ColdTrace Dashboard Guide

District	A	Displa	ay Dashb	oard	
Select Deployment					
		Pas	t 30 Days	S	
	% in range	Freeze alarms	Heat alarms	Min °C	Max °C
Health Facility 1	97%	0	0	2.3	12.5
Health Facility 2	97%	0	0	2.4	7.9
Health Facility 3	96%	0	0	2.2	8.4
Health Facility 4	94%	0	3	3.5	9.7
Health Facility 5	94%	0	2	1.6	9.4



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ColdTrace System Overview

ColdTrace is a remote temperature monitoring (RTM) system for cold chain equipment (CCE) that store vaccines and other temperature-sensitive products.

ColdTrace has 2 core components:

- 1. ColdTrace unit, which collects and transmits temperature and power data from the CCE and sends alerts to health clinic staff via text message or email when temperature inside of the CCE is outside of the safe range.
- 2. ColdTrace dashboard, a secure, cloud-based platform giving health clinic staff remote access to near real-time temperature and power data with customizable analytics and report-generating tools to track equipment performance. The information is easy to access and interpret, facilitating crucial decision-making such as resource allocation and back-up equipment distribution.

This manual provides a step-by-step guide for the ColdTrace dashboard.



Dashboard Login

To access the dashboard online, please follow these steps:

- 1. Go to http://coldtrace.org/coldtrace/
- 2. Enter your username and password you received from Nexleaf to login to the website.

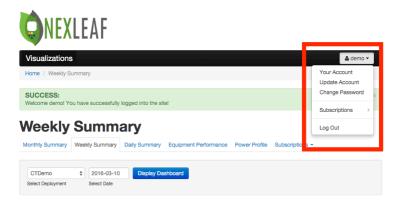
You will then be able to login and view the data. The next slides will assist you in viewing different features and visualizations on the site.

Please email info@nexleaf.org if you are unable to login.

ONEXLEAF	
Home / Log In	
Log In	
You must log in to view that page.	
Log in for using the form below.	
Username*	
Password*	
Log in	

User Information

- Click the button in the top right with your username to view or update your account, change your password, view and update subscriptions, or log out.
- If you forgot your password, please send an email to info@nexleaf.org.
- Subscriptions is where users choose what reports to receive. There are daily/weekly/ monthly reports, and they will be covered later in further detail.



Your Account

- Account Overview view your essential user information.
- Manage Subscriptions click here to update the periodic updates you receive. There will be more detail on this later in the guide.
- Update Account click here to update user information from Account Overview.
- Change Password click here to change your password.



Basic Account Overview

Name:	demo demo
Username:	demo
Email:	demo@nexleaf.org
Role:	Basic User
Timezone:	UTC
Language:	English
Default Deployment:	CTDemo

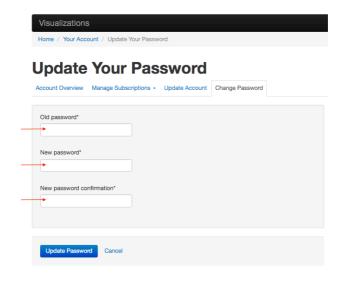
Update Account

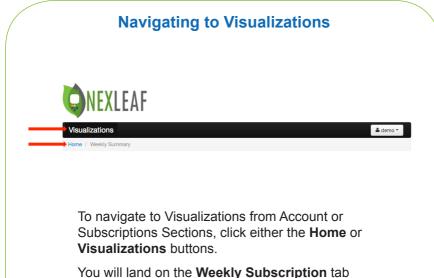
- To change username, select the Username field and enter desired new username.
- Edit your first or last name by selecting the appropriate field and entering your new First name.
- Change the email address associated with your account by selecting the email field and entering a new email address.
- Use the dropdowns to change **Timezone** or **Language**.
- If you are monitoring more than one deployment, use the Default Deployment dropdown to change which deployment loads first after logging in.
- After all edits on 'Update Your Account,' click 'Update Account' for changes to take effect.

nt Overview Manag	e Subscriptions +	Update Account	Change Password
Username*	demo		
	Required. 30 charai	sters or fewer, letters, n	sumbers and 6//+/-/_ characters
First name	demo		
Last name	demo		
E-mail address	demo@nexleaf.	org	
Timezone*	UTC	v	
Language*	English	\$	
Default deployment	CTDemo	•	
	Default deployment	to display.	

