



Laboperator v4.13.0

Changelog

2023-01-13

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v4.13.0 - 2023-01-13

Added

- [Deployment & Maintenance] Now the system responsible for collecting data points is being monitored with logs and performance information.
- [API] Added support for authentication via custom Identity Providers including the new Labforward IAM system using an access token.
- [Workflows] The Workflow Editor now supports user authentication via the Labforward IAM (workflow-editor v1.10.0)

Changed

- [Devices] When exporting data points the timestamps are now displayed in human readable format.
- [Devices] The response of the enrollment process with the devices has been updated to match all configurations.

Fixed

- [Devices] All weighing devices from Sartorius: update software dependencies and TS testing style (driver-sartorius-sbi v4.4.1).
- [Devices] RCT digital and RCT digital (Dual-Operation) from IKA: update software dependencies and TS testing style (driver-ika-rctdigital v5.2.1).
- [Devices] System Health Monitor from labforward GmbH: update software dependencies and TS testing style (driver-system-health v1.1.1).
- [Workflows] Update the custom attributes of a device via the command *update_resource* will now properly trigger the audit trail and log the changes.
- [Workflows] Fixed an issue where the Linechart wouldn't be displayed correctly.
- [Deploy & Maintenance] Fixed the version of a dependency which was preventing emails from being sent from the test environment.
- [Users] Fixed an issue that was causing a warning message to be displayed after log in via IAM.
- [API] The API documentation for Laboperator is now publicly accessible.
- [Audit Trail] Fixed an issue which prevented specific audit trails from being exported.
- [Workflows] Fixed an issue that resulted in Workflow Templates being incorrectly filtered and displayed according to their 'published' status. (workflow-editor v1.10.0)

v4.12.0 - 2022-12-20

Added

- [Workflows] Two new String “case conversion” routines: *UPCASE* and *DOWNCASE* were added to template scripting.
- [Dashboard] New units of *Practical Salinity* and *Megaohms* were added to the HI5522 device from the manufacturer Hanna Instruments.
- [Workflows] Workflow runs can now be filtered by several attributes such as *Title*, *Custom attributes*, *Workflow Run Execution status*, *Created at* and *Last updated at*.
- [Workflows] The Workflow Editor API now supports basic operations for Workflow Step Templates. (workflow-editor v1.9.0)
- [Devices] DMA Series from Anton Paar: new device (driver-anton-paar-dma v1.0.0).

Changed

- [Organizations] When accessing the *New Organization* page without having a license, a link will be displayed that when clicked will redirect the user to the license request form.
- [Users] Prompt for re-authentication, when signing workflows or approving secrets, now is configurable on the installation settings.
- [Workflows] Optimizations in the evaluation of the user permissions leading to better performance.
- [Devices] All weighing devices from Sartorius: improve stability by refactoring to TypeScript (driver-sartorius-sbi v4.4.0).

Fixed

- [Deploy & Maintenance] Several performance improvements regarding the database indexes used with json data.
- [Administration] The application version number is now restored and visible at the admin page.
- [Users] Creation of users with the same email address is now possible and won't override existing users.
- [Deploy & Maintenance] Fixed an issue that caused data migration to raise errors on fresh installations. Now data migrations won't be called if no previous database exists.
- [Collections] Fixed an issue that was preventing some resources from being hidden due to not applicable validations being performed upon them.

v4.11.0 - 2022-12-02

Added

- [Organizations] Customers who had on-premise installations using Replicated were limited to customize only their main domains for our products. With this new release we are adding the possibility of configuring specific sub-domain names for all applications.
- [Dashboards] Dynamic device channels and commands are now distinguished properly in the UI with a lightning icon.
- [Workflows] The Workflow Editor now supports basic markdown formatting. (workflow-editor v1.8.0)

Changed

- [Workflows] Several improvements were made to the workflow runs to allow better performance in database communication.
- [Devices] System Health Monitor from labforward GmbH: improve stability by refactoring to TypeScript (driver-system-health v1.1.0).

