



From Reactive to Proactive: How Remote Monitoring Transforms Rodent Control in Food Manufacturing

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175 Years of Excellence in Pest & Animal Control



VICTOR

HAVAHART

TERRO

Safer
BRAND Home

Safer
BRAND Garden

DYNATRAP



WOODSTREAM™
VICTOR TERRO G20 HAVAHART DYNATRAP VLINK

Always Building a Better Mouse Trap



The Beginning of the Industry Benchmark
The Victor® Mouse Trap was created



Electronic Rodent Trap Invented
First humane, battery powered 'zap' trap

Gen 2 Project Kicked Off

Feedback & learnings from key customers culminates into an initiative to reinvent the trap from the ground up.



VLINK Extension
Connectivity is introduced to a classic trap design



VLINK Acquisition

VLINK Purchases Envu DPM making VLINK the largest remote system in the US

1898

1978

2004

2015

2016

2020

2022

2023

2024



Continued Innovation
The patented Tincat® multi-catch trap was launched



Kill-Alert
First connected rodent control solution designed and launched

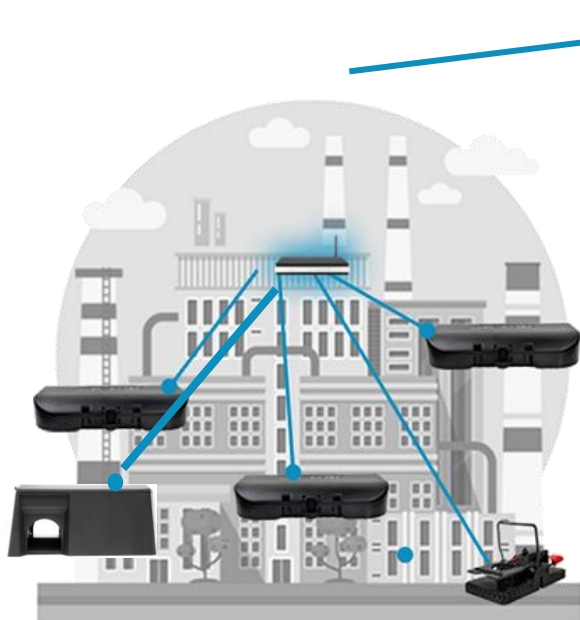


VLINK Launch
After two years of PCO site tours, R&D, breakthrough design discoveries, extensive lab testing, and IoT development, VLINK was launched to the trade

Another Industry First
Ground-breaking bait consumption sensors and connectivity integrated directly into the VLINK Bait Box

What is Remote Monitoring?

Remote Monitoring is a smart, connected rodent control system that provides 24/7 real-time monitoring, alerts, and data insights for your facility.



1

Deployment of Devices
Traps connect wirelessly to a central hub. Traps communicate daily to let you know the current status.



2

Communication
Data is immediately sent to the VLINK® cloud.



3

Notification
Alerts of activity are sent in real time. Custom reports and analytics support preventative actions. Alerts will appear in VLINK RMS application

The VLINK Digital Pest Management System



Snap Traps V430

- More **effective** design than a competitive snap trap
- Accurately **detects** catch/no-catch
- Bait Box compatible
- New Design for Rat Snap trap featuring Replaceable Battery



Tunnel Traps V450 Mouse /V460

- Premium offering for **highest efficacy performance**
- Outdoor **monitoring** alternative to rodenticides
- NEW modes for Indoor/outdoor
- Three-year battery life with replaceable batteries



Bait Box V440

- The only long-range connected bait box that measures **bait consumption**
- **Outdoor** option for heavily infested/populated areas
- Accurate reports of Bait levels inside bait boxes



RMS V445

- Compatible with M312-RMS Tin Cat
- **Excellent** option for heavily infested/populated areas
- Three-year battery life

**All connected through a LoRaWan Gateway at the facility
outside your company Wi-Fi network**

How can VLINK Digital Pest Management benefit you?

