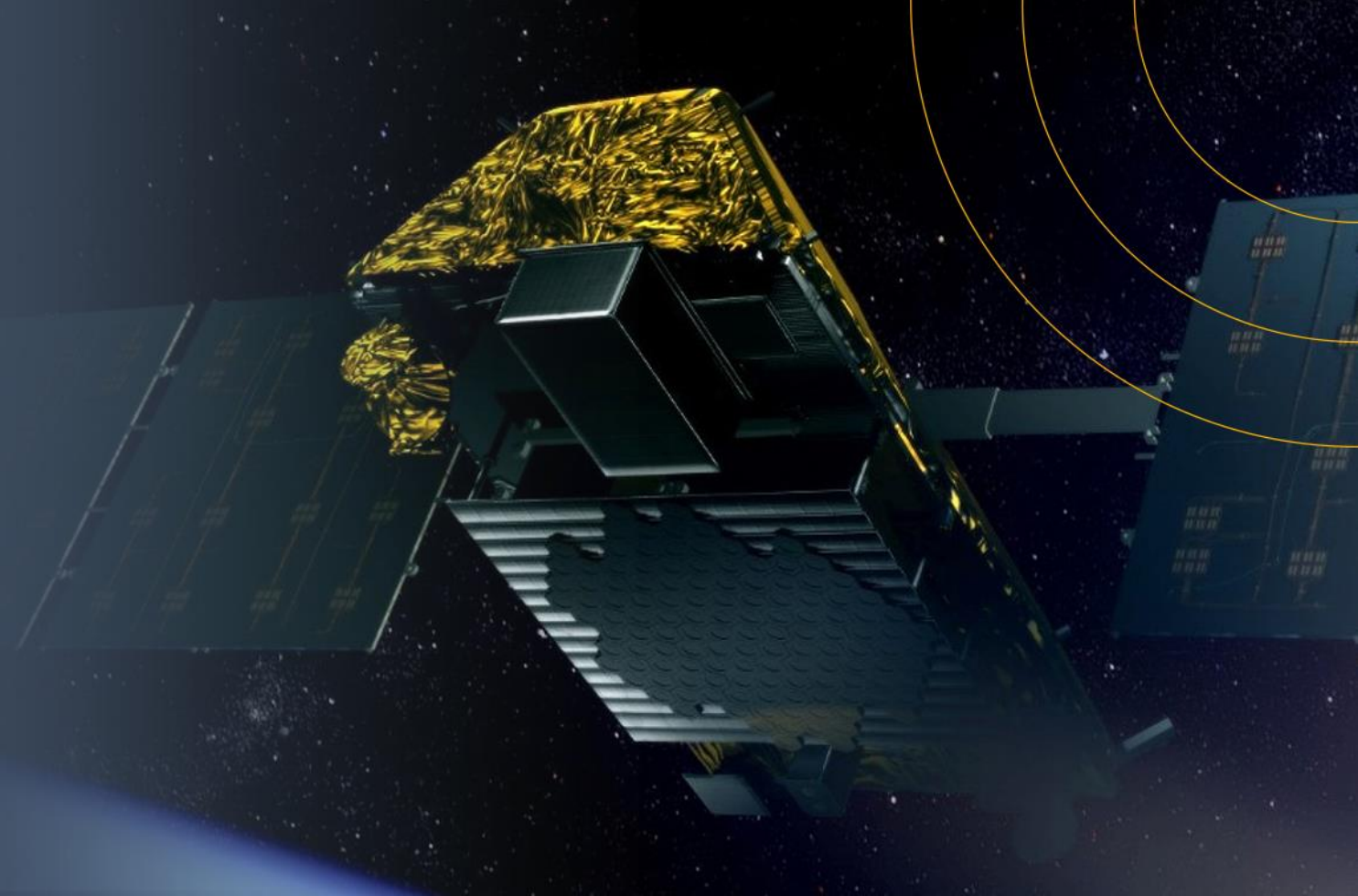


# SKYTRAC

Improving safety through  
intelligent connectivity



**SOLAKONFERANSEN**  
Aviation Safety  
Since 1987

**Jeff Sherwood**

Director of Business Development

Email: [JSherwood@Skytrac.ca](mailto:JSherwood@Skytrac.ca)

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**SKYTRAC**

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AVIATION'S #1 OPTION FOR  
GLOBAL SATCOM CONNECTIVITY

[www.skytrac.ca](http://www.skytrac.ca)



# SKYTRAC

## What we do and how we create value

We provide critical connectivity to thousands of end users around the globe. We work with OEMs, operators, and systems integrators to provide end-to-end products and services, taking the complexity out of global value chains.

