Shuttle (09:41:25) HP limit emergency stop
Jun 28, 2019 9:41:25 AM	SystemHealthMonitor.Ctlrs	Error [1110001]	2019/06/28 09:41:25 927 -06:00 - [1110001] Level-01 Shuttle (09:41:25) HP limit emergency stop

Showing 1 to 3 of 3 entries

Previous1Next

Warehouse Rx Web Client

Customer – Location

Transaction History

The Transaction History screen shows a list of historical data. It can be used in troubleshooting or researching.

TRANSACTION HISTORY

Administrator

Q Search Criteria

Date Range

6/27 00:00:00 - 6/27 23:59:59

Load ID

T68046

Q Search

Filter

Timestamp	Category	Type	Load ID	Location	To-Location	User ID	Role	Machine
Jun 27, 2019 9:00:58 AM	Ordering	Add Expected Receipt Line	T68046					
Jun 27, 2019 9:02:12 AM	Load Movement	Add Load	T68046	B-1101				
Jun 27, 2019 9:02:12 AM	Load Movement	Modify Load	T68046	B-1101				
Jun 27, 2019 9:02:13 AM	Load Movement	Load Schedule	T68046	B-1101	B-001003010103			
Jun 27, 2019 9:02:14 AM	Load Movement	Transfer Inventory/Load	T68046	B-1101	B-SRLA0102			
Jun 27, 2019 9:02:15 AM	Load Movement	Transfer Inventory/Load	T68046	B-SRLA0102	B-IN0110			
Jun 27, 2019 9:02:17 AM	Load Movement	Transfer Inventory/Load	T68046	B-IN0110	B-SRVA0110			
Jun 27, 2019 9:02:17 AM	Load Movement	Transfer Inventory/Load	T68046	B-SRVA0110	B-001003010103			
Jun 27, 2019 9:02:17 AM	Ordering	Delete Expected Receipt Line	T68046					
Timestamp	Category	Type	Load ID	Location	To-Location	User ID	Role	Machine

Showing 1 to 9 of 9 entries

Previous

1

Next

In this example, information is displayed for load T68046. These transactions were created under emulation, which is faster than physical equipment.

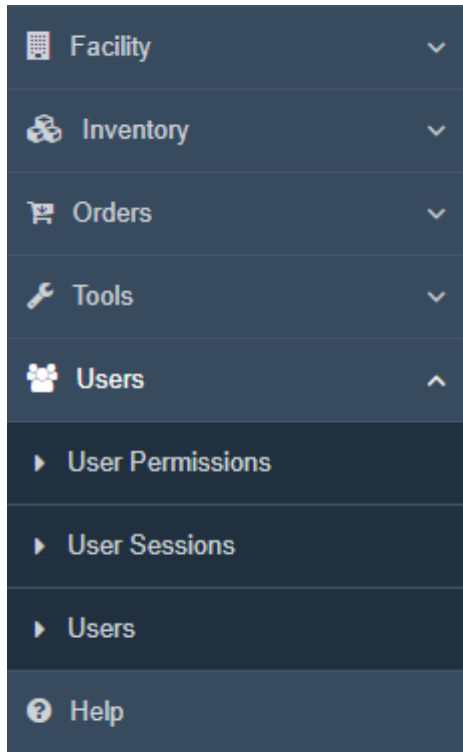
- An expected receipt was created for it at 9:00 am.
- At 9:02:12 am the barcode was scanned at the input station (1101).
- It was then modified internally as it was linked to the expected receipt.
- At 9:02:13 am the load was assigned to a storage location (001003010103).
 - Row 001
 - Bay 003
 - Tier 010
 - Position 103
- At 9:02:14 am the load was picked up by the lifter (SRLA0102).
- At 9:02:15 am the load was deposited by the lifter onto the tier 10 input conveyor (IN0110).
- At 9:02:17 am the load was picked up by the shuttle (SRVA0110).
- After that it was deposited at the storage location (001003010103).
- Finally, the associated expected receipt was deleted.

