

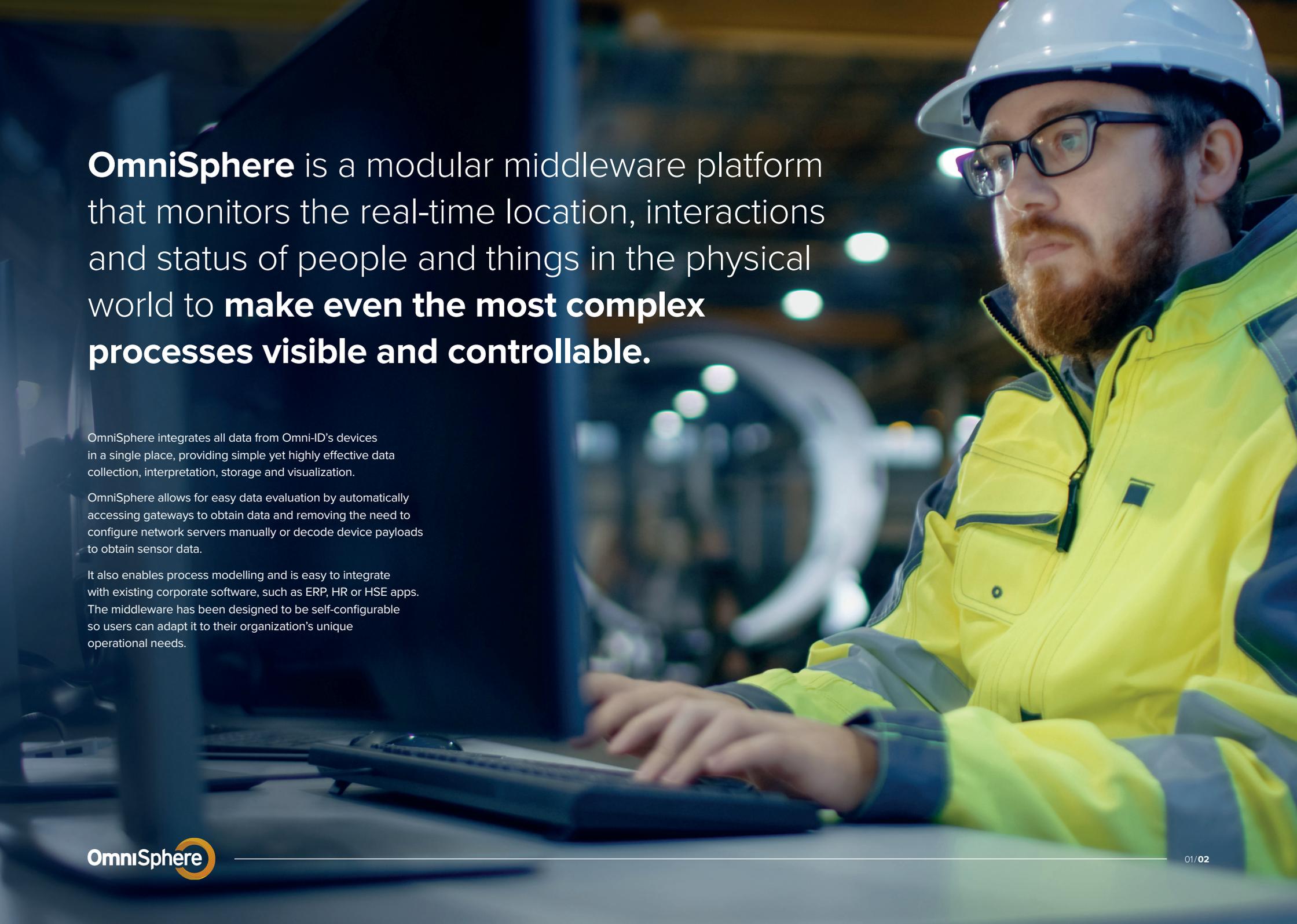


A product of:

**Omni-ID**<sup>®</sup>

Comprehensive middleware  
that allows you to easily locate,  
track and monitor assets  
or personnel.

**OmniSphere**  
IoT Middleware from Omni-ID<sup>®</sup>



**OmniSphere** is a modular middleware platform that monitors the real-time location, interactions and status of people and things in the physical world to **make even the most complex processes visible and controllable.**

OmniSphere integrates all data from Omni-ID's devices in a single place, providing simple yet highly effective data collection, interpretation, storage and visualization.