### Airtime

SKYTRAC's airtime services provide operators with valuable satellite and cellular connectivity from pole-to-pole.

2.4 Kbps Narrowband Midband  
22/88 Kbps Broadband  
352/704 Kbps 4G/LTE Cellular  
50+ Mbps

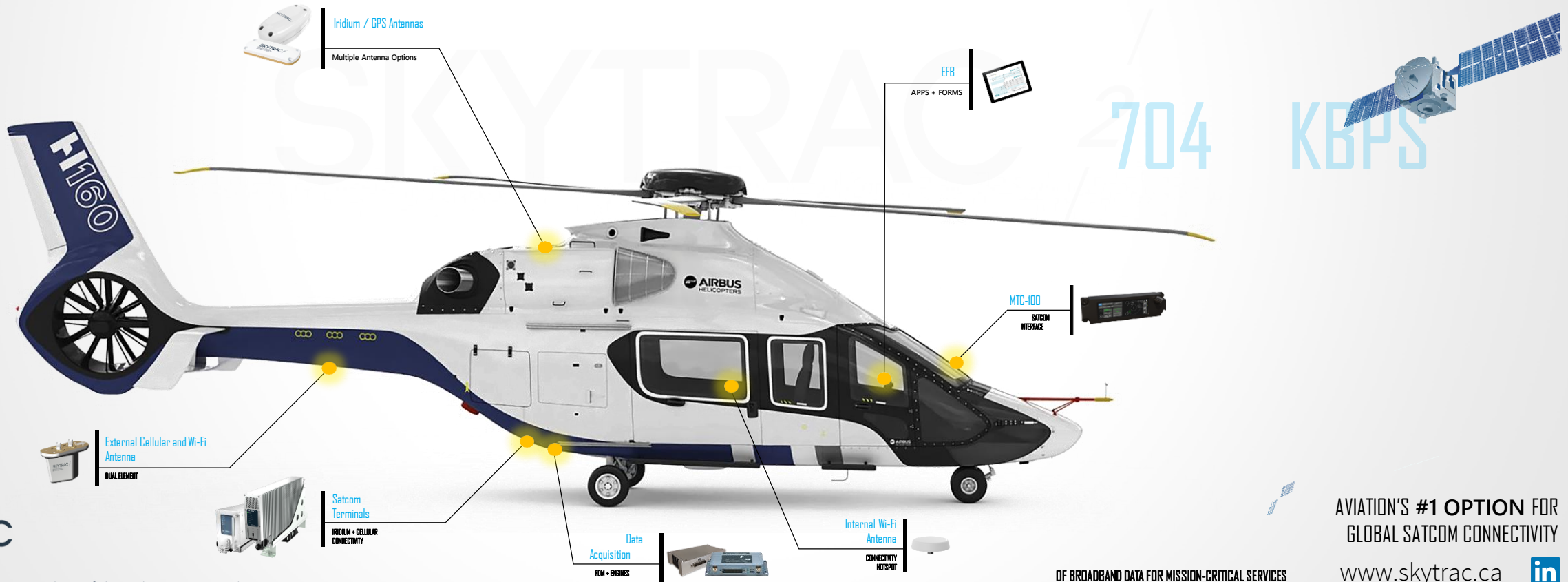


### Mission Services

Our capabilities empower mission-critical operations.

- Flight Following
- Voice + Text Messaging
- Push-to-Talk
- EFB + Situational Awareness Apps
- FDM + Real-Time HUMS Alerting
- Aircraft Data Acquisition
- Tank Drop Data
- IFE/Credit Card Validation
- Real-Time Video Downlinking
- Sensor Fusion + AI

We provide customer value through intelligent connectivity.