Respond Faster - Reduce Risk

- **Stops** small issues before they become infestations
- **Immediate notification** enables rapid corrective action
 - Captures Alert Features
 - Text messages
 - Email Alerts
- **Transparency** for all site personnel
 - Automatic user-configured reporting

VICTOR VLINK Digital Pest Management

WOODSTREAM / KING STREET 4TH FLOOR

29 East King Street, Lancaster, PA 17602 US

AREA TYPE: FLOOR | AREA STATUS: ACTIVE | ENVIRONMENT TYPE: INTERIOR | AREA TAGS

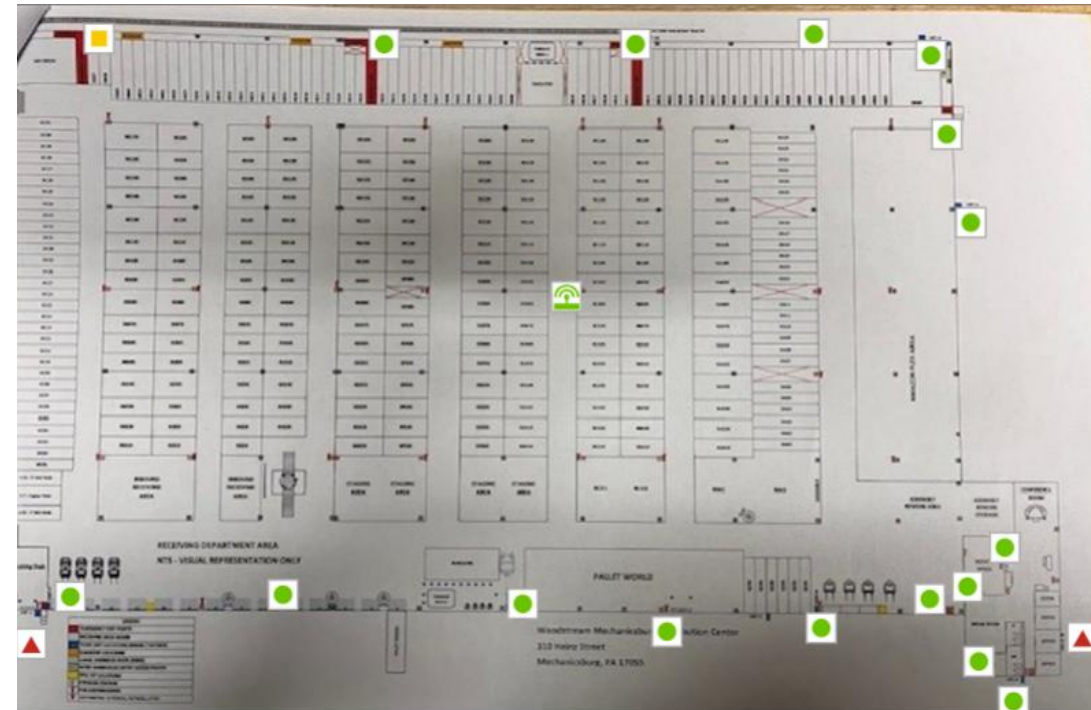
VERIFICATION REPORT | EDIT DETAILS

ASSIGN Technicians (4)

SUBSCRIBE Notification subscribers (4)

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Protect your Product and Brand

- **Prevent** contamination from rodents
 - Droppings
 - Urine
 - Pathogens
- **Reduce** risk of costly recalls and product loss
- **Safeguard** reputation and customer trust



Protect Your Facility

- Prevent damage to equipment and infrastructure



Pass Audits With Confidence!

- Demonstrates a **proactive, controlled pest management program**
 - Digital records available on demand for any of the major Auditing programs
 - Audit Trail & Trend Analysis
 - **Downloadable reports** – showing system and site performance
 - Automated time-stamped data and analytics designed for many stakeholders
 - QA Managers
 - Site or Facility Directors
 - Sanitation Team Members
 - Pest Control Service Providers

System Verification Report

PCO Name: Patty's Pest Control
Customer: Pat's Palatable Pies
Area: Sorter

Report Period: 04/23/2019 07:00 PM CDT - 06/28/2019 12:17 PM CDT
Total Active Monitors: 8

