

Real-Time Monitoring Solutions with Smooth Connectivity for Nordic Construction

Smooth Network Connectivity for Outdoor Events

Location: Denmark, Sweden, Norway and Germany

Milesight Partner

Godik ApS

Location

Denmark, Sweden, Norway and Germany

Numbers of Devices Deployed

About 250 milesight devices (UR32, UR35 and UF31)

Applications

Construction site monitoring

Background

The event rental and industrial rental sectors in the Nordic region face communication and monitoring challenges in complex environments. In scenarios such as construction sites and temporary event venues, traditional network infrastructure often fails to meet the requirements. Milesight, in collaboration with our partner Godik ApS, has deployed approximately 250 routers in Denmark, Sweden, Norway, and Germany to provide customized solutions for these unique situations, guaranteeing smooth connectivity outdoors. The project aims to enhance on-site management efficiency and safety through intelligent monitoring and stable communication.



Challenges



Surveillance Tower Requirements

- **Power delivery:** Needed to support 4 PoE cameras on a 9-meter tower without existing power infrastructure
- **Location tracking:** Required precise GPS positioning ($\pm 2m$ accuracy) in challenging environments.



Mobile Surveillance Camera Needs

- **Power constraints:** Required reliable PoE supply for cameras in temporary locations
- **Positioning reliability:** Needed continuous GPS tracking despite frequent relocation



System Integration Challenge

- **Unified management:** Required coordination of PoE power, GPS, and 5G across all three device types
- **Interoperability:** Needed seamless communication between towers, cameras and luggage boxes

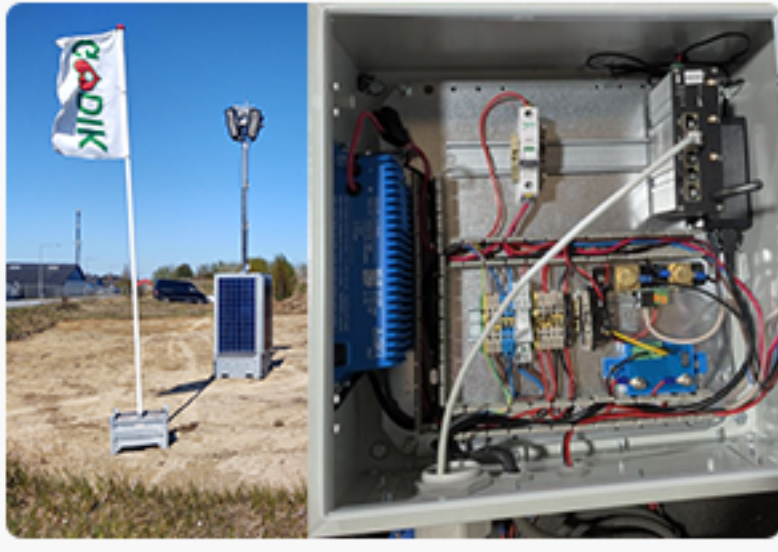
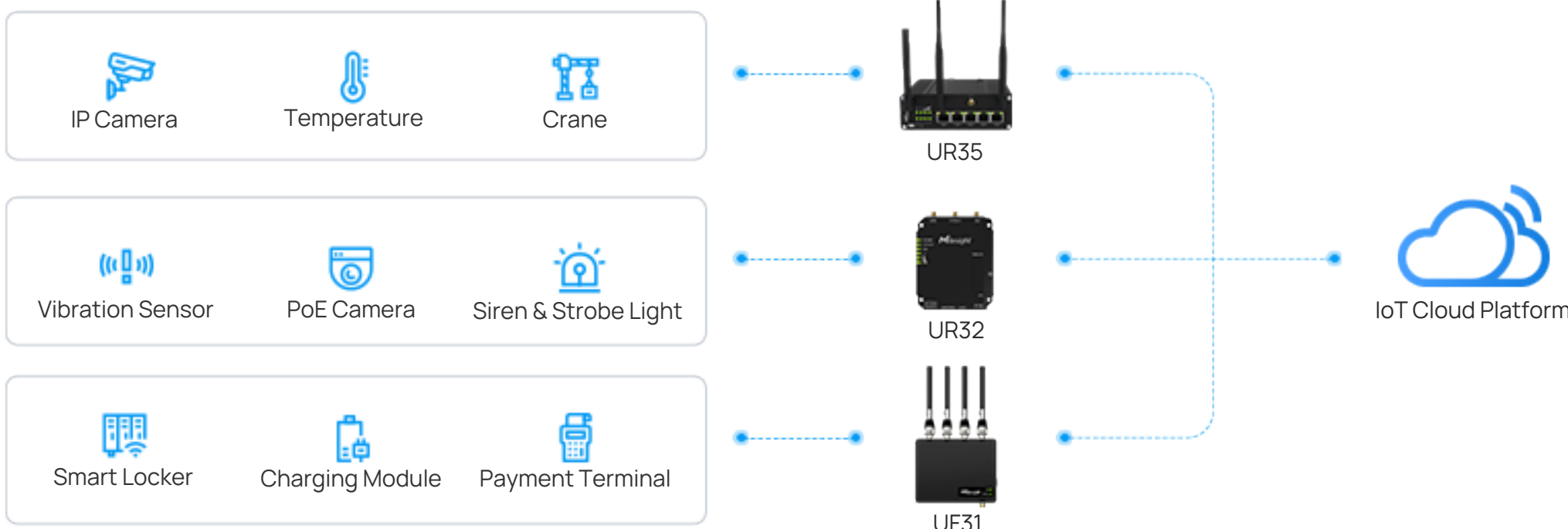