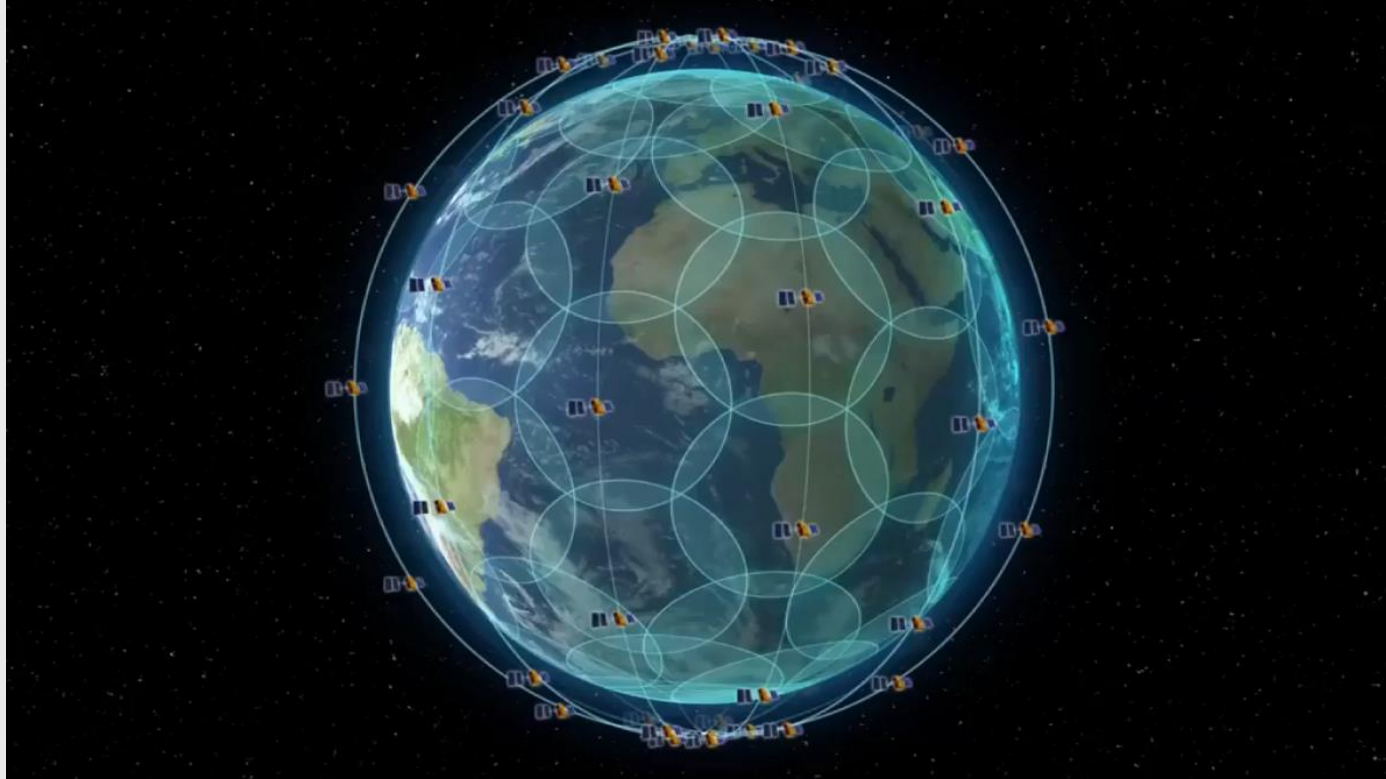


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# Iridium Certus<sup>®</sup> Overview

- Iridium is the only satellite network to offer 100% global coverage
- Constellation consists of 66 satellites in a low-earth orbit roughly 500 miles above earth
- The new Iridium Certus services offer broadband speeds through a low latency satellite connection



Representation of cross-linked, globally reliable LEO satellite constellation.

