



RENTY ARTEMIS

High Performance Real-time Locating
and Tracking Solution



What is ARTEMIS?

The Greek goddess Artemis had outstanding tracking skills and was respected as a powerful protector. The RENITY ARTEMIS solution offers the same **accurate tracking** and **high-precision positioning capabilities** to **protect both valuable assets** and **individuals**. Our solution combines **Ultra-wideband (UWB) radio-based communication**, **accurate floor mapping**, **TDOA** processing and **data science** computation. This unique combination makes RENITY ARTEMIS is the most **accurate** indoor **positioning technology** for real time **tracking** and **tracing analysis**.

Benefits / Features



Time Saving

90% time saving when looking for people and asset.



Accuracy Locating

30cm accuracy, The best accuracy among all locating technologies.



Cloud Based Processing

Easier, faster and flexible deployment.



Real-Time Tracking

Grasp the target movement in real-time and improve management efficiency.



RENTY
ARTEMIS



High Integrability

Integrates with MES, WMS, or ERP via API to extend the functionality.



Low Interference

Using 3.1GHz~10.6GHz RF band, no interference with other RF band below 2.4GHz.



Colossal Battery Life

Long battery life, reduced charging frequency.

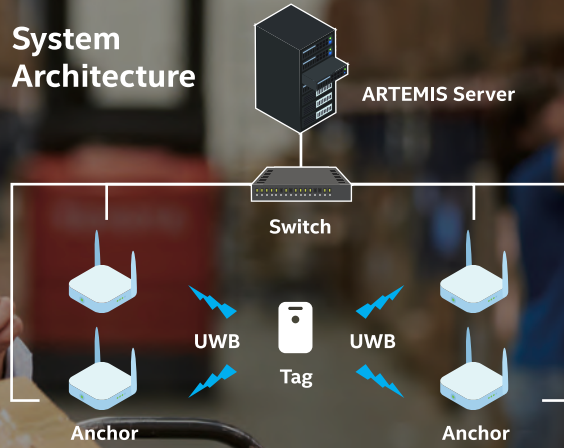


Cybersecurity

The power spectral density (PSD) is lower than natural radio wave noise. Signal difficult to intercept.

Effect

System Architecture



BEFORE

AFTER



Time wasted in finding objects.



Eliminate 90% of the time on searching.



Unable to locate an asset on the move.



Accurate positioning and real-time tracking asset.



Shortage of staff in the field.



Optimize human resource by reallocating staff in real time.



Lost inventory and theft.



Use geofencing to restrict personnel access and protect valuable assets.



Staff routes within the premises are erratic and inefficient.



Optimize the staff routes through smart tracing analysis.



The manager cannot be warned immediately when an emergency occurs.



Press the SOS button to warn the manager immediately.



The new system cannot be integrated with the existing system.



Easy integration through the API to existing MES, WMS, ERP systems and other hardware equipment.

ARTEMIS In Manufacturing

ARTEMIS integrates an UWB's low interference and high speed locating, with TDOA computation to achieve the ability to track and locate targets in real time.

Geofencing

Prevents unauthorized staff, visitors, or assets from entering restricted areas, reducing hazards, loss and theft.



