

LabWorX 4.0 Release Notes

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Prepared By

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2. Overview

LabWorX 4.0 includes several improvements to the user interface, bug fixes, and feature enhancements.

3. LabCentral 4.0

3.1. Automated Naming for New Devices

When creating new devices, the device ID is automatically suggested in the Add New Device dialog.

Add New Device Dialog



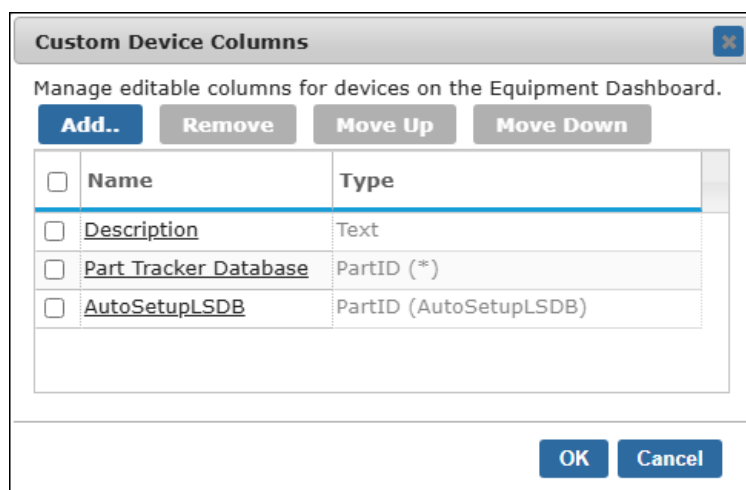
The 'Add New Device' dialog box contains the following fields and controls:

- Portable:** A checkbox that is currently unchecked.
- Type:** A dropdown menu with 'Chamber' selected.
- ID:** A text field containing the suggested ID 'ChamberDev_36'.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

3.2. Custom Device Columns

The Custom Device Columns dialog now allows you to specify the column type when creating new custom columns for the Equipment Dashboard. Column types include **Text** and **PartID**, where **Text** columns allow users to enter descriptive text while **PartID** columns allow users to pick a part ID from a part tracker database.

Custom Device Columns Dialog



The 'Custom Device Columns' dialog box includes the following elements:

- Title Bar:** 'Custom Device Columns' with a close button.
- Instructions:** 'Manage editable columns for devices on the Equipment Dashboard.'
- Buttons:** 'Add..', 'Remove', 'Move Up', and 'Move Down' buttons.
- Table:** A table with columns 'Name' and 'Type'. It lists four custom columns: 'Description' (Text), 'Part Tracker Database' (PartID (*)), and 'AutoSetupLSDB' (PartID (AutoSetupLSDB)). Each row has an unchecked checkbox in the 'Name' column.
- Footer:** 'OK' and 'Cancel' buttons.

☐	Name	Type
☐	Description	Text
☐	Part Tracker Database	PartID (*)
☐	AutoSetupLSDB	PartID (AutoSetupLSDB)

