

Insight Into Your Container Assets



















S-Winnus is taking a step forward in logistics innovation
by providing real-time logistics monitor and control system services
to various logistics industry members such as shipping line, shippers, and forwarders.

Introducing Our Partners

























Since its beginning, S-Winnus has been investing in R&D,

S-Winnus has secured leading technology in the logistics control market.



Door opening and closing sensor for container



Container stack tier measurement system and method



Communication device and method using communication protocol of logistics tracking devices



Container door sealing device and its operating method



GPS error correction device and method for logistics tracking devices



Container door sealing device and method using Near Field Communication(NFC)



Freight train monitoring system and method for sensing and transmitting information on the status of cargo containers transported by rail



Container tracking device



Computer application software used to implement the IoT



IoT devices for monitoring and remote control of reefer containers



Analysis and validation program for predicting reefer container failures



Computer application software used to implement the IoT



Remote control device for the IoT



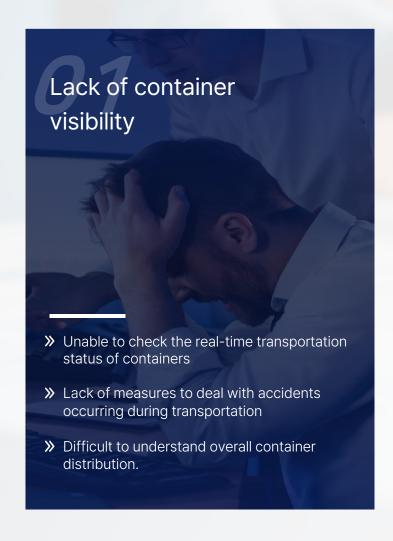
Program for predicting container movements



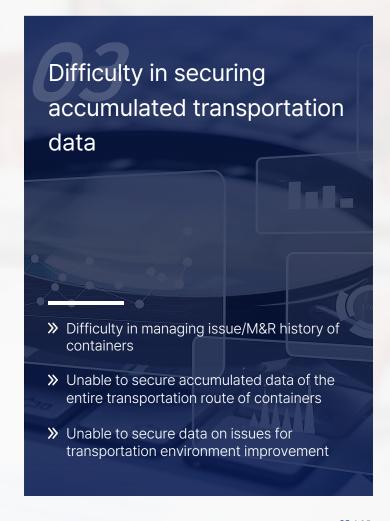
IoT devices for monitoring refrigerated containers

Ineffective transport process

that is not suitable for high-value products



Excessive occurrence of unnecessary costs >> Unable to verify the cost of container setup >> High-value cargo damage loss. Additional cost for securing container data



03.Market problem solving

The integrated control service **Smart Reefer Solution**, which combines **IoT devices and platforms**

Enhance container visibility

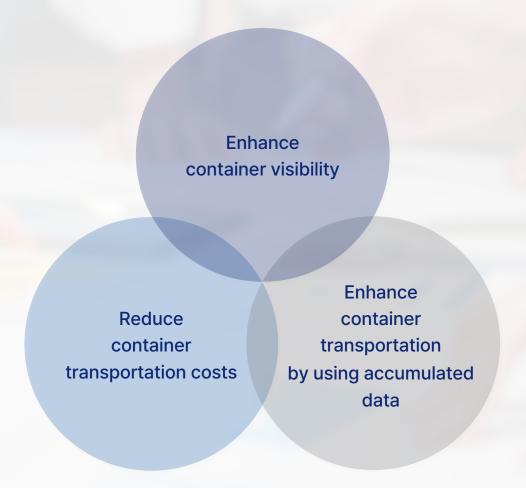
>> Utilizing IoT devices for container monitoring enables swift issue response, real-time status checks, and comprehensive operational insights across all owned containers.

Reduce container transportation expenses

>> By validating previously unverifiable container setup expenses, we can cut down unnecessary costs and establish clear liability in case of cargo damage, thereby reducing compensation expenses.

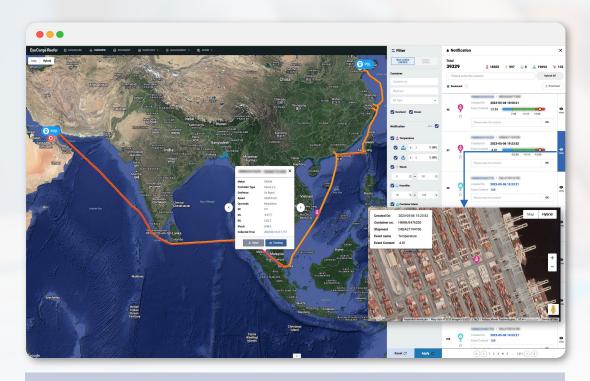
Enhance container transportation by using accumulated data

>> Using accumulated container transport data enhances cargo movement conditions, manages abnormal events, tracks container repair history, and thus ensures containers remain in optimal condition.



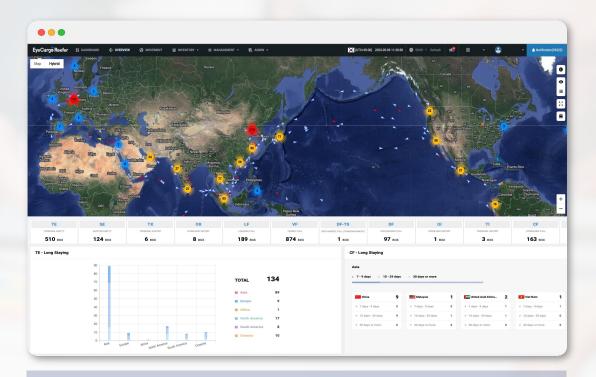
Establish a real-time container transportation management system

by enhancing the visibility of reefer containers



Real-time control function

>> Reefer containers linked with IoT devices offer real-time oversight of location, humidity, and other key data. Instant alerts avert potential harm to valuable cargo during any abnormalities.