Fixed

- [Audit Trail] When a user commits a change in a step field of a template it is now recorded correctly to the audit trail with the reference to the step that was changed.
- [Workflows] Accessing the resources of type "version" is now fixed via the workflow "get_resources" function.
- [Devices] Fixed an issue that sometimes would make the "last_response_at" of the command execution history of a device to show dates way in the future.
- [Workflows] When creating a workflow run from a template, the user will now only see templates that have not been hidden.
- [Workflows] Fixed an issue that could prevent PDF files from being saved as attachments.
- [Collections] Fixed an issue in the custom/resource attribute filter on the "home" page of collections that was displaying only the first twenty custom attributes.
- [Workflows] Fixed an internal behavior when dividing by numbers with a big decimal part, that would lead to imprecision in the results.

v4.10.0 - 2022-11-21

Added

- [Organizations] Organization admin are already able to configure how date/time values should be displayed across the application. With this release they can now separately define how date (without time) values should be displayed across the application.
- [Devices] inoLab Multi 9630 IDS from WTW: new device (driver-inolab-multi v1.0.0).

Changed

- [Dashboard] Make the notification for pending Device Dashboard updates from Dynamic probes more prominent.
- [Workflows] Notification of Workflow Runs pertaining to its execution status will now only be displayed when the users are actually viewing the respective Workflow execution.
- [Workflows] Validate presence of title and version fields when creating Workflow Template drafts. (workflow-editor v1.7.0)

Fixed

- [Dashboards] Improve processing performance of incoming data points.
- [Workflows] Improve API serialization performance of workflow runs
- [Workflows] Improve validation of workflow templates, which would now ensure valid relation to the resources being referred to in the workflow fields.
- [Workflows] Fix missing change reason from audit trail, when the changes are triggered by the system during Workflow execution
- [Workflows] Fix visibility of the main menu's toggle button when the organization is using custom theme colors
- [Workflows] Fix issue with completing review of workflow run in environments which are configured only with SSO authentication.
- [Workflows] Fix text wrapping in workflow tables
- [Devices] SevenExcellence from Mettler Toledo: fix driver parameters and support for different probe types (driver-mt-sevenexcellence v1.1.0).
- [Workflows] Fix duplicate and redundant network requests when editing a Workflow Template. (workflow-editor v1.7.0)
- [Workflows] Prevent adding conditions with empty condition statements to the Workflow Template flow. (workflow-editor v1.7.0)
- [Workflows] Fix Workflow Template drafts from being temporarily editable immediately after being published. (workflow-editor v1.7.0)

v4.9.0 - 2022-11-04

Added

- [Workflows] To ensure format compatibility, table cells whose data is of the date-time format will now be editable using a date picker instead of regular text input element.
- [Workflows] Completed workflow run can be configured to trigger the review flow. Which would allow peers to check and confirm valid execution of said run. The review will need to be finalized with an e-signature.
- [Workflows] Allow saving and switching between drafts of workflow templates. You will now be able to save in-progress workflow templates without losing progress and be able to continue editing it at a different time (workflow-editor v1.6.0)

Changed

- [Dashboard] Improve readability of the public dashboard when viewed in full screen, by using larger font sizes and thicker lines, to ensure that scientists can read the information when the dashboard is displayed on a wall-mounted TV screen.

Fixed

- [Workflows] Fix issue in GetResources action when filtering for resources by their custom attributes.

v4.8.1 - 2022-10-21

Added

- [Workflows] The Workflow Editor now supports If-Then-Else conditions in the template flow. (workflow-editor v1.5.0)

Changed

- [Users] Allow multiple user accounts with duplicate email addresses when the installation is configured with SSO strictly as the only method of authentication.

Fixed

- [Connectors] Fastly reduce memory usage of the connector page, which improves general reliability and performance.