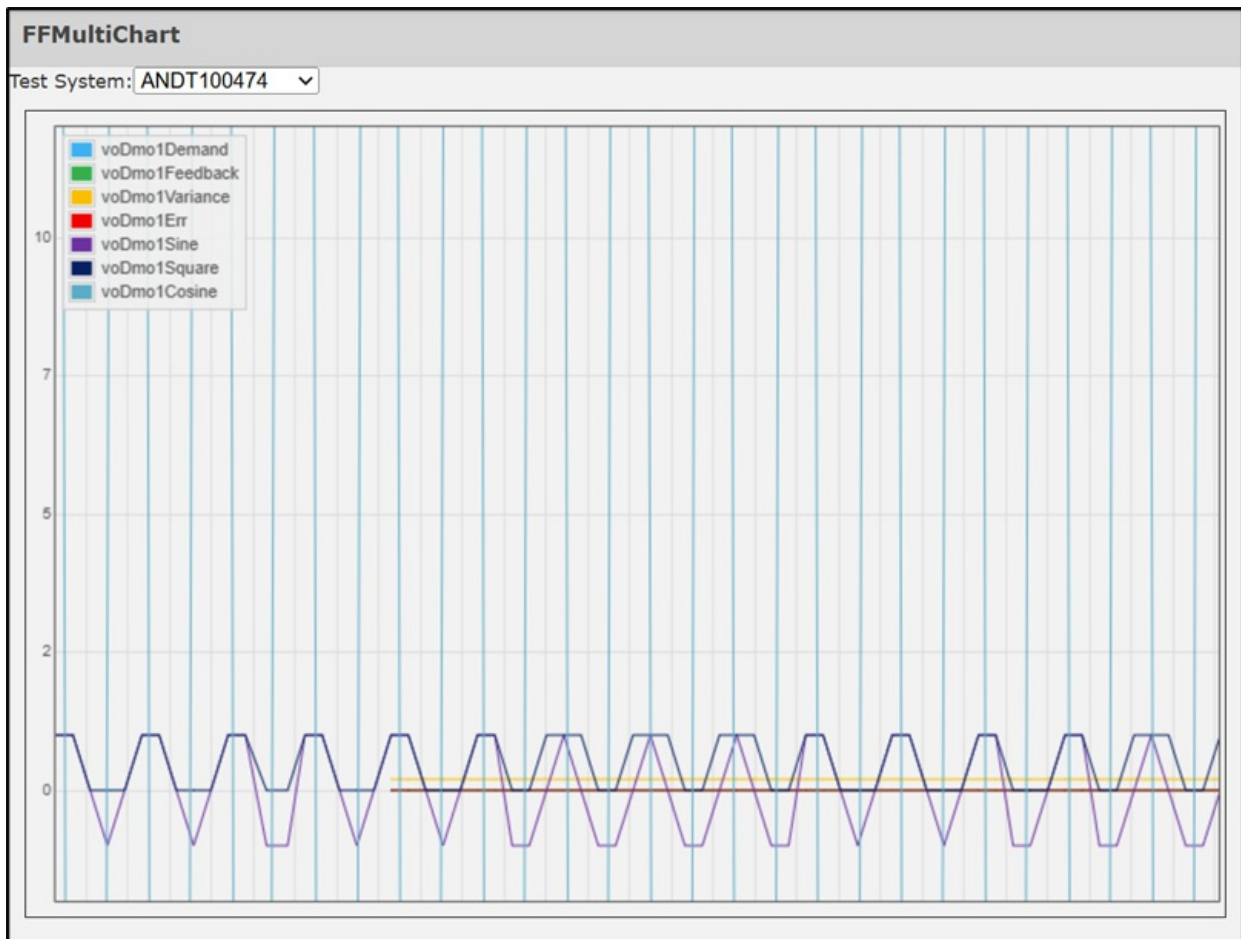
3.3. Daily DocFlows

When saving a regulation for a test group, all necessary Daily DocFlows for a specified date range will be automatically created.

3.4. Dashboard Chart Objects

The Chart object for Standard and Free-form dashboards now supports displaying multiple channels.

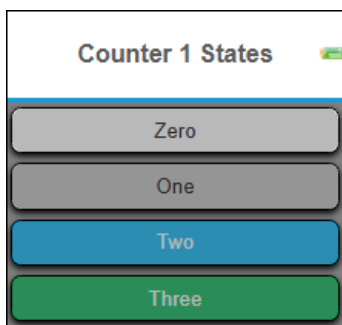
Chart Panel: Multiple Channels



3.5. Dashboard Radio Button Objects

The Radio Button object is now available for dashboards. This object allows you to set target channels to pre-defined values when pressed. Based on the channel's current value, the active button will remain pressed.

Radio Button Object Example



3.6. Diagnostic LOLs from Lab Files

The Test System Group Editor now allows you to pick an LOL file in lab files and automatically send it to the stations' active solutions. This gives LabCentral more control over the logged diagnostic channels.

Diagnostics - Send to Stations

3.12. DocFlow Macros

The following macros are now supported for Equipment DocFlows:

New Macros

Macro	Description
\$DEVICE.ID\$	The ID of the device.
\$DEVICE.<COLUMN_NAME>\$	The value of the specified device column.
\$DEVICE.<COLUMN_NAME>.DBNAME\$	The part tracker database from PartID custom device columns.
\$DEVICE.<COLUMN_NAME>.PARTID\$	The part ID from PartID custom device columns.

