

Release notes for Pro.Lean 4

Current release 4.2.72

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Build number: 4.2.72

Platform compatibility: 4.2.352.RC1 or upper

Release date: 2023-01-12

What's new in 4.2.72

| New Item | Details |
|-----------------------------------|---|
| Oee Summary Screen | Added a new screen that allows the user to see the history of the lots and jobs that have been worked in the history of the plant. From this screen is also possible to call Lot and Shift reports regarding the selected row. |
| ProLean and ProEnergy integration | Added a feature that allows a customer that has both ProLean and ProEnergy on the same server to link a ProLean resource to any number of ProEnergy meters, thus allowing to calculate the energy consumption and expense for any lot or shift. The data is shown in the new Consumption screen and in the existing reports. The configuration is done in a new step of the ProLean Wizard. |
| Graphic and UX rework | A full graphic and UX rework of the screens |
| Reports | Optimized the loading time of many reports |
| Web | Various fixes on the screens to make them work as they should on the WPF WebClient |
| Alarm History Screen | Added a screen that allows the user to see the history of the alarms on a certain resource and add a comment on a certain alarm if needed |
| Lot and Shift Realtime dashboard | The Realtime dashboard has been split in two different dashboards, one shows the data for the current lot and the other one shows the data for the current shift |
| Lost alarms pre assignment | Added a new feature that allows the user to pre-assign the next lost alarm for a certain resource, also adding a comment for the Alarm (this can be seen in the Alarm History screen) |

What's new in 4.2.71

| New Item | Details |
|---------------------|--|
| Wizard | Changed step 4 to allow configuration of the new Plant/Department/Resource structure |
| Report | Added the factory or department parameter to the OEE Summary Report |
| Report | Added the new Factory / Department report |
| Overview Screen | Added a new start screen with a treeview that show the OEE data for Plant / Department and Resources |
| Manual Scrap Screen | Added a new screen that gives the possibility to manually add or remove scraps for a certain working lot |
| Holidays Screen | Added a new screen that gives the possibility to modify the existing holidays or to add new holidays |
| Web Client | Addressed various issues on the HTML5 WebClient version of ProLean |

What's new in 4.1.63

| New Item | Details |
|----------|---|
| Wizard | Fixed an issue when upgrading from a version older than 4.1.61 |
| Report | Fixed issues when showing data of overnight shifts |
| Report | Fixed the calculation of the field Pc/Min on Summary tab report |

What's new in 4.1.62

| New Item | Details |
|-----------|---|
| Downtimes | Modified the default sorting of Ranking by duration and Ranking by frequency charts |
| Report | Fixed an issue on the OEE Shift Detail Report that in some situations showed |

wrong data

What's new in 4.1.61

| New Item | Details |
|-------------|---|
| Job | The Job can be left null. In any case, the pieces will be counted, the alarms managed and the Availability and Quality KPIs calculated. |
| Lot | The Job can be left null. For an asynchronous Resource can be left null Lot In or Lot Out or both. In any case, the pieces will be counted, the alarms managed and the Availability and Quality KPIs calculated. |
| Shifts | It is now possible to configure shifts without the obligation to cover 24 hours. During the periods in which there is no configured shift, the pieces will still be counted, the alarms managed and all the KPIs calculated. The data of these periods will be shown on the dashboard and on the reports with custom shift label "No shift configured". |
| Alarms | They are now managed on both lots of an asynchronous resource in case the lot in is different from the lot out. |
| Lost Alarms | Now all open Lost Alarms can be assigned, no longer just those from the last shift. Furthermore, they can be assigned as soon as they start, no longer only after they have closed. |
| Lost Alarms | After a configurable number of days (default 7), the unassigned Lost Alarms will be automatically assigned to a generic "Unknown" alarm. |
| OEE | Pieces are counted if the Resource is available and running. This functionality is configurable (default 0 = false). In the final step of the wizard the possibility to modify this configuration has been added. To maintain compatibility with the past, when upgrading from a previous Pro.Lean version this configuration is set to 1 (true). |
| OEE | Uptimes and BreakDowns are calculated only when the Resource is available. For example when the Resource goes from available = running = 1 to available = running = 0 a Breakdown will not be counted. |
| OEE | If the Data Logger fails to connect to the database, when it has the connection again it inserts all the rows that it failed to insert in the disconnected period. These lines were never processed until now. A function has been added that in cases like this goes to process counters and alarms for the rows retrieved from the Data Logger, integrating the information already on the database up to |

close the data hole created during the disconnected period. The procedure runs every 60 minutes. It is considered stop, when no data arrives for a period of time that can be configured in seconds (default 600).

