

**TELESAT**  
**LIGHTSPEED™**

**Drive digital transformation in  
next-generation energy operations**

**TELESAT™**

# UNLEASH THE FULL POTENTIAL OF REMOTE SITES

The most business-critical aspects of your operations are located in areas where reliable, fast, and responsive internet connectivity is scarce or non-existent. These connectivity dead zones make it extremely difficult to increase efficiency, safety, and automation at remote sites and leave on-site staff cut off from friends and family.

The Telesat Lightspeed Low Earth Orbit (LEO) satellite network brings extremely fast, secure, and highly responsive broadband connectivity to isolated operations on land and at sea. Now you have the guaranteed high-performance, low-latency satellite connectivity you need to extend digitalization and automation technologies throughout your operations.

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## Automate and accelerate everywhere you operate with Telesat Lightspeed



### Optimize site operations

Extend corporate and control centre applications to remote sites to increase visibility and make faster, data-based decisions. Use automated and autonomous machinery, transport vehicles, and vessels to increase safety and productivity. And use cloud-based digital twins to simulate and evaluate your next steps in site digitalization and automation. These efficiencies help you decarbonize across your operations.



### Simplify monitoring and compliance

Use real-time 4K video for remote monitoring and troubleshooting to minimize travel and emissions. Deploy aerial, ground, and aquatic drones and robots for inspections, surveying, and environmental monitoring for faster, safer assessments. Collect and analyze SCADA and IoT sensor data in real time to enable predictive maintenance and proactive interventions that reduce the risk of downtime.



### Empower your workforce

Share network services with contract organizations to improve interoperability while lowering infrastructure costs. Implement connected worker solutions such as smart wearables, connected tools, and real-time HD video communications to improve workers' health, safety, and productivity. Give workers reliable broadband access to improve morale, retention, and mental health. And provide telemedicine services to sick and injured employees.

# Enterprise-class features for maximum reliability, security, and flexibility

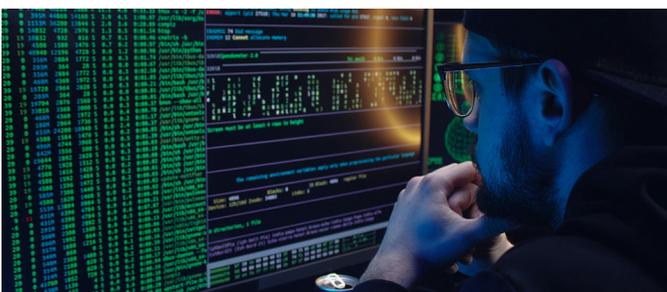
To digitalize and automate at remote sites, you need to go beyond consumer-grade and best-effort LEO satellite services. Telesat Lightspeed delivers enterprise-class LEO satellite services that meet industrial connectivity requirements.



## Always-on connectivity with guaranteed performance

Telesat Lightspeed incorporates ground and space-based redundancies and path diversity mechanisms to create a resilient, self-healing network that's always available.

In addition, all services are backed with telecom-grade service level agreements (SLAs), support application prioritization, and can be scaled for demanding new use cases. These capabilities are essential to support high-bandwidth and latency-sensitive applications at remote sites.



## Around-the-clock network monitoring and support

We monitor the entire Telesat Lightspeed network 24/7/365 from our cybersecurity and satellite operations centres. We immediately advise your service provider of any network issues, and we're always available to speak with them in person.



## Built-in cybersecurity at every level

Every network component is based on Secure by Design principles that ensure security measures are incorporated from the earliest design stages and never added as an afterthought.

As a result, the network features a Zero-Trust Architecture that provides no implicit trust to any user, device, or application. We've also adopted key National Institute of Standards and Technology (NIST) cybersecurity standards and have built-in military-defined cybersecurity controls. Your service provider retains responsibility for end-to-end data encryption.



## Multivendor antenna ecosystem

You and your service provider can choose from our multivendor range of flat-panel and parabolic antennas—including multi-orbit antennas—to optimize antenna size, performance level, and form factor for each site and mobile asset.

For maximum flexibility and cost-effectiveness, you can support multiple, segregated networks using a single antenna.

# Count on a proven satellite industry leader

Telesat is one of the world's most innovative satellite operators and has been a trusted partner to connectivity service providers, telecom network operators, and governments globally for more than 55 years.

We've combined our decades of experience in satellite technologies with our deep understanding of enterprise and government requirements to develop Telesat Lightspeed, the LEO satellite network that's designed and built to meet your mission-critical connectivity requirements.

When you select Telesat Lightspeed LEO satellite services, you have the reliable, secure, and flexible broadband you need to accelerate your journey to safer, more efficient, and cost-effective operations.



## Learn more

For more insight into how Telesat Lightspeed can help you drive digital transformation throughout your operations, contact us at [www.telesat.com/contact-us](http://www.telesat.com/contact-us).

## Contact Us

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