Total Captures	Total Triggers
5	1

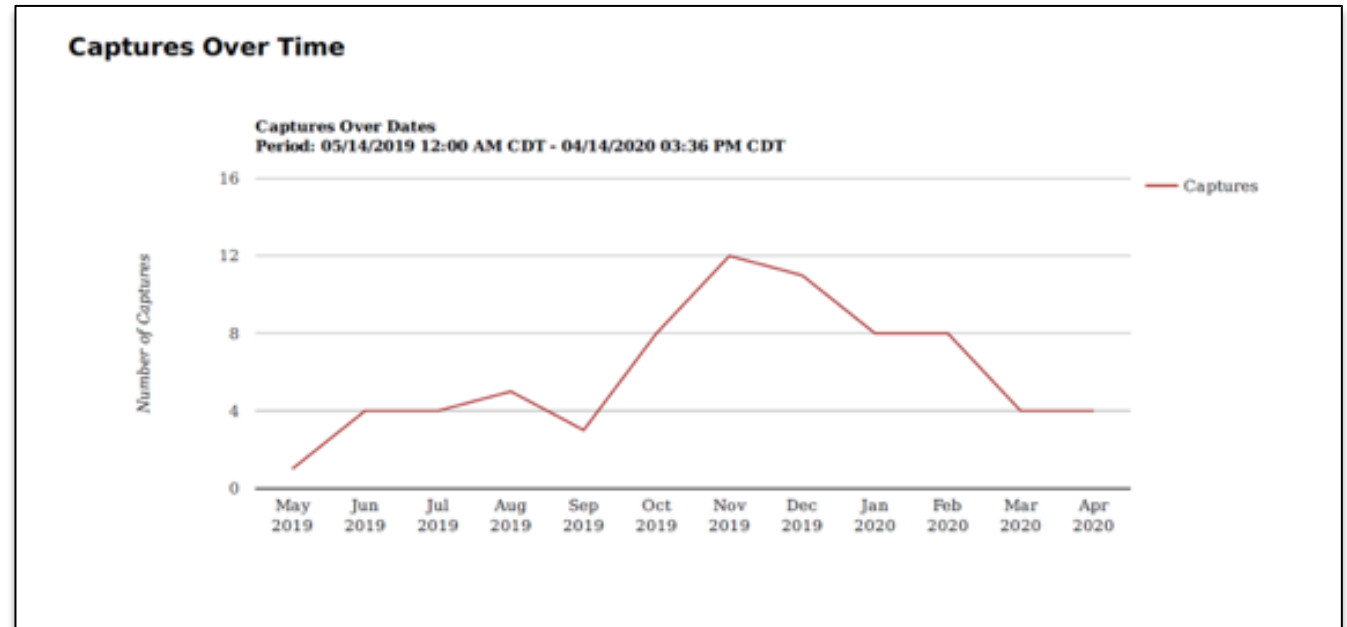
Triggers are caused by severe movement and are not mouse captures

Missed Monitor Connectivity Monitors send a daily "heartbeat" to confirm they are online. Monitors with missing heartbeats are listed below

Date	Monitor Location	Current Status	Date Reconnected
04/25/2019	1	Online	04/26/2019
04/25/2019	2	Online	04/26/2019
04/25/2019	3	Online	04/26/2019
04/25/2019	4	Online	04/26/2019
04/25/2019	6	Online	04/26/2019
04/25/2019	5	Online	04/26/2019
04/25/2019	7	Online	04/26/2019
04/25/2019	8	Online	04/26/2019
06/11/2019	1	Online	06/12/2019
06/11/2019	2	Online	06/12/2019

* All Capture statuses are recorded and saved by the monitor and alert user when system reconnects. Warning: false alert detection is disabled during missed connectivity

Comments:



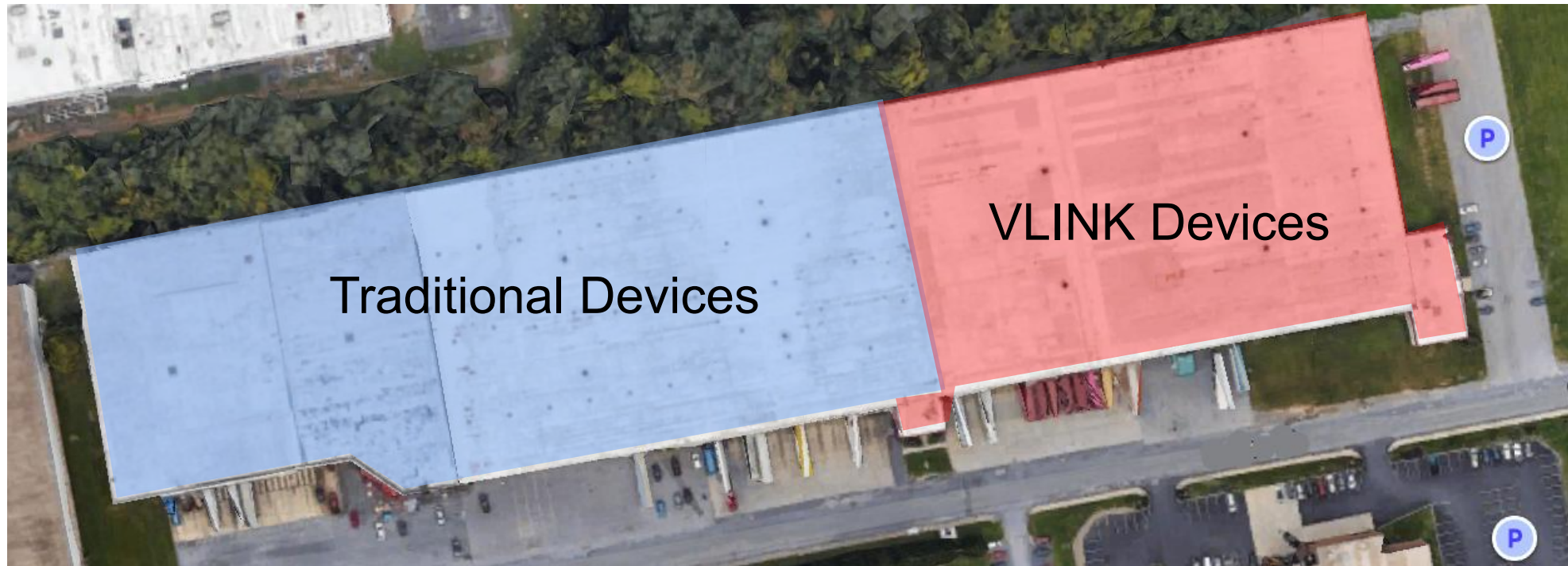
Real Time Monitoring – Instant Alerts

- **24/7 monitoring** vs periodic manual checks
- **Instant alerts** when activity occurs
- No more blind spots between service visits
- **Any sized facility**
- Covers US & Canada

The screenshot displays the VLINK Digital Pest Management interface. At the top, the navigation bar includes the VLINK logo, the text 'Digital Pest Management', and utility links for 'HELP CENTER', 'MEBNER@WOODSTREAM.COM', and 'LOG OUT'. Below the navigation bar, the main section is titled '/ ACTIONS REQUIRED'. On the right side of this section, there are two buttons: 'EXPORT ACTIONS REQUIRED' and 'REFRESH'. The dashboard is divided into two main panels. The left panel, 'Monitored Locations', shows a total of 466 active locations. It features eight circular gauges representing different status categories: Ready (450), CAPTURE (2), OFFLINE (8), PROBE DISC. (0), TRAP EMPTY (0), MODE MISMATCH (0), BATTERY LOW (1), and SUBMERGED (0). The right panel, 'Gateways', shows a total of 14 active gateways. It features two circular gauges: Online (14) and Offline (0). Below the gateway gauges is a search bar and a table with columns for 'CUSTOMER / AREA', 'GATEWAY', and 'LAST MESSAGE'. A warning icon and the text 'No data available' are displayed below the table.

