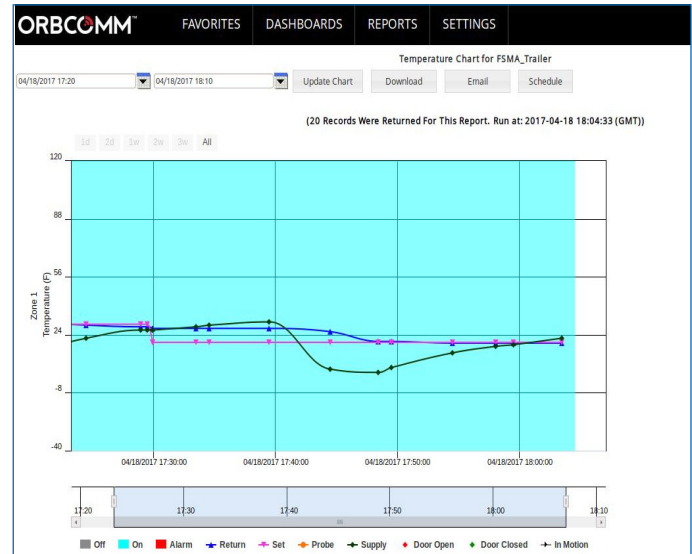


# Temperature management solutions

**FSMA: Get Informed.  
Get Equipped. Get Compliant.**

Comprehensive temperature monitoring, control and compliance for the transport of temperature-controlled cargo.



The FDA Food Safety Modernization Act (FSMA) aims to ensure the safety of the food supply by shifting the focus from responding to contamination to preventing it. Published in March 2016, the final rule has been enforced since April 2017. The Sanitary Transportation of Human and Animal Food, cited in the FSMA mandate, affects those involved in the transportation of temperature-controlled foods, including shippers, carriers, loaders and receivers.

The Sanitary Transportation rule introduces provisions for the design of trailers, new vehicle cleanliness standards, precooling and in-transit temperature monitoring requirements, training guidelines as well as data collection and record keeping stipulations.

## How ORBCOMM Helps Meet FSMA Regulations

**Temperature Management:** ORBCOMM's comprehensive cold chain platform makes it easy for carriers to manage asset temperature with detailed reports, real-time alarms and interactive high-resolution temperature charts. Continuously monitor cargo area temperature of single and multi-temperature trailers and receive alarms when conditions deviate from normal—temperature out of range, unit is turned off, low battery levels are detected and more.

**Remote Reefer Control:** ORBCOMM's state-of-the-art devices connect directly to a reefer's microprocessor to ensure accurate temperature readings and enable two-way reefer control. Adjust temperature settings, turn a reefer unit on or off and initiate a Pretrip or a defrost from a centralized location.

**Trailer Precooling:** Receive notifications when a reefer has reached adequate precool levels or when it fails to precool. Configure the system to automatically send precool notifications to third parties to streamline chain of custody as cargo moves across the cold chain.

**Temperature Certification and Data Collection:** ORBCOMM's cold chain solution automatically captures and stores temperature records that can be quickly delivered to shippers, loaders and receivers as proof of precool and in-transit temperature compliance. Data can be analyzed through interactive charts or downloaded to PDF or Excel.

**Temperature compliance and management**

**Precool notifications**

**Remote reefer control**

**Real-time alarms**

**Advanced reporting**

**Interactive charts**

**Seamless integration with third-party systems**

**On-the-go reefer management**



**ORBCOMM** FAVORITES DASHBOARDS REPORTS SETTINGS Assets, Geofences, Fleets at ?

**REEFER HISTORY GRID** Using Filter Asset ID contains FSMA\_Trailer Event Time 4/18/2017 5:25:00 PM to 4/19/2017 11:59:00 PM

(18 Records Were Returned For This Report. Run at: 2017-04-18 18:04:17 (GMT))

ASSET ID	EVENT TIME (GMT)	EVENT	ZONE 1 FTA STATUS	VOLTAGE	AMBIENT TEMP (F)	OPERATING STATUS	ZONE1 MODE	ZONE1 RETURN TEMP (F)	ZONE1 SET POINT (F)	ZONE1 SUPPLY TEMP (F)
FSMA_Trailer >	2017-04-18 18:03:27	STATUS REPORT	Pre Cool Completed	12.7	57	On	Null (Satisfied)	19	20	22
FSMA_Trailer >	2017-04-18 17:59:29	STATUS REPORT	Pre Cool Completed	12.8	64	On	Null (Satisfied)	19	20	18
FSMA_Trailer >	2017-04-18 17:58:02	FTA STATUS CHANGE	Pre Cool Completed	12.8	64	On	Null (Satisfied)	19	20	18
FSMA_Trailer >	2017-04-18 17:54:29	STATUS REPORT	Pre Cool In Progress	13	57	On	Null (Satisfied)	19	20	14
FSMA_Trailer >	2017-04-18 17:49:30	STATUS REPORT	Pre Cool In Progress	13.7	55	On	Null (Satisfied)	20	20	6
FSMA_Trailer >	2017-04-18 17:48:27	STATUS REPORT	Pre Cool In Progress	13.9	55	On	Null (Satisfied)	20	20	3
FSMA_Trailer >	2017-04-18 17:44:29	STATUS REPORT	Pre Cool In Progress	14	54	Pulse	Pulse	26	20	5
FSMA_Trailer >	2017-04-18 17:39:29	STATUS REPORT	Pre Cool In Progress	12.6	55	On	Null (Satisfied)	28	20	31
FSMA_Trailer >	2017-04-18 17:34:35	STATUS REPORT	Pre Cool In Progress	12.7	55	On	Null (Satisfied)	28	20	29
FSMA_Trailer >	2017-04-18 17:33:29	STATUS REPORT	Pre Cool In Progress	12.7	57	On	Null (Satisfied)	28	20	28
FSMA_Trailer >	2017-04-18 17:30:03	REMOTE COMMAND - SENT								
FSMA_Trailer >	2017-04-18 17:29:56	REMOTE ACKNOWLEDGEMENT-PASS								
FSMA_Trailer >	2017-04-18 17:29:56	STATUS REPORT	Pre Cool In Progress	12.8	61	On	Null (Satisfied)	28	20	27

**Records:** 90-day historical data is available through the ORBCOMM web application or the mobile app. Beyond 90 days, the system archives records for 12 months. A data feed can also be integrated with third-party or proprietary systems to facilitate the seamless exchange of information.

**Documentation:** ORBCOMM's cold chain system offers a centralized document repository to help you store and manage sanitation checklists, wash-out records and more. Records are easily uploaded through the web application.

**FSMA Compliance on the go**

The ORBCOMM mobile app makes it possible for you to manage refrigerated assets on the go. Monitor temperature and alarms, receive precool notifications and more, all from the palm of your hand.

**CALL: 1.800.ORBCOMM    EMAIL: SALES@ORBCOMM.COM    VISIT: WWW.ORBCOMM.COM**

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