Change Password

- If you wish to change your current password, first click the 'Change password' tab.
- Simply enter your old password in 'Old password' field
- Then enter a new password in the 'New password' field.
- Reenter your new password in 'New password confirmation'
- Click 'Update Password' for the change to take affect.





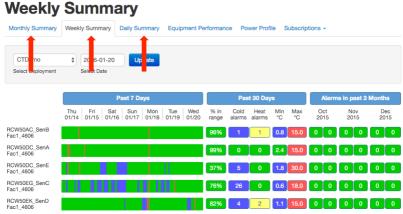
of your default deployment, which is also the landing page after logging in each time.

Homepage

Once logged in, the home page will open up to the default deployment assigned to you on the **Weekly Summary** tab.

You can view the cold chain performance data in 3 ways:

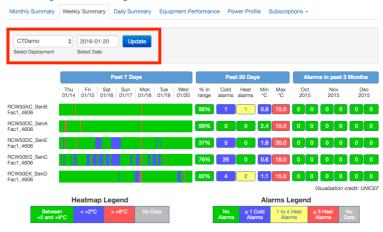
- 1. Monthly Summary
- 2. Weekly Summary
- 3. Daily Summary



Visualization credit: UNICEF

Generating Visualizations in Dashboard

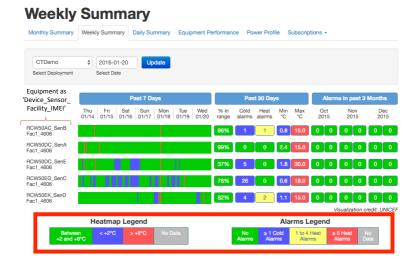
- To generate visualizations in any of the 3 views, use the 'Select Deployment' dropdown to select the deployment/group you would like to view and select the date range then click 'Update.'
- When you are generating a 'heat map' or a table on the dashboard, click once and give it a few seconds to load the data.
- When changing parameters, be sure to click 'Update.'



Weekly Summary

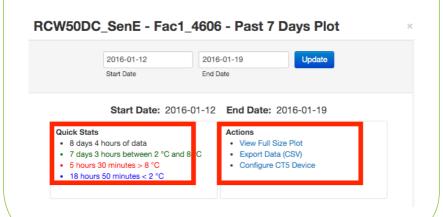
Weekly Summary

- Equipment can have up to 5 sensors.
- Equipment names are listed as 'Device_Sensor_Facility_ Last 4 digits of CT5 IMEI.'
- The **Past 7 Days** displays a timeline with color-coded alarm states based on the **Legend** below.
- To view the **weekly temperature plot** of a particular fridge, click on the timeline bar.



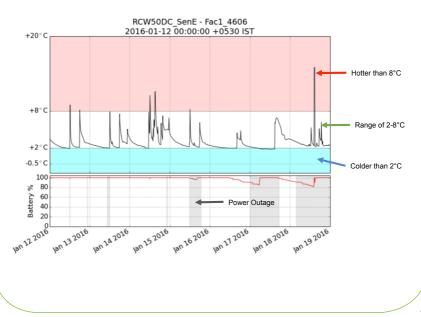
Temperature Plot from Weekly Summary

- After clicking on a weekly timeline bar, you will see a detailed pop up with Quick Stats, Actions and plots.
- Customize a date range for the plot using the date selectors, then press 'Update.'
- Quickly assess a fridge's performance with the Quick Stats and the plots below.
- Or use View Full Size Plot to have the plot as one image.
- Export Data allows you to download the raw data on a spreadsheet.
- Select Configure CT5 Device to update logging and upload intervals as well as sensor alarms.



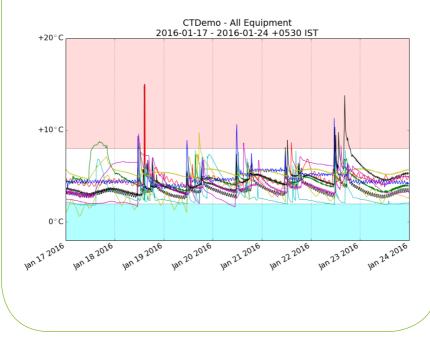
Temperature Plot from Weekly Summary (cont.)

- Scroll down the pop up to see the device's temperature and power plot for the chosen time period.
- The colored bands on the Temperature plot allows for easy visual assessment of fridge performance.
- The battery graph on the bottom shows how ColdTrace battery is charging. If the fridge is also connected to the same power source as ColdTrace, then you can see the power outage for the fridge in this graph as well.