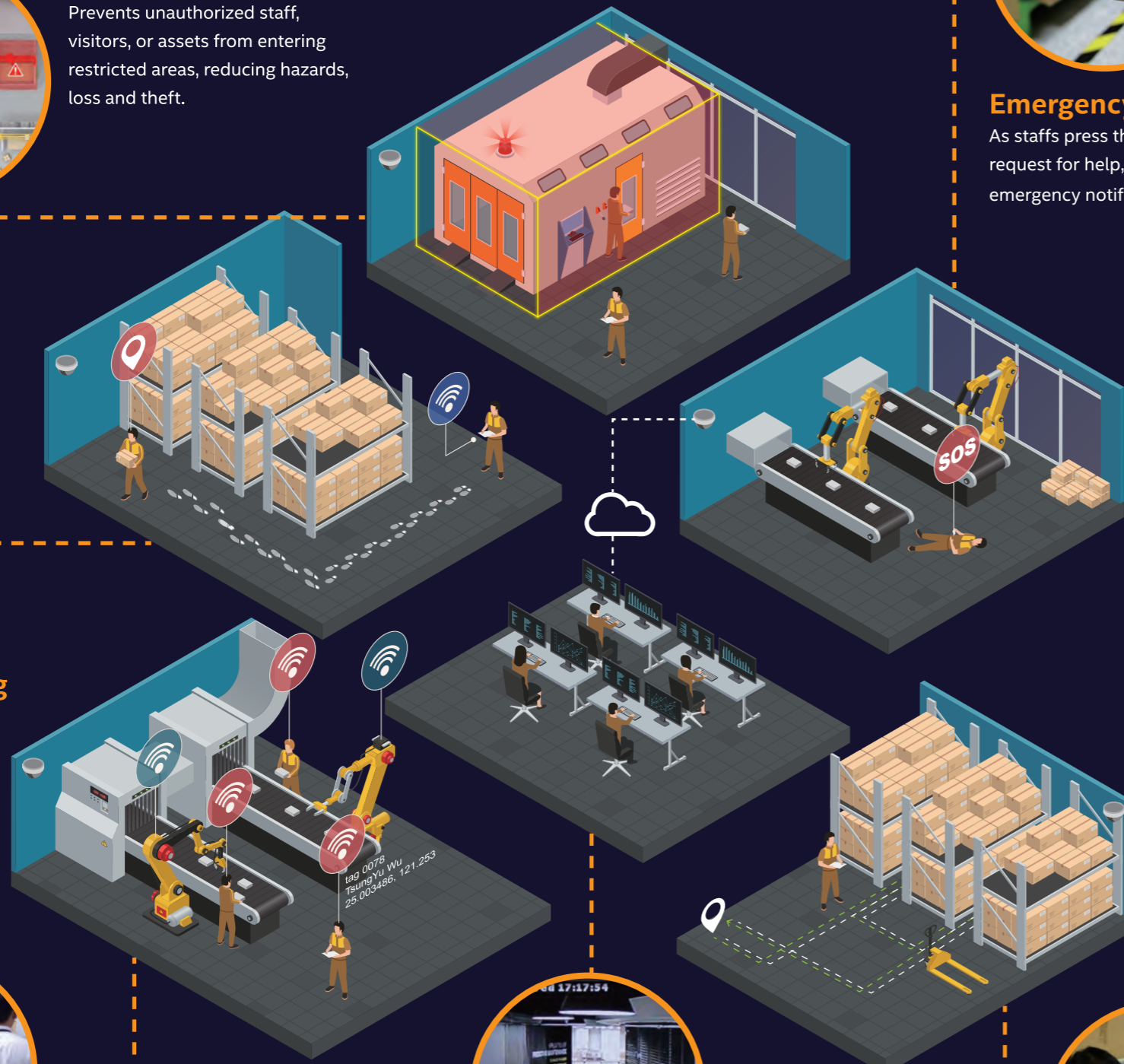
Emergency Notification

As staffs press the SOS button to request for help, the system will pop up emergency notification.



Real-time Tracking

Tracks assets and staff at all times, allowing managers to optimize resource allocation in real-time.



Accurate Positioning

Locating goods, assets and staff instantly to increase productivity and perform instant inventory.



API Integration

ARTEMIS integrates with existing software such as registration and inspection systems, as well as with other hardware such as cctv to visualize the area of interest following a geofencing or SOS alert.



Tracing Analysis

Proprietary software computing historical data and analysing asset or staff movements, to optimize paths and processes, and increase productivity.

Hardware

Server



1U Server



2U Server

Anchors



Mode A



Mode B

Tags



Wristband



Badge



Compact



Asset

The type of anchors and tags is selected according to the operating environment and to your specific needs. Also, it all have CE, FCC and NCC certifications

More Applications

Warehouse



High Capacity

Grasp the location information of more than 1000 tags simultaneously.

Petrochemical Plant



Notification

When a situation occurs, staff can press the button to notify support.

Textile



Accurate Positioning

Help managers and staffs to properly manage the trolleys and confirm each location.

Hospital / Physical Examination Center



Geofencing

Prevent patients from accidentally entering in dangerous areas.

Museum & Exhibition



Historical Trace and Hot Spot

Observing the historical path of each tag can help managers analyse hot spot and optimize routes to improve moving efficiency.



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