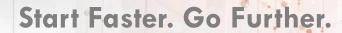


Connected Product Solutions for Industrial Digital Transformation

Cold Chain
Transportation







Cold Chain Transportation Challenge

- Multi-million dollar theft and spoilage losses
- Increasing regulatory requirements
- Unpredictable departure and arrival times
- Unreliable and inefficient shipment planning
- Inefficient use of fleet through uneven asset distribution utilization
- Significant in-yard fuel waste

Cold Chain Transportation Solution

Complete Door-to-Door Chain of Custody

- Geofence programmable trailer lock support
- Remote diagnostic monitoring and control
- Predictive arrival time alerts

Workforce Management & Regulatory Compliance

- Load and unload times, engine idle duration and location
- Full audit trail for regulatory and food safety requirements
- Active on-site loss prevention monitoring and alerts

Fleet & Asset Optimization

- Geo-distribution, asset turns, and trailer utilization
- Batch control, JIT pre-cooling for same-day route planning
- Integration with machine learning and enterprise systems

Proven Benefits

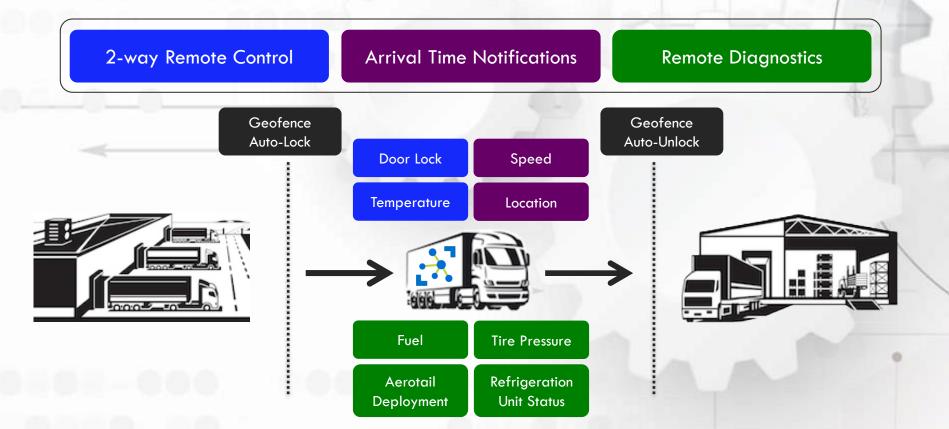
Real-time Monitoring = **Reduced Loss**

Predictable Arrival Times = Faster Turnarounds

Batch Pre-cool = Significant Fuel Savings

Enterprise Data Integration = Continuous Improvement

Door to Door Chain of Custody



Workforce Management & Regulatory Compliance



^{*} California Air Resources Board

^{**} Hazard Analysis and Critical Control Points

Fleet and Asset Optimization

2-Way Fleet Communication

Asset Management

Machine Learning

Fleet Alerts

Single Unit Granularity

Batch Mode Commands

Asset Turns

Geo-Distribution

Trailer Utilization

Analytics

Data Access Control

Enterprise Integration



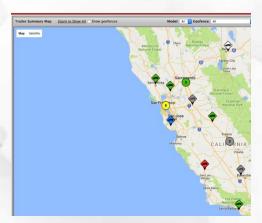


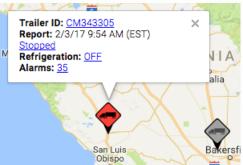




Fleet Monitoring and Alerts

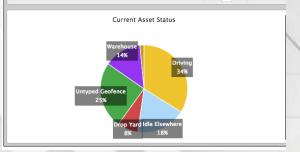




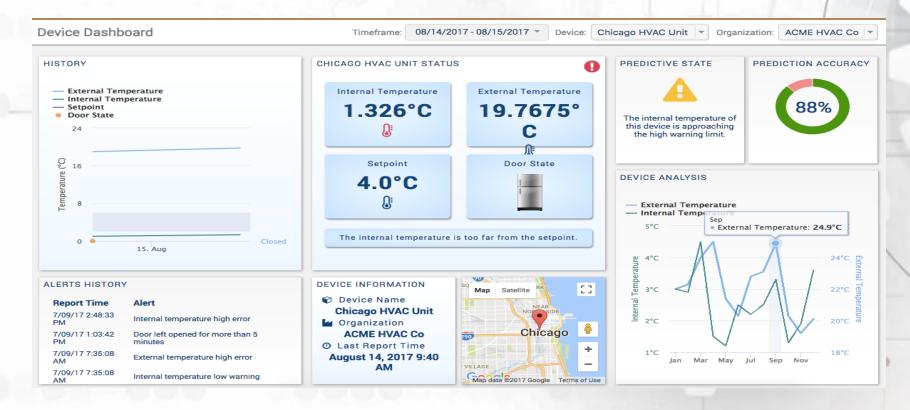




		s		1
Geofence	Total	i5 Units	i5s Units	i7 Units
Americold Allentown	1	0	0	0
Badger Utility Kaukauna	1	1	0	0
Brakebush	2	2	0	0
Cargill Butler	3	3	0	0
Cargill Peck	4	3	0	0
Denali Frozen	1	1	0	0
Hansen Cold Storage	1	1	0	0
<u>Larpen-Hartford</u>	1	1	0	0
Marty Sav-A-Lot	1	0	0	0
Menards Iron Ridge	2	2	0	0
Mullica Hill Cold Storage	2	2	0	0
Roundy's	2	2	0	0
Ryder Beaver Damn	1	0	0	0



Customizable Dashboards





A Trusted Partner for Azure IoT Connected Solution Delivery

Bright Wolf has almost a decade of experience as a system integration and technology partner for Global Forbes 2000 industrial enterprises



Our cold chain transportation solution is deployed at one of the world's largest retailers and on refrigerated trucking fleets across North America



Real-time monitoring of fluid loop components and alert system, including inventory management and asset tracking with admin consoles and secure mobile applications

sales@brightwolf.com

919-636-9754

"The partnership with Bright Wolf has moved beyond the system itself – they have been a great partner in discussing the path forward and IoT considerations stretching from IT security to process reinvention."

- Kurt Mueller, Director of Product Management

SHAPE TECHNOLOGIES GROUP

"Bright Wolf's connected product systems expertise has been critical for several of our solution groups. From the edge to data management, Bright Wolf has been a great partner for our IoT initiatives."

- Brian Boothe, Engineering Manager



"We chose Bright Wolf for their deep experience delivering customizable solutions at the industrial



- ® edge, and they've been a steadfast solution partner every step of the way."
- Merritt Callaghan, Supervisor

Start Faster. Go Further.

