

Thermo Fisher Scientific Niche Diagnostics Center of Excellence Clinical Diagnostics 46500 Kato Road, Fremont, CA 94538 510-979-5000 510-979-5002 fax www.thermoscientific.com

Date:July 14, 2021To:Laboratory Director, Laboratory Manager and Laboratory PersonnelSubject:LabLink xL Software Release Notes – Version 2.1.5.5

Dear LabLink xL Software User,

As part of Thermo Fisher Scientific's mission to continuously improve customer satisfaction and the quality control management process, we will release the following updates to Thermo Scientific[™] LabLink xL[™] software on July 31st, 2021. During the update window, LabLink xL servers will be offline. Auto-Connectivity software will continue to collect data throughout the planned maintenance and automatically transmit it to LabLink xL after the servers come back online. While usually not necessary, a restart of your computer or Auto-Connectivity software may be required after the update to restore any automated data transfer processes to LabLink xL software.

Upon the successful rollout of the new release, a notification about the changes will display when you log in for the first time. Below are the release notes for version 2.1.5.5.

GENERAL IMPROVEMENTS

- 1. New Missing QC feature for alerting Users when QC data is not received within the Laboratory's configured timeframe.
- 2. New Event Type Tracking feature allows Users to associate specific event types with a given date/time.

FIXES

3. Fixed an issue where data was not displaying on the Levey-Jennings graph when the apostrophe punctuation mark was inputted in the comments section.



General Improvements

1. New Missing QC feature for alerting Users when QC data is not received within the Laboratory's configured timeframe

LabLink xL software now supports Missing QC alerts when QC data has not been received within the laboratory's specific time period. This feature is configurable on the laboratory level and will therefore apply to all Users associated with the given laboratory.

This feature is configurable by User Elite and User Intermediate permission levels. It is also specific to laboratory accounts that have the Daily Module enabled.

To access this feature, navigate to **Settings > Laboratories > Edit**. Ensure the laboratory time zone is configured correctly. This time zone is required as it will be used to calculate the hour(s) difference between each data point to confirm whether any QC data points are missing.

Laboratories	>	Laboratory Setup - Edit	
Users	>	Lab Information	
Manage Account Request	>	Lab Code: 55555	
Auto-Communicator	>	Merge ID	Name * [Thermo Fisher Scientific - USA
Manage Custom Request	>	Type LLxL Y	Address 1 46500 Kato Roads
Zopim Chat	>	Address 2	City Fremont
Maintenance Tool	>	Address 3	Province / State
Associations	>	Zip	Computer Support Phone
Resource Center Maintenance	>	94538 Country Code	
Consolidations	>	United States v	1
Data Mining	>	UTC-08: 00) Pacific Time (USA & Canada)	

Setting up the Laboratory Time Zone

Navigate to **Settings > Missing QC Reminders Setup**. Select the appropriate Department, Instrument, Lot, and Test to apply the Missing QC Reminders.

Missing QC Reminders Setup - Thermo Fisher Scientific - USA (55555)
This page is used to setup how frequently QC tests are expected to be run. If QC data is not received within the timeframe configured here, it will be flagged on the Daily Data Table
Department:
Chemistry ~
Instrument:
< ALL > ~
Lot:
< ALL >
Test:
< ALL > ~
Time zone not configured. You can configure it in the Lab settings

Setting up the Missing QC Reminder Configuration

Once the appropriate Instrument(s), Lot(s), and Test(s) are selected, scroll down the page and input the number of hours under the respective fields for "Warning Time Out" and "Action Time Out".

Instrument 🗖	Lot	Test	Warning Time Out (in hours)	Action Time Out (in hours)
ABBOTT AEROSET, Test Release	AA22021A	Ammonia	1	3
ABBOTT AEROSET, Test Release	AA22022A	Ammonia		
ABBOTT ALINITY C, Chemistry	CXL21121	Creatine Kinase-MB (CK-MB)		

In the example image above, the application will display a yellow warning on the Daily Data screen if more than 1 hour has passed and no QC data has been submitted for that profile. The application will display a red action time out on the Daily Data screen if more than 3 hours have passed and no QC data has been submitted for that profile.