Weekly Summary

- A graph at the bottom of the *Weekly Summary* page shows the **temperature plots of all equipment** in the deployment.
- Use the graph to quickly assess whether there are any outliers in the deployment.
- The days in the temperature plot align with the temperature bars of individual equipment above.



Monthly Summary

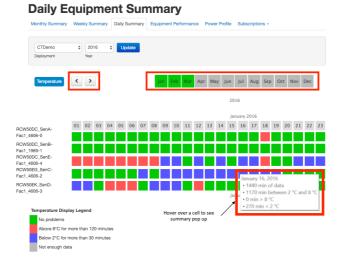
- Specify data from which deployment you want to see using the dropdowns, then press 'Update.'
- Click the **Legend** to **sort by best** (in-range) to worst (no data). Click again to sort worst to best.
- The grey 'No Data' tab means that there was a gap in data transmission. This will occur when device battery has no power or when data has not been transmitted due to loss of network signal.

Monthly Temperature Summary Monthly Summary Weekly Summary Daily Summary Equipment Performance Power Profile Subscriptions -CTDemo January \$ 2016 \$ < 2C ٥ Update Cold Threshold Deployment Month Year Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Device Name 2016 Facilities & Sensor Legend % of Readings Equipment Location Alarms Name Facility Cold RCW50DC_SenA Fac1_4606 98% 0 RCW50AC SenB Fac1_4606 96% н Fac1_4606 RCW50EG SenC 89% 26 0 RCW50EK_SenD Fac1_4606 86% 8% 4 3 RCW50DC SenE Fac1_4606 9% 0 Equipment Totals 86% 6% 8% 36

Visualization credit: Project Optimize

Daily Summary

- Select the deployment and year you would like to view, then click 'Update.'
- Use the **arrows** to move forward or back a month. Or jump to a month with the **month titles**.
- The **Legend** at the bottom explains the colors in each day's cell.
- Hover over a cell to see a **summary pop up** of data in and out of range.
- To view **detailed temperature plot** of a particular CCE in a facility, click on the cell of the day you wish to view.



Daily Summary

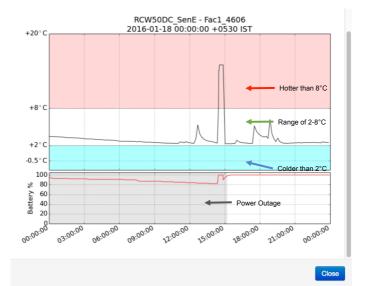
- After clicking on a daily grid, you will see the same detailed daily pop up as when you click on a weekly timeline bar.
- Customize a date range for the plot using the date selectors, then press 'Update.'
- Quickly assess a fridge's performance with the Quick Stats and the plots below.
- Use View Full Size Plot to see the plot alone.
- Export Data downloads raw data to a CSV.
- Select Configure CT5 Device to update settings.

Start Date: 2016-01-18 End Date: 2016-01-18 Quick Stats Actions • 1 day 4 hours of data • View Full Size Plot • 1 day between 2 °C and 8 °C • Export Data (CSV)	2016-01-18 Start Date
4 hours 10 minutes > 8 °C Configure CT5 Device	Quick Stats 1 day 4 hours of data 1 day between 2 °C and 8 °C

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Daily Summary (Detailed, cont.)

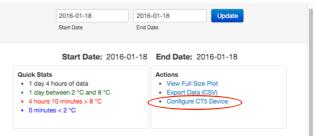
- Be sure to scroll down to view the temperature and power plots.
- The colored bands on the **Temperature plot** allows for easy visual assessment of fridge performance.
- The battery graph on the bottom shows how ColdTrace battery is charging. If the fridge is also connected to the same power source as ColdTrace, then you can see the **power outage** of the fridge in this graph as well.



Configuring Daily Summary

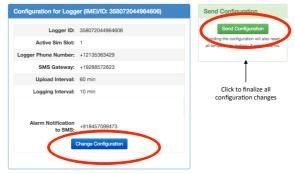
Select **Configure CT5 Device** in a detailed pop up from *Daily Summary* or *Weekly Summary* to configure device settings.

RCW50DC_SenE - Fac1_4606



Click **Change Configuration** to change logging or upload intervals.

Configure Temperature Logger and Alarm Settings



Daily Summary (Configuration, cont.)

