LANEXO™ Lab Inventory, Safety and Compliance Management System

Release Notes

LANEXO™ System Release Notes provide a brief insight into updates on the Mobile and Web Applications.

It uses a number logic for the releases of Mobile App and Web App, where the first digit on the version number indicates a new major release with brand new features. The second digit indicates minor releases which adapt existing features, and the last digit is intended for bug fix or security fixes only.

Intended Audience

All customers and users of the LANEXO™ System.

Note

Users might have to analyze the impact for additional validation needs of the Application at their site, after the release.

Version History

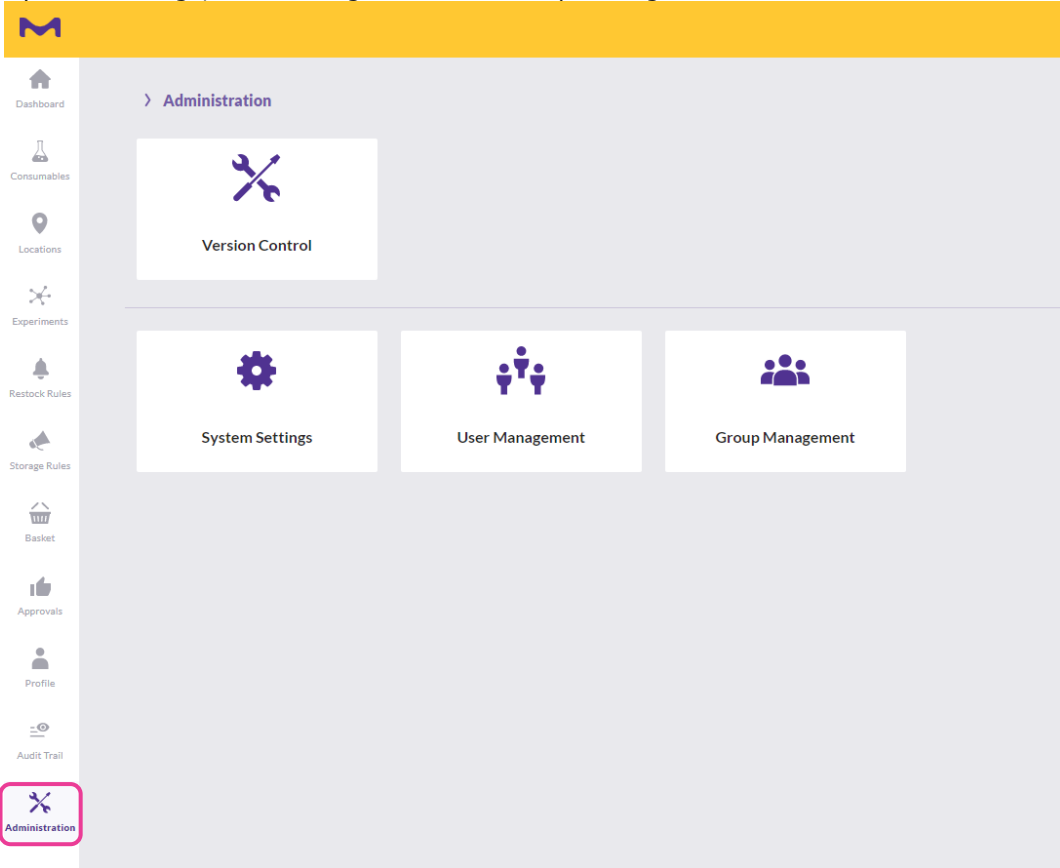| Date	Version	Description
28-MAR-2022	V2.0.0	LANEXO™ 2.0 Mobile App and Web App