Selecting the down arrow icon (refer to image below) will auto-populate the same hour value inputted in the first row.



Warning Time Out (in hours)	Action Time Out (in hours)
1	3
1	3
1	3

A pop-up message will display to confirm the request.

	ure you want to his column?	set this value to all t	he
neius III ti			
	YES	NO	
	TL3	NO	

Please note that the hour value will only populate on the same page; therefore, it will not carryover to the next page. To auto-populate the same hour on the next page, select the next page at the bottom of the screen and repeat.

Once the "Warning Time Out" and "Action Time Out" hours are inputted, ensure the **SAVE** button is selected at the bottom right of the page.

Whenever a new Instrument, Product, and QC Lot is added, the Missing QC Reminder will not be set automatically. Therefore, please ensure to update the Missing QC Reminder configuration for the new profile. To use an existing Missing QC Reminder configuration for a new Instrument and QC Lot, use the **Copy** feature under the "MY INSTRUMENTS" tab.

Existing Instrument:

Navigate to **MY INSTRUMENTS > Options > Copy** (see image below)

DAS	HEOARD	MY INSTRUMENTS	SUBMIT	REVIEW	REPORTS	DATA	RESOURCE CENTER		
			La	ab Home - The	ermo Fisher So	clentific (555	55) - ***TEST LAB)***	
Depa	artment:								
Gen	ieral								~
ADD	NEW INSTR	UMENT >							
Order				Instrument Model				Sertat Number	Options
4	ADVANCED E	BILIRUBINOMETER						123abc	Config
÷	AB150 pH M	eter						123po	Сору



Existing QC Lot:

Navigate to MY INSTRUMENTS > Options > Config > Copy

nstrument lodel:	ADVANCED	ADD QC >			PRINT >
	BILIRUBINOMETER 123abc	Product 🗖	Lot	Data Entry Format	Options
		MAS Bilirubin	BC20111A BC20042 BC19073	Summary I Edit	0.

Reviewing Missing QC on the Daily Data screen

Once the configurations have been saved, the QC Scheduling Reminder will be configured for the given profile(s). Any data points not received within the configured hours will display as a pop-up reminder each time the User navigates to **Review > Daily Data**.

				QC Not I	Re	ceived o						
The w	The warnings below indicate that QC data has not been received within the timeframe specified by your lab settings.											
Date	Date Time		Instrument	Lot	Lot L Test		Units	Result				
			ABBOTT ALINITY I, I	LIA24093A	3	Alpha-Fetoprotein (AFP)	ng/mL	Not Received				
6/30/2021	10:25 AM			CXL20121	1	Troponin I, High Sensitivity (hsTNI)	pg/mL	Not Received				

A tooltip will be displayed when Users hover over the actual time stamp under the "Time" column (refer to image above):

- **Time zone:** The lab configured time zone
- Last Data Point Received: The time when the last QC data point was received
- **Current time:** The local system time
- **Configured:** The hours configured for Warning and Action under **Settings > Missing QC Reminders Setup**

• **Difference:** The total difference in hours between the Last Data Point Received and the Current time

Please note that if no Date or Time displays for a given profile, this indicates no data point has been received since the Missing QC feature was enabled for the given profile.

	QC Not Received 💿										
	The warnings below indicate that QC data has not been received within the timeframe specified by your lab settings.										
Date	Time	Instrument	Lot	L	Test	Units	Result				
		ABBOTT ALINITY I, I	CXL20121	1	Troponin I, High Sensitivity (hsTNI)	pg/mL	Not Received				
		ABBOTT ALINITY I, I	CXL20122	2	Troponin I, High Sensitivity (hsTNI)	pg/mL	Not Received				
		ABBOTT ALINITY I, I	CXL20123	3	Troponin I, High Sensitivity (hsTNI)	pg/mL	Not Received				

Clicking on the blue tooltip displayed next to the "QC Not Received" text will display an explanation of the warnings on the pop-up window.