3.13. DocFlow Part Tracker Data Panels

The Part Tracker Data panel now supports the **Read** command. This command allows the panel to read the specified parameter when triggered by another panel during a DocFlow.

3.14. DocFlow Sections

DocFlow stages can now be organized into sections that group similar tasks and/or act as workflow checkpoints. These sections can be restarted during the DocFlow's workflow, where the stage assignee can send the DocFlow back to the beginning of its section while skipping any intermediate stages.

DocFlow Sections

Stages	Add	Remove	Move Up	Move Down	Add Section		
☐	Name	Parent	Color	User\Group	Action Type	Restart Section	
☐	Section1						
☐	Stage1		#d8d8d8	(click to assign)			
☐	Stage2		#8db3e2	(click to assign)			☒
☐	Section2						
☐	Stage3		#b8cce4	(click to assign)			
☐	Stage4		#b7dde8	(click to assign)			☐

3.15. DocFlows Added to Solr

DocFlow properties are now mirrored to LabCentral's Solr database on save, which substantially improves the loading times throughout LabCentral for any pages listing multiple DocFlows.

Any DocFlows created before 4.0 are automatically added to Solr the first time LabCentral 4.0 starts. This upgrade is expected to take between 5 and 15 minutes. LabCentral's web interface will be inaccessible during this upgrade.

3.16. Facet Indexing

LabCentral now supports facet indexing. This allows you to filter by different values of a DAT file's data rows on the Test Data Search page. Facet indexing can be enabled on the **Server Settings > Upload** page.

3.17. LabCentral Home Page

The LabCentral home page has been updated to provide a more customizable interface for users to display certain items based on their own preferences.

Home Page

Home Page ?					
▼ Home Page Default System Link - Home Page System Link - New Tab Web Link (Google) - Home Page Web Link (Google) - New Tab Web Link (LR) - Home Page Web Link (LR) - New Tab Part Tracker - Home Page Part Tracker - New Tab Saved Search - Home Page Saved Search - New Tab Utilization Report - Home Page Utilization Report - New Tab Dashboard Link Lab Files Folder	Dashboard Report: Default				
	Limit Status	Name	System Type	Status	Limit State
		0B1AC261-3E2F-4		Not Connected	0.00
		45143.Station		Not Connected	0.00
		ANDT100488		Not Connected	0.00
		ANDT100533		Not Connected	0.00
		ANDT100543		Not Connected	0.00
		CELL7		Not Connected	0.00
		EQUDDUMMY_1		Not Connected	0.00
		ITEST01		Not Connected	0.00
		ITEST01-DN		Not Connected	0.00
		KM-HYPERV		Not Connected	0.00
		NEWSTATION10000		Not Connected	0.00
		REDLINE1		Not Connected	0.00
		SWDEVTEST		Not Connected	0.00
		TEST-BENCH-11111		Not Connected	0.00
		VirtualABC		Not Connected	0.00

3.18. Manage Dashboards Page

The Manage Dashboards page has several quality-of-life functions, including grouping, column sorting, and filtering, as well as import, export, and duplicate functions.

Manage Dashboards

Manage Dashboards ?						
Add Save Delete Import Export Duplicate						
	Name ▲	Type	Menu	Group	Permissions	Description
	Multi					
☐	FFMultiChart	Free-form	☐		Group	Uses Solution.Demo channels
☐	FFMultiChartDupe	Free-form	☐		Group	Uses Solution.Demo channels
☐	FFMultiChartImport	Free-form	☐		Group	Uses Solution.Demo channels

3.19. Manage DocFlow Templates

The Manage DocFlow Templates page now supports using filtering to locate specific templates by name, description, category, and whether they collect test data. In addition, you can click the  for a DocFlow template to view all of its associated changes.

DocFlow Templates Manager

Manage DocFlow Templates ?					
New Delete Save Duplicate Export Import					
☐	Template	Description	Version	Category	Test Data
☐	DocFlow1	DocFlow Example	 5	Project	☐
☐	DocFlow2	DocFlow Example	 4	Test Request	☒
☐	DocFlow3	DocFlow Example	 6	Test Process	☐

3.20. Part Tracker - New Column Types

The following column types have been added for part tracker parameters:

New Part Tracker Column Types

Column Type	Description
Date	A calendar date that uses the YYYY-MM-DD format.
Picklist	A picklist from the Manage Lab Files's <i>Picklists</i> folder. When editing a part tracker database, you can select one of the values from the specified picklist.

