

# SaniSafe Transportation

Food Grade  
Transportation **Safety** -  
**FSMA & HACCP**  
Compliance





# The Problem

- ❑ Transportation of food is subject to exposure to unhealthy contamination if shipment containers are not properly sanitized.
- ❑ Sanitizing containers typically involves a water-based process and arduous scrubbing taking considerable cleaning and dry-out time.
- ❑ Use of water-based solutions potentially leaves harmful microbial growth.
- ❑ Water solutions are costly and wasteful relative to environmental standards.
- ❑ Wash out processes are typically undocumented losing validation of sanitizing.

FDA FSMA, Provision 1.906(b) for Sanitary Transportation of Human and Animal Food

All Shippers-Loaders-Carriers-Receiver by Truck or Rail  
involved in transporting human and animal food  
must use documented sanitary transportation practices  
to ensure the safety of that food.



## The Problem with Today's Processes

- Up to \$300 per application with multiple gallons of municipal water.
- 2-3 hours downtime + wasteful idle time – tractor and refer.
- Exacerbates problem – provides nutrients for bacterial growth.
- Wastes water and causes ground water contamination concerns.
- Added costs to reclaim wastewater per local municipality & state
- Does not meet stated FDA guidelines for proper sanitization





# The Problem - Today's Process:

What an Independent Study Found with water-based cleaning

Reefers	CFU Count Prior to Normal Water Spray and Washout	Post Spray Washout (60 mins) CFU count	Percent Increase in CFU's*
1	10	600	6000%
2	900	1300	44%
3	400	600	50%
4	400	900	225%
5	900	2500	278%
6	10	300	3000%
7	400	1300	325%
8	10	1300	13000%
9	700	1600	229%
10	1900	6600	347%
11	190	240	27%
12	100	1400	1400%
<p>* Colony Forming Units (CFU's) as measured using Rodac plates and processed by external laboratory.</p> <p>* As water acts as a nutrient host for bacteria, viruses and molds, the addition of extra water during cleaning provides an ideal breeding ground for increased propagation of pathogens, hence the marked increase in CFU counts.</p>			

**Shipping Container Sanitation Data Provided By a Large National Fleet**



# The Solution - “STATS” Differential Advantage

Electrostatic Delivery System Ensures Complete Surface Coverage

- \$100 per treatment (vs \$300+ for water-based)
- 8 minutes to treat a 53 ft. refer
- No wasted drying, driver or idle time
- Dry-clean process uses 1 qt liquid
- No run-off, no residual product, no puddling or dripping
- Antimicrobial product and spray process is EPA compliant





# The Solution

## The Platform & What STATS Offers:

- Sanitary Transportation Antimicrobial Treatment System (STATS)
- Compliant sanitization, tracking of every treatment event and auditable real-time reporting utilizing a proprietary, secure, cloud-based data repository.
- The STATS platform enables the transportation industry to meet FDA mandates issued under the Food Safety Modernization Act. Provision 1.906(b). This food safety provision is applicable to all modes of commercial transportation and containerization used for incoming foreign and domestic food shipments..

## STATS Process

- Equip customers with electrostatic sprayer, SaniSafe solution, application process training and tracking data entry training.
- Spray entire interior surface areas of container, completed in 8 minutes rendering the container correctly and safely sanitized
- .
- SaniSafe Smart device captures the attached QR code, recording every spray event. Required sanitizing registration is now stored and ready for audit when needed.
- Secured data is available to participating downstream and upstream customers, compliance and legal departments, FSIS, FDA, Custom Inspection Services, Homeland Security, etc.

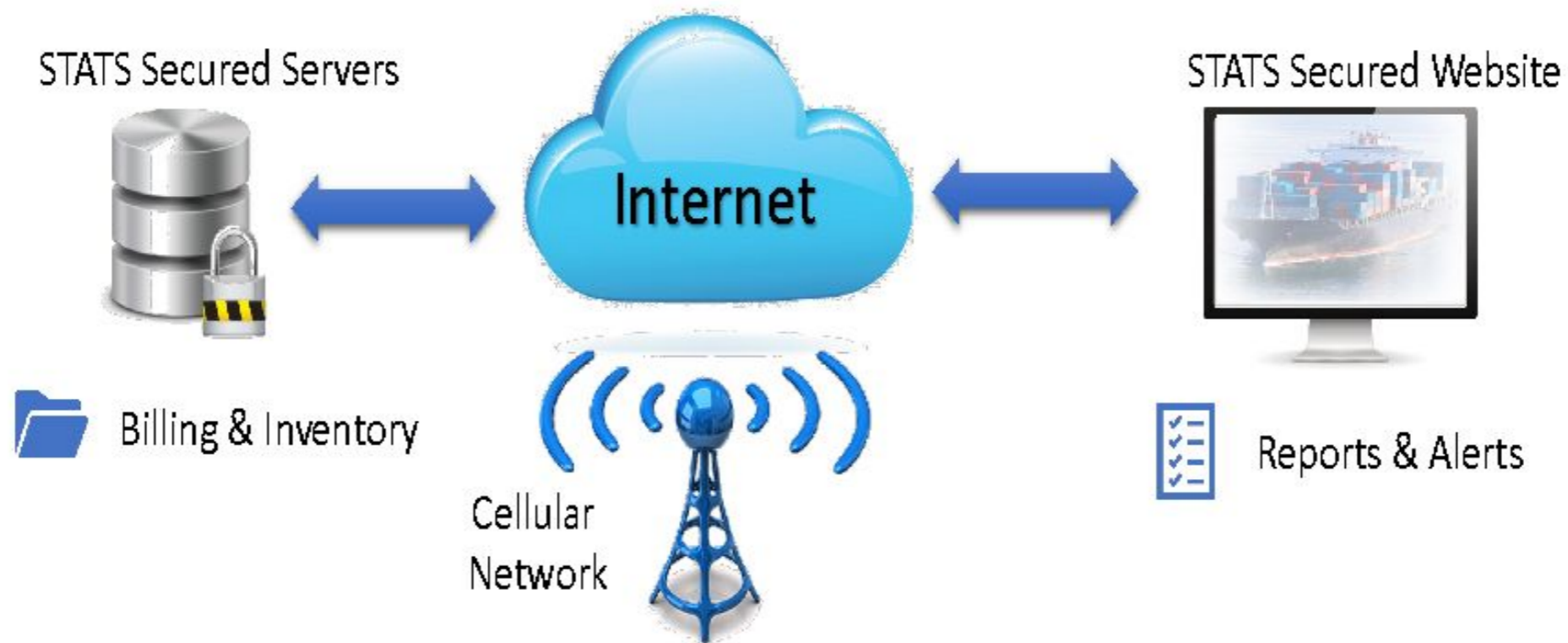


# STATS Protects Against Food Born Illness and Spoilage

- Staphylococcus Aureus
- Salmonella Choleraesuis
- Pseudomonas Aeruginosa
- Listeria Monocytogenes
- E. Coli, and
- Many other pathogens



### Tracking system example:



STATS pre-trip process.  
Treat – Scan Barcode –  
Enter Data – Confirm  
system entry – Release  
Trailer to loading facility



STATS Trailer Arriving at drop off  
warehouse where manager  
confirms sanitary status before  
unloading – ensuring compliance