			OC	Not Red	cei	ved 🕫				
						QC data has not been re				
	The	warnings below indicate tha	submitted and t	hat a warnin	ig is	incorrectly displayed belo	w, please ensi	ure that		
Date	Time	Instrument the QC data point was transmitted to LabLink xL. If you use an automated data transfer solution or file upload to transmit data, please check the Data page and								
		ABBOTT ARCHITECT i100	ensure the trans JSR, 111	Not Received						
		BECKMAN SYNCHRON LX	, 123 - MQC	8KQ102	1	Albumin	g/L	Not Received		

The same information from the "QC Not Received" pop-up window will also be displayed when the "Missing QC" checkbox is selected on the Daily Data screen.

		clusions 🗹 Missing	68									Terret	Taunat	DUDXV	DUDXV	Designal	Designed			Manahilar	
Date	Time	Instrument	Lot	L	Test	Units	Result	User	Z5core	Flags	Excluded	Mean	Range	Target	Range	Mean	Range	Reviewed	Approved	Review	Comment
5/18/2021	5:56 PM	ASBOTT ARCHITECT i1000SR, 111	9GQ103	1	Hemoglobin A1c	%	Not Recieved	andrea.lettieri				-				30.0	30.0 - 30.0				
5/18/2021	5:56 PM	ABBOTT ARCHITECT i1000SR, 111	9GQ203	2	Hemoglobin A1c	%	Not Recieved	andrea.lettieri				-				50.0	50.0 - 50.0				

Please also note that the red exclamation icon next to the Missing QC checkbox will display if there are any data points that have not been received per the Missing QC Reminders Setup configuration.



When a data point is received for the Missing QC profile, the Missing QC warning alert will automatically be removed from both the "QC Not Received" pop-up window and the Missing QC data table.

Disabling the QC Not Received Pop-up

To disable the pop-up window that displays "QC Not Received" for any given User on the **Review > Daily Data** screen, navigate to **Settings > Users** and select **Options > Edit** for the specific User profile. Scroll down to the bottom on the "User Setup" page, select the checkbox next to "Hide Missing QC Popup", and click **SAVE**.

Receive Email			
Receive Email O Activated			
Lot Expiration	Account D	Deactivation	
No	∨ No		~
Data Entry Reminder No	~		
Missing QC			
Hide Missing QC Popup			_
Cancel			SAVE >

2. Event Type Tracking feature allows Users to associate specific event types with a given date/time

LabLink xL software now supports Event Type tracking, which can be easily viewed on the Levey-Jennings screen. This feature is configurable on the laboratory level and will therefore apply to all Users associated with the given laboratory.

This feature is configurable by the following user permission levels:

- User Elite
- User Intermediate
- User Basic w/Review & Approve
- User Basic w/Review + Config



The feature is also specific to laboratory accounts that have the Daily Module enabled.

Setting up a Custom Event Type

To access this feature, navigate to **Settings > Event Types**. Click on "ADD NEW". Input the information for each respective field.

	Event Type - Add New - Thermo Fisher Scientific - USA (55555)	
Code		
Name		
Color in Chart 🗿		
Background Color 🚯		
Icon		
< Empty >	*	
ancel		SAVE >

- **Code:** unique identifier Code containing 2 letters (A to Z). For example, a "New Reagent" event type may be identified using the code "NR".
- Name: Name of the event. For example, the event type could be called "New Reagent" and this would populate under the LJ chart in the legend.





• **Color in Reports:** This displays the line color in the Levey-Jennings chart. Selecting the empty control will open up a color palette to choose.



