

Sonicu – VFC Temperature Monitoring Program

Presented to AIM 2021 Summer VEH
Joe Mundell, VP of Sales

Problems

- * VFC ongoing compliance
- * Lack of visibility by State into VFC providers' temperature logs, NIST certifications, excursions
- * Difficult for providers to be compliant due to the nature of Data loggers, reporting, Calibration etc
- * Providers slow to implement new technology that makes compliance easy

Sonucu will provide a state-wide portal for all VFC providers accessible 24/7/365

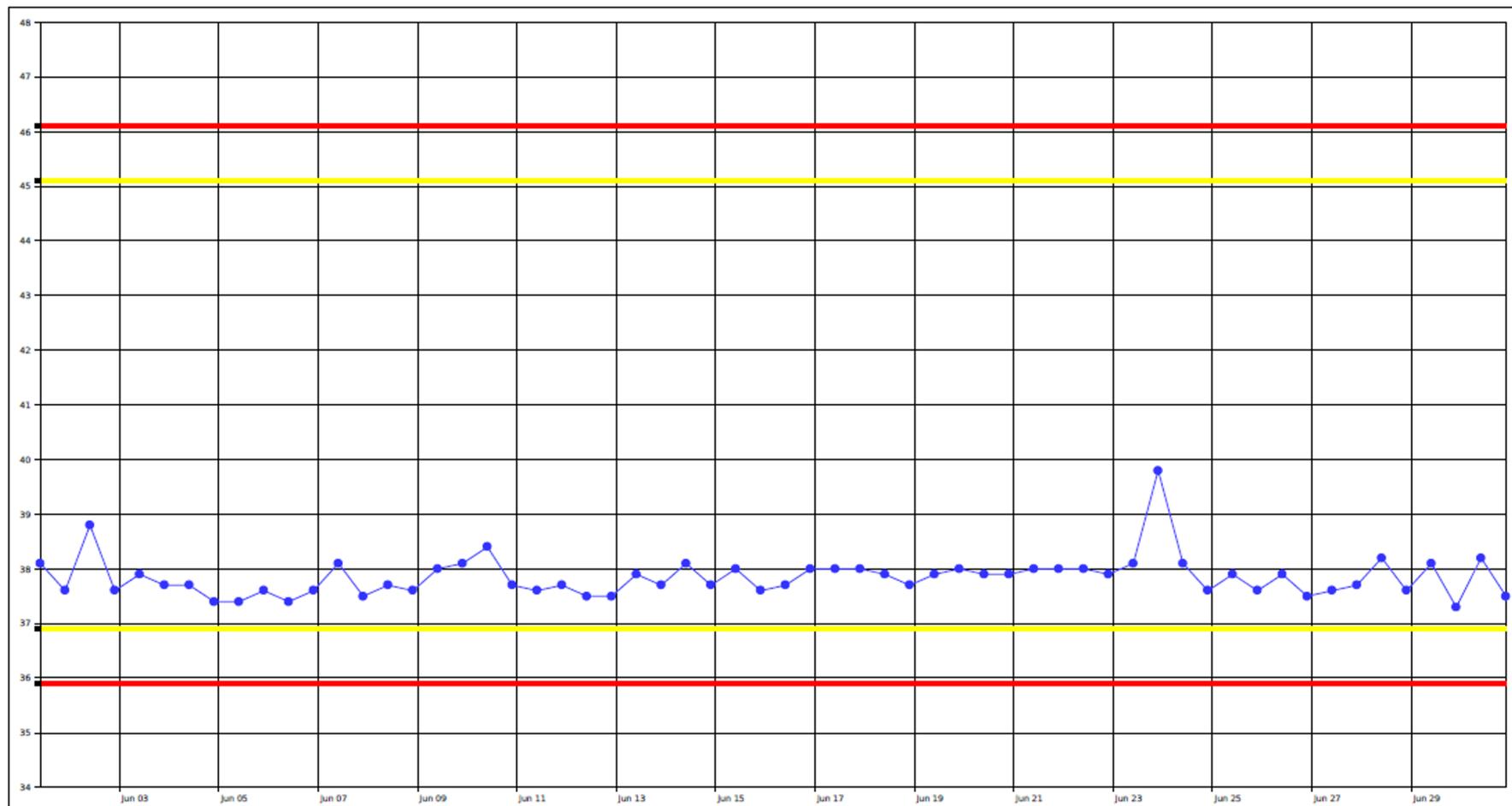
Sonucu Oversight for Indiana VFC

Search 456 November 2020 Start of Month End of Month Get All Data

Point Info	Location	Alarms	Calibration	Get Data
2569 Input 1 Temperature 60C44F33232569 123456	unittest _New Points _New Points	1 alarm last 30 days 2569 Input 1 Temperature Custom Alarm Profile	In Calibration A2C2792515FFFFFFF 11/04/2020	Get Data
2569 Input 1 Humidity 64C44F33232569 123456	unittest _New Points _New Points	0 alarms last 30 days No Alarms	In Calibration A2C2792515FFFFFFF 11/04/2020	Get Data

Data Summary

Day	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Time 1 Reading	09:46 38.1	09:46 38.8	09:46 37.9	09:45 37.7	09:45 37.4	09:45 37.4	09:45 38.1	09:45 37.7	09:48 38	09:47 38.4	09:47 37.6	09:47 37.5	09:47 37.9	09:47 38.1	09:47 38	09:47 37.7	09:47 38	09:47 37.9	09:46 37.9	09:46 37.9	09:46 38	09:46 38	09:46 38.1	09:46 38.1	09:46 37.9	09:46 37.9	09:46 37.6	09:46 38.2	09:46 38.1	09:46 38.2
Time 2 Reading	21:46 37.6	21:46 37.6	21:45 37.7	21:45 37.4	21:45 37.6	21:45 37.6	21:45 37.5	21:45 37.6	21:48 38.1	21:47 37.7	21:47 37.7	21:47 37.5	21:47 37.7	21:47 37.7	21:47 37.6	21:47 38	21:47 38	21:46 37.7	21:46 38	21:46 37.9	21:46 38	21:46 38	21:46 37.9	21:46 39.8	21:46 37.6	21:46 37.6	21:46 37.5	21:46 37.7	21:46 37.6	21:51 37.5



