

REAL WORLD IoT

ENHANCED INSIGHT

COST REDUCTION

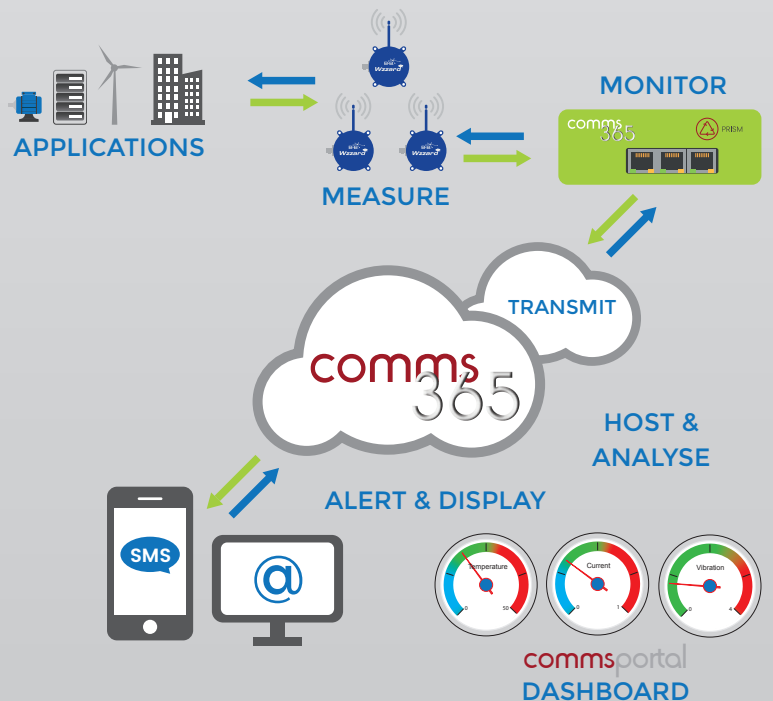
RISK MITIGATION

WHAT IS IoT?

The Internet of Things (IoT) is a revolution in IT infrastructure connecting physical devices that relay valuable data back to other devices (machine to machine), cloud-based applications, and ultimately to decision makers.

A 'Real World' IoT solution is end-to-end, including sensors, intelligent gateways, network backhaul, application development, analytics, enhanced dashboards, alerting and professional services. These solutions deliver successful business outcomes, including operational efficiency and revenue generation.

Sectors that are already benefiting from IoT solutions include manufacturing, healthcare, energy management, transportation, agriculture, Smart Design Cities, and many others.



Why choose Comms365 for Real World IoT Solutions?

We are a new generation IoT service providers, tailoring bespoke solutions to customer requirements.

Our internal team, complimented by an ecosystem of high technology partnerships, are expert in the design, deployment and support of IoT solutions for diverse vertical markets.

Comms365's high capacity core network, privately interconnected to UK and International Mobile and Fixed Line Carriers, is purpose built for supporting large scale IoT sensor data deployments within a highly secure environment.

Our innovation and results-driven focus has helped us to build up long-term relationships with our technology partners and customers.

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IoT SOLUTIONS BENEFIT PHYSICAL OPERATIONS OF BUSINESS ASSETS AND ENVIRONMENTAL CONDITIONS.

EXAMPLES OF THIS ARE:

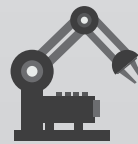
- **Condition Based Monitoring** – delivering predictive maintenance for machine assets
- **Connected Vehicle** – Telematics and driver behaviour monitoring for cost savings
- **Smart Office** – building management for efficient use of resources
- **Energy and Water Usage** – facilitating efficient maintenance and minimising wastage
- **Datacentre Monitoring** – performance parameters and security of IT assets
- **Agriculture** – measure soil acidity and humidity within agricultural systems for improved crop output
- **Smart City** – traffic flow direction and air quality monitoring, enhancing and extending life

APPLICATIONS



DATACENTRE MONITORING

A wireless mesh system communicates directly with rack-mounted temperature and current sensors that can track ambient temperatures throughout the data centre and help controller software manage the cooling equipment efficiently and cost-effectively. Security sensors raise the alarm if cage doors are opened during an unauthorised period.



CONDITION BASED MONITORING

A Condition Based Monitoring solution is implemented to eliminate unplanned downtime and reducing operations cost by predicting when the vital components of any machine need to be replaced or serviced. Key parameters such as temperature, vibration, current, fluid levels, flow, leaks and pressure are collected and analysed for trends predicting when a problem will occur.



CONNECTED VEHICLE

The solution provides real-time information on vehicle mileage, diagnostics trouble codes, driver behaviour, vehicle location, fuel and oil levels, tyre pressure, battery status and seat belt engagement. Customers can now improve the overall business performance of vehicle fleets and drivers. Cost savings are made by monitoring vehicle diagnostic trouble codes and driver behaviour to reduce fuel spend, mileage reporting, overtime claims, vehicle maintenance and repair costs, with the aim of ultimately reducing accidents and insurance premiums.



SMART OFFICE

Deploying connected sensors throughout the building affords facilities managers access to monitoring and control over proximity services, temperature and air environmental conditions, security and access, lighting, refreshments, media and display systems. Cost savings and employee satisfaction is achieved through more efficient use of resources.

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