• **Background Color:** This displays the background color of each event type row on the data table

Date	Instrument	Lot	L	Test	Units	Result	User	Flags	Excluded	Target Mean	Target Range	RiliBĂK Target	RiliBĂK Range	Period Mean	Period Range	Reviewed	Approved	Monthly Review
Acetamin	ophen, ug/	mL																
7/7/2021 11:53 AM	ORTHO VITROS 5600, test	CHU21111A	1	Acetaminophen	ug/mL	25.0	John Smith			-	-	-	-	25.0	25.0 - 25.0			
Event Lis	t																	
7/7/2021 6:11 AM	ORTHO VITROS 5600, test	CHU21111A	1	Acetaminophen	Event T New Re		John Smith	Reag	jent Chanç	ed								

• Icon: This is the icon to associate with the specific event type in the Levey-Jennings chart. This is available from a pre-defined list.





Select **SAVE** and the new event type will be added.

	Event Type - Ti	nermo Fisher Scientific - USA (555	55)			
ADD NEW >						
Code		Event Type 🖿	Background Color	Color in Chart	lcon	Options
NR	New Reagent				I	0.
Show 15 50 100 results pe	page		<< <	1	> >>	

Adding New Events from the "Event/Action Log"

Events may be added from two different locations:

- Event/Action Log
- Levey-Jennings Tab

For adding new events from the Event/Action Log, navigate to **Settings** > **Event/Action Log**. A list of existing events will display on the page.

Click on "ADD NEW" to create a new event for a specified Date and Time.

Instrument	
< ALL >	5
Test	
< ALL >	· · · · · · · · · · · · · · · · · · ·
QC Lot	
< ALL >	,
Event Type	
< Uncategorized >	×
Date Time 6/28/2021 💼 11 : 13 : 09 AM ~	
Event Comment	

Select/input into the following fields for a new event:

- Instrument
 - When "ALL" is selected, this indicates that the event is not tied to a specific instrument or data point. Rather, it



is considered a global event (e.g. Preventative Maintenance, Power Outage, Raw Material Change, etc.).

- Test
- QC Lot
- Event Type
 - Both the default library and custom event types will display under here for selection
 - The default library contains the following event types:
 - Calibration Error
 - Calibration Performed
 - Instrument Maintenance
 - System Reagent(s) Changed
 - Preanalytical Error
 - > Analytical Error
 - Short Sample
 - Lot Change
 - > Operator Error
 - Control Material
 - Contamination
- Date Time
- Event Comment
 - A maximum of 100 characters may be inputted in this field

Select **SAVE** to log the new event. This will populate on the "Event/Action Log" page.

Adding New Events from the Levey-Jennings tab

Navigate to **Review > Levey-Jennings**. Left click anywhere on the Levey-Jennings Chart.



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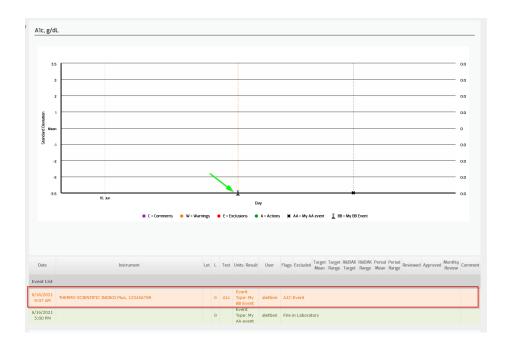


Select the "New Event" option and a pop-up will display.

Event/Action log	
Instrument	
THERMO SCIENTIFIC INDIKO Plus, 123456789 (Chemistry)	~
Test	
Alc	~
QC Lot	
< ALL >	~
Event Type	
< Uncategorized >	~
Date Time	
6/16/2021 💼 11 : 20 : 02 AM 🗸	
Event Comment	
ncel SA	VE

Input the information in each field and click **SAVE**. The new event will then display on both the Levey-Jennings chart and data table.

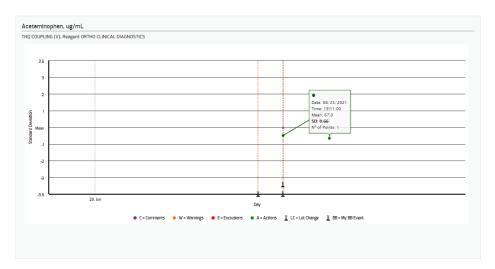




Viewing Events on the Levey-Jennings tab

Navigate to **Review > Levey-Jennings**. Events that have been logged will display on the Levey-Jennings chart and the Data Table.