Alarm Information

The **Med Refrigerator (°F)** alarm profile will alarm if the:

- Point reading is above 46.1°F for 5 minutes
- Point reading is above 45.1°F for 5 minutes
- Point reading is below 36.9°F for 5 minutes
- Point reading is below 35.9°F for 5 minutes
- Point is offline for 35 minutes

Offline (Created 06/08/2021 21:35:42) - Resolved 10 hours, 14 minutes and 49 seconds after created.

User	Action	Date	Comment
SoniCloud	Offline	2021-06-08 21:35:42	This device was offline. The alarm was automatically generated at June 8, 2021, 21:35
SoniCloud	Automatically Resolved Alarm	2021-06-09 07:50:31	Alarm was automatically resolved by the system as it was within safe levels for the specified time

Offline (Created 06/23/2021 16:55:59) - Resolved 3 hours, 39 minutes and 51 seconds after created.

User	Action	Date	Comment
SoniCloud	Offline	2021-06-23 16:55:59	This device was offline. The alarm was automatically generated at June 23, 2021, 16:55
SoniCloud	Automatically Resolved Alarm	2021-06-23 20:35:50	Alarm was automatically resolved by the system as it was within safe levels for the specified time

Threshold (Created 06/23/2021 20:35:58) - Resolved 29 minutes and 44 seconds after created.

User	Action	Date	Comment
SoniCloud	Outside of Thresholds	2021-06-23 20:35:58	This device was outside of the permitted range. The alarm was automatically generated at June 23, 2021, 20:35
SoniCloud	Automatically Resolved Alarm	2021-06-23 21:05:42	Alarm was automatically resolved by the system as it was within safe levels for the specified time

Threshold (Created 06/29/2021 20:46:21) - Resolved 19 minutes and 24 seconds after created.