3.21. Part Tracker - New Settings

The following settings have been added to the Part Database Configuration Details page:

New Part Tracker Settings

Setting	Description
Part ID Max Length	The maximum number of characters allowed for new part IDs. By default, this field is set to an empty value, indicating that new part IDs are not restricted by the number of characters.
Summary	When checked, the parameter will display in LabScheduler's Select Parts dialog, allowing you to view more information about the part while making a test request. The maximum number of summary parameters per database is 5.

3.22. Replacement Warnings

Devices can now be assigned a **Device Administrator**, where this user/group can service and replace assigned devices. These users are notified when their devices are close to expiring and/or require replacement. In addition, the device's "End of Life" warning threshold and notification time can be specified on the Manage Equipment page.

Manage Equipment Page

Manage Equipment ?

Save

AddDeleteTypes..Time Units: HoursColumns..Show Maintenance Period ☒ DocFlows ☒ Notification Time of Day:

☐	ID	Portable	Name	Type	Maintenance Period	Lifetime	EOL Warning	Device Administrator	DocFlow
☐	neware_xyz	☐	Neware XYZ	Cell Tester	0h	0h	720h	(none)	(none)
☐	ChamberDev_1	☒	ChamberDev_1	Chamber	1h	1h	720h	(none)	(none)
☐	ChamberDev_2	☒	ChamberDev_2	Chamber	1h	1h	720h	(none)	(none)
☐	ChamberDev_3	☒	ChamberDev_3	Chamber	1h	1h	720h	(none)	(none)
☐	ChamberDev_4	☒	ChamberDev_4	Chamber	1h	1h	720h	(none)	(none)

3.23. Select Master Name Dialog

The Select Master Name dialog now allows you to select the type for new master names during their creation.

Select Master Name Dialog

Select Master Name



Select a predefined name or add a new one. Use Ctrl+Click to unselect a selected name.

Add New

	Name	Label	Type	Description
☐	<u>voSysLimitState</u>	Limit State	Numeric	Dashboard ^
☐	<u>LimitStatus</u>	Limit Status	Numeric	Dashboard
☐	<u>numSysCircuits</u>	Number of Circ...	Numeric	Battery Mo
☐	<u>voSysNumOfCir...</u>	Stopped/Compl...	Numeric	Battery Mo
☐	<u>voSysNumOfCir...</u>	Stopped/Faulted	Numeric	Battery Mo
☐	<u>voSysNumOfCir...</u>	Idle	Numeric	Battery Mo
☐	<u>voSysNumOfCir...</u>	Paused	Numeric	Battery Mo
☐	<u>voSysNumOfCir...</u>	Running	Numeric	Battery Mo
☐	<u>UserName</u>	Username	String	iView - Use
☐	<u>vsSysTestName</u>	Test Name	String	iView - Nar
☐	<u>tBatt</u>	tBatt	Numeric	Circuit Mon
☐	<u>tAmbient</u>	tAmbient	Numeric	Circuit Mon
☐	<u>tChamber</u>	tChamber	Numeric	Circuit Mon
☐	<u>Current</u>	Current	Numeric	Circuit Mon
☐	<u>Voltage</u>	Voltage	Numeric	Circuit Mon
☐	<u>Power</u>	Power	Numeric	Circuit Mon
☐	<u>AmpHrs</u>	AmpHours	Numeric	Circuit Mon v

OK

Cancel

4. LabScheduler

4.1. DocFlow Engine Test Requests

The **Test Station**, **Building**, and **Weighing Chamber** fields in DocFlow Engine test requests now display a status icon to indicate the status of the device's associate DocFlow completion and the device's expiration date.

4.2. New Test Processes

LabScheduler now supports the following test processes:

- **Automated-LA:** A ZIP file sourced from the *Test_LA* folder.
- **Manual-DocFlow:** A DocFlow template that uses the **Test Process** category sourced from the Manage DocFlow Templates page.