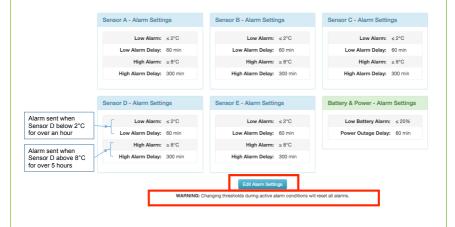
- Click Change Configuration to change logging or upload intervals.
- Do not change gateway or data will not be sent to website.
- Do not select Gateway_send_only
- You can add up to 5 phone numbers to receive alerts. This time add '+' and country code.
- Click Submit Changes when done.
- Click Send Configuration when it appears to finalize changes.

Configuration for Log	gger (IMEI/ID: 358072044964606)
Upload Interval*	240 minutes
Logging Interval*	10 minutes
Gateway	clft_a488572623 🛟
	Grand_only
Alert Phone #1	
Alert Phone #2	
Alert Phone #3	
Alert Phone #4	
Alert Phone #5	
	Submit Changes Cancel

Daily Summary (Configuration, cont.)

View and edit alarms below Device Configuration module.

- Alarm settings are set per sensor.
- To edit alarms click Edit Alarm Settings button at the bottom.
- Please note the warning at the bottom of the page.



Daily Summary (Configuration, cont.)

After choosing **Edit Alarm Settings**, settings fields become editable.

- To **change values**, click in the field you would like to change and enter the new value.
- When all fields for sensors and power are complete, click **Submit Changes**.
- Do not forget to click Send Configuration on the next page as well.

Sensor E - Alarm Settings	Battery & Power - Alarm Settings
Low Alarm* 2 °C	Low Battery Alarm*
Low Alarm Delay* 60 mi	Power Outage 60 minutes
High Alarm* 8 °C	
High Alarm Delay* 300 mi	nutes
Submit Changes Jancel	

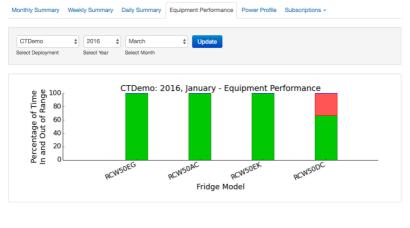
Equipment Performance

Under this visualization you will be able to view the following graphs:

- Equipment performance shows performance based on the fridge brand and model
- Total active capacity indicates the performance in a deployment by fridge volume
- **Performance of total fridges** shows performance per fridge

Note: This is a new feature that is still under development. Check our website frequently for updates in the manual.

Equipment Performance

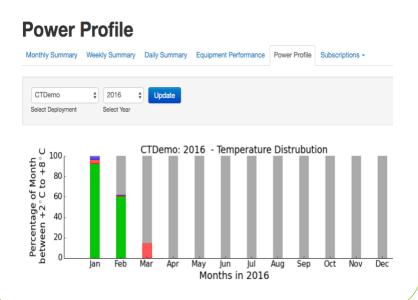


Power Profile

Under this visualization you will be able to look at the following data:

- Temperature Distribution shows percentage of temperatures in and out of range in each month of the year.
- **Power Availability** shows percentage of power available in each month of the year.

Note: This is a new feature that is still under development. Check our website frequently for updates in the manual.



Subscriptions

To access **Subscriptions** either click on the *Subscriptions tab* or click on your User Icon and select 'Subscriptions.'

- You have the choice of Daily, Weekly and Monthly subscriptions.
- Only Daily subscriptions can be sent as **SMS updates**. **Daily**, **Weekly** and **Monthly** reports are sent via email form.

Daily Equipment Summa onthiy Summary Weekly Summary Daily Summary Equipment	nt Performance Power Fofile Subscriptions -
	one cubscriptions -
	Daily Subscriptions
CTDemo \$ 2016 \$ Update	Weekly Subscriptions
Deployment Year	Monthly Subscriptions

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Your Account

Subscriptions

Log Out

Update Account Change Password

Daily Subscriptions

STEP 1:

- Under **Daily Subscriptions** there is a list of your current subscriptions with options to update or delete each one.
- Daily Notification History keeps a log of messages sent in regards to your subscriptions.
- Click 'Create New Daily Subscription' below to create new subscriptions.