Levey-Jennings Chart





Data Table

Date	Instrument	Lot	L	Test	Units	Result	User	Flags	Excluded	Target Mean	Target Range	RiliBĂK Target	RiliBĂK Range	Period Mean	Period Range	Reviewed	Approved	Monthly Review	Comment
Acetamino	phen, ug/mL																		
6/23/2021 12:11 PM	ORTHO VITROS 5600, test	CHU21111A	1	Acetaminophen	ug/mL	24.0	John Smith			5		-	-	24.0	24.0 - 24.0				B
		Event Type: L	ot C	hange			John Smith	Test	2										
		Event Type: 1	4y B	B Event			John Smith	Test	3										
6/23/2021	ORTHO		-		_	-		-	-	_	-	_	-	-	67.0		_		
12:11 PM	VITROS 5600, test	CHU21112A	2	Acetaminophen	ug/mL	70.0	John Smith			-		~	-	78.7	- 99.0				8
6/23/2021 3:11 PM	ORTHO VITROS 5600, test	CHU21112A	2	Acetaminophen	ug/mL	99.0	John Smith			2	-		-	78.7	67.0 - 99.0				B
6/23/2021 3:11 PM	ORTHO VITROS 5600, test	CHU21112A	2	Acetaminophen	ug/mL	67.0	John Smith			2	-	2	-	78.7	67.0 - 99.0				
Event List			-		_	-		-	_		-			-			_	_	
6/23/2021 10:34 AM	ORTHO VITROS 5600, test	CHU21111A	1	Acetaminophen	Event T My BB		John Smith	Test	4										

Events associated with a submitted data point will display directly under the respective data point for a given Test. Any global event (i.e. not associated with any data point) will display directly in the "Event List" section.

Please note the following for the "Show Data Table" and "Show Events on LJ Chart" checkboxes on the Levey-Jennings tab:

ARD	MY INSTRUMENTS	SUBMIT	REVIEW	REPORTS	DATA	RESOURCE CENTER			
	Levey-Jenn	ings		Semi-Quantitative / Q	Jualitative Results		Daity Data	Lab Review	Global Review
					Levey-Jenni	ings - Thermo Fish	ner Scientific - USA (55555) - ***TEST LAB	***	
							Department:		
Ch	hemistry								
	strument: HERMO SCIENTIFIC INDIKO Ple	us, 123456789	~ 🖬	Level	vel 1		Display Deta I	Displayed Meani Individual O Daily	Show Data Tabler

The "Show Data Table" section is applicable only to the data table and not the Levey-Jennings chart.

- "Data Points" checkbox is selected: This displays all the data points for the selected profile in the data table
- "Events" checkbox is selected: This displays all the events in the data table
- Neither "Data Points" nor "Events" are selected: This will not display the data table at all
- Both "Data Points" and "Events" are selected: This displays all data points and events for the selected profile in the data table



The "Show Events on LJ Chart" section is applicable only to events displayed on the Levey-Jennings Chart.

• "Show Events on LJ Chart" is selected: This displays all events for the selected profile on the Levey-Jennings chart.

Selecting the **SAVE PDF/PRINT** button on the bottom right of the screen will generate a PDF with the same selected parameters on the current Levey-Jennings page.

Editing Events on the Levey-Jennings Chart

To edit an existing event on the Levey-Jennings chart, left click on the event icon and select "Edit Event".



Please note that only the event comment may be edited. The original event type cannot be modified.

Each time an event is edited, the previous comment is stored as part of the Audit Trail Report. Previously entered comments may be viewed in the "Event History" pop-up window, which is displayed by selecting on the icon in the data table (refer to image below).