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| OEE | The procedure for calculating the counters and managing the alarms has been completely re-engineered to improve performance and be able to manage hundreds of Resources without blocking or slowing down the system. |
| OEE Screens | Completely renewed graphics for all OEE screens. |
| Downtimes | Modified the calculation of the MTBR, dividing by the Breakdowns instead of the Uptimes. |
| Downtimes | Edit the Status Description labels to make them clearer. Statistics values are now calculated based on stops (Resource available but not running) instead of periods of inactivity (Resource not available). |
| Realtime | Fixed an error on the data per shift that in the case of a shift that ends the next day aggregated the data also by day, so after midnight the data were no longer related to the entire shift but only from midnight onwards. |
| OEE Job Rates | If enable a Job associated with a Recipe that is not active, the Recipe will also be enabled, after a confirmation request from the user. |
| OEE Recipes | If disable a Recipe associated with one or more active Jobs, the Jobs will also be disabled, after a confirmation request from the user. If delete a Recipe associated with one or more active Jobs, an error message is shown. If delete a Recipe associated with one or more inactive Jobs, the Jobs will also be deleted, after a confirmation request from the user. |
| Maintenance / History | Every 60 minutes a procedure is called that takes care of the maintenance of the main tables. The OEE values and alarms are cleared after a configurable number of days (default 3654 = 10 years). |
| Raw Data | Once processed, the Raw Data are moved to a separate table and kept for a configurable number of days (default 60), in order to perform targeted analyzes in the event of errors reported. |
| Data Logger | It is now possible to configure the recording time interval of the Data Logger (default 10 seconds). |
| Realtime Data Refresh | It is now possible to configure the refresh time interval of the Realtime data (default 5 seconds). In any case, a maximum possible value is foreseen, which can always be configured (default 60 seconds) in order not to delay the data update too much and show the user any lot, job or shift changes in a short time. |

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| Report | The reports have been optimized, especially as regards the initial opening. |
| Multipliers | Their use was better detailed in the recipe step. Furthermore, their application has been modified, now it is possible to apply an input and an output multiplier at the same time. |
| Wizard | On Location step, checks have been added that do not allow to proceed next step if the path provided manually is incorrect. |
| Wizard | On Resources step, a "Hide not active Resources" check has been added for the grid. |
| Wizard | On Resource step, when delete a Resource historical data are not deleted to keep the history on the reports. |
| Wizard | On Resource step, when rename a Resource also historical data descriptions are updated to keep the history on the reports. |
| Wizard | On Resource step, columns "No Job" and "No Lot" are added. For No Job resources, in Tags step the Job field to attach the tag to is not shown, for No Lots the Lot fields and, if the resource is asynchronous, LotOut are not shown. If all the resources are No Job, the Recipes and Jobs steps are skipped. If only some resources are No Job in the Job step you will not be asked to insert lines for No Job resources. |
| Wizard | On Recipes step, a "Hide not active Recipes" check has been added for the grid. |
| Wizard | On Recipes step, if disable a Recipe associated with one or more active Jobs, the Jobs will also be disabled, after a confirmation request from the user. If delete a Recipe associated with one or more active Jobs, an error message is shown. If delete a Recipe associated with one or more inactive Jobs, the Jobs will also be deleted, after a confirmation request from the user. |
| Wizard | On Recipes step, clicking on the information image opens a popup with an explanation of how the multipliers work and some examples. |
| Wizard | For reasons of maintaining the history, the elimination of a recipe has become only logical. |
| Wizard | On Job step, a "Hide not active Jobs" check has been added for the grid. |
| Wizard | On Job step, the Recipe combobox contains only those enabled. |
| Wizard | If enable a Job associated with a Recipe that is not active, the Recipe will also be enabled, after a confirmation request from the user. |

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| Wizard | For reasons of maintaining the history, the deletion of a Job has become only logical |
| Wizard | On Tags step, the parameter name has been made more user friendly, translated based on the database language set and only the alarms configured in the Downtime Causes step for the Resource are visible and associable with a tag. |

Release 4.1.60

Download: [Click to download](#)

