DATA LOGGER



STEPS	DIRECTIONS					
Step 1	Collect logger from the fridge and push STOP button on logger					
Step 2	Connect logger to computer via USB					
Step 3	Open program – Click: Log Tag Analyzer icon					
Step 4	Click: Wizard button for automatic download & save function					
Step 5	Configure Prepare Log Tag for next use – Click: Configure					
•	(for instructions, refer to "Log Tag: How to Configure")					
Step 6	 Locate cradled LogTag(s) Download and Save LogTag(s) recorded data Prepare LogTag(s) for next use 					
Step 7	Close the Wizard to look at data: Click Close					
Step 8	Press and hold START button on logger to turn on and start recording					
Step 9	Immediately return logger to the vaccine fridge					

Save as a PDF – Only in the event of a Cold Chain Breach

Step 1	LogTag Analyzer File Edit Log Copen Save Save As	Version 3. Tag Wi Ctrl+O Ctrl+S	Save As
Step 2	File name: Save as type:	UTRIX-16- 5040044381 Started Legacy File Format (*.ltd) Legacy File Format (*.ltd) LogTag File (*.ltdx) CSV (*.er.e)	Save in PDF format before sending to PHU (Public Health Unit) *
	deroiders	PDF (*.pdf)	

*You must convert file to PDF as only computers that have the Log Tag Analyzer software can read the .Itd file format

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DATA LOGGER

Log Tag: How to Analyze Data

1. THE CHART





There are four sections:

- 1. Report
- 2. Chart
- 3. Data
- 4. Summary

These sections can be accessed by clicking on the tabs at the bottom left of each page.

The **Chart** will be displayed first, by default. The **green** area on the graph represents temperatures within the **acceptable 2°C – 8°C range**.

The **red** area represents temperatures that are **above 8°C**, and the **purple** area represents temperatures that are **below 2°C**. This requires further investigation.

Go to Summary section $\rightarrow \rightarrow \rightarrow$

Lograg Analyzer Version 5.1	LogTag Analyzer Version 3.1.2						
ile Edit LogTag Wir	ndow User Server Help						
Wizard Open Save	Print Properties Signature						
UTRIX-16- 5040044381 Started 18-Mar-19, Finished 20-Mar-19, H							
	eauings						
LogTag ID	5040044291						
Description	CESBEN Domo LogTag						
Battany status							
Time zone	UTC + 11:00						
Panding interval	5 Minutes						
Number of starts	2						
Number of readings	1360						
Number of started reading	1360 ns 1360						
Non alert range	20 to 80 °C						
First reading	20/03/2019 4:41:10 PM						
Last reading	25/03/2019 9:56:10 AM						
Elapsed Time	4 Days 17 Hours 20 Minutes						
Readings range	1.8 to 10.8 °C						
Average reading	4.4 °C						
Standard Deviation (S)	0.9 °C						
Time above/equal 8.0 °C	10 Minutes						
Time below/equal 2.0 °C	1 Hour 55 Minutes						
Time not in alert	4 Days 15 Hours 15 Minutes						
Degree Minutes above 8.0	°C 14.2 °C-Minutes						
Degree Minutes below 2.0	°C 8.6 °C-Minutes						
Mean Kinetic Temperature 4.5 °C							

2. THE SUMMARY

The **Summary** section gives you information about how long the temperature was outside the acceptable range.

Any temperature below $2^{\circ}C$ is unacceptable \rightarrow contact PHU to report cold chain breach immediately.

Temperatures above 8°C require further investigation:

• Temperatures between 8°C – 12°C for less than 15 minutes are acceptable.

• Temperatures between $8^{\circ}C - 12^{\circ}C$ for more than 15 minutes is unacceptable \rightarrow contact PHU to report cold chain breach immediately.

• Any temperature above 12°C is unacceptable → contact PHU to report cold chain breach immediately.

