

Fully Automated IFA Processor

LIS User Manual



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1 Overview

The LIS User Manual will guide you using the LIS function for the HELIOS instrument.

The LIS function is able to:

- Order requests at the LIS (1.)
- Receive requests from the LIS (2.)
- Send results back to the LIS (3.).

The following figure shows the different communication path related to the software modules.



Figure 1: Communication path related to the software modules

Order and receive requests is possible in the IFA (green and blue). To export the results the whole worklist has to be classified in the Result confirmation. After worklist classification the result for each sample ID can be sent to LIS via LIS screen.

Find in the next chapter the description of the LIS screen. In chapter 3 the whole workflow of "How to use the LIS function" is described.

2 LIS screen

The LIS screen can be opened on the selection screen of the HELIOS software. Therefore please follow the description below.

1. Start HELIOS.



2. Log in and click on the LIS button.



Note: The LIS screen is available for all user accounts (user, superuser and admin).

The LIS screen will be displayed.

	8
The DurkNosTic AutiONATION COMPANY Us Settings Class Revel Class Class Revel Class Class Revel Class Class Revel Class Class	1
Taport to 115 Ignore Delete	
Connect LIS Covert milet	2

The LIS screen has different functions which will be explained in the next chapter. First, the first field "Data to export" is explained (chapter 2.1). Find in chapter 2.2 the instruction on the second field "Status".

Note: The tab "Settings" is only used for the first installation. Changes will have influence on the LIS communication. Only trained LIS personnel should change settings if necessary.

2.1 Data to export

In the field "Data to export" there are two different areas.

Data to export					
Display					
Classification: All	Include exported				
Select					
Select All	Clear Selection				

In the area "Display" you can change the display of the samples.

Select all samples, only negative samples or only positive samples by selecting "All, Negative or Positive" in the drop down menu. The drop down menu is shown in the accompanying figure.

Classification:	
Select	Positive
Calact	Negative

Set the check mark for "Include exported" (accompanying figure) to display all previous exported samples. The exported samples can be send again to the LIS, if necessary.

In the area "Select" all samples can be selected by clicking "Select All".

S	elect All 💦	Clear Sele	ction	
Export	Sample	Exported to LIS	LIS Test	
	1234		ANA	A
	3456		ANCAE	A
	78910		rKS10	A
	3456		ANCAF	A

Click "Clear Selection" to undo the selection.

S	elect All	Clear Sele	ction 💦	
Export	Sample	Exported to LIS	LIS Test	
	1234		ANA	AE
	3456		ANCAE	AE
	78910		rKS10	AE
	3456		ANCAF	AE

The table displays the samples including information about Test, Test Parameter, Result, Slide, Well and Worklist.

Export	Sample	Exported to LIS	LIS Test	Test	Test Parameter	Result	Slide	Well	Worklist

If samples are selected, the samples can be sent to LIS clicking "Export to LIS".

Export to LIS Ignore Delete

Note: If the button "Export to LIS" is grey and not active, there is no LIS connection. Please contact your administrator.

Export to LIS



Include exported

Ignore

If there are samples which should currently not send to the LIS, the button "Ignore" can be used to tag these samples as "not sent to the LIS".

Therefore, select the samples and click "Ignore". The samples will be removed from the list.

Set the check mark for "Include exported" to display the ignored samples again. The ignored samples are marked as "IGNORE" in the "Info" field.

Info

IGNORE

Note:

Even if the samples were been ignored they can be sent to LIS, if necessary.

Delete (Remove from list)

Samples entries can be deleted finally from the directory, if necessary. This will not delete the original samples, only in the directory the entry of this sample is deleted.

Select the sample which should be deleted and click "Delete". Confirm the deletion with "Yes" if you really want to delete the sample.

Note:

Use the function "Delete" only if it is really needed. The deletion is irreversible.

👔 Warning 📃 💌					
?	Remove 1 result	(s)?			
	<u>Y</u> es	No			

2.2 Status

In the field "Status" there is a status box. If the scanning of the worklists is finished you can find different messages in this box.

Note:

The status messages appear only for new scanned worklists. If you close the LIS screen and open it once again the last messages will not be displayed again.

New run

If there is a new classified worklist there will be the message "New runs" with the information about the data path.

The status will be displayed in green.

Example:

Status

New run: C:/heliosworklists/2014-05-09_13-11-13_2014-05-09_12-16-32_Demo Instrument_HeliosWorklist

Not confirmed run

If there is a new worklist where all or some of the wells were not be classified there will be the message "Not confirmed run" with the information about the data path.

The status will be displayed in yellow.

Example:

Not confirmed run: C./heliosworklists/2014-05-14_12-56-24_ANA_HEp2_12w

Missing LIS-test mapping for test

If there is a new worklist where a test without a LIS-test mapping is included there will be the message "Missing LIS-test mapping for test" with the information about the data path.

The status will be displayed in red.

Example:

Missing LIS-test mapping for test: AESKU_Helios_ANCAF_12w_54_101_v1

Note: If the LIS-test mapping is missing (test = ???) you can add a LIS test name temporary to send the samples to the LIS. Before you have to check your test name mappings with your LIS system!

- a. Therefore click in the "test" field with the right mouse button.
- b. Click "Add test name mapping". A window "Input" will be opened.

635349855937720461	2014.05.07. 16:03:13	???	AESKU_Helios_ANCAE_12
635349855937876461	2014.05.07. 16:03:13	??	E_12
635349855938032461	2014.05.07. 16:03:13	??	Add test name mapping E_12
635349855938188461	2014-02-07 16:05:46	???	AESKU Melios ANCAE 12

c. Add the LIS-test name for the selected test and click "OK".

