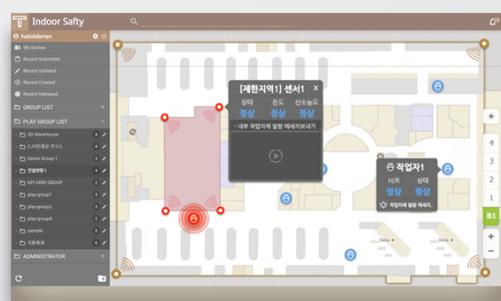
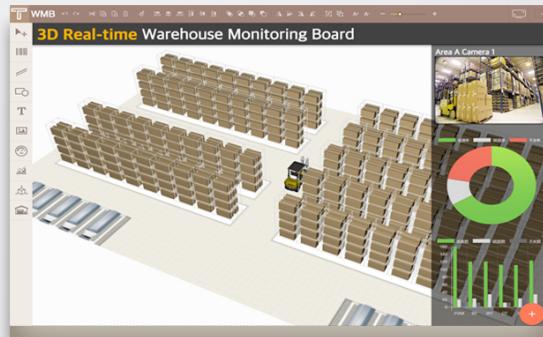
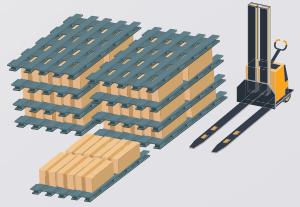
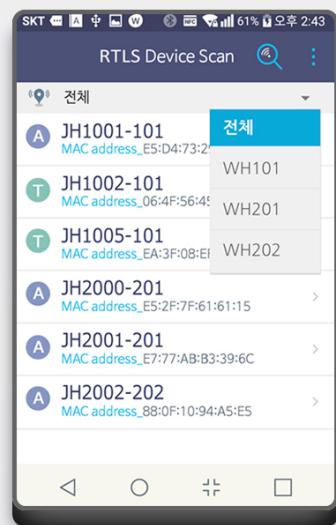
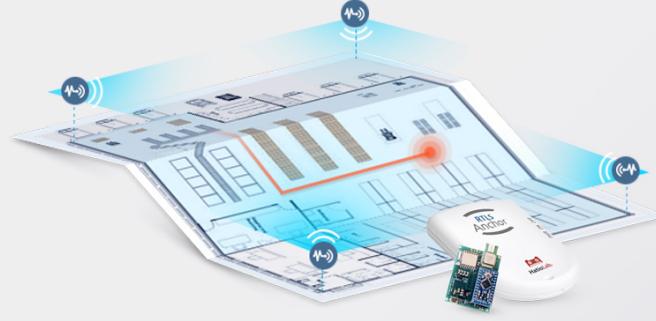