- [Dashboards] Fix issues which affect some dashboard elements from correctly displaying the latest value of the configured channels.
- [Devices] Fix issues where data points are recorded with the server timestamp, instead of with the timestamp that is captured by the drivers when the data point is received. The two timestamps might have milliseconds differences, and given that data points might be processed by the server out of order, it was also possible for the server to record the data points in the wrong order.
- [Devices] Mixer 50 from Esco-Labor: fix typos (driver-esco-mixer-modbus v1.0.2).
- [Workflows] The system will now detect and inform users from double clicking on buttons in workflows. This will help protect the system from data inconsistency that could be triggered by unexpected calculations being performed in parallel.
- [Workflows] Improve performance of snapshot calculation, which would improve the observed performance that users see when updating field values, and when completing steps and substeps.
- [Workflows] Fix validation for global field names in field mapping configuration when adding Workflow Step Templates to the flow. (workflow-editor v1.5.0)

v4.8.0 - 2022-10-06

Added

- [Workflows] The Workflow Editor now supports overwriting the default title of a step for each of its references within a Workflow Template flow. (workflow-editor v1.4.0).
- [Devices] SevenExcellence from Mettler Toledo: new device (driver-mt-sevenexcellence v1.0.0).
- [Devices] Cubis II MCA from Sartorius: new device (driver-sartorius-sbi v4.3.0).
- [Devices] All weighing devices from Mettler Toledo: driver parameter for preventing manual operation (driver-sicsserial v2.6.0).
- [Devices] All weighing devices from Mettler Toledo from: driver parameter for preventing manual operation (driver-sicstcp v1.3.0).

Changed

- [Navigation] The main navigation menu design is updated to better align with our updated design system
- [Workflows] Remove artificial limits of maximum 4 buttons in step definitions.
- [Workflows] Workflow Templates published to Laboperator via the Workflow Editor now use their title as the file name when downloading the template from within the application. (workflow-editor v1.4.0)
- [Devices] All weighing devices from Sartorius: improved weight parsing (driver-sartorius-sbi v4.3.0).

- [Devices] All weighing devices from Mettler Toledo: improved weight parsing (driver-sicsserial v2.6.0).
- [Devices] All weighing devices from Mettler Toledo from: improved weight parsing (driver-sicstcp v1.3.0).

Fixed

- [Workflows] Fixed issue that caused nested flow items to be removed from the Workflow Template flow when editing a flow condition. (workflow-editor v1.4.0)
- [Devices] Sensor (MQTT) from essentim GmbH: improve the dynamic channel processing (driver-essentim-mqtt v1.0.1).

v4.7.2 - 2022-09-22

Added

- [Devices] VariRef from S+H: new device (driver-sh-variref v1.0.0).
- [Workflows] The Workflow Editor now supports configuring the context information settings of a Workflow Template. (workflow-editor v1.3.0)

Changed

- [Devices] Selekt from Biotage: support for remote API rev. 4 (driver-biotage-selekt v2.0.0).
- [Navigation] The navigation bar design is updated to better align with our updated design system
- [Workflows] Improved performance of loading Workflow Step Templates in the Workflow Editor by implementing a paginated "Load More" functionality. (workflow-editor v1.3.0)

Fixed

- [Dashboards] Fix download of attachments displayed in file table elements, impacting installation which already have sufficiently large data points recorded.
- [Devices] Fixed issue when updating device drivers, impacting drivers without predefined dashboard include.
- [Devices] Mixer 50 from Esco-Labor: fix negative pressure values and pause command (driver-esco-mixer-modbus v1.0.1).
- [Workflows] Fixed issue that would prevent adding an item to the Workflow Template flow inside a nested condition. (workflow-editor v1.3.0)

v4.7.1 - 2022-09-08

Added

- [Devices] Direkt T from Thermofühler GmbH: new device (driver-therma-direkt-t v1.0.0).
- [Devices] IP Camera from Axis Communications: new device (driver-axis-camera v1.0.0).

Changed

- [Workflows] The Workflow Editor now highlights the currently active page in the main navigation. (workflow-editor v1.2.0)

Fixed

- [Dashboards] Improve performance when editing dashboard layout
- [Dashboards] Dynamically created Dashboard Elements initiated by updates from the Device will now deterministically be appended after existing elements
- [Workflows] Fix issue with some workflow field types not displaying the correct value persisted in the database.
- [Workflows] Mapping Workflow Step Template fields to global fields in the Workflow Editor now sets all respective local field attributes also on the mapped global field. (workflow-editor v1.2.0)

v4.7.0 - 2022-08-25

Added

- [Workflows] When authoring workflow templates, workflow designer can now decide to apply "formatSpecifier" conditionally via table rules
- [Workflows] Allow to display change reason icons in a read only manner. This can be useful when workflow designers want to indicate that certain cells in a table are only editable via workflow behaviors instead of via direct user input.