OmniSphere allows for easy data evaluation by automatically accessing gateways to obtain data and removing the need to configure network servers manually or decode device payloads to obtain sensor data.

It also enables process modelling and is easy to integrate with existing corporate software, such as ERP, HR or HSE apps. The middleware has been designed to be self-configurable so users can adapt it to their organization's unique operational needs.



# The benefits of using OmniSphere at a glance

## **Proof of Concept and feasibility studies are quick and easy**

Customers and channel partners can vastly reduce the time taken from solution validation to full production.

## **Device Management at the right scale to suit the customer's operations**

OmniSphere can be fully configured through the mobile app and web-based user interface to cost effectively monitor and manage a fleet of devices of a specific size.

## **Flexibility to 'Custom-Build' your own tailored application**

Partners and customers can implement unique vertical business applications. The platform is fully configured to new data standards whether you are dealing with APIs for to application developers, smart consumer data or raw data from devices.

## **Synchronization with other corporate systems**

OmniSphere's backend API directly connects to your ERP, WMS, MES, GIS or other business & operations systems to update them in real-time about what is actually happening in your process.

## **Unified point of contact for customers and channel partners**

OmniSphere directly connects users with Omni-ID, for ticket management, license billing, documentation and integrated technical support.

## **Fast & easy solution implementation from a ready-made application**

The built-in user application informs you in real-time if processes are off plan or assets are misplaced. This reduces errors and eliminates wasted search time.

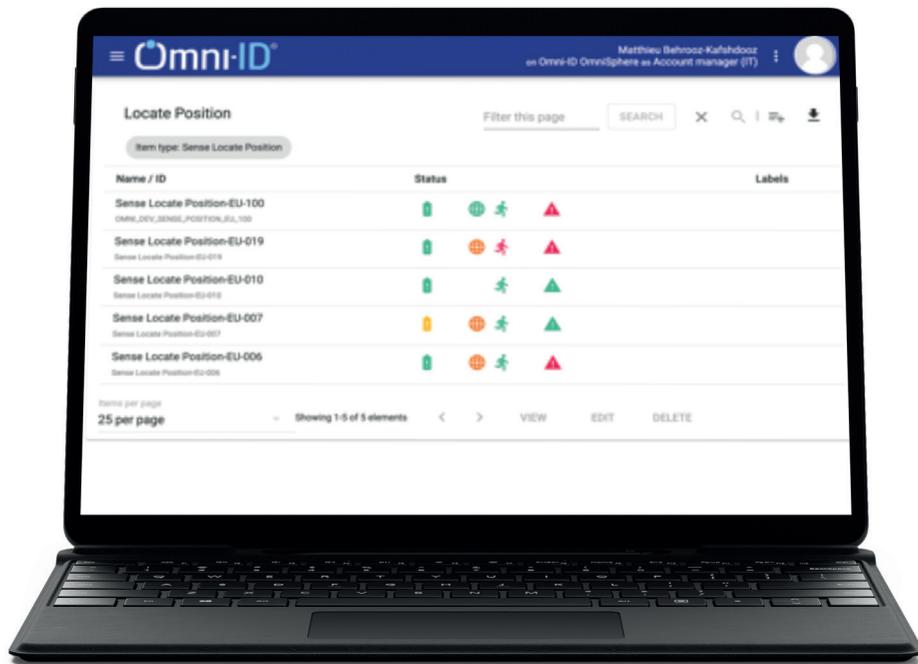


Figure 1

OmniSphere has a range of dashboards displaying sensor data from motion alarm, temperature, range measurement and push button alerts.