Your Daily Subscriptions

Daily	/ Subscriptions				
Туре	Name / Phone / Email	Daily Send Times	Deployment	Gateway	Actions
Email	CTDemo Daily Subscription - demo@nexleaf.c	rg 09:00am	CTDemo	click_int_a4, 19288572623	Update Delete

Daily Notification History

Show 10 \$ entrie	s	Search:	
Notification Type	Deployment	Notification Text	Sent On
CTDemo Daily Subscription demo@nexleaf.org	CTDemo	Demo, Hot Fridges: Fac1_1969 (9.5 days), Fac1_4606 (6 days).	2016-03-09 01:00AM PST
CTDemo Daily Subscription demo@nexleaf.org	CTDemo	Demo, Hot Fridges: Fac1_1969 (8 days), Fac1_4606 (5 days).	2016-03-08 01:00AM PST
CTDemo Daily Subscription demo@nexleaf.org	CTDemo	Demo, Hot Fridges: Fac1_1969 (7.5 days), Fac1_4606 (3 days).	2016-03-07 01:00AM PST
CTDemo Daily Subscription demo@nexleaf.org	CTDemo	Demo, Hot Fridges: Fac1_1969 (6.5 days), Fac1_4606 (2.5 days).	2016-03-06 01:00AM PST

Daily Subscriptions (cont.)

STEP 2: Create New Daily Subscription Form

- Daily notifications are available as SMS, email or both. Select what option you would like and simply enter the appropriate contact details.
- Be sure to enter country code for all phone numbers and only enter digits (no need for the '+' at the beginning).
- Select the deployment you want to follow.
- Do not change the Gateway.
- Finally select when you would like to receive alerts. Check below time selection to make sure your timezone is correct. Click on Update Your Timezone to make any necessary changes.

count Overview Ma	anage Subscriptions	- Update Account	Change Password	
Name of Subscript	ion CTDemo Daily	Subscription		
	For your referen (examples: nam	ce only. le of subscriber, deplo	yment name, etc.)	
Notification Ty	pe* Email	\$		
Phone Num	ber			
Email Addr	ess demo@nexlea	f.org		
Deployme	ent* CTDemo	\$		
Gatew	ay* click_int_a4 -	19288572623 - 1 🛊		
Daily SMS Tir	ne* 09:00am \$			
2nd Daily SMS T	me ¢	Activate 2nd Dail	y SMS Time	

Daily Subscriptions (cont.)

STEP 3:

- At the bottom of the subscriptions form, simply select the desired thresholds and durations.
- There is an option to send freeze alerts.
- There is an option to receive an alert when ColdTrace is not sending data to the server.
- For all the alert options, choose the conditions when you want to receive alerts.
- Decide whether you want to receive an alert when all CCE are okay for "ease of mind".
- Decide whether you want to receive district name in alerts. This can be helpful if you are following multiple deployments.
- To activate the subscription, click 'Update Daily Subscription.'

Hot Threshold" Hot Duration*	8.0 °C 5 bra
Cold Threshold* Cold Duration*	2.0 °C
Freeze Threshold	-0.5 °C U Activate Freeze Alerts
No Data Duration	72 hrs Activate No Data Alerts
	Send alert when all stations are ok Display district name in alerts
	Update Daily Subscription Cancel

Weekly Subscriptions

The **Weekly Subscriptions** summary and history logs are in the same format as in daily subscriptions.

- When you click on 'Create Weekly Subscription', you will land on this *Manage Subscriptions* form.
- Weekly Subscriptions are only available in email form.
- Select the deployment you want to follow.
- Click the blue 'Create Weekly Subscription' button to activate subscription.

Create Weekly Subscription

Account Overview	Manage Subscriptions - Update Account Change Password
Name of Subs Email A Deplo	For your reference only. (examples: name of subscriber, deployment name, etc.)
	Create Weekly Subscription Cancel

Monthly Subscriptions

The **Monthly Subscriptions** summary and history logs follow the same format as in weekly and daily subscriptions.

- When you click on 'Create Monthly Subscription,' you will land on this *Manage Subscriptions* form.
- *Monthly Subscriptions* are also only available in email form. They come in pdf format.
- Select the deployment you want to follow.
- Click the blue 'Create Monthly Subscription' button to activate subscription.

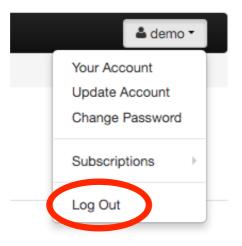
• • •

ccount Overview	Manage Subscriptions - Update Account Change Password
Name of Subse	pription
	For your reference only. (examples: name of subscriber, deployment name, etc.)
Email Ad	idress*
Deplo	yment* CTDemo \$
	Detailed Summary Include a detailed summary of each station in your report.
	Create Monthly Subscription Cancel

Log Out

For security, be sure to log out when you are done using the dashboard.

To log out, click on your User Icon and select 'Log Out.'



ColdTrace Dashboard Guide

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