Build number: 4.1.60

Platform compatibility: 4. 1.326.27521 or upper

Release date: 2021-07-26

What's new in 4.1.60

| New Item | Details |
|----------|--|
| Wizard | New DataLogger management. If user deletes columns or the whole DataLogger from .Next project, at wizard Resource step columns or DataLogger will be recreated and associated to Tags previously set. If user changes Tags associated to DataLogger columns from .Next project, the wizard does not overwrite the set value but align old system value to the one set by the user. |

Release 4.0.54

Download: [Click to download](#)

Build number: 4.0.54

Platform compatibility: 4.0.298.25075 or upper

Release date: 2021-06-21

What's new in 4.0.54

| New Item | Details |
|----------|---|
| Wizard | Performance improvement, in particular the final step times have been greatly reduced in the presence of many resources with many alarm tags. |

Release 4.0.53

Download: [Click to download](#)

Build number: 4.0.53

Platform compatibility: 4.0.298.25075 or upper

Release date: 2021-02-24

What's new in 4.0.53

| New Item | Details |
|--------------|---|
| OEE | KPI thresholds can now be customized for each resource by changing the red, orange and green colors for gauge controls and reports. There is also a settings screen for changing values and save them in the database. |
| ProdStatus | Now production statuses can be extended beyond the default values Running, Available and Stop, by inserting new records into tbProdStatusCfg and defining attributes and color for each of them. The ProdStatus tag server script can be customized to define different status rules on each resource. Alarms management remains the same. |
| Dashboard | An hamburger menu is now always available to the upper right corner of the dashboard for navigating the configuration screens (OEE settings included). Multiple report tabs have been replaced by a single reports tab which contains buttons to reach each of them, and two new tabs have been added to the main dashboard. |
| Productivity | A new dashboard tab focuses on performance with a complete overview of the overall productivity of the selected resource in a selectable time frame, by using charts, pareto and views to represent production data. Some parameters (column visibility, widths and pareto colors) can be customized in a separate settings file. |
| Downtimes | A new dashboard tab focuses on downtime and alarm events occurring over a selectable time frame, using dedicated timeline charts and views. ProdStatus is represented in a pie chart that plots time broken down by status and a view that log any change in status in the current time range. Alarms are plotted in a timeline graph that compares them to each other. Some parameters (pareto colors) can be customized in a separate settings file. |
| Reports | Parameters now display resource name instead of resource description, and |

some minor layout optimizations have been applied.

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| Wizard | Step 2 now offers the option to bind a remote Pro.Lean database, which must already have been preconfigured or upgraded on the remote machine. |
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Bug fixes in 4.0.53

| New Item | Details |
|----------|---|
| Wizard | Fixed “Invalid column name” error when importing downtime reasons from an external file |

Known issues in 4.0.53

| New Item | Details |
|----------|---|
| OEE | As soon as the data collection system starts, it assumes that the current availability and running flags are valid from the beginning of the current shift until now, even if raw values are missing (<i>USp_FillResourceEventTb</i>) |

Release 4.0.52

Download: [Click to download](#)

Build number: 4.0.52

Platform compatibility: 4.0.298.25075 or upper

Release date: 2020-12-14

What's new in 4.0.52

| New Item | Details |
|-----------|---|
| Dashboard | Removed refresh rate box |
| Dashboard | Removed 24h constraint in shift definition |
| Dashboard | Clean up of dashboard when there is no active shift |
| Dashboard | Job target quantity is now hidden if not set |

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|-----------|--|
| Dashboard | Notification for no valid job or no active shift with user message |
| Dashboard | Keep aspect ratio set for every webclient screen |
| Dashboard | Notification when database connection is broken |
| Wizard | Layout and configuration of database in step 2 refactored |
| Wizard | Removed 24h constraint in shift validation of step 8 |

Bug fixes in 4.0.52

| New Item | Details |
|-----------|--|
| Dashboard | Fixed Close button behavior |
| Dashboard | Realtime screen now can be opened directly, setting the right temporary variable before (a message box pops up to explain the requirement) |
| Dashboard | Now resources not active aren't displayed in combo boxes of settings screens |
| Dashboard | KPI static thresholds aligned with reports |
| Dashboard | Fixed the "empty grid" bug in Lost Alarms |
| Dashboard | Fixed combo box behavior via web client |
| Report | Fixed report availability via web client |
| Report | Fixed calculations in report RptOEESummary |
| Wizard | Fixed language selector no save bug in step 2 |
| Wizard | Fixed downtime reasons import procedure |
| Wizard | Fixed downtime reason duplication feature |
| OEE | Fixed calculations for CounterType 3 resources |
| OEE | Fixed multipliers handling for input/output quantity calculations based on UM |