Changed

- [Devices] When upgrading device drivers and there are multiple compatible drivers found, the system would now prefer to use the latest driver defined by the buildpack. This

change of behavior can be observed when upgrading device drivers that either gets renamed, or superseded by a different driver class.

- [Workflows] Device statuses will no longer be displayed in completed workflow runs.
- [Workflows] Network response messages in the Workflow Editor now appear in the user's chosen application language (workflow-editor v1.1.0).

Fixed

- [Collections] Fix various minor issues with searching for resources by their name.
- [Organization] In a fresh on-premise installation which is configured to authenticate users via SSO, the first user who signs up will now be asked to create a new organization. There's no longer a need to manually create a new organization beforehand.
- [Workflows] Display of time within tables will now respect the organization settings. To get the desired effect, the underlying table data must have the proper data schema definition including "type: string" and "format: date-time".
- [Devices] 2mag Mix (Serial): dependencies and configs updated, parameters schema fixed, removed deprecated field (driver-2mag-mix v2.2.1).
- [Devices] 2mag Stirring Hotplate 6 (Serial): dependencies and configs updated, parameters schema fixed, removed deprecated field (driver-2mag-stirring-hotplate v2.0.1).

v4.6.0 - 2022-08-11

Added

- [Audit Trail] When reviewing audit trail, user can now bulk expand/collapse details of all audit trail entries
- [Devices] Cedex Bio HT Analyzer (Serial/SiLA) from Roche: commands to insert and remove racks (driver-roche-cedex-serial-sila v1.2.0).

Changed

- [Devices] In addition to added/removed channels, user will also now be warned of added/removed commands when upgrading/downgrading device drivers.
- [Devices] VIAFLO, VIAFLO-4634, and VOYAGER-4724 from INTEGRA: stability improvements and standardization of command and channel naming. The naming change is a breaking change for existing workflows (driver-integra-viaflo v3.0.0).

Fixed

- [Connector] Improve page performance when viewing connector with sufficiently large number of connected devices

v4.5.0 - 2022-07-28

Added

- [Dashboards] Organization admin may now disable the public dashboard feature via feature flag toggle when necessary.
- [Devices] Select device drivers will now send raw data received from devices as additional data points. The raw data is persisted in the database and may be referred to as necessary for GxP audit.
- [Resources] When viewing resources under collection, users may now filter the resources by custom attributes defined by the organization.
- [Workflows] The updateResource action within workflows are now able to update values of custom attributes of resources
- [Workflows] Early access to the Workflow Editor which enables non-technical users to visually construct workflow templates based on previously uploaded step templates. The editor is available for access on our on-cloud installation. Contact us for support to enable it in your on-premises installation.
- [Devices] Mixer 50 from Esco-Labor: new device (driver-esco-mixer-modbus v1.0.0).
- [Devices] UART Shield from SmartLab Solutions: new channels and commands (driver-smartlab-uart-shield v1.1.0).
- [Devices] All Sartorius balances supported by driver-sartorius-sbi: send raw data for weight channel (driver-sartorius-sbi v4.2.0).
- [Devices] All Mettler Toledo balances supported by driver-sicsserial: send raw data for weight channel (driver-sicsserial v2.5.0).
- [Devices] All Mettler Toledo balances supported by driver-sicstcp: send raw data for weight channel (driver-sicstcp v1.2.0).

Changed

- [Exports] Format of audit trail exports and login attempts report are updated to make the content easier to understand, and to also allow inclusion of customizable logos.

Fixed

- [Dashboards] Fix issues where some elements are showing as forbidden when viewing a public dashboard.

- [Resources] Fix issues where the timestamp for hidden resources is not displayed correctly.
- [Workflows] Fix display of field with type file
- [Workflows] Fix issue in mapping local steps of external step templates

v4.4.0 - 2022-07-14

Added

- [Administrations] Add support for registering custom attributes which can be associated with all resources inside collections. These attributes can be used to store organization specific data, and the values will be available for further processing from inside workflows. Which would enable greater flexibility in designing workflows.