Lower Costs & Improve Efficiency

- **Reduce** unnecessary trap checks and labor time
- **Focus** resources where activity actually occurs



70 devices*

21 devices*

*Current service area is 300K square feet and VLINK area is 135K square feet

Capture Comparison Over 6 Months

Traditional Program Managed by PCO

6 Rodent Captures

Site management reported more captures than was documented on service tickets (inaccurate representation of rodent pressure)

No Instant Alerts

Site management maybe unaware of devices with captured rodents inside.

No Instant Trends or Heatmaps

Data must be gathered and interpreted

VLINK™ IPM Program

38 Rodent Captures

All captures have timestamped kill data.

Instant Alerts

Multiple individuals can receive text or email alerts of device capture notifications.

Instant Trends and Heatmaps

Area trends and heat maps can be pulled instantly

*Current service area is 177K square feet and VLINK area is 133K square feet

Time Comparison Over 6 Months

Traditional Program Managed by PCO

70 devices*

Up to 29% of devices were not checked during service

7 Hours (70 minutes/month)

Were spent checking devices, of which 98% were empty

0 Additional Inspection

No additional time was spent on checking any other areas of the warehouse

VLINK™ IPM Program

21 devices*

Devices automatically check in daily. Over 6 months reporting 3,900 data points

1.9 Hours (19 minutes/month)

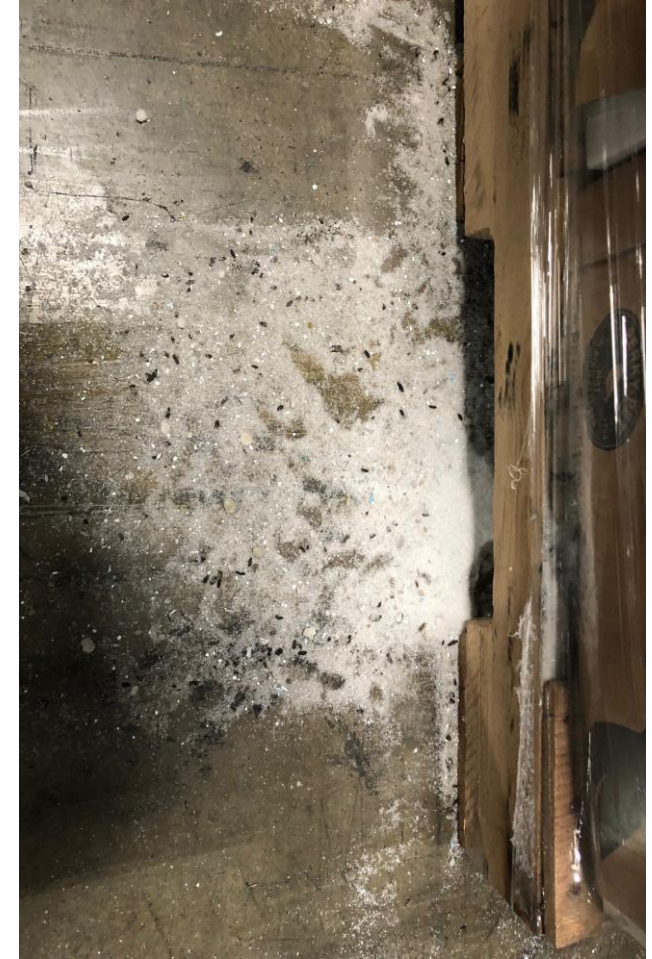
Spent servicing devices with 100% capture rates

5 Hours Inspection time

Available for additional inspection without increasing service time.