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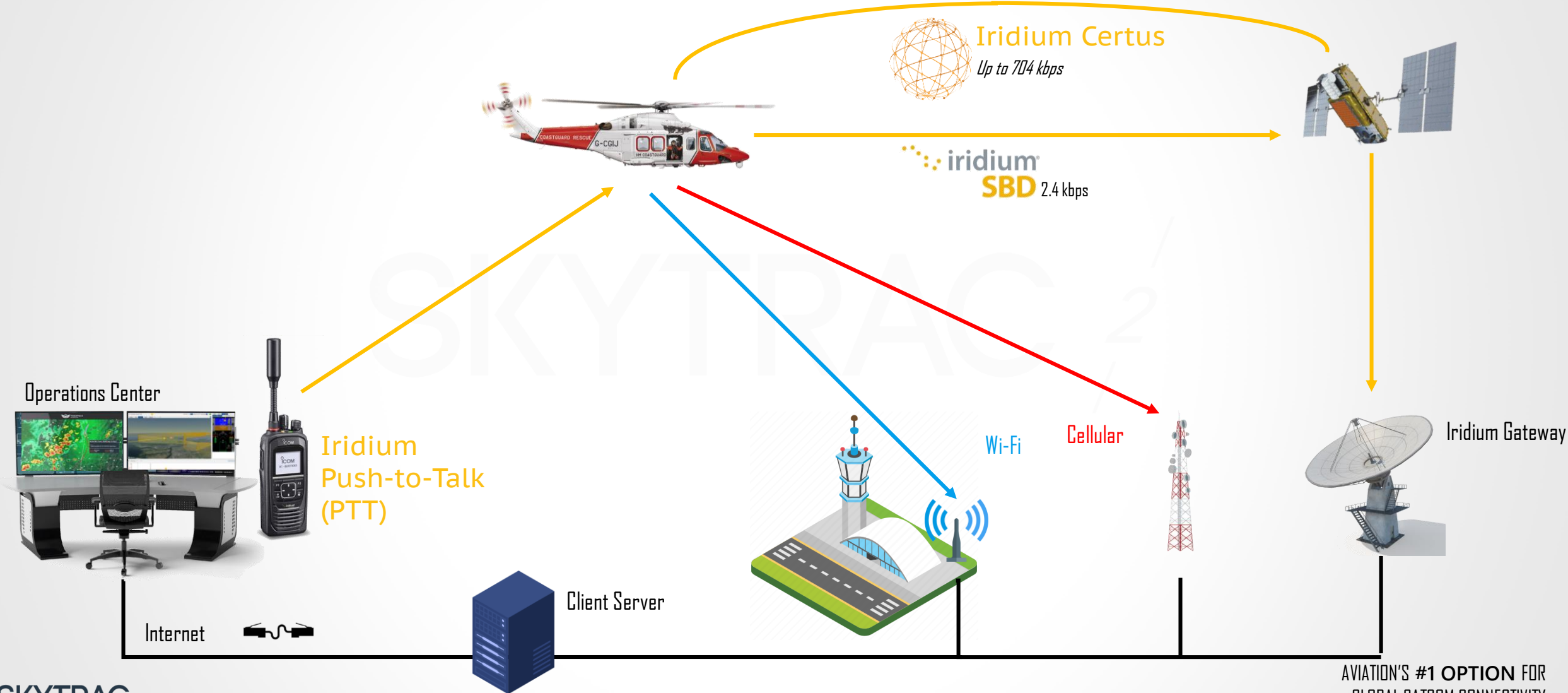
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# SKYTRAC Multi-Network Global Connectivity



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AVIATION'S #1 OPTION FOR GLOBAL SATCOM CONNECTIVITY

# ROTORCRAFT CONNECTIVITY IRIDIUM CLASSIC

- Support for Short Burst Data (SBD), voice calling, and satellite Push-to-Talk services
- Multiple equipment configuration options and scalable services



**Satellite Voice Communications**  
Voice calling & Push-to-Talk (PTT)



**EFB Connectivity**  
Messaging & Data Transfer



**Flight Data Monitoring**  
Real-time tracking & FDM



**Cellular & Wi-Fi Data Transfer**  
Post-flight data offloading



**Health & Usage Monitoring**  
Real-time monitoring & alerting

## Iridium Classic Services

Global tracking and flight data monitoring
Satellite voice calling & Push-to-Talk (PTT)
Health & Usage Monitoring (HUMS)
Mobile applications and device connectivity
Cellular and Wi-Fi connectivity
Two-way messaging and digital forms

