

Connectivity for complex offshore and land energy activities





New Standards for Connectivity

It is clear to all that the Offshore and Energy sectors have unique connectivity requirements for safety and efficiency, and that staying connected can be a challenge. At AST, we understand that providing reliable high-performance connectivity is one of the keys to safe and successful operations in these environments, and the importance to supply faster network connections.

We are not only OneWeb's first and most experienced maritime partner, we have 30 years' experience providing support for offshore operations, including oil, gas, and wind farms. During that time, the AST Group have delivered solutions to help with a large array of different activities and requirements. Every one of these offshore and energy enterprises had critical and unique communication needs to ensure that operations were safe and successful.

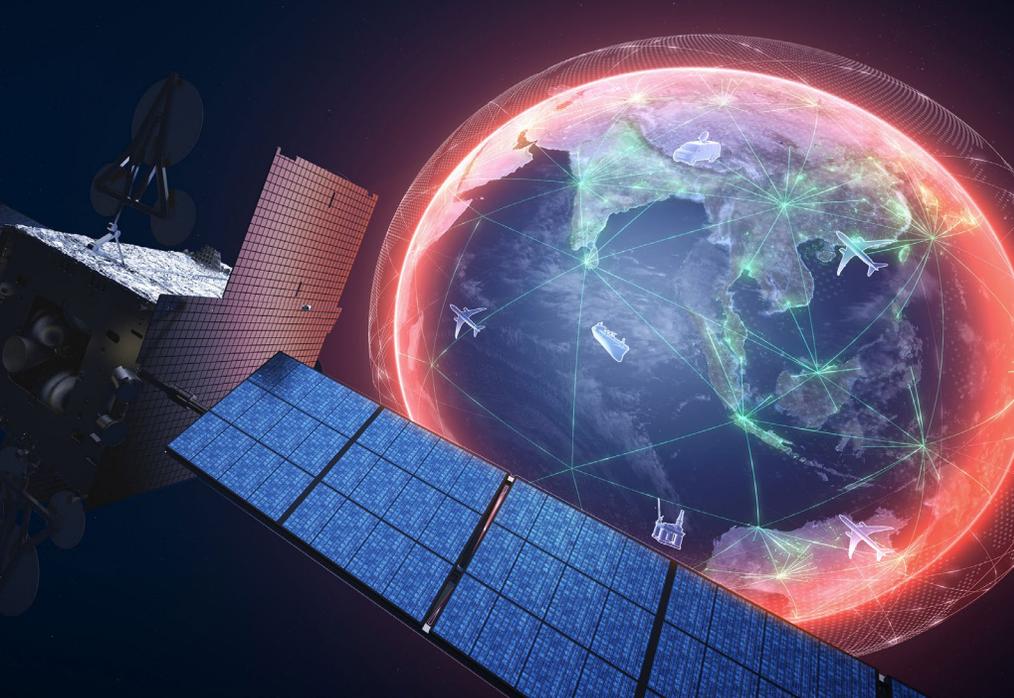
LEO Constellation

Part of our operational offering includes access to Low Earth Orbit (LEO) satellite constellations. This allows maximum coverage for the entire Offshore and Energy sector across the globe. Rather than being tied to a single satellite with a small area of connectivity, we are partnered with a game-changing constellation of 648 LEO satellites. Each one delivering high throughput and low latency, with high speeds to support all Offshore operations.

Unlike existing satellite networks, our solution offers connectivity similar to 4G and terrestrial fibre services. What is more, the constellation features in-built redundancy and in-orbit spares, designed to provide a resilient and sustainable network through seamless satellite handoffs.

Hyper-connectivity is part of everyday life for many offshore businesses. We want to remove any inconsistent connections, support the transformation of services, and level-up resource gaps, to create the new normal for Offshore and Energy. This allows us to offer:

- Greater capacity and higher throughput than alternative solutions
- Low latency that enhances and enables latency-sensitive applications
- Better connectivity for future-ready cloud solutions
- Flexible high data plans enabling facilities to become a fully functional office





Vital Tool Access

The LEO constellation of satellites that we can access orbits at only 1200 km above the Earth. That is thirty times closer than Geosynchronous Equatorial Orbit (GEO) satellites, and eight times closer than those of Medium Earth Orbit (MEO) operators. This low altitude means that we can offer an unmatched <100 ms low-latency connectivity to the entire Offshore and Energy sectors. Plus, they will have access to the same tools and experiences as on land. This includes enterprise applications such as Office365, Citrix or Oracle, and real-time Internet-of-Things (IoT) driven analytics applications, often used on offshore drilling platforms. Reliable high-performance connectivity is one of the keys to safe and successful operations in these environments. One of the keys to safe and successful operations in complex environments is reliable high-performance connectivity. Energy firms will be able to enhance their remote video stream surveillance of key facilities, equipment, and processes thanks to AST fibre-like connectivity services.

Global High-Speed Connectivity

Digital tools that increase offshore field and platform operations' productivity, efficiency, and safety are becoming more and more advantageous. Larger amounts of data are produced by these instruments to enhance operations and procedures.

AST can support offshore facilities by providing high-performance and consistent capability, helping them to enjoy greater operational resilience and maximise production at lower costs, in an extraordinarily complex industry. Our low-latency network offering will allow for real-time automation, live stream video, and greater levels of predictive maintenance, without the need to invest in costly fibre infrastructure. All of which will enable many offshore operations to be securely led or managed from onshore – reducing operational costs.

This is all made possible by giving Offshore and Energy businesses access to a usable network capacity of over 1.1 Tbps. Our services provide high speed and low latency connectivity, as an alternative to the current Very Small Aperture Terminal (VSAT) Internet solutions. This allows us to offer the ability to enable true digitalisation and deliver a real leap in operational efficiencies.



Making Offshore Platforms Safer

Fast and reliable connectivity easily supports work and process safety by providing engineers with key data for identification and mitigation of risky conditions before affecting safety.

Engineers can access data from onshore facilities, minimizing offshore needs travel to investigate possible problems on time.

Collaborating with engineers at onshore facilities, this level of fast data can minimise the need for offshore travel to research potential issues. With enhanced monitoring, such as wearable technology, IoT, detection systems, AI, and machine learning, conditions can be quickly analysed to take action and minimise risk to people and the facility.

Our Added Values

AST puts you back in control with our INTEGRA suite of services that offer a clear overview of enhanced satellite data consumption. Plus, with real-time access to monitor and control data usage from both shoreside and onboard environments enabling efficient market-leading bandwidth management.

Our team of AST experts are available 24 hours a day, 7 days a week, 365 days a year, to give you proactive and personalised technical support whenever you need it.

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