User	Action	Date	Comment
SoniCloud	Outside of Thresholds	2021-06-29 20:46:21	This device was outside of the permitted range. The alarm was automatically generated at June 29, 2021, 20:46
SoniCloud	Automatically Resolved Alarm	2021-06-29 21:05:45	Alarm was automatically resolved by the system as it was within safe levels for the specified time

Threshold (Created 06/29/2021 21:16:14) - Resolved 19 minutes and 40 seconds after created.

User	Action	Date	Comment
SoniCloud	Outside of Thresholds	2021-06-29 21:16:14	This device was outside of the permitted range. The alarm was automatically generated at June 29, 2021, 21:16
SoniCloud	Automatically Resolved Alarm	2021-06-29 21:35:54	Alarm was automatically resolved by the system as it was within safe levels for the specified time

Offline (Created 06/30/2021 01:36:20) - Resolved 11 hours, 49 minutes and 49 seconds after created.

User	Action	Date	Comment
SoniCloud	Offline	2021-06-30 01:36:20	This device was offline. The alarm was automatically generated at June 30, 2021, 01:36
Joe Gustafson	Snoozed Alarm	2021-06-30 08:01:25	Snoozed until June 30 2021, 14:01.
Joe Gustafson	Snoozed Alarm	2021-06-30 13:08:46	Snoozed until July 1 2021, 09:05.
SoniCloud	Automatically Resolved Alarm	2021-06-30 13:26:09	Alarm was automatically resolved by the system as it was within safe levels for the specified time

- Automatically updated with SNAP Program
- NIST Certificate meets CDC requirements
- Stored digitally for easy retrieval



Certificate of Traceability

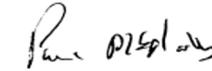
The probes listed below were verified using NIST traceable reference probes, having calibration dates within one year of the test date. Probes are considered passing when the stabilized reading is within $\pm 0.5^{\circ}\text{C}$ of the reference in a stirred liquid bath.

Calibration Data	
Test Date	04/29/2019
Due Date *	04/29/2020
Interval *	12 Months
Probe Type	Digital Solid Buffer
Probe P/N	101234
Probe S/N	DA00000AB6D20528
Probe Result	0.20 °C
Ref. Result	0.00 °C
Delta	0.20 °C
Test Result	Pass

Reference Probe Data	
Manufacturer	ThermoWorks
Model	THS-222-555
Probe S/N	D13280491
Calibration Date	02/06/2019
Accuracy	0.05
Uncertainty	0.01

Calibration testing conforms to ISO/IEC 17025

Calibration Performed By:


Paul McNally

Calibration Approved By:


Brandon Paliga

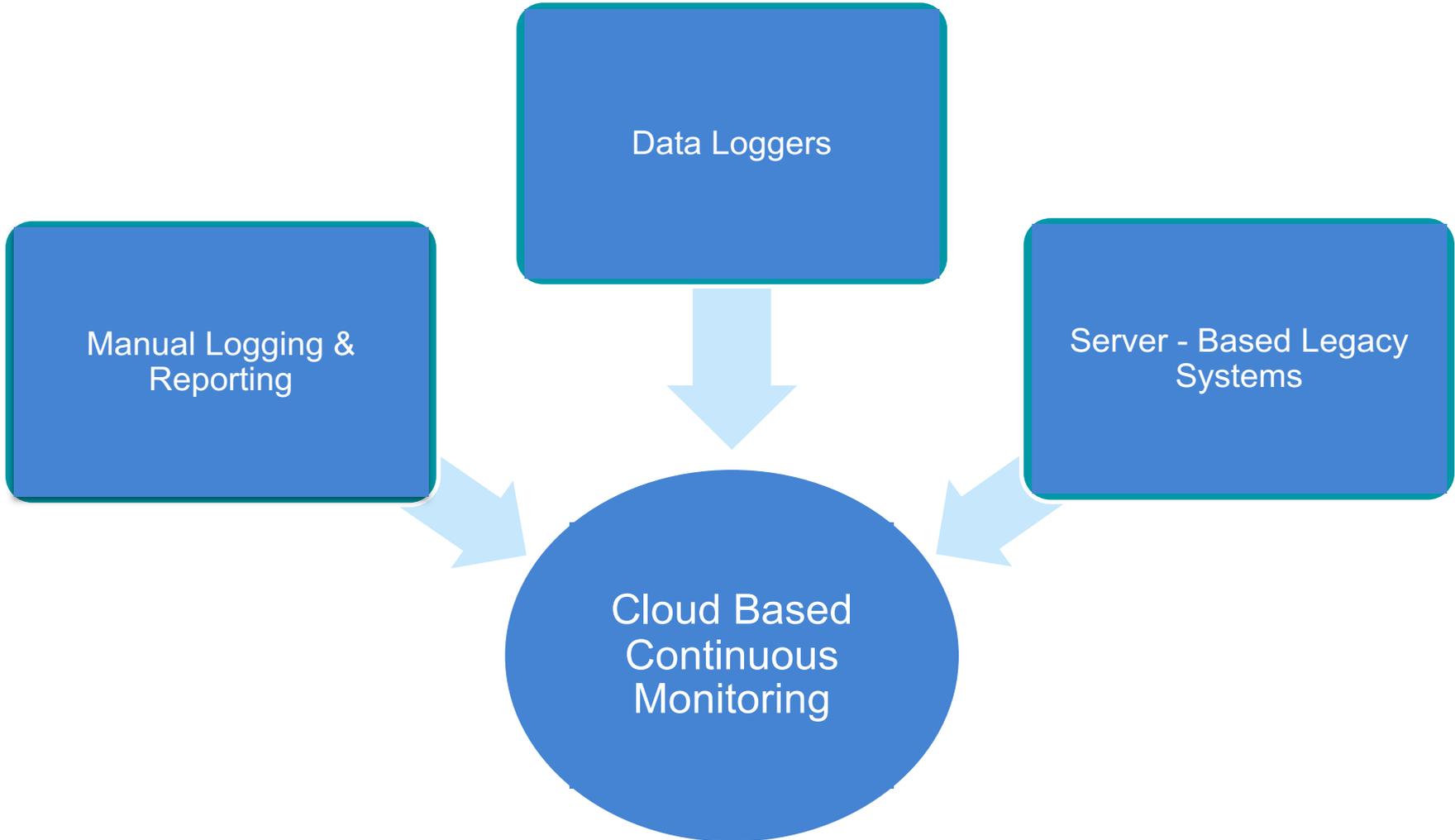
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* Sonicu does not make specific recommendations for recalibration intervals, therefore, the listed Calibration Due Date is dictated by the owner of this equipment.

CDC Requirements for Vaccine Temperature Monitoring

- ✓ * Specific type of TMD called a “digital data logger”
 - * Provides detailed information on all temperatures recorded at preset intervals
- ✓ * Keep data for three years
- ✓ * Use a DDL on each vaccine storage unit
- ✓ * Use DDL the with following features:
 - * Detachable probe
 - * Alarm for out-of-range temperature
 - * Low-battery indicator
 - * Current, minimum, and maximum temperature display
 - * Recommended uncertainty of +/- .5 C
 - * Logging interval to measure and record temp at least every 30 minutes
- ✓ * Use DDL with a current and valid Certificate of Calibration Testing



What's the Sonicu Difference?

Sonicu Automated System

- * Provides monitoring and alarming 24/7/365
- * DataSync (lossless data streaming to SoniCloud)
- * Access data on the cloud anywhere at anytime
- * Automated reporting for compliance

Standard Data Loggers

- * Local alarms only - no remote alarming
- * Require local download to obtain data
- * State can not remotely access data
- * Manually build reports for compliance

“Vaccine storage units require two readings each day. The problem with this type of monitoring is that you only know what the temperature is at the time of the reading. How do you know what is happening the other 23 hours and 59 minutes?”