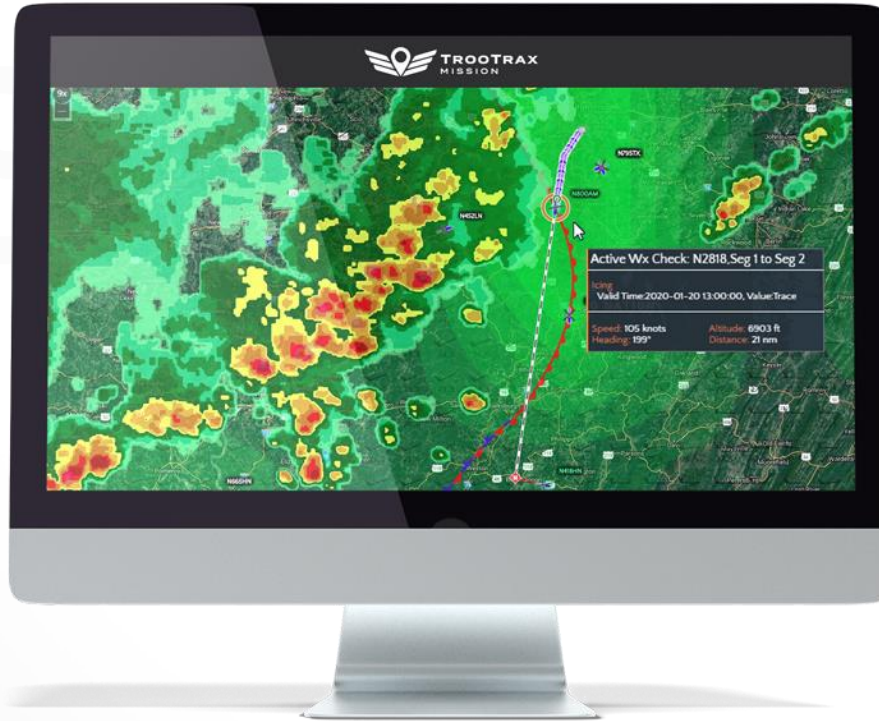
## SKYTRAC Avionics



**ISAT-200A**  
Iridium Classic  
Cellular & Wi-Fi  
Airborne Server  
Data Acquisition  
Mission Applications

# SKYTRAC FLIGHT TRACKING

- High-accuracy location reporting (30, 60, 90 sec. intervals)
- Two-way messaging between ground and aircraft
- Advanced aircraft flight events (take-off, landing, overspeed, route deviation, etc.)
- Flexible air-to-ground communications (satellite voice, text, and email messages, international dialing, etc.)
- Aeronautical map layers (IFR & VFR charts, METAR data, etc.)
- Emergency alerting (cockpit emergency switch integration and automated activation)