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LANEXO™ System v2.0

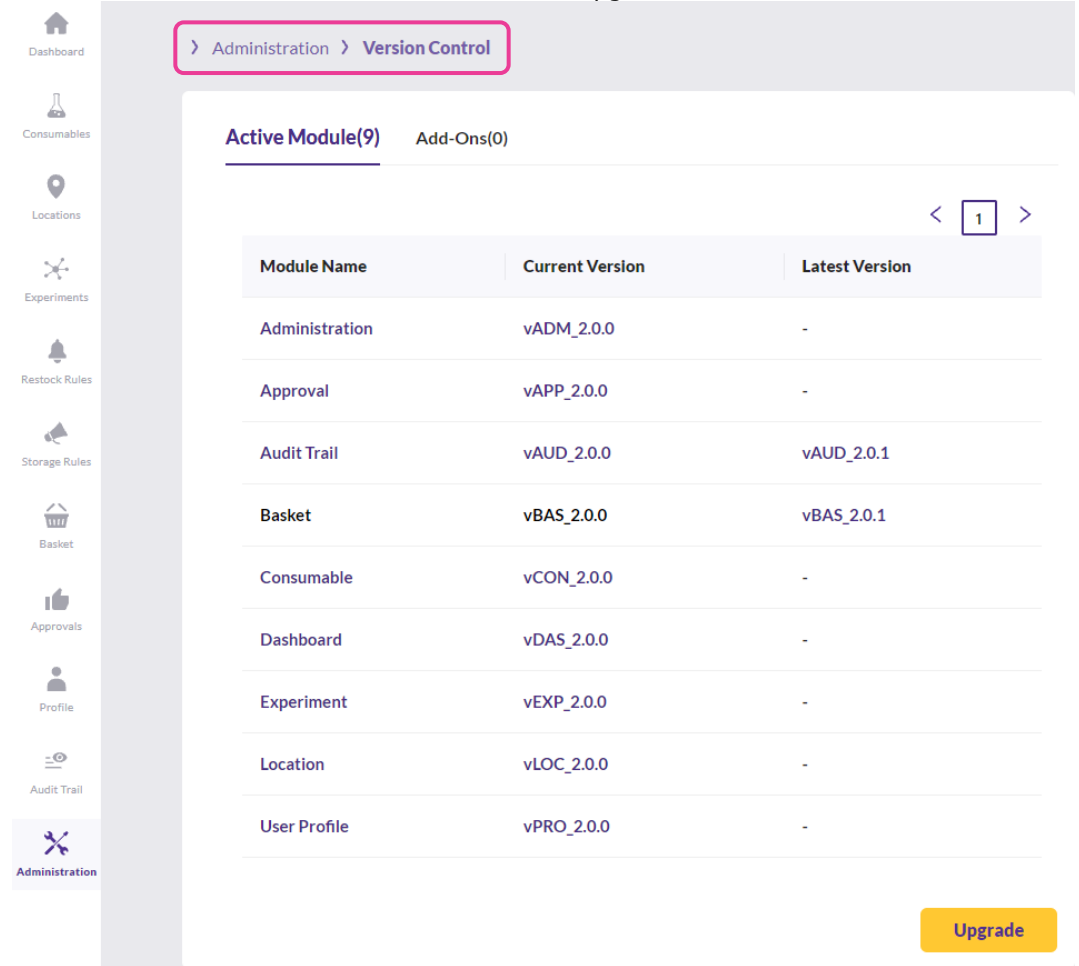Release Date: 28-Mar-2022

Resolved Issues

The following tables detail the new features/improvements, resolved issues such as bug fixes and security fixes in this release.

New Features / Improvements

Feature	Description
Administration	**Administration menu** on Web App for all the admin settings such as Version Control, System Settings, User Management and Group Management. Customer data is available in separated database schemes to offer various product versions in parallel and fulfill data security requirements.

The functional menus are offered as modules. Upgrade to new versions when desired.

LANEXO Admin can identify from where the user got the roles inherited and add roles that are not directly assigned via User Group.

| Approval | Harmonized User Interface shows all open approvals as a list under the 'Approval' menu on the Web App. |

Object Name	Object Number	Approval Category	Change Requested On	Change Requested By
(2R)-[(tert-butoxycarbonyl)amino] (2-chlorophenyl)ethanoic acid	021S800306060448	Consumable Approval	08-11-2021	Anmol Bansal
(1-Methyl-piperidin-4-yl)-acetic acid hydrochloride/ 95%	021S184899496562	Consumable Approval	08-11-2021	Anmol Bansal
(1-Methyl-piperidin-4-yl)-acetic acid hydrochloride/ 95%	021S184899496562	Consumable Approval	08-11-2021	Anmol Bansal

Audit Trail

Audit trail module to trace all activities within LANEXO with search filters and export function for an auditor role.

