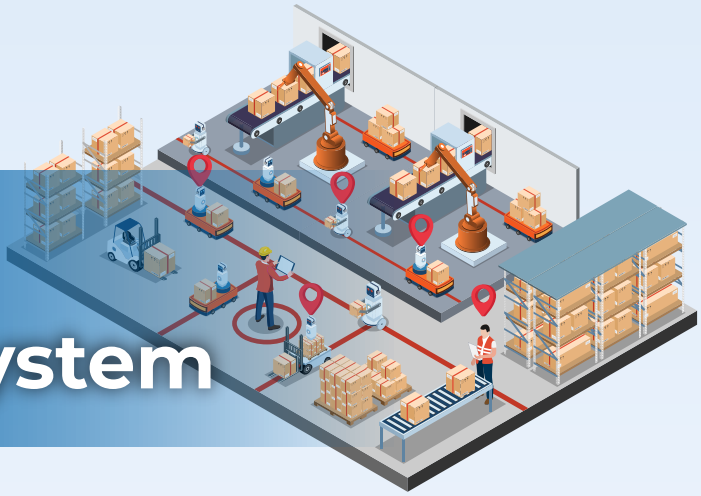
TEKSOFT

InTRAC
Indoor Tracking System



InTRAC is an advanced tracking system that accurately pinpoints locations indoors using **Ultra-Wideband (UWB) technology**. Designed for **smart industries** and **IoT applications**, it provides **real-time tracking** and **data insights** with exceptional accuracy.

The system includes **four main components**: **tracking tags, fixed sensors (anchors), gateways** to link everything together, and a **central server** to process and analyse location data. Using time-of-flight technology, InTRAC ensures highly precise positioning.

Unlike GPS, which doesn't work indoors and other tracking options such as RFID, BLE, and Wi-Fi, InTRAC offers superior accuracy of 15–20 cm, making it the optimal choice for **industrial and smart environments**.

Technology Benefits

Digital Twin for Smart Manufacturing & IoT

Enhance simulations of real-world systems by using live location data, improving analysis and decision-making for smarter and more efficient operations.

IR4.0 Catalyst

Accurate indoor positioning unlocks new and practical solutions, helping industries work smarter and more efficiently.

Features

Real-Time Location Tracking

Instantly see locations with live updates on an interactive dashboard.

Human & Asset Tracking Modes

Choose between tracking people or assets to improve workplace efficiency.

Custom Geofencing & Zones

Set up virtual boundaries for key areas, assign tasks in work zones, or designate spaces for stationary assets.

Insights & Reports

Get detailed analytics, including time spent in zones, movement patterns, and heatmaps for better decision-making.

Playback & History Review

Replay past movements to analyze trends and improve operations.

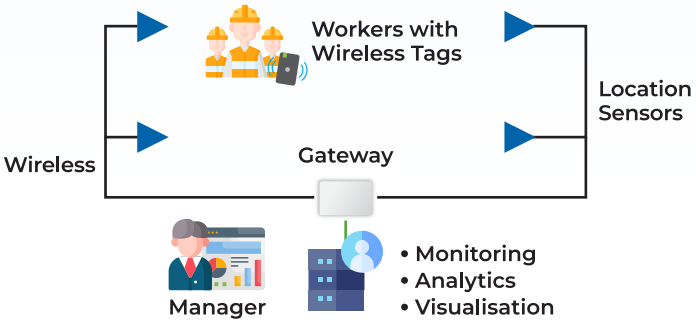
Seamless API Integration

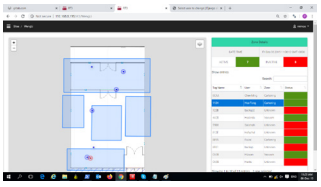
Easily connect location data with other systems for custom applications and monitoring.

