Telesat LEO

“Home-like” Wi-Fi on the high seas
Telesat has developed a highly innovative global network composed of 300 state-of-the-art Low Earth Orbit (LEO) satellites seamlessly integrated with on-ground data networks.

Cruise ships connectivity demands are increasing exponentially, with needs raging from high quality broadband Internet, consistent passenger experience everywhere, to improved shore-to-ship communication for efficient operations.

A new global ‘virtual fibre’ service optimized for cruise ship connectivity

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Telesat LEO incorporates next-generation technology including:

**Data Processing in Space**
Full digital modulation, demodulation, and data routing occurs in space for processing, resulting in higher capacity and flexibility

**Phased Array Antennas**
Sophisticated antennas on each satellite with hopping beams can dynamically focus capacity precisely where users require it

**Optical Inter-satellite Links**
Data can travel at the speed of light from one satellite to another, resulting in a fully interconnected global mesh network that allows customers to access the Telesat LEO network no matter where they are

**Hybrid orbits**
Satellites in an industry-first combination of polar and inclined orbits, resulting in complete global coverage, including polar areas, with higher capacity where most of the world’s population lives
High Quality

Our low-latency network coupled with multiple gigabits per second link speeds is 20X more responsive than today’s satellites, delivering secure, unsurpassed performance to thousands of passengers on a cruise ship.

Global Coverage

Every point on Earth is covered delivering hundreds of Gbps in crucial maritime regions including the poles. Our flexible programmable network can dynamically allocate additional bandwidth on a ship-by-ship basis to optimize performance. High capacity for key demand areas, like cruise ships ports and major cruise routes in the Caribbean and the Mediterranean. Your network at sea never loses connectivity, even when traveling across continents.

“Home-like” Wi-Fi on the high seas

Always On

Highly resilient network with multiple interconnected satellites and ground nodes eliminates any single point of failure, ensures your network is always on; allowing cruise lines to offer their passengers a lightening-fast Internet experience throughout their journey.
Telesat has conducted several testing campaigns with leading maritime, aero and enterprise service providers, demonstrating industry-leading high throughput and quality.

Telesat LEO, launching in 2022, will be available through leading connectivity service providers.