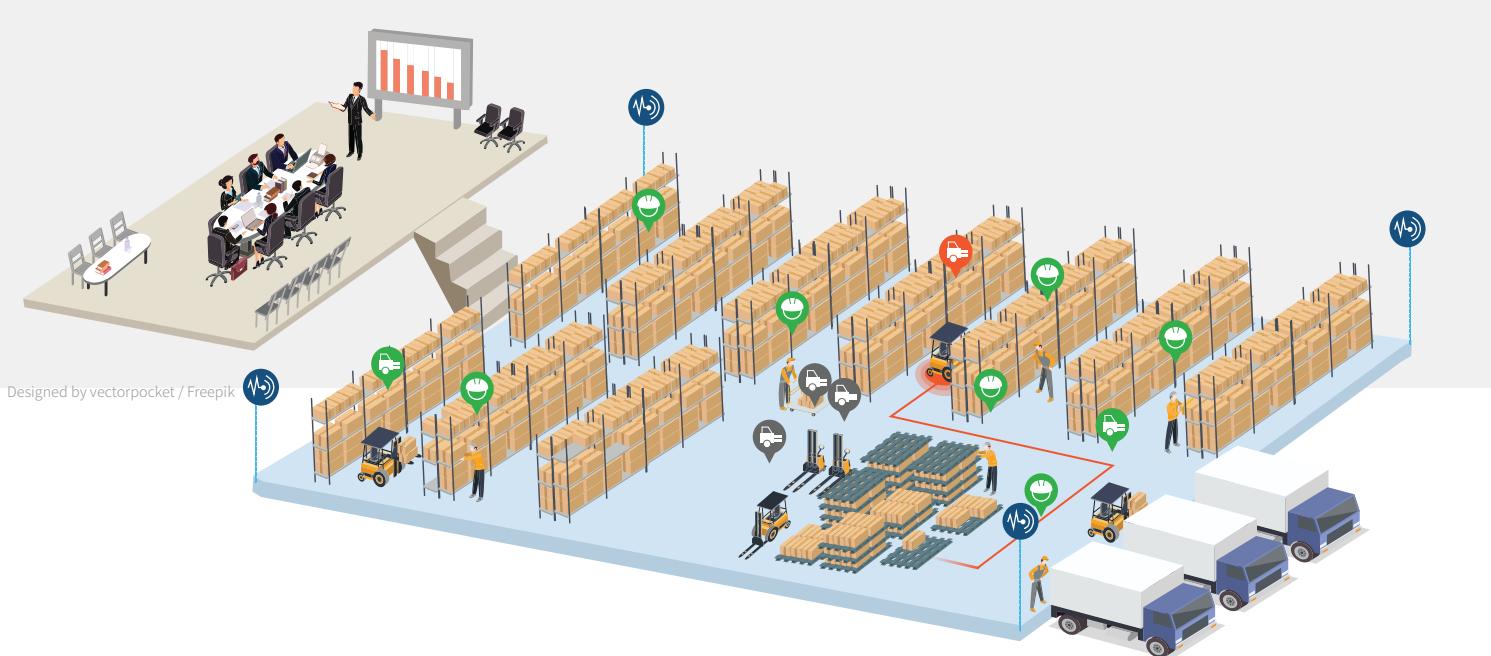
ThingsRTLS



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Real-time Location System ThingsRTLS



Designed by vectorocket / Freepik



Excellent Indoor/Outdoor Accuracy

Seamless indoor/outdoor location tracking using wireless network (UWB, BLE), inertial sensor (IMU), GPS, and machine vision



Cost Effective Infrastructure Deployment

Enhanced RTLS technology supporting cost effective indoor/outdoor infrastructure deployment to achieve high return on investment



Resource Activity Visibility

Real-time visibility of indoor and in-motion resource activities by 3D modeling and monitoring