Users

The Users menu group contains three options:

- User Permissions – Manage user permissions.
- User Sessions – Shows a list of logged in users.
- Users – Manage users.

Click the option to open the screen.



Warehouse Rx Web Client

Customer – Location

User Permissions

The User Permissions screen is for user role management.

The screenshot shows the 'USER PERMISSIONS' interface. The left panel, titled 'Permission Groups', contains a table with the following data:

Group Name	Description
ROLE_ADMIN	Administrator role.
ROLE_USER	Basic user role.
ROLE_MASTER	Daifuku Wynright developer & support role.
ROLE_READONLY	Read only role.
ROLE_ELEVATED	Role with elevated privileges for recovery.

The 'ROLE_ELEVATED' row is selected. Below the table, it says 'Showing 1 to 5 of 5 entries' and '1 row selected'. The right panel, titled 'Users', shows a list of users for the selected group. It includes a filter input and a list of users: 'Administrator', 'Recovery', and 'User'. It also shows 'Showing 1 to 2 of 2 entries' and pagination controls.

Permission Groups

The Permission Groups table lists the available permission groups. Clicking on a row causes the Users table to populate with matching users.

Users

The Users table starts empty and populates once a Permission Group row is selected.


List Operations – Add Button

Click the add icon at the top of the list to add one or more users to a permission group. A dialog appears listing all users that do not have the indicated permission group. Select the users to add, then click Grant User(s) Access.

The screenshot shows a dialog box titled 'Add Users to Group ROLE_ELEVATED'. It contains a filter input and a list of users to be added. The list includes: 'Operator', 'Operator2', 'ReadOnly', 'SKDaifuku', 'su', and 'User'. Below the list, it says 'Showing 1 to 5 of 5 entries'. At the bottom, there are 'Close' and 'Grant User(s) Access' buttons.

List Operations – Delete Button

Click the delete icon at the top of the list to remove one or more users to a permissions group. A dialog appears listing all users that have the indicated permission group. Select the users to remove, then click Revoke User(s) Access.

 **Revoke User Access to Group `ROLE_ELEVATED`** ×

Select user(s) to revoke permission to group **`ROLE_ELEVATED`**

Filter:

User	
Administrator	
Recovery	
User	

Showing 1 to 2 of 2 entries

Previous **1** Next

Close **Revoke User(s) Access**

Warehouse Rx Web Client

Customer – Location

User Sessions

The User Sessions screens displays current login information.

Server Activity Details

Total Active Sessions(s): 4

The number of concurrent logins originating from client machines.

Administrator Sessions(s): 2

The number of logins with ROLE_ADMIN and ROLE_MASTER.

Distinct Active User(s): 4

The number of unique User Accounts currently active

Duplicate User Sessions(s): 0

The number of User sessions with duplicate User ID's

Activity

Refresh

On

Auto Refresh

Filter:

User Session	IP	Machine Name	Granted User Access	Login Time
Administrator	1 2 3 4	AdminLaptop	ROLE_ADMIN,ROLE_ELEVATED,ROLE_USER	Jun 28, 2019 12:11:40 PM
Operator	13.14.15.16	Operator123	ROLE_USER	Jun 26, 2019 10:12:00 AM
ReadOnly	5.6.7.8	AnonymousDesktop	ROLE_READONLY	Jun 27, 2019 2:04:39 PM
su	9.10.11.12	RemoteSupportDesk	ROLE_ADMIN,ROLE_MASTER,ROLE_USER	Jun 28, 2019 9:24:26 AM