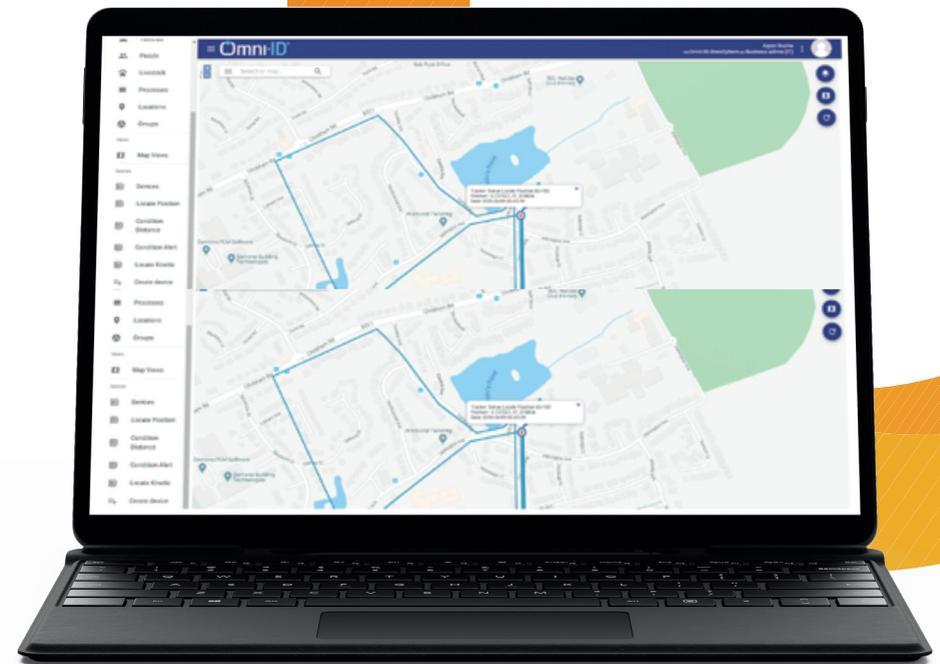


Figure 2

Current and previous positions of devices can be reviewed on a configurable using GNSS coordinates.

Figure 1 shows Sense Locate Position status dashboard provides simple view displaying device battery voltage, GNSS Fix, Motion alarm and temperature Alarm data.

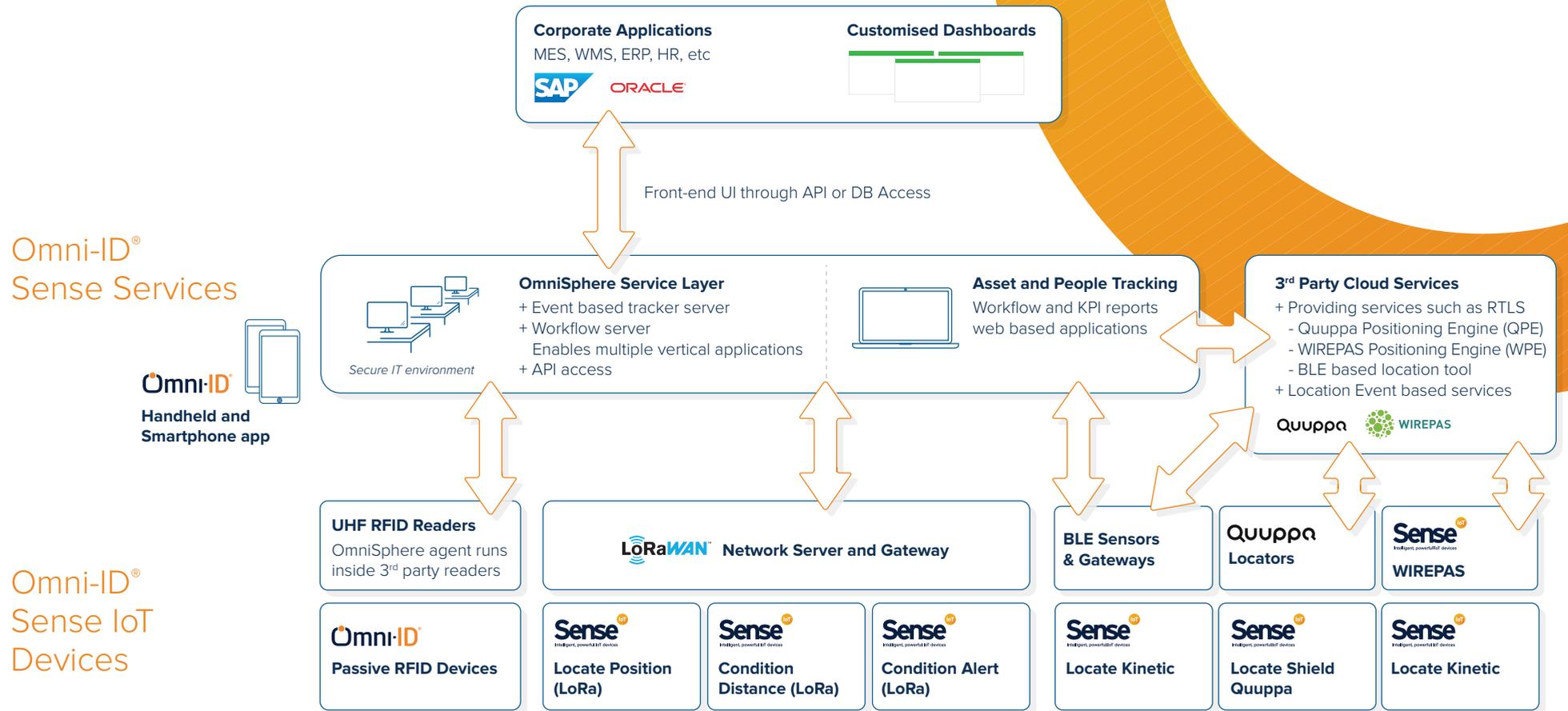
OmniSphere's rule engine includes basic features such as generating alerts based on sensor data such as alerting via email when a device enters or leaves a Geofence or