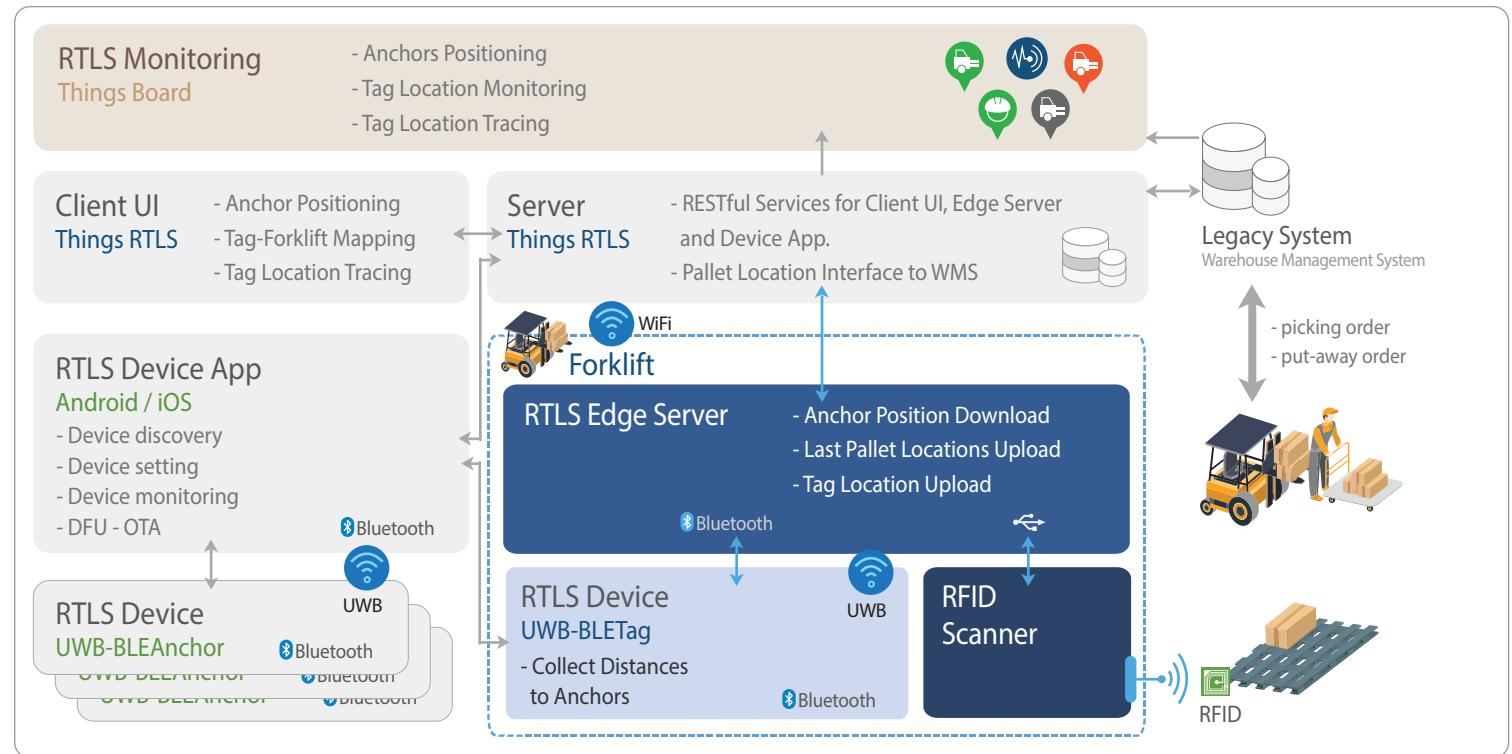


Superb System Interface Features

Flexible backend system interface features for WMS, MES, and other diverse enterprise information systems applicable to efficient path management and navigation

Case Study for Warehouse

(KIPO patent pending)



Applicable to Smart Factory, Logistics, Construction, Public, Expos and More !

- ✓ Indoor Navigation (Picking, Put-away)
- ✓ Work Safety and Work Guide
- ✓ Resource Path & Operation Mgmt.
- ✓ Augmented Reality Applications



□ RTLS Monitoring Example

□ RTLS Device App

Optical Flow

Quaternions Euler Angle
- W 1.999992 - Yaw -2.1
- X 0.0 - Pitch 2.3
- Y 0.0 - Roll 0.2
- Z 1.999992

Camera Odometer Setting

Odometer Mode

속도 9.4 km 경과시간 00:02:01 이동거리 19 m

Camera Odometer Setting

Calibration

Capture Success: 2
Capture Tries: 2

Done Capture

RTLS Device Scan

전체	전체
JH1000-001 MAC address: E5:D4:73:2	WH101
JH1000-002 MAC address: 06:4F:56:4	WH201
JH1000-003 MAC address: EA:3F:08:E1	WH202
JH1000-101 MAC address: E5:2F:7F:61:61:15	
JH1000-102 MAC address: E7:77:AB:B3:39:6C	
JH1000-103 MAC address: 88:0F:10:94:A5:E5	

Done Capture

JH1000-101

Device address	E5:2F:7F:61:61:15
Device Name	JH1000
Device ID	101
State	Connected
Role Type	Anchor
Space Name	WH101