Date	Instrument	Lot	L	Test	Units Result	User	Flags Excluded Target Target RilBAK RilBAK RilBAK Period Period Period Reviewed Approved Review Commer
Event List							
6/15/2021 3:38 PM			0			Chris.Anchors	Chris Tsting
6/16/2021 9:07 AM	THERMO SCIENTIL CINDIKO Plus, 123456789		0	A1c	Event Type: My BB Event	alettieri	A1C Event Edited
6/16/2021 5:00 PM			0		Event Type: My AA event	alettieri	Fire in Laboratory
5:00 PM Display Or	ilv:		0			aletteri	rne ni Laboratory

The "Event History" pop-up window will display all the historical information (i.e. User who edited the comment, time it was edited, etc.) for the given event.



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	Event History							
nstrument SIEMENS AT	ELLICA CH, CH01513 Atellica 1 (General)							
Test Carbon Dioxide (CO2)								
C Lot 0DQ106, Chemis	try-H Assayed 1							
vent Type New Reagent	t							
ate Time								
ate Time /23/2021 8:27:38 PM								
	st							
/23/2021 8:27:38 PM	st Date	By						
/23/2021 8:27:38 PM vent Comment New tes		By John Smith						
/23/2021 8:27:38 PM vent Comment New tes		Ву						

Deleting Events on the Levey-Jennings Chart

To delete an existing event on the Levey-Jennings chart, left click on the event icon and select "Edit Event".



Proceed to select "DELETE" from the pop-up message.

Eve	nt/Action log	
Instrument All		
Test All		
QC Lot All		
Event Type Network Issue		
Date Time		
7/10/2021 9:24:49 AM		
Event Comment		
Network down		
ancel	DELETE >	SAVE 1
		-

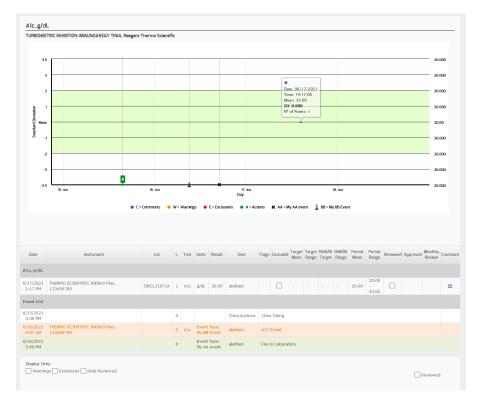
Once "DELETE" is selected, a confirmation message will display to verify the deletion request.



permanently deleted from	o delete this Event? It will be n the system.
Cancel	CONFIRM >

Associating Events with Data Points

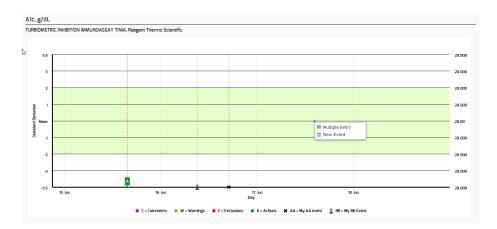
Navigate to **Review > Levey-Jennings**. Locate the data point to associate with a new event.



Left click on the data point and it will display a context menu with two options:

- Multiple Results For editing/adding multiple data entries
- New Event For adding a new event that is associated with the given data point

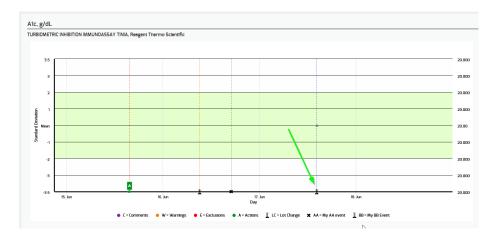




Clicking on "New Event" will display a pop-up with pre-filled information related to that given data point. Users may select an Event Type and add an Event Comment (refer to the image below).

	Event/Action log
	Instrument THERMO SCIENTIFIC INDIKO Plus, 123456789 (Chemistry) Test A1c
	QC Lot DBCL21071A, Liquid Diabetes 1 Event Type
	LC - Lot Change v
	Date Time 6/17/2021 2:17:00 PM Event Comment
	Changed to lot AAA
С	ancel SAVE >

This new event will display in the same location as the data point.