Wide Spectrum of Potential Indoor Apps

- Navigation, Manufacturing, Asset Tracking, Inventory Management
- Healthcare, Smart Houses/Cities, Elderly support, Fitness apps

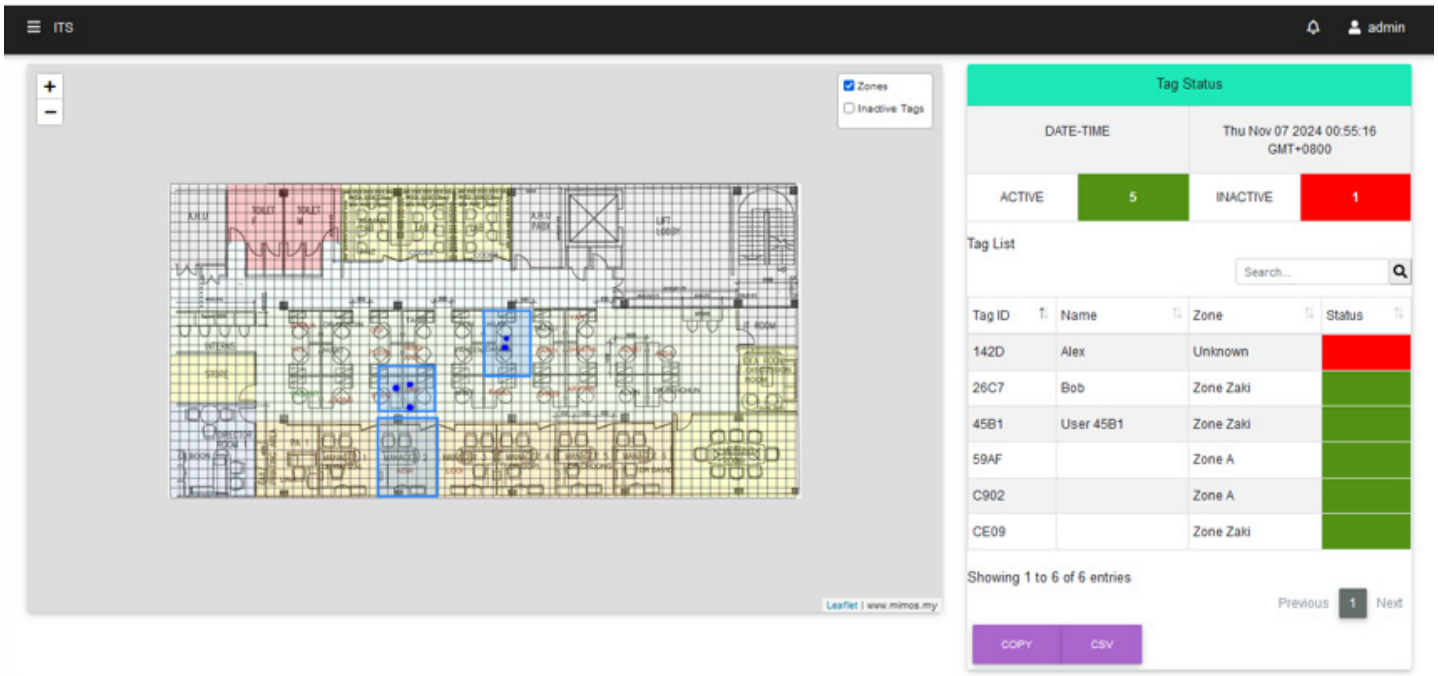
Basic Deployment of InTRAC





Sample of Tracking Dashboard

Dashboard: Current Location of Workers



Technology Comparison

OUTDOOR

GPS

OUTDOOR / INDOOR

WiFi

INDOOR

BLE





	WiFi	Bluetooth	UWB
Accuracy	5 - 15m	< 8m	< 20m
Range	150m	< 75m	< 60m
Battery Lifetime	Medium	High	Low to Medium
Frequency	2.4GHz	2.4GHz	3.1 - 10.6GHz
Applications	Retail	Retail / Office / Home	Industry (Factory / Office)

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