Example (your internal test mapping may differ!):

📔 Input		? ×					
LIS test na	ame for: AESKU_Helios_4	ANCAE_12w_54_100_v1					
	ок	Cancel					

The status of the LIS connection is displayed at the bottom of the screen.

Click "Enable LIS connection" to a connect the instrument to the LIS.

Disable LIS connection	Connect on start	LIS file mode. Send directory:OK Receive directory:OK
------------------------	------------------	---

If you want that the LIS connection will be enable on start, set the check mark on "Connect on start".

3. Check if the status of the LIS is "OK". Find the button at the lower end of the screen.

Disable LIS connection	Connect on start	LIS file mode. S	Send directory: OK Receive directory: OK			
Note: If the LIS is not conn	ote: If the LIS is not connected the following status will be shown.					
r						
Enable LIS connection	Connect on start	Not ready				
lick on the button "Enable LIS connection" to connect to the LIS.						

If you want that the LIS connection will be enable on start, set the check mark on "Connect on start".

4. Close the LIS window.

3 How to use the LIS function?

The following instruction will guide you using the HELIOS[®] LIS function. Please note in addition the instruction in the HELIOS[®] User Manual.

1. Open the HELIOS IFA.



2. Start a new worklist.



3. Select the test you want to run.



4. Select the run mode (Screening or Titration).

New Workl	ist - Step 2 of 4	
Selected Test:	AESKU_Helios_ANAHEp2_12w_51_100_v1	
Slide:	AESKU_Helios_ANAHEp2_12w_v1 (Imported from AESKU_Helios_ANAHEp2_12w_51_100_v1.helios)	•
Mode:	Screening	
(Turnel D	

- 5. Check the traceability data.
- 6. Scan the barcodes (if you have barcode labelled samples).

Otherwise you have to type in the sample ID manually.

	8
New Worklist - Step 3 of 4	
Please place all of the sample tubes on the instrument, then select "Next" to continue.	
Scan Patient IDs	
Scanple Rack Alpha Position:1 Barcode:635324547638932304 Position:2 Barcode:635324547639032448 Position:3 Barcode:635324547639132592 Position:3 Barcode:635324547639232736 Position:5 Barcode:635324547639332880 Position:7 Barcode:635324547639433024 Position:7 Barcode:635324547639433024 Position:7 Barcode:635324547639533168 Position:9 Barcode:635324547639733456 Position:10 Barcode:635324547639833600 Sample Rack Alpha Right Position:5 Barcode:635324547662366000	
Cancel Back Next Err	h

- 7. Click "Finish". The layout screen will be opened and you will see the layout for the run.
- 8. Click on "Sample Data".

File	Tools	Help					
Layout	Sample,	Data M	TP St	atus			
	∢ [0	∧} of	0 ▶	▶ ₽	\times	Add Samples	Query LIS

9. Make sure that all Sample IDs are entered in the list.

Note: If you enter the samples manually please make sure that the entry is finished before you go to the next step. Click in another field and ensure that there is a black arrow at the beginning of the last row (figure below).

	#	Rack Position	Sample Id	Remarks	Firstname	Lastname	1/80
	1	1.1	12345				
۲	2	1.2	678910				

Example of open entry (wrong):

	#	Rack Position	Sample Id	Remarks	Firstname	Lastname	1/80
	1	1.1	12345				
I	2	1.2	678910				

The last sample cannot be sent to the LIS because it is currently in use (..../).

10. Click on "Query LIS".

File	Tools	Help					
Layout	Samp	le Data MTP St	atus				
	4 1	of 20 🛛 🕨	🕨 🕂 🛠 🖊 Add S	Samples Que	ry LIS		
					Query LIS		100_v1
							12w_5
							ANAHEp2
							Helios
							AESKU
	#	Rack Position	Sample Id	Remarks	Firstname	Lastname	1/80
۱.	1	1.1	635357515326991763				
	2	1.2	635357515327291763				
	3	1.3	635357515327391763				
	4	1.4	635357515327491763				
	5	1.5	635357515327591763				

The IFA software will now communicate with your LIS and looks if there are any tests for the proper sample ID. If there is data available the software will fill out the patients name and check the dilution box.

File	Tools	Help					
Layou	t Samp	le Data MTP	Status				
14	4 2	0 of 20 🔰	🛛 🕅 🕂 🗙 Add Sa	mples Quer	y LIS		
	#	Rack Position	Sample Id	Remarks	Firstname	Lastname	1/80 AESKU_Helios_ANAHEp2_12w_51_100_v1
	1	1.1	635320315689109872	-	Donald	Duck	
	2	1.2	635320315689210016		Dagobert	Duck	
	3	1.3	635320315689310160		Daisy	Duck	
	4	1.4	635320315689410304		Gustav	Gans	
	Contract of Contra	1 million			Concerns on		

11. Load the instrument and start the process like it is described in the HELIOS[®] User Manual.

12. Classify the processed worklist in the Result Confirmation.

Note: The worklist can only be send if all wells are classified. The following message will appear.



13. Close the Result Confirmation and open the LIS screen.





14. Wait until the scanning of new results is finished.



The status of the scanned worklists will be listed in the status box. Find information about the status messages in chapter 2.2.

- 15. Choose the samples which has to be send to the LIS. Find detailed information in chapter 2.1.
- 16. Click "Export to LIS".
- 17. Wait until all selected samples were exported.



18. Close the LIS screen.



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