Since a single data point may have more than one event, additional events may be added by repeating the previous steps (i.e. Clicking on the data point and selecting "New Event".

Please note that a maximum of 10 events may be associated with a single data point.

Viewing Events on the Data Table

The Data Table, on both the Levey-Jennings and Daily Data tabs, will display the logged events as follows:

- The events tied to the datapoint **always** appear below the datapoint, even when any given column is re-ordered.
- The events that are considered "Global events" (i.e. not associated with a datapoint) appear under the section titled "Event List".
- The background and text color are defined when the event type was initially configured under **Settings > Event Type > ADD NEW**
- The event-specific icon (in the Levey-Jennings chart) is defined when the event type was initially configured under Settings > Event Type > ADD NEW

Instrument	Lot	L	Test	Units	Result	User	Flags	Excluded	Mean	Range	Target	Range	Mean	Range	Reviewed	Approved	Review	Commen
THERMO SCIENTIFIC INDIKO Plus, 123456789	DBCL21071A	1	A1c	g/dL	20.00	alettieri			-	-	-	-	20.00	20.00 - 20.00				a
	Event Type: Lot Change				alettieri	Changed to lot AAA												
	Event Type: My AA event				alettieri	Another event tied to a datapoint												
		0				Chris.Anchors	Chris	s Tsting										
THERMO SCIENTIFIC INDIKO Plus, 123456789		0	A1c			alettieri	AIC Event											
		0				alettieri	Fire in Laboratory											
iy: gs 🗌 Exclusions 🔛 Hide Reviewed																E F	Reviewed	I
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Viewing the Event Tracking Report

All logged events may be reviewed as a report under the Reports tab. Ensure that "By Date Range" is selected before the "Event Tracking Report" is displayed.



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Chemistry			
O By Month By Date Range O	Custom	Levey-Jennings Report •	Generate >
From		Audit Trail Report	Generate >
6/15/2021		QC Summary Report .	Generate >
To		Point Data Submission Report +	Generate >
6/18/2021		RIIBÅK Data Submission Report *	Generate >
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The Event Tracking Report may be viewed in two formats:

• **By Instrument** – This displays all the events grouped by instrument and then by test. All information matching the profile filter will be displayed in this report format.

	Event Tracking Report (6/1/2021 - 7/23/2021)									
Global Events										
Date	Time		Event Type		Action					
7/10/2021	9:24 AM	Network Issue			Network down					
	Instrument: SIEMENS ATELLICA CH, CH01513 Atellica 1 (General) Test: Carbon Dioxide (CO2)									
Date	Time	Lot#	Event Type		Action					
7/7/2021	1:59 AM	0DQ306	New Reagent		New Reagent in use					

• **By Date** – This displays a format similar to that of the Audit Trail Report (i.e. single table, ordered by date).

Event Tracking Report (6/1/2021 - 7/23/2021)									
Date	Time	Instrument	Instrument Lot#		Event Type	Action			
7/7/2021	1:59 AM	SIEMENS ATELLICA CH, CH01513 Atellica 1 (General)	0DQ306	Carbon Dioxide (CO2)	New Reagent	New Reagent in use			
7/10/2021	9:24 AM	***	***	***	Network Issue	Network down			

Please note that the Audit Trail Report will also track events that have been logged.

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Fixes

3. Fixed an issue where data was not displaying on the Levey-Jennings graph when the apostrophe punctuation mark was inputted in the Comments section.

Previously, the application would not display data on the Levey-Jennings graph when an apostrophe punctuation mark was inputted in the Comments. This issue has now been rectified so that apostrophes may now be accepted in the Comments field.



If you have any questions or concerns, or would like help using these features, please do not hesitate to contact your Thermo Fisher Scientific representative or call our USA Technical Service Team at 800-232-3342 (select Option 2 followed by Option 1). You can also email us at <u>lablink.gap@thermofisher.com</u>.

Sincerely,

CTA 1

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Chris Anchors Technical Product Manager Clinical Diagnostics Division Thermo Fisher Scientific

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