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## VISION & MISSION

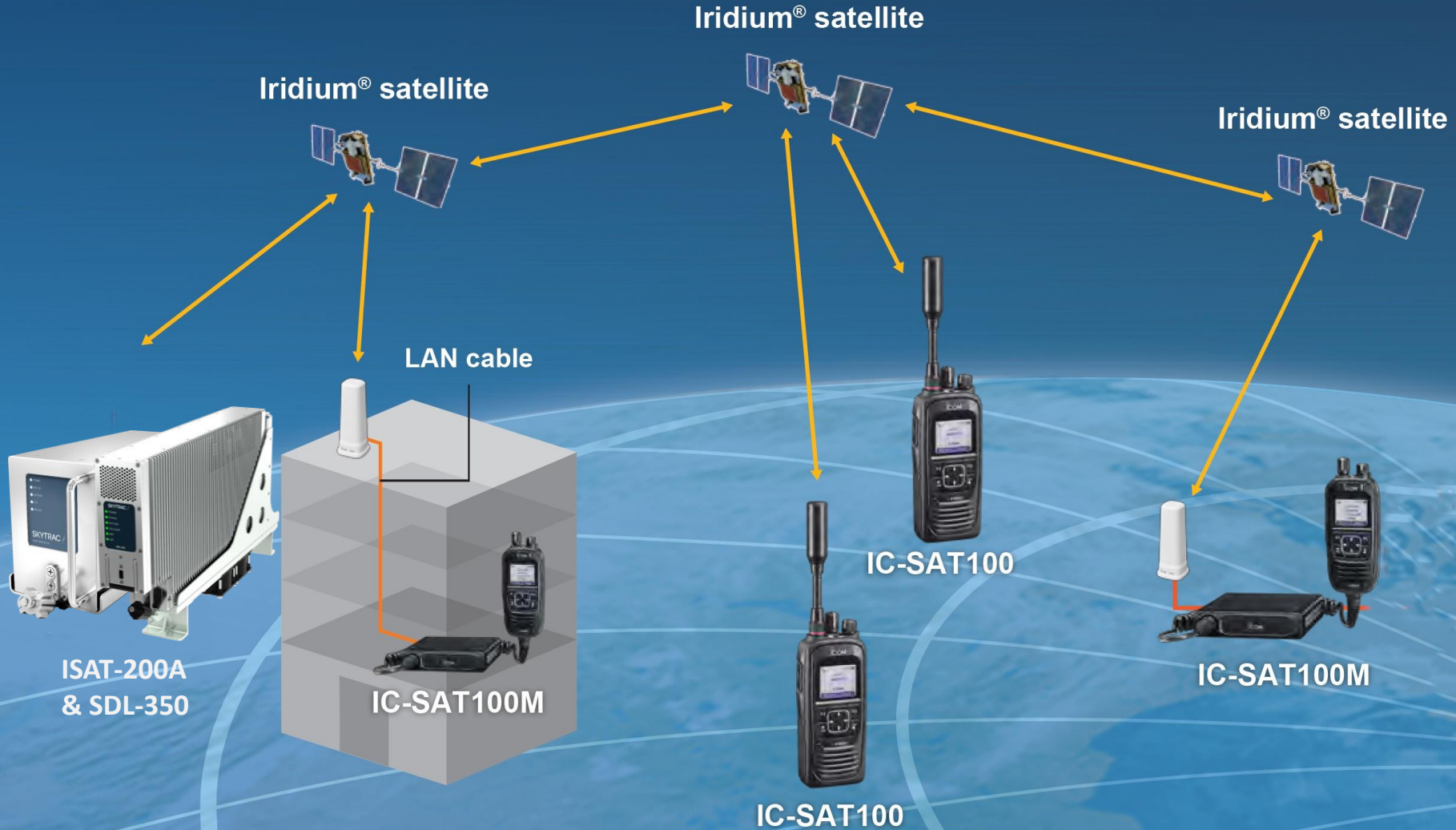
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# IRIDIUM PUSH-TO-TALK AIR & GROUND VOICE COMMS

- Global push-to-talk (PTT) communications for all aviation and land assets utilizing the Iridium Satellite Network



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# SKYTRAC Flight Data Monitoring (FDM) Services