Consumables

Improved User Interface for volume deduction of the consumables.

Consumables list on the Web App has been adapted for easy interpretation of the meaning:

- 'Open' field on the table shows status as Open, Sealed, n/a
- Filter 'Open' lists drop-down Open, Sealed, n/a
- Filter 'Type' lists drop-down Sample, Article
- Check marks are shown for the fields Expired, Disposed, Missing, Restock, Reordered, Rework Required

| **Experiment** | Capture the volume of the input consumables and output consumables under the 'Experiments' menu. |

| **User Profile** | The new user creation on Mobile App now does not show the Select a default location screen. |

Bug Fixes

Feature	Description
Approval	Approvals of article edit highlight other unedited fields. This has been fixed.
Audit Trail	Consumable audit trail did not show parent experiment linked with the registered sample. This has been fixed.
Backend	Wrong credentials entered during web login does not show an error. This has been fixed.
	Fix reported mobile app crashes from Firebase reported mobile app crashes. This has been fixed.
	Email configuration to send notification from APAC AWS region did not trigger emails. This has been fixed.
	Mobile app did not clear the cache after re-selecting the AWS region. This has been fixed.
	Hardcoded AWS region settings have been updated with automated scripts.
Basket	Under the create restock rule, searching for articles second time shows the list of items that are not the same as previous search rather random ones. This has been fixed.
	Restock rules could not be used for consumables with identifier labels. This has been fixed.
	The actual amount of consumables in restock rule email notification was showing wrong data. This has been fixed.
	Basket rules did not automatically update after the arrival of reordered items. This has been fixed.
	Viewing of restock rules by selecting page numbers or arrows to navigate did not show the right view in web app. This has been fixed.
	The article number was missing in basket JSON and XML export. This has been fixed.
	Confirmation of basket reorder items shows an unknown error. This has been fixed.
Consumables	Registering known article batch shows batch not found error. This has been fixed.
	Scanning a registered label in the registration process shows error but show enabled 'Finish registration' button and duplicate cache of the article is seen. This has been fixed.
	Modification of flag of a consumable show triple entry instead of one in the user activities. This has been fixed.
	When a user without the edit permission tries to create a new substance, an "unknown" error is shown. Now, the error message has been updated to show permission missing.
	Consumable registration by scanning new labels in batch shows error as labels in use. This has been fixed.
	2D Barcodes of Sigma Aldrich causes an error while scanning. This has been fixed.
	Article data updates were not saved correctly. This has been fixed.
Dashboard	My activities did not show consumable rework status update details. This has been fixed.

Experiment	Under Experiments, if a user deletes an experiment then a confirmation popup message is displayed which shows Delete Experiment title twice. This has been fixed.
	Running experiment by one user could be concluded by another user. This issue has been fixed.
	Experiment manager role could not see the experiments that they assigned to other users. This has been fixed.
Location	Label shows error if multiple consumables will be relocated after registration. This has been fixed.

Security Fixes

Feature	Description
Web	The session timeout in hours is too long and need to be configured in minutes. This has been fixed.
Mobile	Root detection of the mobile devices has been implemented.
	Debug enabled on mobile app has been fixed.
Data Security	JAVA log4j containing a vulnerability has been fixed.
	Unencrypted HTTP Communication (Web, Android) has been fixed.
	Missing HTTP Security Headers has been fixed.
	Missing Security Cookie Attributes has been fixed.
	Improper handling of errors has been fixed.
	Cross-Site Request Forgery (CSRF) has been fixed.

Note for regulated customers

With the changes on the software, the validation status of the Application needs to be reestablished by the user. Please reach out to us at LANEXO@merckgroup.com to receive the IQ/OQ documentation for your validation analysis.

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Customer Support

In case of technical questions, please reach out to us at LANEXO@merckgroup.com.

Below find the customer support contact details:

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