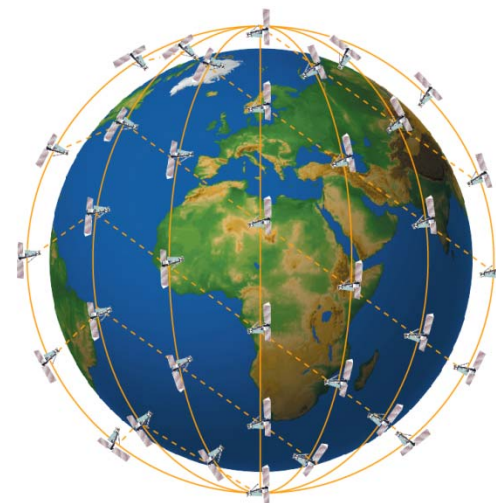




# SmartTrace ST1900 Satellite Modem

Continuous Cellular-Satellite Coverage for Real-Time Tracking and Safety





# Challenges

- Need to know where mobile assets are at all times
- Need to know when mobile assets get lost, are delayed, or misused – contributing to higher costs and lowered efficiency
- Need a cost-effective and accurate fleet management solution



# Solution

## ST1900 Satellite Modem Solves these Challenges with complete coverage – wherever you are

- Installed with SmartTrace Locator on vehicles that need to be tracked
- Switches from cellular to satellite when out of cellular coverage
- Use Iridium based satellite network to receive signals at ALL TIMES
- Supports voice and data services
- Calculate exact location & transmit information via Iridium's 66-satellite system





# Why Iridium?

- 148,000 subscribers
- Iridium 66 satellites offer continuous coverage between any two points on earth using Low Earth Orbit (LEO) configuration
  - *Low altitude position reduces latency, power requirements and equipment costs*
- Does not require unobstructed view to a fixed satellite
- Not hindered by ground station location, since data can be relayed between satellites
- Pass continuously throughout the sky – ST1900 Locator only needs to connect with one satellite to successfully transmit information



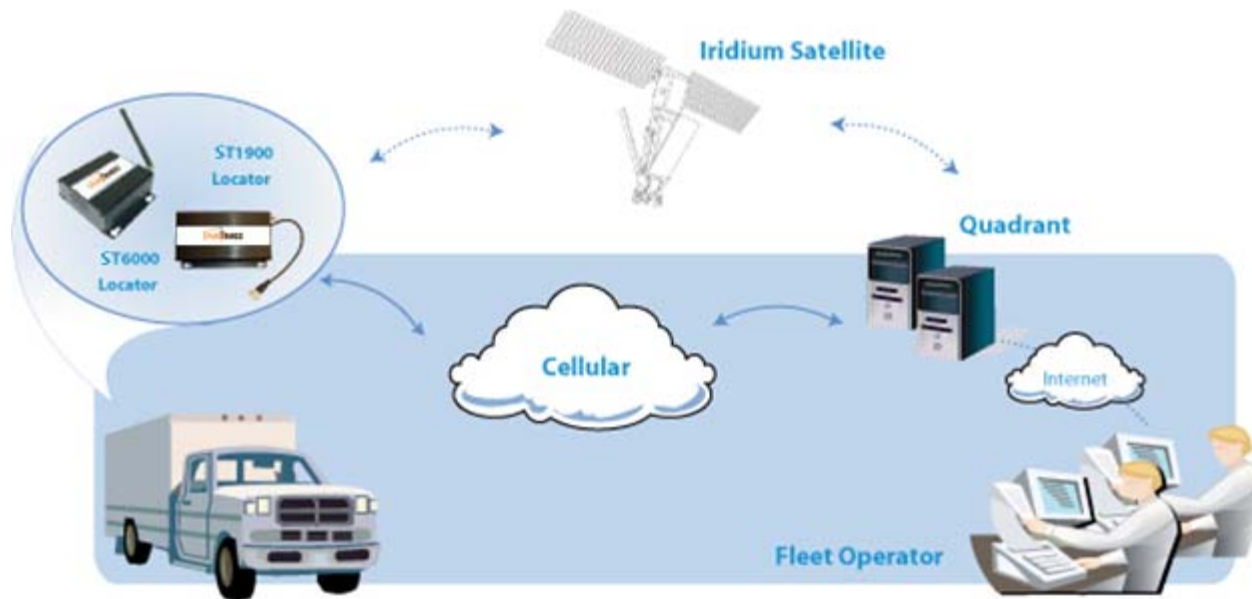


# Features

- Built on robust and cost-effective Iridium SBD9601 transceiver for accurate data transfer
- Primary transmit/receive is via Cellular on ST6000/ST5000 Locator
  - When outside cellular network for 5 minutes, system switches to Iridium satellite transmit/receive.
    - Switches back when cellular signal is detected
  - Configure system to transmit less data (no Driver Logs) when using Satellite
- Easy installation and configuration connected to ST Locator serial port:
  - ST6000 Series Locator auxiliary port, or
  - ST5000 Series Locator serial port
  - ST Locator Series support dual-mode Cellular/Satellite, and single Satellite-only modes

# System Diagram

Always Know the Location of Your Fleet  
with ST1900 Satellite Modem





# Benefits

- Highly reliable reporting on vehicle location and status
- Improve coverage with increased flexibility between Cellular and Satellite networks
- Uninterrupted monitoring of assets at all times globally
- Best-fit data rate plans available for individual usage requirements



# Benefits Continued

- Reduce operating costs by using cellular network when available, satellite as back-up for continuous coverage
- Improve personnel location and safety status monitoring
- Enhance security of hazardous goods shipments with reliable location and safe status reporting

