RELEASE NOTES 16.0

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Simulation and Optimization of Warehouses

General Functionality

FEATURES

- **3D:** added date and time for modal window when we run the simulation in 3D;
- **LEA bot:** added basic bot modal to LE with the ability to add, move, smart-clone, resize and rename objects on the canvas;
- **Layout editor:** added window-confirmation while rotating station;
- **3D:** improved appearance of the text in Options panel when German language enabled;
- **Layout editor:** updated campaign menu, id of the campaign is visible in the campaign menu;
- **3D:** updated now remembers hidden transport processes and stations on reload;
- **3D:** racks with the 'Bulk Area' appearance now take the rack's fill color (black by default) instead of always showing black lines;
- **LEA bot:** added possibility to work with custom objects and transport processes;
- **Layout editor:** added the 'Move' feature for custom objects;
- **Layout editor:** added new checkbox 'Clone back to back' in smart clone;
- **Layout editor:** smart clone can now create copies to the left and upward as well as right and downward, by entering a negative distance value;
- **Layout editor:** added usage of ft and in instead of fractions in imperial system for measure distance;
- **LEA bot:** updated message history, maintains message history per user and per layout, adds the ability to delete message history and generates step-by-step plan and preview;
- **Layout editor:** campaign ID is now shown in the campaign menu;
- **LEA bot:** generating step-by-step plan and preview mode;
- **LEA bot:** possibility to add, move, smart-clone, resize, and rename a rack and update its properties panel;
- **Import layouts:** added a message about the number of allowed imported layouts, about skipped layouts, the ability to delete selected layouts and ability of re-selecting layouts in input window, after already several selected using 'Choose file';
- **Layout editor:** improved measurement by having several separate measurements at the same time on the layout;
- **Layout editor:** improved measure distance, set color for label, different line width and the coordinates are shown when the user leads the line;

IMPROVEMENTS

- **3D:** improved warning: 'Some elements are hidden: (the list of these elements)';
- **View:** added possibility to cancel 'Visualization by internal order';
- **View:** marking pick and put locations more clearly in 'Visualization by internal order', so the direction of the order movement (e.g. bin to bin) is easy to see;
- **View:** highlighting the order route in a color that contrasts with the transport net in 'Visualization by internal order', so it stays visible on layouts;
- **Search bar:** entered text in the search bar is no longer cleared when the mouse moves off it, and results show the icon of the menu section they belong to;

Direct Edit and Reporting

IMPROVEMENTS

- **Data import:** DBE import now fills blank cells of NOT NULL columns with the column default instead of rejecting the file;
- **Campaign tables**: Load Balancing results, Internal orderlines in process, Internal orders waiting for stock and Labor costs history moved from 'Orders' section to 'Campaign & scenario tables';

Algorithms

FEATURES

- **Sequenced assignment:** added parameter 'Consider product validity' allowing to store products in the same bins, which are not in the warehouse at the same time;
- **Create all internal orders for campaign**: added new parameter 'Transfer stock over waves' allowing to transfer stock from current wave to the next one;

IMPROVEMENTS

- **Create all internal orders for campaign**: improved warning 'N products have less quantity in initial stock levels', the 'Quantity' field represents the missing stock items and indicates the number of additional items taken from bins for a specific product;
- **Create all internal orders for campaign**: improved capacity calculation depending on put mode;
- **Create all internal orders for campaign**: grouped internal orders on higher stages now get the latest earliest start date and the earliest due date of the orders they combine;

Logistic Network Optimization

General Functionality

FEATURES

- **LNO:** added possibility to see layouts shared to the user with the Link layout to location function;
- **Flow context menu:** added link to Internal orders table;
- **Network statistic:** added direct links to Location candidates and Accounts tables;

IMPROVEMENTS

- **Scenario manager:** location candidates are chosen with a separate dropdown button in 'By location candidate' tab;
- **LNO map:** clustering accounts by flow color is now a separate checkbox under View → Cluster settings → By flow color;
- **LNO map:** flow context menu now has a link to the Internal orders table;
- **LNO map:** when linking a layout to a location candidate, layouts shared with the user are now available as well;
- **LNO map:** Location candidates table has a new 'Link' column, also shown in the location overview on the map, and clicking a link opens it in a new tab;

Direct Edit and Reporting

FEATURES

- **Reports:** added new Capacity report to evaluate capacity usage;
- **Internal orders table:** added 'Flow type' column to filter internal orders by flow type directly in the table;

