

Optimizing Offshore Oil & Gas with Reliable Connectivity



The Challenge

Offshore oil and gas operators need **constant and reliable means of communication** among crew members, as well as with onshore teams and managers, to ensure the safety and efficiency of their operations.

Communicating and sharing data in real time is challenging in offshore operations such as oil rigs, where wireless networks or Wi-Fi is extremely limited. These operations also contain hazardous areas where electronic devices are restricted due to the risk of explosion.

The Solution

Tampnet's high-capacity, low-latency 4G LTE wireless network enables intrinsically safe mobile devices, such as the **aegex10™ Intrinsically Safe Tablet**, to connect personnel to the cloud for real-time communications, data collection and information management in offshore operations.

Tampnet 4G LTE

Tampnet operates the world's largest offshore high capacity communication network, serving more than 350 oil and gas platforms, FPSOs (floating production storage and offloading vessels) and exploration/drilling rigs in the North Sea and Gulf of Mexico.

Tampnet 4G LTE requires very little equipment and reduces round-trip delay (RTD) time by approximately 95% (20-35ms).

Tampnet solutions include:

-  **Bandwidth** fleet sharing
-  **Symmetrical** and guaranteed/non-contended bandwidth of up to 50-60Mb/s, depending on distance to base stations
-  **Unlimited download/upload**
-  **Virtual private LTE network** configuration for each client or use case
-  **High capacity**, low latency, high reliability connectivity

aegex10 Intrinsically Safe Tablet



The Windows-based aegex10 Intrinsically Safe Tablet is certified for use in ATEX/IECEX Zone 1 and Class I Division 1 hazardous areas of industrial operations where combustible materials are present, including drilling platforms.

- ✓ **Intrinsically Safe C1D1, ATEX/IECEX Zone 1**
- ✓ **4G LTE, WiFi**
- ✓ **IP65**
- ✓ **Bluetooth, NFC, GPS**
- ✓ **-10°C to +50°C**
- ✓ **12-hour battery**
- ✓ **980g / 2.16lbs**
- ✓ **Optional hands-free carrying case, stylus**
- ✓ **IoT ready**

The Results

Offshore personnel using aegex10 tablets that are cloud-connected via Tampnet's 4G LTE network can safely communicate and share information in real time, even from remote locations.

The combined solution results in:

- ✓ **Reliable real-time communications among offshore crews**
- ✓ **Accurate, low-cost operations monitoring**
- ✓ **Increased operational awareness for mitigating risk and preventing failures**
- ✓ **Optimization of offshore operations for improved safety and productivity**



[Learn more](#) about how Aegex intrinsically safe solutions and Tampnet connectivity can enhance offshore oil and gas operations.



Aegex delivers innovative solutions that drive improved performance for industries with hazardous environments. Our globally certified intrinsically safe tablet provides cloud connectivity to personnel working in some of the world's most volatile environments in public safety, oil and gas, chemical, pharmaceutical and other industries with potentially explosive atmospheres. The tablet can work in conjunction with our NexVu IoT Solution of sensor modules and cloud services to form an Industrial Internet of Things (IIoT) that improves safety, efficiency and productivity in hazardous operations.



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Tampnet's vision is to become a global leader in providing high capacity, low latency and reliable connectivity to offshore installations, mobile rigs and vessels.

Tampnet's mission is to add value to our customers through connecting offshore assets to robust and reliable terrestrial network with high capacity and low latency. Our services shall enable our customers to improve on quality, health, safety, efficiency and welfare in their offshore operations.



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