Known issues in 4.0.52

| New Item | Details |
|----------|---|
| OEE | As soon as the data collection system starts, it assumes that the current availability and running flags are valid from the beginning of the current shift until now, even if raw values are missing (<i>USp_FillResourceEventTb</i>) |
| Wizard | An “Invalid column name” error occurs when importing downtime reasons from an external file |

Release 4.0.51

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Build number: 4.0.51

Platform compatibility: 4.0.298.25075 or upper

Release date: 2020-10-14

What's new in 4.0.51

| New Item | Details |
|-----------|---|
| Dashboard | Popup screens now also adapt to the display resolution |
| Dashboard | Added a button to close the dashboard |
| Wizard | Clear data statements have been optimized |
| Wizard | Now when you need to save the current step data a message is displayed |
| Upgrade | Added automatic shrinkage of log files before and after the upgrade procedure and started to use compressed backups to reduce disk space requirements |

Bug fixes in 4.0.51

| New Item | Details |
|-----------|---|
| Dashboard | KPI gauges now display the right even when opening the screen |
| Scripting | OEE_LostAlarms tag added to OEE_LoadTags_OEE preload script |

Wizard Now SQL authentication is correctly managed

Known issues in 4.0.51

| New Item | Details |
|-----------|---|
| Report | Starting from platform version 4.0.298.25075, reports are no more rendered on webclient. It is needed to set AllowReportCodeFormat flag to True in web.config file on IIS to view reports correctly |
| Webclient | Starting from platform version 4.0.298.25075 combobox controls doesn't work anymore, so webclient access is limited in functionality |
| Wizard | Database language selection in step 2 doesn't work |
| Wizard | Downtime reasons import procedure doesn't work |
| Wizard | Downtime duplication feature doesn't work correctly |
| Dashboard | Starting from platform version 4.0.298.25075 the Close button don't close dashboard anymore |
| Dashboard | Opening directly Realtime screen generates a runtime script error |
| Dashboard | Resources not active are displayed in combo boxes of settings screens |
| OEE | Resources of CounterType 3 don't calculate any data |
| Wizard | Downtime reasons import procedure doesn't work |
| Wizard | Downtime duplication feature doesn't work correctly |

Release 4.0.50

Download: [Click to download](#)

Build number: 4.0.50

Platform compatibility: 4.0.295.117 only

Release date: 2020-08-04

What's new in 4.0.50

| New Item | Details |
|--------------|--|
| Localization | Now database have a current language that the user can change using the wizard, and every text inserted as UM, alarm, alarms group or shift is saved with the current language (you can also translate it by changing current language and update) |
| Localization | Now localized texts in .csv files are automatically imported in Movicon project |
| Scripting | Core scripts in OEE_Manager_OEE has been migrated to server side to avoid delay in client registration of tags and achieve better overall performance |
| Dashboard | A brand new dashboard is introduced to navigate between resources from the same unique screen, optimized for realtime presentation and for a better understanding of the KPIs involved. Old resource-specific screens are removed |
| Security | Now database implements a new security mechanism to avoid tampering of the procedures involved in licensing |
| Upgrade | Now upgrade is managed by an external tool that can be used in command prompt to upgrade remote database in multi server scenarios |
| OEE | The raw values aging is now controlled by a system parameter (Infold 4), and any raw value processed by ResourceEvents procedure considered too old is immediately deleted |
| OEE | Added OEE_Job_Target_quantity tag to allow the indication of the production progress in the new dashboard |
| OEE | Added a new ProdStatus tag, stored in tbResourceProdStatus Historian table, that you can use to declare (by scripting) the current resource status based on device tags or custom criteria. ProdStatus is used to represent availability and running time in the new dashboard |

Known issues in 4.0.50

| New Item | Details |
|-----------|---|
| Dashboard | Red color on KPI gauges at screen opening in some machines (hardware related) |
| Dashboard | Popup screens cannot fit the display resolution |

| New Item | Details |
|-----------|--|
| Dashboard | Reference not found message in popup screens Job rates and Recipes moving the mouse over the buttons |
| Scripting | OEE_LostAlarms resource tags are not preloaded in OEE_LoadTags_OEE client script |
| Upgrade | The database log files during the upgrade procedure may become very large |
| Wizard | SQL Authentication is not properly managed |
| Wizard | Downtime reasons import procedure doesn't work |
| Wizard | Downtime duplication feature doesn't work correctly |