-Tim Livesay, Pharmacy Director
Hancock Regional Hospital

Ideal Vaccine Monitoring Program

3 Components

1. Meets VFC requirements for temp monitoring device (TMD)
1. Provides Remote Monitoring and Alarming
1. Can easily share data with state



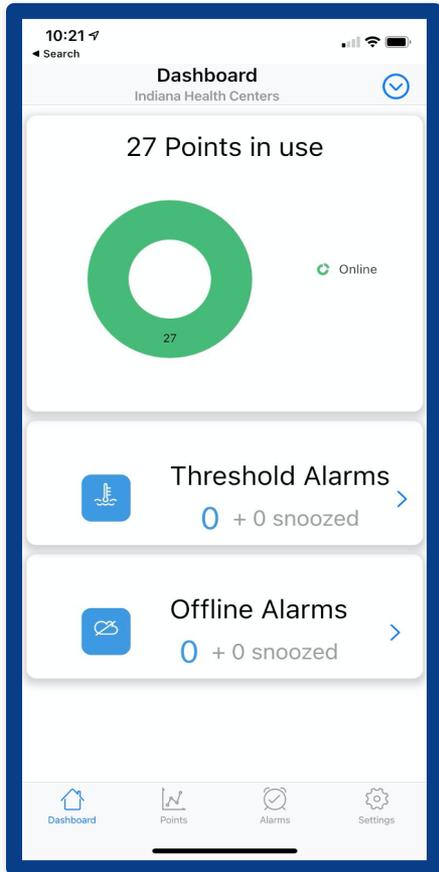
Sonicu's Duo Kit with Display

Sonicu Vaccine Management Program

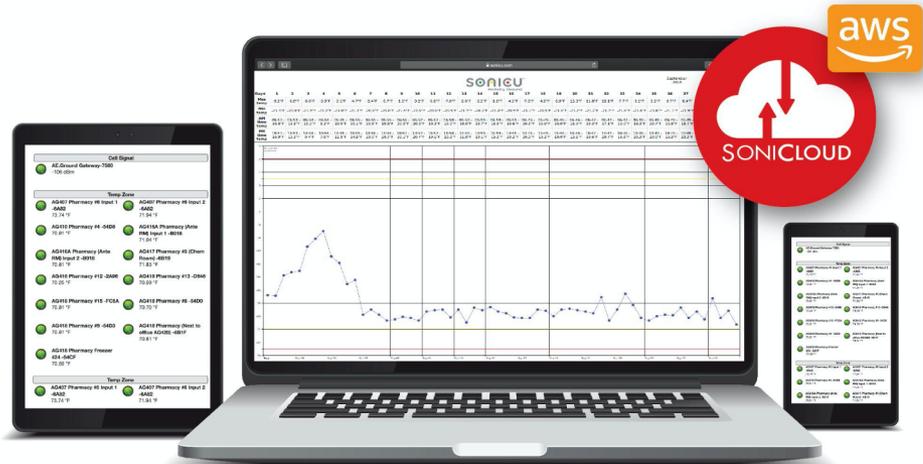
- * Sonicu Vaccine Monitoring Kits include:
 - * NIST calibrated glycol buffered digital probe
 - * Wireless display with local alarming
 - * Redundant power (battery and AC)
 - * 24/7 remote visibility and alarming
 - * DataSync (lossless data streaming to SoniCloud)
 - * Unlimited training, live US-Based support
- * SNAP Calibration program
 - * Automatically receive new NIST calibrated sensors prior to expiration
- * “AIM” Discount program for VFC providers/Health Depts.

Real Time View From Any Device

MOBILE APP DASHBOARD VIEW



SONICU DASHBOARD ACCESS 24/7



SoniCloud Implementation Wizard

Let's get your SoniCloud system up and running!



- Site Configuration
- User Creation
- Group Creation
- Alarm Profiles
- Layout
- Report Setup
- Shipping
- Connectivity
- Point Setup
- Physical Install
- Alarm Activation

- ✓
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Great news, you're currently 54% done! Let's wrap this up!

Site Configuration

Jason Fitzgerald (Sonicu) (jfitzgerald@sonicu.com)

Done!

Jul 1, 2020

User Creation

Jason Fitzgerald (Sonicu) (jfitzgerald@sonicu.com)

Done!

Jul 1, 2020

Group Creation

Jason Fitzgerald (Sonicu) (jfitzgerald@sonicu.com)

Done!

Jul 1, 2020

Q & A

- * Point of Contact for State Immunization Managers:
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- * Point of Contact for VFC Providers:
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