*Current service area is 177K square feet and VLINK area is 133K square feet

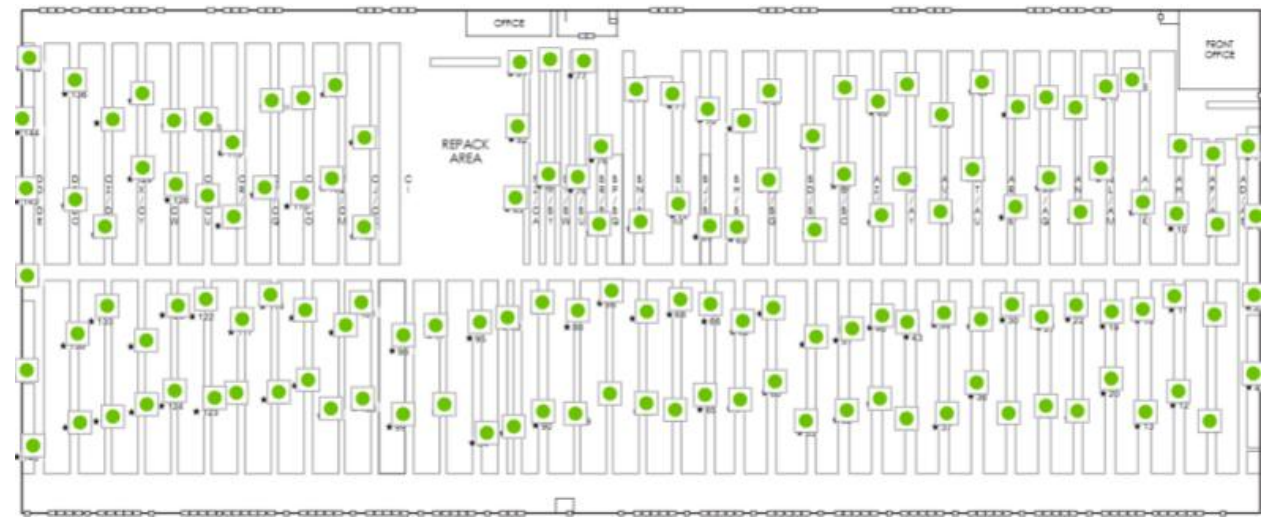
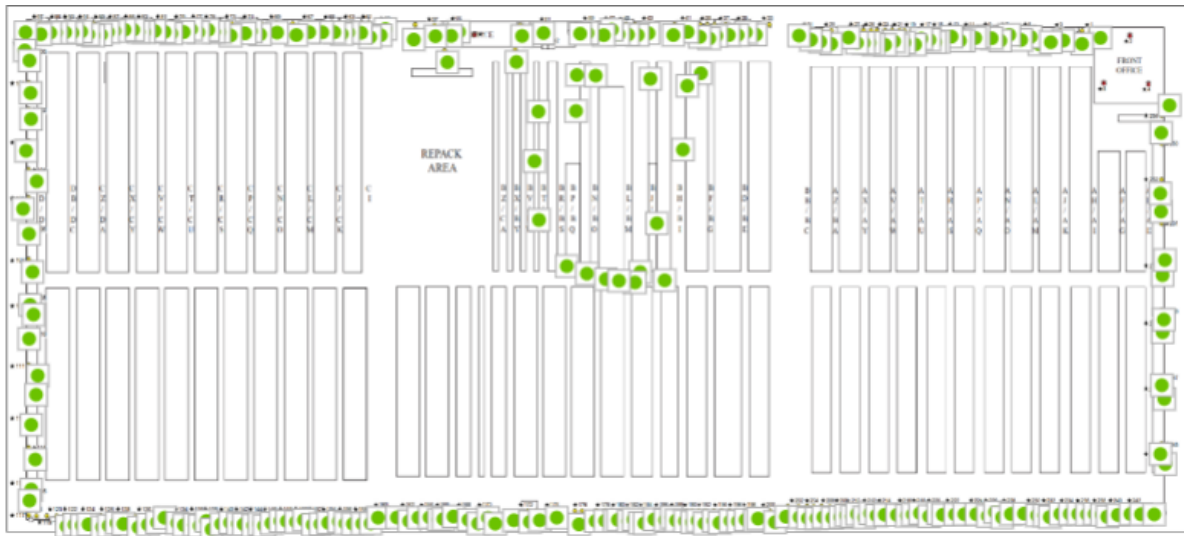
Visual Inspection - Damage being done



*Current service area is 300K square feet and VLINK area is 135K square feet

Automated Facilities

VLINK DPM Devices are suitable for interior use in automated environments



Food Plant Case Study

Summary of current VLINK DPM usage at Food Manufacturing and Food Storage locations