IMPROVEMENTS

- **Data import:** improved data import, added possibility to cancel import as a long-term operation;
- **Location candidate capacity overview:** improved the report calculations;

Algorithms

FEATURES

- **Compute optimal flows:** added new logic for building flows if the Location candidates to the carrier compatibility table is filled;
- **Compute flows / optimal flows:** added 'Distance evaluation strategy' allowing to calculate flows using air or road distance;

IMPROVEMENTS

- **Compute cost**: road distance calculation via Valhalla is optimized and faster;
- **Compute optimal flows:** 'Use substitutes' parameter sets 'Consider product allocations' to true and locks it;

Platform

General Functionality

FEATURES

- **LLM integration:** W2MO can now be connected to AI assistants such as Claude as a remote MCP connector – users sign in with their W2MO account, and the assistant can query W2MO data and run W2MO tools (requires the 'AI actions' subscription option);
- **LLM integration:** the AI assistant can create its own working tables (named 'ai_lv_…'), which are registered in Direct Edit automatically and opened via the link the assistant returns; it can fill, rename and empty these tables;
- **LLM integration:** the AI assistant can add table actions to the tables it has created, so they can be run from Direct Edit like any other table action;
- **Layout export:** virtual cameras in the DXF export now have a marker at the camera position with a label showing the camera orientation (H/V) and mounting height;
- **Layout selector:** layouts can now be shared with and unshared from user groups, which gives all members of the group access with the selected role (user groups are set up by an administrator);

IMPROVEMENTS

- **LLM integration:** the AI assistant works with the access rights of the signed-in W2MO user and can change a layout only when the new 'AI actions' option is enabled in Layout settings (such layouts are marked with an AI icon in the Layout selector) and the user has editor rights; it never deletes layouts;
- **LLM integration:** the AI assistant can create and change warehouse data (e.g. orders, products, racks, stock, assignments) and run calculations such as compute flows, compute cost, labor costs and load

balancing through the standard W2MO functions, using the parameters last saved in the corresponding dialogs;

- **LLM integration:** the AI assistant can add, change and delete data in other W2MO tables only if they are listed for the layout in the new 'AI allowed tables' table (Direct Edit → Layout); it cannot change the structure of these tables;
- **LLM integration:** the AI assistant can create charts for its own tables; a chart is saved with the table and can be opened again from the table's 'DBE charts' menu in Direct Edit;
- **LLM integration:** the AI assistant can edit the layout open in the 2D Layout editor – add racks and custom objects (walls, doors, etc.), move objects and smart-clone objects into aisles; changes are applied only in a browser tab where 'Apply AI' is switched on;
- **LLM integration:** the AI assistant can add virtual cameras to a layout, change their position, orientation and lens, and show the camera planning heatmaps (virtual camera coverage, forks height detections) in the 3D view where 'Apply AI' is switched on;
- **User sign-up / login:** stronger password policy (12–32 characters with upper- and lower-case letters, a digit and a special character) with a strength indicator on sign-up, password change and password reset; users whose password does not meet the policy must set a new one after login;
- **User sign-up / login:** user names can now be up to 32 characters long (previously 16); on sign-up and password recovery the error message names the character that is not allowed;
- **Security:** protection against password guessing is now enabled for all users by default – after 5 failed login attempts the login is temporarily blocked; protection against cross-site attacks was strengthened;
- **Contact us:** the support chat now runs on Zulip and sends an automatic reply when you write outside working hours;

Direct Edit and Reporting

IMPROVEMENTS

- **Data import:** 'Import data' table action in 'Orders and orderlines (complete)' now shows the number of created products, orders and orderlines, how many rows were not imported (with the reason in the 'Error message' column), and 'No data to import' when the table is empty;
- **Virtual products table:** new products get 'Virtual' = true by default and the field is read-only, so products added in this table no longer disappear from it;

DBE

FEATURES

- **New DBE:** the column list in the filter builder now has a search field, so you can find a column by typing the start of its name;
- **New DBE:** in 'View child / parent records' the three tables you open most often from a table are listed at the top, marked with a star;

IMPROVEMENTS

- **DBE import:** the date format entered in the import dialog is now validated; an invalid pattern shows a warning and the file cannot be uploaded until it is corrected;
- **New DBE:** Add row and Clone rows dialogs now show only the columns visible in the table; mandatory columns are always shown;

- **New DBE:** clicking an empty area around the table (e.g. free space in the toolbar or page header) clears the row selection;