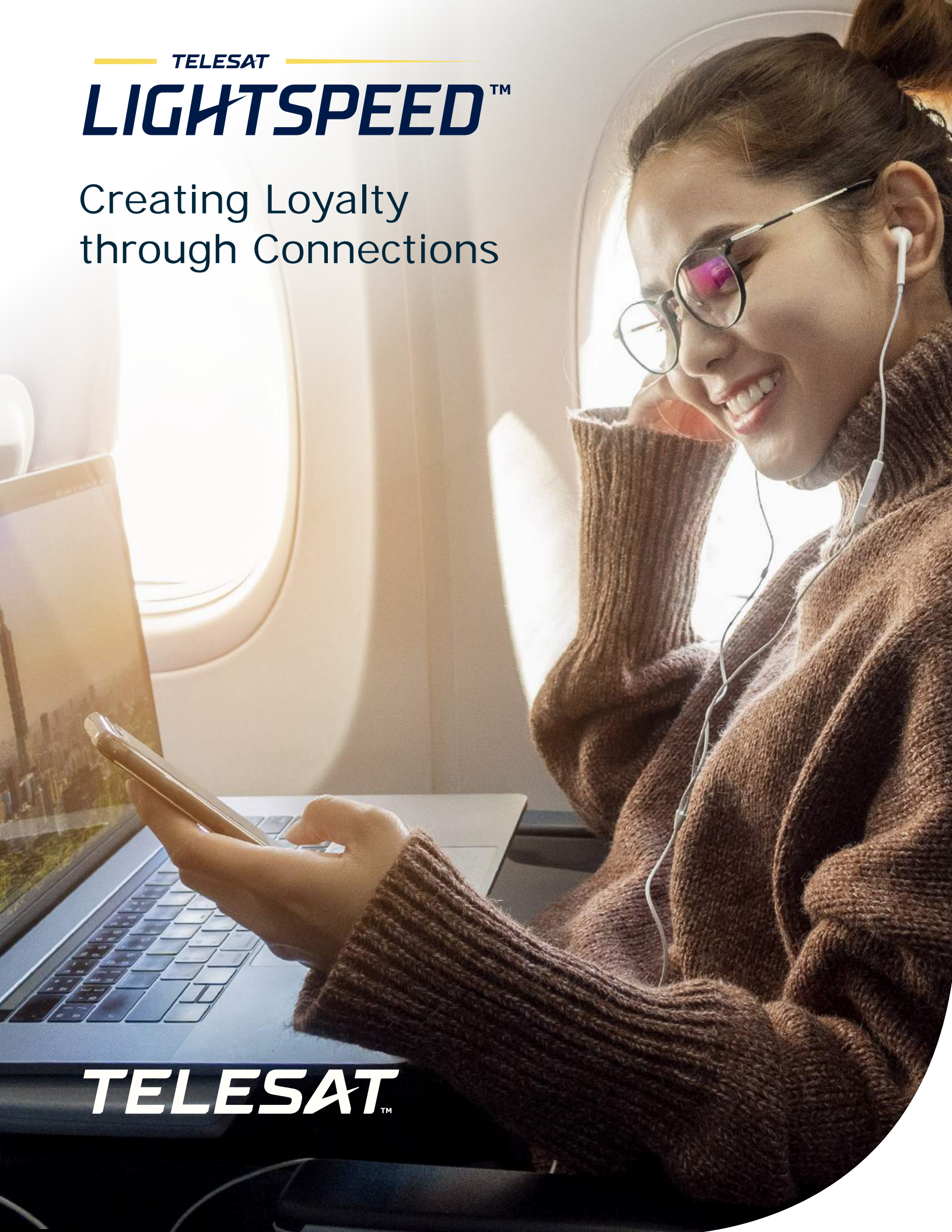


TELESAT

**LIGHTSPEED™**

Creating Loyalty  
through Connections

**TELESAT™**



Just a few years ago, in-flight Wi-Fi was considered a “nice to have.” Today, passengers not only expect Wi-Fi, but their customer satisfaction and loyalty is directly influenced by their ability to connect.

**TELESAT**

# **LIGHTSPEED™**

## A new network optimized for inflight connectivity (IFC):

### Telesat Lightspeed 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.

#### **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 Lightspeed network no matter where they are.

#### **Phased Array Antennas**

Sophisticated antennas on each satellite with hopping beams can dynamically focus capacity precisely where users require it.

#### **Hybrid Orbits**

Satellites fly in a 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.

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Telesat has developed a highly innovative global network composed of 298 state-of-the-art Low Earth Orbit (LEO) satellites seamlessly integrated with on-ground data networks.



**Lightspeed  
provides  
a superior  
passenger  
experience.**



### **High Throughput**

Gigabits per second link speeds and a network with multiple Tbps of capacity ensures every passenger can access bandwidth to stream video, browse the Internet, or perform any other online activity unconstrained.



### **Global Coverage**

Every point on Earth is covered so your passengers no longer lose connectivity when travelling through northern latitudes.



### **Low Latency**

Our network is about 20-times more responsive than today's satellites and on par with fibre networks. You now can provide an "at home" or "at work" Internet experience in the sky, which means passengers can use a VPN, access encrypted intranet pages, or participate in online gaming.



### **High Capacity for Hotspots**

Our intelligent network understands your flight routes and can dynamically allocate additional bandwidth to areas with high traffic or to busy hubs so your passenger experience never trails off.



### **Always On**

Highly resilient network with multiple interconnected satellites and ground nodes without any single point of failure ensures your passengers always stay connected.

Telesat has conducted several testing campaigns with leading maritime, aero and enterprise service providers, demonstrating industry-leading high throughput and quality.

Lightspeed services will be available through leading connectivity service providers. To learn more, visit [www.telesat.com/lightspeed](http://www.telesat.com/lightspeed)



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