

Where is my stuff, and what is it doing?

WITTRA™

UNLOCKING IoT

LOCATE



Accurate
Location



Environmental
Conditions



Last Movement
Detected

MONITOR



Motion /
In Use



Zone
Location



Operating
Conditions

SENSE



Power
Consumption



Physical Status
open / close



Lighting
Conditions

TRACK



Path Travelled



Dock
Location



Vehicle /
Driver ID#



Your Solution to the Challenges in IoT

A SINGLE IOT SOLUTION FOR EVERYTHING

A WiTTRA Network solution is future-proof, eliminates vendor lock-in, and allows a customer to solve 1000's of IoT requirements with ONE single network.

A COMPLETE SOLUTION

Combining unlimited sensor data with device location data for complete Asset Monitoring in a single IoT deployment.

SUPERIOR CONNECTIVITY

Using sub-GHz radio bands, WiTTRA provides long-range and superior penetration of structures indoors, outdoors and underground.

FUTURE PROOF DESIGN

Standards-based protocols and software – upgradeable processors address future expansion and guard against technical obsolescence.

A TRULY SCALABLE NETWORK

WiTTRA provides the most efficient wide area network coverage needed for small to massive IoT deployments, delivering reliable and high volume on-site sensor and 3D location data.

Industrial & Commercial Sites
Indoor Positioning & Sensing

Large Sites
Indoor, Outdoor & Underground positioning & sensing

Smart City
Wide Area sensing

IOT LEADERSHIP

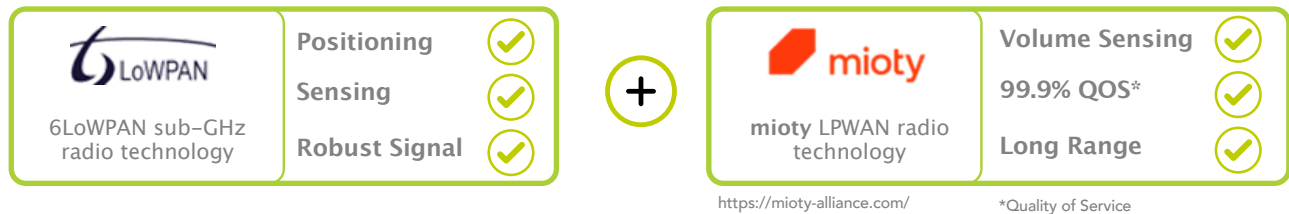
Power Efficiency				
Positioning Accuracy				
Indoor / Outdoor Coverage				
Signal Penetration				
Customer Cost				

A WiTTRA Network solution can achieve 5X to 10X lower network costs versus traditional solutions, with fewer devices, greater ranges, and lower installation costs.

The Most Comprehensive IoT Solution

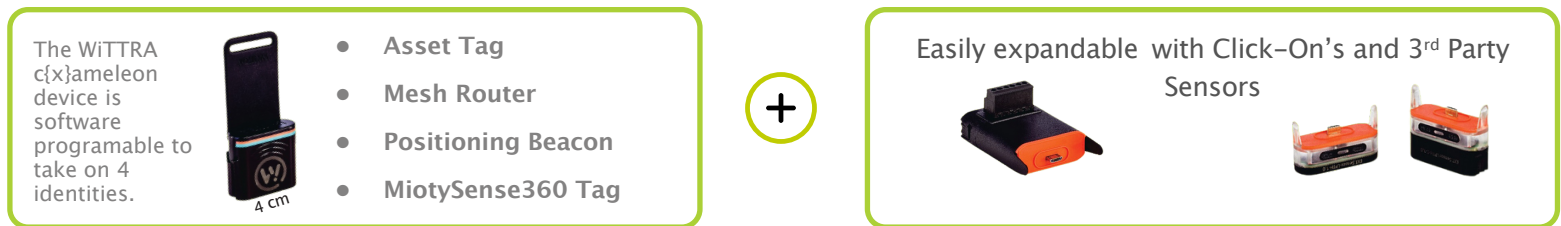
ONE UNIFIED GATEWAY

Our Unified Network combines multiple radio technologies to address the most use-cases in a single IoT Solution, and optimizes the cost/performance equation.



ONE DEVICE FOR EVERYTHING

Our Software Defined Hardware and “click-on” architecture extends product lifecycles and reduces costs with minimum hardware SKUs.



BROAD RANGE OF SENSING OPTIONS

Our open network design enables connectivity for 1000's of third party sensors – allowing you to solve most sensing and monitoring requirements in ONE IoT network.



FLEXIBLE POSITIONING ACCURACY

Select the Positioning Accuracy you require based on your use-case. This allows you to design high-position accuracy where you need it, and save costs where you don't.

+/-
0.5
meters



+/-
5.0
meters



The WiTTRA IoT Stack: A Complete Solution

Data Visualization Layer

THE INFORMATION DASHBOARD

Your digital window to monitor your assets and receive alerts and notifications.



- The WiTTRA Portal : Used to set-up, provision & manage the network.
- API : Integration with clients platform if required,
- (or) The Thellio Dashboard : An optional Integration for live monitoring, insights & notifications/alerts.

Data Hub Layer

THE GATEWAY TO THE CLOUD

The collection point from your on-site network, and communication link to data processing.

WiTTRA
Unified
Gateway



Bell
Cellular
Modem



- The WiTTRA Unified Gateway supports 10,000's of devices and M's of datapoints.
- A Bell 5G modem provides connection to a reliable cellular network.

Data Transport Layer

THE MESH IoT NETWORK

The mesh (LPWAN) network reliably collects data to locate & monitor your devices.



- Mesh Routers: Form the data relay network to the gateway.
- Positioning Beacons: Added for accurate positioning data.
- UWB click on's: Added where very precise location accuracy (<0.5m) is required.

Connected Layer

THE ASSETS TRACKED & MONITORED

Tracking & Sensing tags attached to your assets to provide secure and reliable positioning and monitoring data.



- Sense360: sensor tags allow you to track, locate and sense anything and everything you need to monitor.
- **WiTTRA Tags** have Long life batteries and are IP67 rated, and compatible with 100's of additional monitoring sensors