notification that a device is reporting that the measured temperature is out of a pre-configured threshold.

Figure 2 shows Sense Locate Position, breadcrumb map showing current and historic location of the device.

OmniSphere allows for simple and quick evaluation of Omni-ID Sense products, simplifying technology evaluations and enabling 'proof of concept'.

OmniSphere provides the perfect middle 'service' layer between Omni-ID Sense IoT devices and your corporate applications



# The 5 principles of OmniSphere

OmniSphere integrates the major tracking and positioning technologies utilised by Sense devices - GPS, LoRa, BLE and RFID.



Track & Trace	Processes	Device Compatibility	Self-managed	Easy integration
<p>Comprehensive tracking</p> <ul style="list-style-type: none"> <li>Traceability events - what, where, when, how</li> <li>Logging and processing data about the movements/status of 'things' and moving people</li> <li>Events, KPI, Reports</li> <li>Server-based algorithms, ML, AI</li> </ul>	<p>Flexible tool that enables multiple use cases</p> <ul style="list-style-type: none"> <li>Basic process-oriented functionality</li> <li>Tasks, KPIs and reports</li> <li>Multi-tenant application</li> <li>Full access control (organizations, users, profiles)</li> </ul>	<p>Agnostic to any tags, trackers or IoT sensors</p> <ul style="list-style-type: none"> <li>Plug &amp; play of devices and sensors from multiple vendors</li> <li>Supports RFID, NFC, bar codes, QR, precise positioning with RTLS, smartphones, GPS trackers and IoT devices over LoRa, BLE Sigfox and 3G networks</li> </ul>	<p>Customer can self-configure and provision</p> <ul style="list-style-type: none"> <li>Basic process-oriented functionality</li> <li>Tasks, KPIs and reports</li> <li>Multi-tenant application</li> <li>Full access control (organisations, users, profiles)</li> </ul>	<p>Powerful API with ERP and business applications</p> <ul style="list-style-type: none"> <li>Partners or customers can integrate OmniSphere data into their own business tools like ERP, WMS, MES</li> <li>Available options:                             <ul style="list-style-type: none"> <li>Intermediate exchange tables for back-end systems (XML and JSON)</li> <li>REST/JSON and websockets for web-based applications</li> <li>MQTT</li> </ul> </li> </ul>



## Omni-ID's suite of IoT devices come in a variety of technology types and with a range of sensor options.

Combine this with the flexibility and power of the OmniSphere platform and there are a huge number of use cases ready to be tracked and monitored including:

- Tool Tracking
- Worker Safety and Productivity
- Warehousing and Yard Management
- Workflow Monitoring
- Industrial Assets
- Inventory Management
- Personnel Tracking and Monitoring
- Operations Management

OmniSphere is a key element in the Sense Technology Evaluation Kits. These kits are available in a BLE version and a LoRaWAN version and come with two-months' access to OmniSphere Lite\* and pre-configured for the devices supplied with the demo kit. All that is required is to plug in the gateway to a network switch to provide an internet connection.

The gateway will then automatically push the device data it receives to OmniSphere where data is interpreted, stored and displayed on a user-friendly graphical user interface. Speak to your Omni-ID sales representative to discuss the benefits of OmniSphere and to order one of the evaluation kits.



\*OmniSphere Lite is the Demo version of OmniSphere that allows for testing and POC's

# About Omni-ID

Omni-ID have always led the way in pushing the boundaries of passive RFID tag technology and are now complementing those core products with robust, high performance devices that link to the Internet of Things.

Omni-ID is driving tracking and connectivity in manufacturing and industry with tags and devices that enable business critical processes.

We establish reliable, connected environments where end-to-end asset management, in process visibility and real-time control, right down to the individual asset level is now a cost effective reality.



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