Showing 1 to 4 of 4 entries

Previous 1 Next

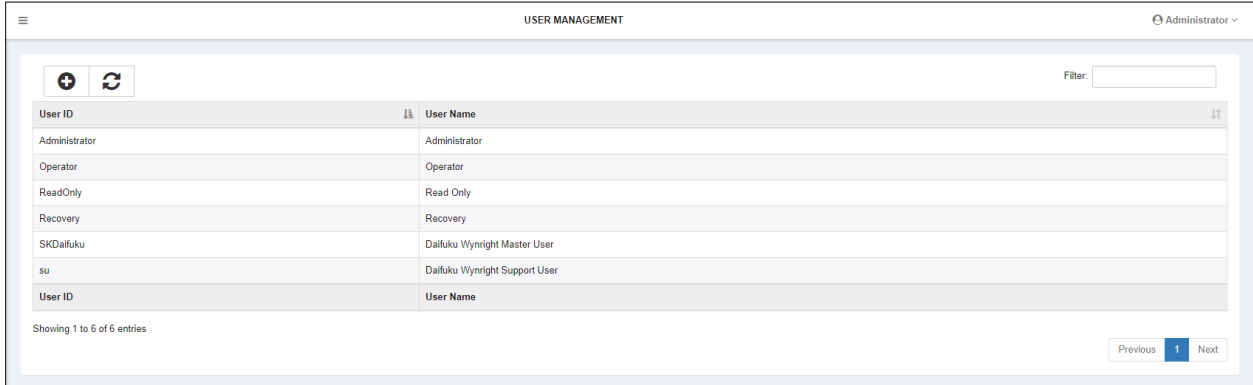
Column	Notes
User Session	User ID for the session.
IP	IP of the client machine.
Machine Name	Name of the client machine.
Granted User Access	Roles – See User Permissions.
Login Time	Date and time that the session started.

Warehouse Rx Web Client

Customer – Location

Users

The Users screen is for user management. Users may be added, modified, and deleted.

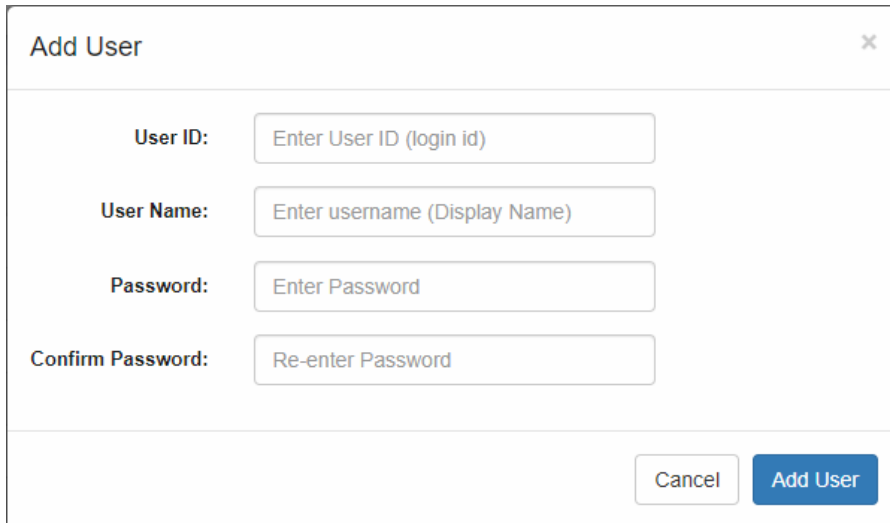


User ID	User Name
Administrator	Administrator
Operator	Operator
ReadOnly	Read Only
Recovery	Recovery
SKDalfuku	Dalfuku Wynright Master User
su	Dalfuku Wynright Support User

Showing 1 to 6 of 6 entries

List Operations – Add Button

Click the add icon at the top of the list to add a user.



Add User

User ID:

User Name:

Password:

Confirm Password:

List Operations – Context Menu

A pop-up menu is available with options depending on the user's roles. Right-click to display the pop-up menu.

- **Modify** – Modify the selected user. This option may be used to reset a user's password.
- **Delete** – Delete the selected tracking data. The equipment must be stopped to delete.

Help

The Help menu option opens this document.

Recovery Procedures

Insert recovery procedures here