Fixed

- [Workflows] Fix issue where webhook response are recognized with the wrong content type, making the data inaccessible from inside workflow scripting

v4.3.0 - 2022-06-30

Added

- [Devices] Sensor (MQTT) from essentim GmbH: new device (driver-essentim-mqtt v1.0.0).
- [Devices] XPR (TCP) from Mettler Toledo: new device (driver-sicstcp v1.1.0).
- [Devices] XSR (OPC-UA) from Mettler Toledo: new device (driver-opc-ua-weighing v1.0.0).
- [Dashboards] Dashboards can now be shared with non-registered users in read-only mode.
- [Workflows] Allow workflow designers to write workflows with webhooks that download a file and save it as an attachment.

v4.2.0 - 2022-06-16

Added

- [Workflows] Allow workflow designers to write workflows with webhooks that communicate in data types other than JSON.

- [Workflows] Allow workflow designers to access the change reason of field updates in scripting.
- [Webhooks] Added support for using short internal domain names for approved webhook URLs.

Changed

- [Audit Trail] Allow users to filter Audit Trail by multiple event types.

Fixed

- [Devices] VIAFLO from INTEGRA, VIAFLO-4634 from INTEGRA, VOYAGER-4724 from INTEGRA: use latest build dependencies (driver-integra-viaflo v2.1.2).
- [Organizations] Fixed UI bug in user in profiles to correctly display user initials.
- [Deployment] Remove conflicting configuration settings for custom system certificates.

v4.1.0 - 2022-06-02

Added

- [Devices] Osmomat 3000 from Gonotec: new device (driver-osmomat v1.0.0).
- [Devices] Cedex Bio HT Analyzer (Serial/SiLA) from Roche: commands to control orders and start/stop the device (driver-roche-cedex-serial-sila v1.1.0).
- [Devices] Cedex Bio HT Analyzer [SiLA Client] from Roche: new device (driver-sila v1.3.0).
- [Usability] Support for displaying the application, and to set user preferred language, in French
- [Workflows] Support for querying accessible resources during workflow execution. To achieve this, a new action called "getResources" is added to workflow behaviors.

Changed

- [Devices] Buddy from bAhead: updated definition with latest SiLA definition (driver-sila v1.3.0).
- [Workflows] When the last step of a Workflow is completed, if the user executing the Workflow does not have the permission to add a step to a dynamic Workflow, then the Workflow will automatically be considered as completed.

Fixed

- [Collections] Fixed navigation to parent collection in the collection selector being shown when managing resources inside collections
- [Workflows] Fixed error when trying to permanently delete a Workflow Run

v4.0.0 - 2022-05-20

Added

- [Devices] UR10 from Universal Robots: new device (driver-ur-dashboard v1.0.0).

Changed

- [Resources] Archival of resources are replaced with hiding of resources. The changes are mostly cosmetic with minimum expected impact on user's ability to manage their resources.
- [Devices] R-300, R-220 pro, SyncorePlus from Büchi: simplified driver parameters. An upgrade to this version requires manually updating the parameters. (driver-buchi-openinterface v2.0.0).

Removed

- [API] APIv1 of Laboperator was deprecated since release of Laboperator v2.17.0 and is finally removed
- [Administrations] Management of user permissions and access to resources via ACL is removed in favor of RBAC.
- [Audit Trail] Activities page is removed in favor of Audit Trail
- [Collections] With the removal of ACL, the ability to review ACL permissions and filter resources based on ACL roles is also removed
- [Connectors] Non-functional attributes are removed from the Connector edit form and info panel.
- [Exports] Support for exporting to remote Network Drive is removed.
- [Organizations] The explicit distinction between Administrator and Member is removed in favor of assigned roles and permissions via RBAC

Fixed

- [Dashboards] Fixed issue with invalid count of data points in Line Chart elements
- [Exports] Fixed issue with export with sufficiently large amount of data points
- [Workflows] Fixed issue with outdated snapshot observed in workflows which have behaviors written to sequentially update a field and complete substep/step within a single action.