

Professional Satellite Services

The help you need to execute complex activities to reach critical milestones in the satellite lifecycle



Enable Full Satellite Lifecycle Operations with Professional Satellite Services from Intelsat

Satellites have become an integral technology in how we communicate, observe and navigate our world. As this technology continues to grow and become more closely tied to the strategies and outcomes of companies, governments, and individuals, it's more important than ever that you have the right partner to ensure success and maximize your investment.

Whether you're an existing satellite operator looking to reduce satellite operational expenses, or a new satellite operator just getting into the market, Intelsat provides flight operations and engineering services for the entire satellite life cycle.



Over **200 GEO spacecraft** designed, procured, and delivered by Intelsat to provide essential satellite services



Provide in-orbit operations for more than **75 satellites** owned by Intelsat and third-party customers



Our network connects more than **550 ground antennas** at 30 global locations

Leverage Intelsat's Expertise

Our end-to-end management solution for Professional Satellite Services covers all the bases, so new operators and service provider organizations can focus on what they do best: serving their customers.



Satellite Consulting and Program Management

You have the experts on your side from day one. Our seasoned monitoring service providers ensure higher product reliability, lower risk of failures, and longer service life of a satellite.

In addition, our satellite service experts take on:

- Early definition of satellite requirements
- RFP generation and evaluation
- Technical exhibit reviews and negotiation
- Regulatory coordination
- Satellite construction oversight and management
- Launch services and operational acceptance management

Hosted Payloads

Gain economical and timely access to space by placing your payload on our spacecraft. Benefits include:

- Reduced timelines and rapid access to space
- Shared operations, development and launch
- Significant cost savings
- Risk reduction
- Payload command and control using an encrypted link



Launch and Transfer Orbit Support Services (TOSS)

Our TOSS services support all types of GEO missions, including chemical, hybrid and electric propulsion. LEO/MEO launch support available. Intelsat offers:

- Top-notch Operations staff
- Simultaneous mission support
- 60+ ground antennas across 20 sites (C, Ku, Ku BSS, Ka bands)
- High network availability
- Hindrance coordination
- Regulatory support
- IOT support including portable in-orbit testing system

Intelsat TT&C and TOSS Ground Network Facilities Typical Antenna Specifications

C-band Full Performance Antennas

- 9-32m diameter
- Tx: 5850-6725 MHz
Rx: 3400-4200 MHz
- Polarization: Circular and Linear
- G/T: 31-41 dB/K
- Tracking: Monopulse and Programmable
- BBUs: Cortex

Ku-band Full Performance Antennas

- 11-14m diameter
- Tx: 12750-14500 MHz
17300-18100 MHz
Rx: 10700-12750 MHz
- Polarization: Circular and Linear
- G/T: >35-41.9 dB/K
- Tracking: Monopulse and Programmable
- BBUs: Cortex

Ka-band Full Performance Antennas

- 8m-13.2m diameter
- Tx: 27500-31000 MHz
Rx: 17700-21200 MHz
- Polarization: Circular and Linear
- G/T: >39-42 dB/K
- Tracking: Monopulse and Programmable
- BBUs: Cortex

S- and L-band Full Performance Antennas

- 7.3m diameter
- Tx: 2025-2120 MHz
1755-1850 MHz
Rx: 2200-2300 MHz
- Polarization: Circular
- G/T: >19.6 dB/K
- Tracking: Monopulse and Programmable
- BBUs: Cortex and Amergent (with USB and SGLS capability)



Satellite Flight Operations and Engineering

24/7 satellite monitoring and control from redundant and geographically diverse Operations Centers (SOC) in McLean, Virginia, and Long Beach, California

- Orbit determination, maneuver planning, propellant management, and end-of-life prediction
- Satellite health management, payload management
- Payload In-Orbit Testing
- Hinder coordination
- Oversight of ground control system implementation
- Flexible solutions for GEO and other orbiting spacecraft (LEO, MEO, etc.)
 - Primary or back up on-orbit operations
 - Short-term or early on-orbit operations
 - Lease of worldwide TT&C assets
- Training programs for satellite operations
- Integration of third-party control software products for automated satellite flight and operations



Ground Services

Single source for satellite and terrestrial ground infrastructure 'as a service' to help reduce the complexity, risk, cost, and responsibility of private infrastructure.

- Ground Antenna Systems or Teleports
 - System design and engineering consulting
 - Project management
 - Teleport optimizations, consolidations, relocations
 - Procurement, shipment and customs management, installation, test, and acceptance
- Antenna/Equipment co-location services
- End-to-end operational monitoring and maintenance
- Ground station regulatory consulting
- Terrestrial network and internet connectivity

To learn more about our Professional Satellite Services contact us at srs@intelsat.com