Luggage Box Connectivity

- **Network stability:** Demanded uninterrupted 5G connection in crowded temporary venues
- **Signal integrity:** Required external combo antennas to overcome interference
- **Dual tracking:** Needed simultaneous GPS tracking of both the box and connected devices

Solution

Milesight router products deliver tailored solutions for dynamic industrial and event environments, combining rugged hardware with intelligent connectivity to address critical operational challenges. Below are the key scenarios and integrated product applications:



Large-Scale Construction Site Monitoring & Safety Management

In large construction sites where heavy machinery theft, surveillance blind spots, and harsh weather disruptions are major concerns, the Surveillance Tower which adopts UR35 pro series industrial router stands as an indispensable solution. The surveillance tower, rising 9 meters tall, supports four PoE cameras with night vision and motion detection, offering 360° real-time oversight crucial for monitoring excavators, material storage, and worker zones. With UR35, it is now workable for the manager to integrate GPS tracking, enhancing security by monitoring crane locations and triggering geofence alerts for unauthorized movements. Designed to endure extreme temperatures from -40°C to $+70^{\circ}\text{C}$, the UR35 ensures uninterrupted video streaming even in adverse weather. The surveillance tower also equipped with built-in loudspeaker broadcasts safety warnings based on AI-detected violations, while encrypted footage is transmitted via 4G routers to cloud platforms, enabling remote site inspections through VPN. The UR35 effectively addresses the core challenges of construction site security, providing robust and reliable surveillance.

Temporary Warehouse Theft Prevention

To address the issues of theft and unauthorized access in temporary warehouses and storage facilities, the mobile surveillance system built around the Milesight industrial cellular router UR32 offers a comprehensive security solution. This system integrates the UR32 router with GPS functionality, PoE cameras, speakers, and flashing alarms, playing a crucial role in temporary storage scenarios. It achieves rapid deployment within seconds through magnetic mounting and flexible power supply, meeting the needs of frequently changing sites. High-precision vibration sensors combined with AI intelligent analysis can accurately identify unauthorized intrusion behaviors and link with the audio-visual alarm system for immediate deterrence, while automatically triggering video recording for evidence. The 4G network ensures the reliability of remote real-time monitoring, enabling continuous operation even during power outages. This solution provides a flexible deployment, rapid response, and stable operation intelligent security system for temporary storage through multiple protection mechanisms such as GPS asset tracking, PoE power monitoring, and audio-visual alarm linkage.