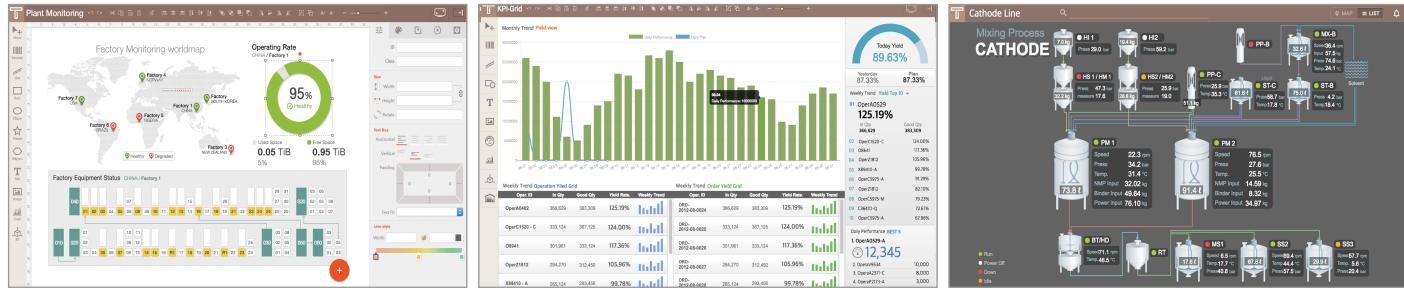


ThingsBoard

Real-time Monitoring Solution

Easy to Use, Design and Monitor Any data in Any form

Design dashboards, KPI reports, facility, work process, stock status, as well as the logistics, distribution and transport status by the standard, integrated graphic modeler to monitor in 2D, 3D and Map basis in real-time

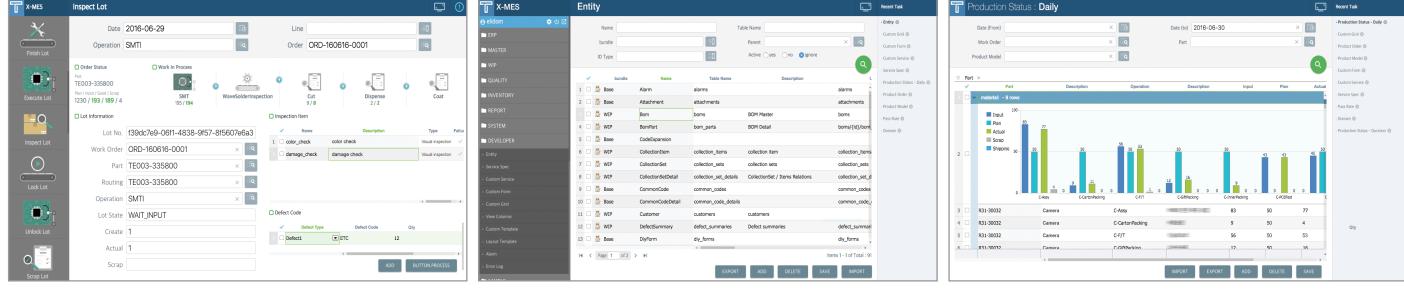


ThingsFactory

Manufacturing Execution System

A better world by Industry 4.0, manufacturing innovation.

Step out of the traditional manufacturing, and get the intelligent business services with monetizing your data by getting the real-time access and intelligent control of your entire manufacturing operation

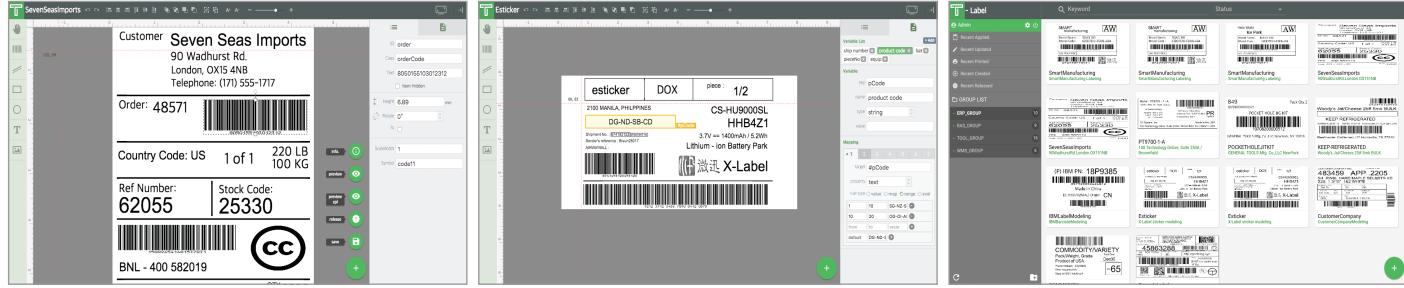


ThingsLabel

Barcode Label Management Solution

Integrated Enterprise Label Management Solution

Easy to use solution requiring no expert to design and produce bar code labels. It supports more than 80 types bar codes including Code 11, Code 30, EAN 13, QR code and features entire enterprise label management



HatioLab.

Never think, just enjoy

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