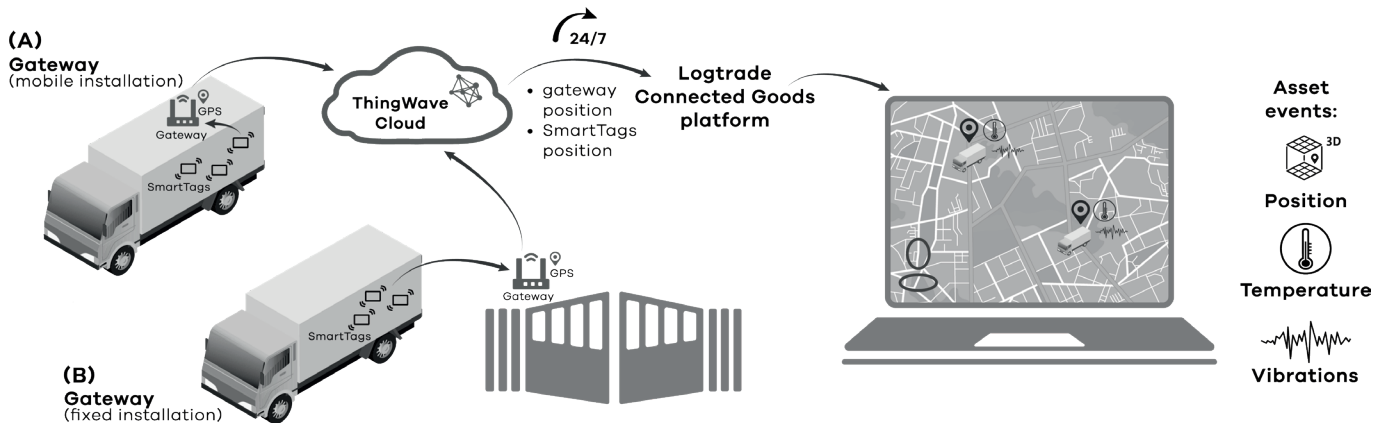# ACCELERATE
YOUR DIGITAL TRANSFORMATION
WITH THINGWAVE'S HOLISTIC IOT SOLUTION

ThingWave

Smart logistics
SmartTag

SmartTag technology is ThingWave's state-of-the-art Real Time Location System (RTLS) platform. Each SmartTag sends wireless messages continuously about its relative position to ThingWave Gateways within range. The gateways then send the position data to ThingWave Cloud for additional processing. Next step is forwarding data to Logtrade Connected Goods platform to read assets events.

SmartTag have multi-sensor capabilities and can be software configurable using profile settings. It connects to a shipment/trade unit via the Logtrade platform to communicate a profile setting to the SmartTag.

Due to the small size and low weight the system can be easy deployed and added to shipping goods, assets or equipment. When fully deployed, the ThingWave's RTLS solution enable asset tracking and both 2D and 3D positioning in real time. Additional sensors can be added to provide more information about the logistics chain.

There are four different use cases are defined:

- local food distribution to restaurants and cafes;
- local food and supply material distribution to the public sector including schools, kindergartens and hospitals;
- inbound logistics for production, including cross-dock handling and long-haul distribution in trailers;
- pharma and medical test distribution via traditional operators and drones.

Gateways require a fixed power setup and can be mounted inside a truck ((A) - mobile installation) or outside a truck ((B) - fixed instalation), for examlpe, on a fence or a gate.

Each gateway can handle thousands of SmartTags, and SmartTags can in addition to the position, also send information about their remaining lifetime, temperature and events such as impacts and falls.

Benefits:

- Keeps assets under surveillance 24/7
- Small size (70x50x17 mm)
- Weight 40 gr
- Lifetime 24-36 month on a single battery
- Mesh and UWB radio capacity
- Simple setup
- Fully integrated with Thingwave's IoT data platform
- Supports up to 1'000 SmartTags in use simultaneously
- IP 54
- 1 meter accuracy

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