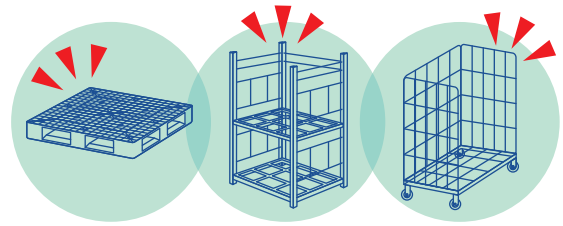


# Logistics Asset Tracking Solutions

No scanning or gates required. Sensor technology is transforming logistics.

## Locate missing pallets and containers



## Logistics Asset Transportation Status Visualization Service

Simply affix a tracking device to your logistics assets and transmit data as required

- ▶ No additional setup costs or hassle with scanning of tags

Learn about logistics asset loss, overconcentration, stagnation and outflows

- ▶ Understand the congestion occurring within logistics routes

Establish connections between logistics asset position information and other selected information (e.g. carried goods, date of manufacture)

- ▶ Understand distribution routes before and after entry to/release from warehouses
- ▶ Know when to perform maintenance on or replace pallets



Assembled

Tracking devices attached to Alps Logistics' collapsible stack racks



Collapsed

Trial in progress



Asset stagnation info

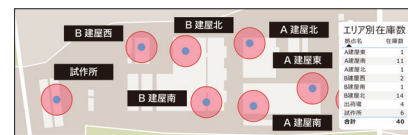
## On-Site Asset Location Management Service

Simply install Wi-Fi® beacons on the premises to add Wi-Fi® access points

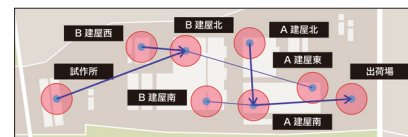
- ▶ Locate assets with high accuracy regardless of the site conditions

Visualize asset positions and movements to a chosen accuracy level (building level to storage space level)

- ▶ Reduce time and effort spent looking for logistics assets and parts/materials
- ▶ Understand flows of assets and parts/materials on the site



Data on asset inventories on plant premises



Asset movements on plant premises



### Long-Lifetime Asset Tracker + Wi-Fi® Beacon

- Simply attach one tracker to a logistics asset to enable high-accuracy indoor/outdoor positioning
- Add extra on-site Wi-Fi® access points



### MonoTra™/Private Database Service

- Low-cost and high-accuracy Wi-Fi® positioning database
- Positioning accuracy can be improved (down to approx. 15m), enabling pinpointing of assets to the floor of the building

### MonoTra™ Dashboard/BI Tool Connectivity

- Ascertain asset inventory, stagnation and loss status at a glance
- Enter info on goods in the memo field to manage logistics assets and goods together

