Future-Proof: Scalable and IoT-Ready

WISX IoT Platform deployed for Smart Lift Monitoring is a highly adaptable and scalable unified platform. It easily integrates with other modules or applications and serves as an important platform for cities aspiring to transform by offering enhanced value beyond lift management. The interconnected WISX IoT-ready infrastructure can be deployed as a shared network for various smart connected sensors and devices to deliver other city services (such as noise level and CCTV monitoring) and functionalities for various industry verticals (such as public safety and security, intelligent transport, etc.) to benefit its residents.

WISX IoT Suite of Solutions and Products

WISX IoT solutions help smart cities to manage multiple city services on a common platform. The platform leverages best of breed technologies and standards to facilitate data exchange and analytics as well as generate greater insights for predictive actions to be taken to improve efficiency of city services and operations.

Some of our WISX IoT solutions include

- WISX Smart Street Lighting
- WISX Smart Indoor Lighting
- WISX Smart Energy Resource Management
- WISX Smart Water Resource Management
- WISX Smart Environment Monitoring
- WISX Smart Waste Management
- WISX Smart Lift Monitoring

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Global Track Record

We have a proven track record in deploying more than 15 million wireless sensors and smart solutions that power and transform cities worldwide. Our solutions help to improve street light management, city planning and operational efficiency, resulting in energy savings essential for sustainable and liveable smart cities. Our global footprint covers various countries such as the UK, the US, Canada, France, New Zealand, Brazil and India.

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With the advent of smart technologies and Internet of Things (IoT), lift performance can be closely monitored to provide preventive and predictive maintenance, enhancing safety and delivering peace of mind to residents in cities worldwide.

**WISX Smart Lift Monitoring**

The WISX Smart Lift Monitoring System provides an ideal end-to-end smart city solution on a single platform to enable remote monitoring of every aspect of lift operations. Utilising a non-intrusive approach, the system is versatile and can work with any lift brands and models to incorporate various sensors. It measures the key performance parameters of lifts and escalators for real-time status reporting and to reduce potential lift breakdowns and incidents. The collected data can be analysed to develop preventive and predictive maintenance regimes to enhance equipment reliability and provide valuable feedback for lift enhancements.

**Key Highlights**
- **Unified and Versatile**
  - Supports multiple wireless communications networks on an integrated IoT platform (e.g. LoRaWan and NB-IoT)
  - Provides universal Sensor Interface Units (SIU) that are compatible with many third party sensors
  - Option to select either cloud-based or on-premise infrastructure to suit operational requirement
- **Enhances Operational Efficiency**
  - Provides real-time status of sensor performance
  - Real-time monitoring and alert system for different aspects of lift operation
  - Remote access to sensor performance through intuitive application
- **Optimises Maintenance and Resource Management**
  - Automatic fault alert and notification to maintenance team
  - Preventive and predictive maintenance
- **Enhances Security**
  - Secure and robust end-to-end data encryption
- **Future-Proof and Scalable**
  - Supports future add-ons of sensors and smart city services and applications for various industry verticals (e.g. smart street lighting, utilities monitoring, environment monitoring, public safety and security)

**Features**
- Informative dashboard view with real-time monitoring and alert notification
- Secure AES 128 or 256 data encryption
- Future-proof wireless solution to provide for scalability

**Benefits**
- Users can access the system anytime and anywhere
- Users can deploy any communications network to meet their operational needs
- Prevents unauthorised interruption during operation
- Minimal infrastructure cost for future add-ons
- Users and operators need to familiarise with only a single platform to manage multiple IoT applications
- Improves lift safety and reliability by using predictive analytics and pre-emptive lift maintenance
- Provides informed lift purchase decision based on historical data
- Reduces inventory holding cost and improves inventory planning by accurately predicting the type and quantity of spare parts to be purchased over different periods of time

**Key Components**
- **Software**
  - WISX IoT Platform
  - WISX Lift Monitoring Application
- **Hardware**
  - Sensor
  - Sensor Interface Unit (SIU)
- **Network**
  - Cellular
  - Ethernet
- **Data Analytics**
  - Network Switch
  - Gateway
  - Wireless Sensor Network
- **Application**
  - WISX Lift Monitoring Application

Different types of sensors are attached to the Sensor Interface Units (SIU) to enable the transmission of data by using various communications networks. The data is then routed through the WISX Gateway and the Internet (via Cellular or Ethernet) to the WISX IoT Platform. The WISX IoT Platform then organises the data for extraction by the WISX Lift Monitoring Application.