IoT-Enable Remote Gas Detection and Monitoring Services

Flexible and secure 3G/4G LTE Wireless connectivity in your Gas solution

Navigateworx provides the best industrial networking solution for different environments. NR500 Series offer seamless LTE communication for the management center to collect and analyze statistical data. It is perfect for our entire business system
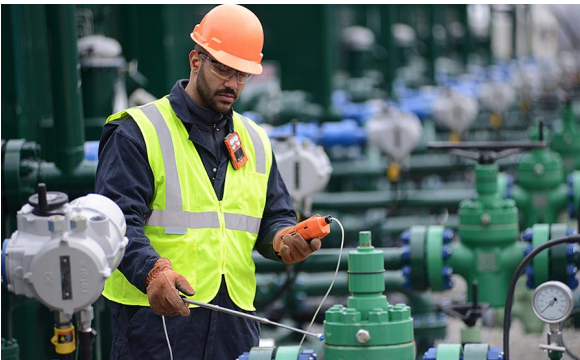
Mr. Mohan

Summary

Huge companies have big demand for distributed natural gas stations monitoring and improving automatic management to save lots money on maintenance. A company cooperated with Navigateworx has hundreds of distributed natural gas regulation stations need to be. In order to offer better service for fast residential growth and improve system management, they planned to deploy a state-of-the-art monitoring system across vast stretches of both urban and rural areas. After internal investigation and discussions, cellular network is much more suitable for their long-term need. Finally, Navigateworx LTE VPN router play an importance role for the project.

Customer Needs

Great Communication

Clear communication between workers is of utmost importance, especially during a workplace incident.

Less Loss

IoT technology can help improve communication between remote staff and instruments and can save businesses money while improving the safety of rig worker.

Great Supervision

Not only can they bring up protocols, they can record what they are seeing and transmit that data to an office-based colleague, which lowers travel costs for remote supervisors.

Moving toward continuous monitoring

Navigateworx LTE VPN router provide a stable network connection and a variety of sensors, as well as communications, are enabling a move to continuous monitoring for the applications. This entails in-situ sensors combined with local processing and communications for logging, processing, storing, and communicating data to Monitoring Data Center.

Solutions

The NR500 router would be used to access serial (RS-485) data on the distributed RTUs from a control center, which has an advanced network management system and could also retrieve data over RS232 at the same time. In this instance, NR500 was a very suitable model since it can communicate with an RTU over RS485 and also retrieve data over RS232.

Benefits

Real Time Connectivity

Wireless data transmission equipment has the characteristics of real time online, no time delay, and the data of multiple monitoring points can be received and processed simultaneously without the need of wheel inspection. It can be very good to meet the requirements of real-time data acquisition and transmission system.

High EMC level

Compliant to EMC standard IEC61000-4 at level 3, it makes the router immune to harsh electromagnetic environments

Stable Communications

NR500 router is designed for solid performance in harsh environmental conditions and extreme temperatures. And it also provides always on and always-aware connectivity required for critical mobile data applications.

Good Scalability

Due to the current public network has covered in most areas, there is no blind area, can realize online monitoring a wide range of related information collection and transmission system to meet the coverage requirements.

Reliable Connection

NR500 LET VPN Router build in watch dog and keepalive policy run inside. The multiple links back to make sure the connection between platform and station is always online. Ensure the normal operation of the entire business system.

About NavigateWorx

NavigateWorx Technologies provides Products, Services, Solutions and Support to the emerging Machine-to-Machine Industry. Our goal is to assist in your efforts to bring Industrial Projects to life, implement Wireline & Wireless Technology Solutions in your Business to simply keep your Devices, Employees and Business connected. That is NavigateWorx.