4.3. Select Parts Dialog

The Select Parts dialog now supports column sorting and includes a substring filter text box that allows you to filter through the list of parts.

Selecting Existing Parts - Multi-Part Test Requests

Select Parts

Part Type: Large_Battery_Inventory

Part ID

00000000

0220307AA800

0220307AA960

02206B060058

02206B080415

02206B080446

0220868A0009

0220868A0013

0220868A0020

0220868A0038

0220868A0041

0220868A0042

0220868A0054

Displaying parts 1-100 of 3664.

Prev

1

2

3

4

5

...

34

35

36

37

Next

OK

Cancel

5. LabCam

5.1. LabCam Web Service

The LabCam web service has been added to LabWorX. This service provides live streaming of camera video and PTZ control. In addition, this service can be used in tandem with LabCentral's **Free-form Dashboards** feature, where users can control the camera video.

6. LabAgent

6.1. Detecting Subsystem Types

LabCentral can now identify the subsystem type for connected stations via the `SubSystemType` *config.ini* setting.

7. Deprecated Features

7.1. LabCentral Inbox - Load All

The **Load All** feature on the LabCentral Inbox page has been deprecated. Now the inbox re-queries when filtering and sorting through notifications.

8. Product Life Cycle Matrix

The following matrix details the LabWorX Product Life Cycle:

LabWorX Product Life Cycle

Product Version	Year																		
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
iCentral 2.5	-	✓	✓	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
iCentral 2.6	-	-	✓	✓	0	X	X	X	X	X	X	X	X	X	X	X	X	X	X
iCentral 2.7	-	-	-	✓	✓	0	X	X	X	X	X	X	X	X	X	X	X	X	X
iCentral 2.8	-	-	-	-	✓	✓	0	X	X	X	X	X	X	X	X	X	X	X	X
iCentral 2.9	-	-	-	-	-	✓	✓	0	X	X	X	X	X	X	X	X	X	X	X
LabWorX 3.0	-	-	-	-	-	-	✓	✓	0	X	X	X	X	X	X	X	X	X	X
LabWorX 3.1	-	-	-	-	-	-	-	✓	✓	0	X	X	X	X	X	X	X	X	X
LabWorX 3.2	-	-	-	-	-	-	-	-	✓	✓	0	X	X	X	X	X	X	X	X
LabWorX 3.3	-	-	-	-	-	-	-	-	-	✓	✓	0	X	X	X	X	X	X	X
LabWorX 3.4	-	-	-	-	-	-	-	-	-	-	✓	✓	0	X	X	X	X	X	X
LabWorX 3.5	-	-	-	-	-	-	-	-	-	-	-	✓	✓	0	X	X	X	X	X
LabWorX 3.6	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	0	X	X	X	X
LabWorX 3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	0	X	X	X
LabWorX 3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	0	X	X
LabWorX 3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	0	X
LabWorX 4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	0
Legend																			
Current Version									✓										
Bugfix Only									0										
Not Supported									X										
Not Available									-										

9. OS Compatibility Matrix

The following matrix details the LabWorX OS Compatibility:

LabWorX OS Compatibility

OS to LabWorX Compatibility	Windows	LabWorX Versions									
		3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	
Server Products	Windows Server 2008 R2	✓	✓	✓	X	X	X	X	X	X	
	Windows Server 2012 R2	✓	✓	✓	✓	X	X	X	X	X	
	Windows Server 2016	✓	✓	✓	✓	✓	X	X	X	X	
	Windows Server 2019	X	X	✓	✓	✓	✓	✓ ₁	✓ ₁	X	
	Windows Server 2022	X	X	X	X	✓	✓	✓	✓	✓	
	Windows Server 2025	X	X	X	X	X	X	✓	✓	✓	
Client Products	Windows 7 Pro 64 bit	✓	✓	X	X	X	X	X	X	X	
	Windows 10 Pro / IoT	✓	✓	✓	✓	✓	✓	✓	✓	X	
	Windows 11 Pro / IoT	X	X	X	X	✓	✓	✓	✓	✓	
Legend											
Supported						✓					
Not Compatible						X					

1 Unicode lab file/folder names and properties not supported