Go to Data section $\rightarrow \rightarrow$

3. THE DATA

2	LogTa	g Analyzer Vers	ion 3.1.2				-	ΞX	
	File Ed	dit LogTag	Window	User Server	Help		Auto-download is	ON	The Data section gives you
	Wizard	Open Sav	e Print	Properties S	ignatures Send	Mail Upload Copy	Zoom Out Real Time	- X	a table which contains every temperature reading at 5 minute intervals.
		X-16- 504004438	1 Started 18-Ma	ar-19, Finished	20-Mar-1 💌	ZogTag Started 20-03-2019, Fill	hished 25-03-2019.ltd		Click the temperature
	Index	Date	Time	Elapsed	Temperature	Events	Comment	*	column to sort from lowest
	270	21/03/2019	3:06:10 PM	22:25:00	7.4				to highest temperatures.
	274	21/03/2019	3:26:10 PM	22:45:00	7.4				5 1
	275	21/03/2019	3:31:10 PM	22:50:00	7.5				From this we can see how
	252	21/03/2019	1:36:10 PM	20:55:00	7.6				high temperatures went
	254	21/03/2019	1:46:10 PM	21:05:00	7.6				above 8°C, and for how
	255	21/03/2019	1:51:10 PM	21:10:00	7.6				long
	269	21/03/2019	3:01:10 PM	22:20:00	7.6				long.
	2	20/03/2019	4:46:10 PM	00:05:00	7.8				
	253	21/03/2019	1:41:10 PM	21:00:00	8.0	Above Alert			
	1	20/03/2019	4:41:10 PM	00:00:00	10.8	Above Alert Inspection Mark		-	
	Report		Summary	[Started Reading	75 v			

The RED cell (where the yellow arrow is pointing) indicates the "**inspection mark**" – this is the point at which the logger was taken out of the fridge to be downloaded. This reading can be excluded from analysis as it is expected to be high.

4. THE REPORT



The **Report** section is a general overview of all the sections.

There will be a **GREEN TICK** or a **RED CROSS** in the Alarm box (top left corner) – this is a quick indicator of whether or not all temperature readings were within range.



Example: Green tick when all readings are within range

Other important information

• Lowest and highest temperature reading, and what time and date these occurred.

• The **RED dot** on the graph represents the "inspection mark" – this is the point at which data is downloaded from the logger. This will likely be a higher temperature, and can be ignored when analysing data.

DATA LOGGER

Log Tag: How to Configure

🖹 LogTag Wizard						
✓ Locate cradled LogTag(s)	Configure LogTag(s) UTRIX-16	Settings from SN:5040044381				
Download and Save LogTag(s)	Description: CESPHN Demo LogTag	LogTag Battery: OK				
Prepare LogTag(s) for next use	Configure reguires a pas Download requires a pas	sword ssword				
Click on LogTag below to select model(s) to be configured/show LogTag's current configuration	Logging Parameters Push button start The pre-start log	aging				
LogTag USB-HID UTRIX-16 SN:5040044381	Record readings continuously, overwrite oldest when memory full Record readings so that:]				
No Readings	Readings recorded will span at leas Number of readings to recor	st 56 Days d 16129 maximum is 16129				
	Record a reading every 00:05:00 🗘 5 Minutes.					
	Begin recording after a delay o	of 00:05 🗘 5 Minutes.				
	60.0 ÷ Disabled					
	4 Upper 🗹 8.0 🗘 °C After 🗹 2 🗘 Consecutiv	/e violation readings (10 Minutes)				
	2.0 • • • • • • • • • • • • • • •	ive 💌				
	Alarm Settings File Settings Advanced Settings					
C Rescan	Configure 6	Cancel Cancel				

STEPS	DIRECTIONS
Step 1	Select: Push button start option
Step 2	Select: Record readings continuously option
Step 3	Set 5 minutes for "Record a reading every" Set 5 minutes for "Begin recording after a delay of" *
Step 4	Set Upper at 8°C after 2 consecutive readings
Step 5	Set Lower at 2°C
Step 6	Click Configure to save
	These configurations will be saved for future – only need to do this ONCE

* A delay of 5 minutes allows for the Log Tag to cool down once placed inside fridge. If you plug your Log Tag in externally there is no need for this step.

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