Understand the global status

>> Quickly grasp worldwide reefer container status and optimize usage by tracking idle periods per region for an efficient container plan.

03.Market problem solving

Reduce management costs for reefer containers

by utilizing IoT validation data





Determine liability for cargo damage

>> Preventive actions for in-transit cargo damage and identification of responsibility for existing damages are achievable through comprehensive analysis of container status data throughout transportation, resulting in reduced compensation expenses.



Validate container setup billing costs

>> Verify previously unverifiable billing items like PTI execution, monitoring, electricity bills, and storage fees using real container status data.



Secure container status data

Access container operation logs in Excel format anywhere, simplifying analysis. No need for separate requests or post-operation fees as before.

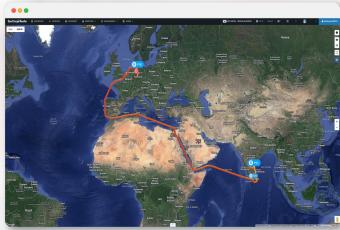
Improve reefer container condition and transportation environment

using accumulated big data

Provide transportation analysis reports by shipment

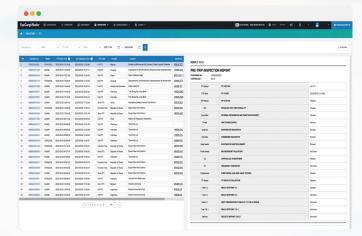
Enhance global transport with analysis summarizing impact zones, extended transit delays, power-offs, and more on container routes per shipment.

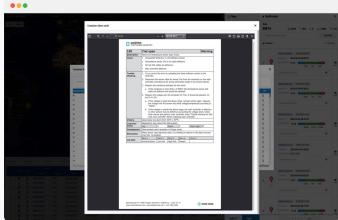




Utilize container M&R data

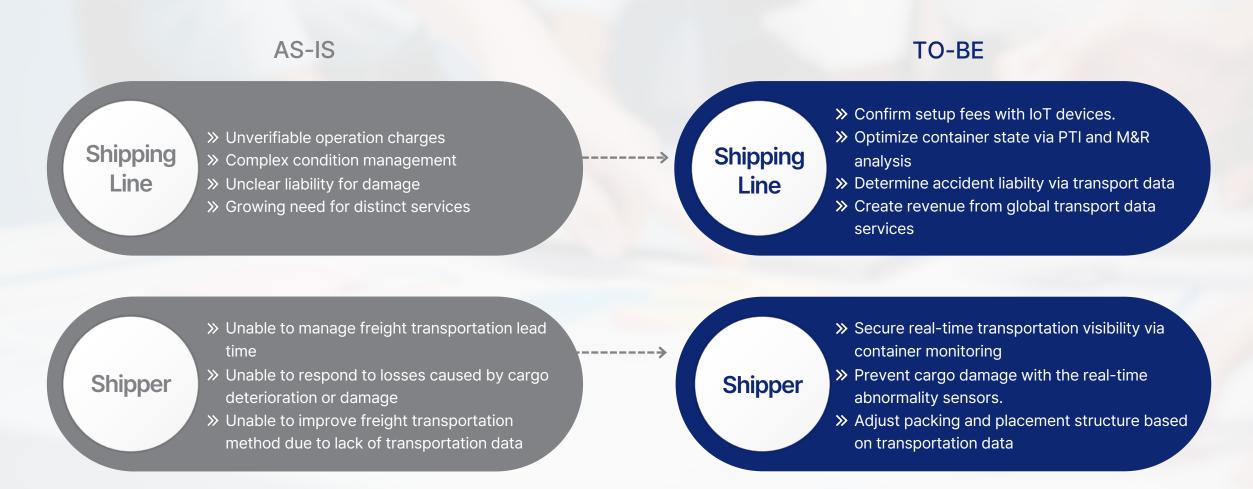
- >> PTI data, container error info, and response methods can form a DB for managing conditions.
- Smart prediction to preclude reefer container issues, safeguarding cargo. (R&D in progress)





Improve pain points in the reefer container logistics chain

by adopting an IoT device-integrated solution.



CTR-S200

Smart Reefer Solution - IoT Device



Size 15.1cm x 9.6 cm x 2.7cm

Weight 300g

Battery 6,800mAH

Bluetooth BLE 5.1

Shock IK10

Water and

dust IP66, IP67

resistantip

Status data collection

General status data

Collect location, temp, humidity, and CA data. **GPS**

Tracking location

- Apply Satellite-Based Augmentation System (SBAS)
- Provide accurate GPS information

External Sensors

Additional sensors

Integrate external sensors via Bluetooth.

Remote Control

Telecommunication

- Change temperature and humidity and execute PTI remotely
- Provide container control functions

Reliability

Durability tests

- Achieved IP66, IP67 and IK10 ratings
- Secured strong durability

Data stability

Equip with built-in memory

- Store log data in the built-in memory
- >> Prevent data loss

Global roaming communication

Auto roaming

- > 2G/3G/4G networks supported
- A stable communication environment secured

Battery

High-capacity, efficient power design.

- Equip with a large capacity battery
- Efficient power for long-term use

Eye Cargo Reefer

Smart Reefer Solution - Platform





Eye Cargo Reefer Main functions

Real-time container monitoring and control system

Container Tracking



Dashboard

container operation statistics.



Container M&R

PTI/Error code history



Movement

Transportation Segments



Service for shipper

Door to Door Service





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