Smart Luggage Storage and Charging

The Milesight 5G Dongle UF31 router intelligent storage and charging system directly tackles the pain points of managing large events, providing a comprehensive "storage + charging + connectivity" solution for temporary high-traffic scenarios. Addressing core issues such as unstable networks, difficult device management, and diverse user needs at event venues, the UF31 system integrates a 5G router (with GPS), smart lockers, and mobile power modules to offer a one-stop solution: 72 military-grade anti-theft lockers mitigate the risk of lost items, 64 mobile power slots alleviate concerns about electronic device battery life, and the UF31 router's 5G and dual-band Wi-Fi dual channels ensure absolute stability for electronic payments and data transmission.

The system features a pre-installed container design, enabling deployment within 2 hours. The GPS functionality allows organizers to keep track of equipment distribution at all times, while the remote management platform enables a "one backend controls all" approach. Particularly effective for temporary large-scale events, the UF31 system, with its "plug-and-play" convenience and "financial-grade" security standards (GDPR compliant), thoroughly resolves the three major issues of slow deployment, network lag, and chaotic management associated with traditional event service facilities. This allows organizers to focus on event operations and participants to enjoy a worry-free experience.

Results

Construction Site Safety Monitoring Solution

The deployment of the Milesight UR35 pro series industrial router monitoring tower system on construction sites in Northern Europe has effectively curbed the issue of illegal equipment movement through geofencing alerts and real-time tracking features. The system's AI-powered cameras proactively identify safety hazards, and the accompanying voice warning functionality significantly enhances site safety management, creating a safer working environment for workers.

Rapid Response Security Solution for Temporary Storage

Addressing the security needs of temporary warehouses, the Milesight Industrial Cellular Router UR32 mobile monitoring system demonstrates exceptional responsiveness. Its quick deployment feature allows installation to be completed within 30 minutes. With real-time encrypted video transmission and intelligent intrusion detection, the system ensures continuous security protection even in environments with unstable power supply, effectively reducing the risk of theft of stored materials.

Intelligent Service System for Large Events

The Milesight 5G Dongle UF31 router intelligent storage system provides an integrated service solution for high-traffic locations such as airports and train stations. The system combines 5G high-speed network, smart lockers, and mobile charging services, all managed through a remote management platform that enables real-time monitoring of device status. The anti-tamper design and asset tracking features significantly reduce the incidence of equipment loss while optimizing operational maintenance efficiency.

Why Choose Milesight



Milesight's products stand out with significant advantages. Milesight not only offers 4G routers with PoE and GPS functionality but also excels in industrial-grade durability. Their Milesight Router equipment is designed to operate reliably in extreme environments, ensuring stable performance under harsh conditions. Compared to similar products, Milesight not only offers more competitive pricing but also excels in performance, providing excellent value for money. All the project owners have been satisfied with the Milesight products.



Partner

GODIK

Godik is a Denmark-based specialist in high-quality rental solutions for the event and construction industries, providing toilet wagons, sleeper wagons, and other mobile units designed for convenience and efficiency. What sets us apart is our integration of smart IoT technology into our fleet, enabling real-time monitoring, enhanced functionality, and improved user experiences. By combining robust, practical designs with cutting-edge connectivity, we ensure our customers benefit from reliable, intelligent, and data-driven rental solutions—whether for temporary events or long-term construction projects.

The company today consists of 3 Danish departments with headquarters in Brøvst (North Jutland), and departments in Ejby (Funen) and Hedehusene (Zealand). Godik today has 4 foreign departments: 2 in Sweden, 1 in Norway, and 1 in Germany.