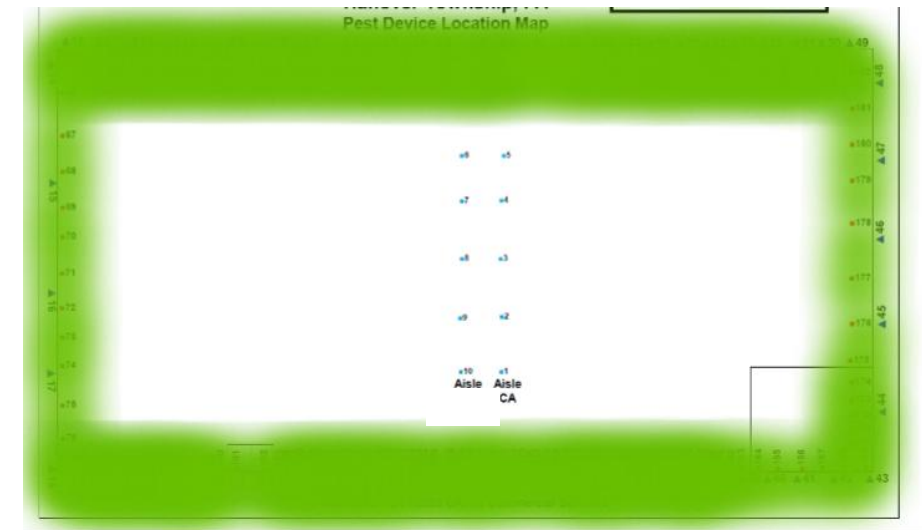
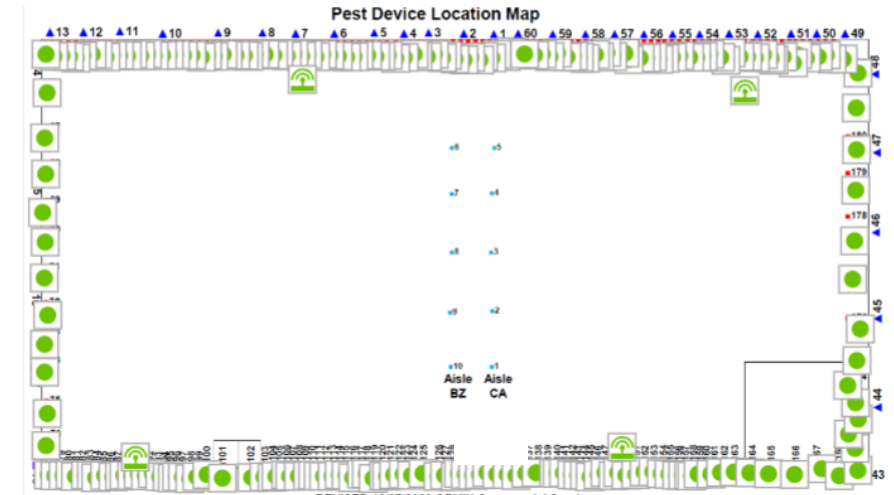
161 Locations

20,000+ Devices online

520 Gateways Online

6.3 Million Device Check-ins in One Year

Example 1.1 million ft² warehouse with fully connected equipment using data to create heat map trends to identify critical areas using technology. Labor savings of up to 75% by utilizing data generated by the DPM system.



Global Biosecurity Case Study

All sites have proven an increase in biosecurity since adding VLINK to their rodent control program. **Managers have 24/7 visibility of all rodent activity at a global level for all sites managed.**

2 Countries

10 Locations (and counting)

25 Gateways

1200+ Rodent kills

1000 Devices



One location has eliminated the need for rodenticides and removed all the bait stations. **This has removed around 220lbs of rodenticide from one facility. Biosecurity has increased on the site and is reflected by yearly reduction of rodent incursions.**

Choose the Best

VICTOR VLINK® Digital Pest Management is THE leader in remote monitoring in the Food Manufacturing Industry



- ✓ Protection for your Facility, Product & Brand
- ✓ Real Time Alerts - Instant Notification
- ✓ Faster Response Time – Reducing Risk
- ✓ Pass Audits with Confidence
- ✓ Lower Labor Cost & Improved Efficiency
- ✓ Rodenticide Free Options

Woodstream Commercial Team



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