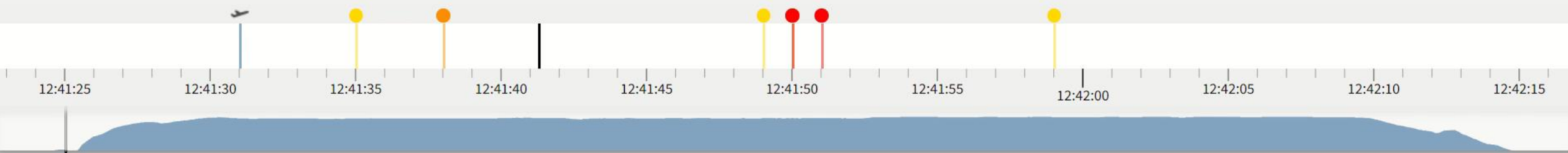
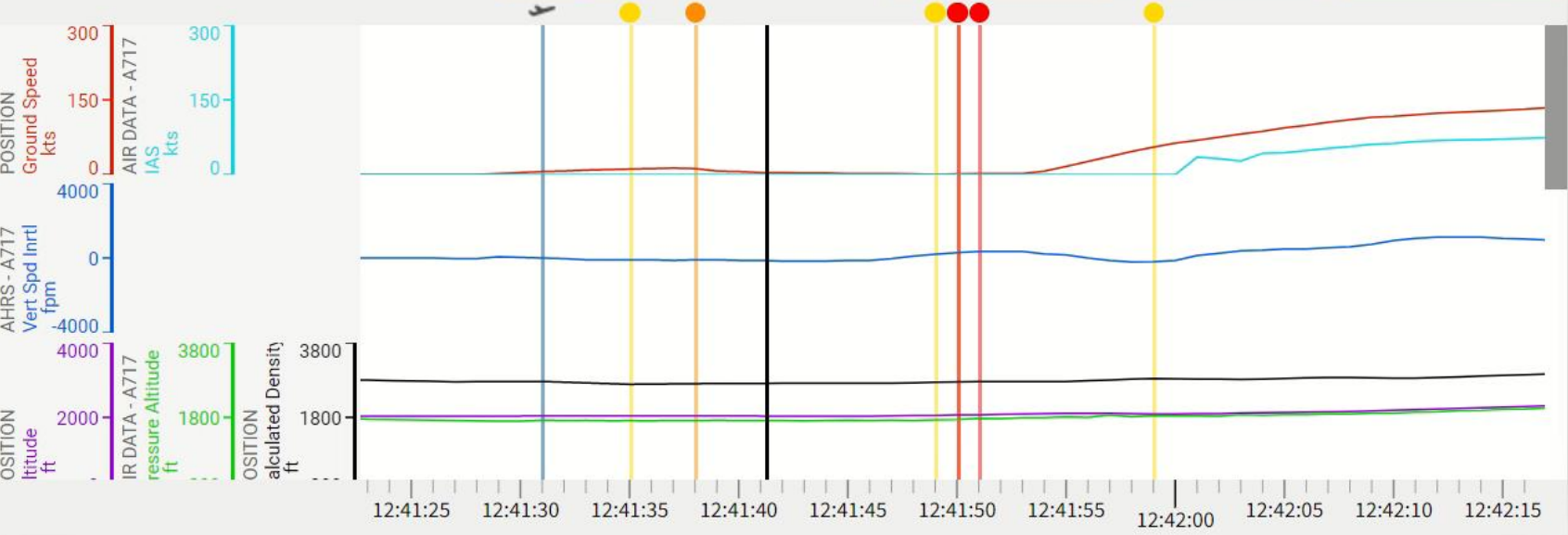


- Aviation authority & international regulatory compliance
  - *SKYTRAC FDM Report & Validation letter for CAA compliance*
- Maintain comprehensive fleet operational overview
  - Increase safety & operational efficiencies
- Improve aircraft reporting & data acquisition
- Identify anomalies, critical events and unsafe operations
- Minimize Aircraft on Ground (AOG) time
- Improve communications and aircraft data sharing between operations & maintenance
- Facilitate rapid diagnosis and resolution of aircraft issues



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# ROTORCRAFT CONNECTIVITY IRIDIUM CERTUS



- Support for Short Burst Data (SBD), voice calling, and satellite Push-to-Talk services
- Certus broadband connectivity up to 352 kbps transmitting and 704 kbps receiving

**Graphical Weather**  
Real-time aviation & maritime weather



**Maritime AIS Data**  
Real-time vessel identification & rendezvous



**Medical Data Streaming**  
Sub & Bulk Data Streaming



**ED / IR Camera**  
Cellular & Satellite Video Streaming



**Push-to-Talk & VoIP**  
SATCOM for cabin & crew



**Crew & Passenger Device Connectivity**  
Internet Connectivity & IP Voice Calling

## Iridium Certus Services

- Real-time tracking, flight data monitoring, and HUMS
- Satellite voice calling for cockpit and cabin
- VoIP & Push-to-Talk (PTT) SATCOM
- Telemedicine and medical data transfer
- Integration and connectivity for medical equipment
- Onboard server with customized application hosting

## SKYTRAC Avionics



**SDL-350**  
Iridium Classic  
Iridium Certus  
Cellular & Wi-Fi  
Airborne Server  
Data Acquisition  
Mission Applications

# IRIDIUM CERTUS VIDEO STREAMING

- Up to 352 kbps video streaming from air-to-ground with high gain antenna
- Up to 176 Kbps video streaming from air-to-ground with low gain antenna



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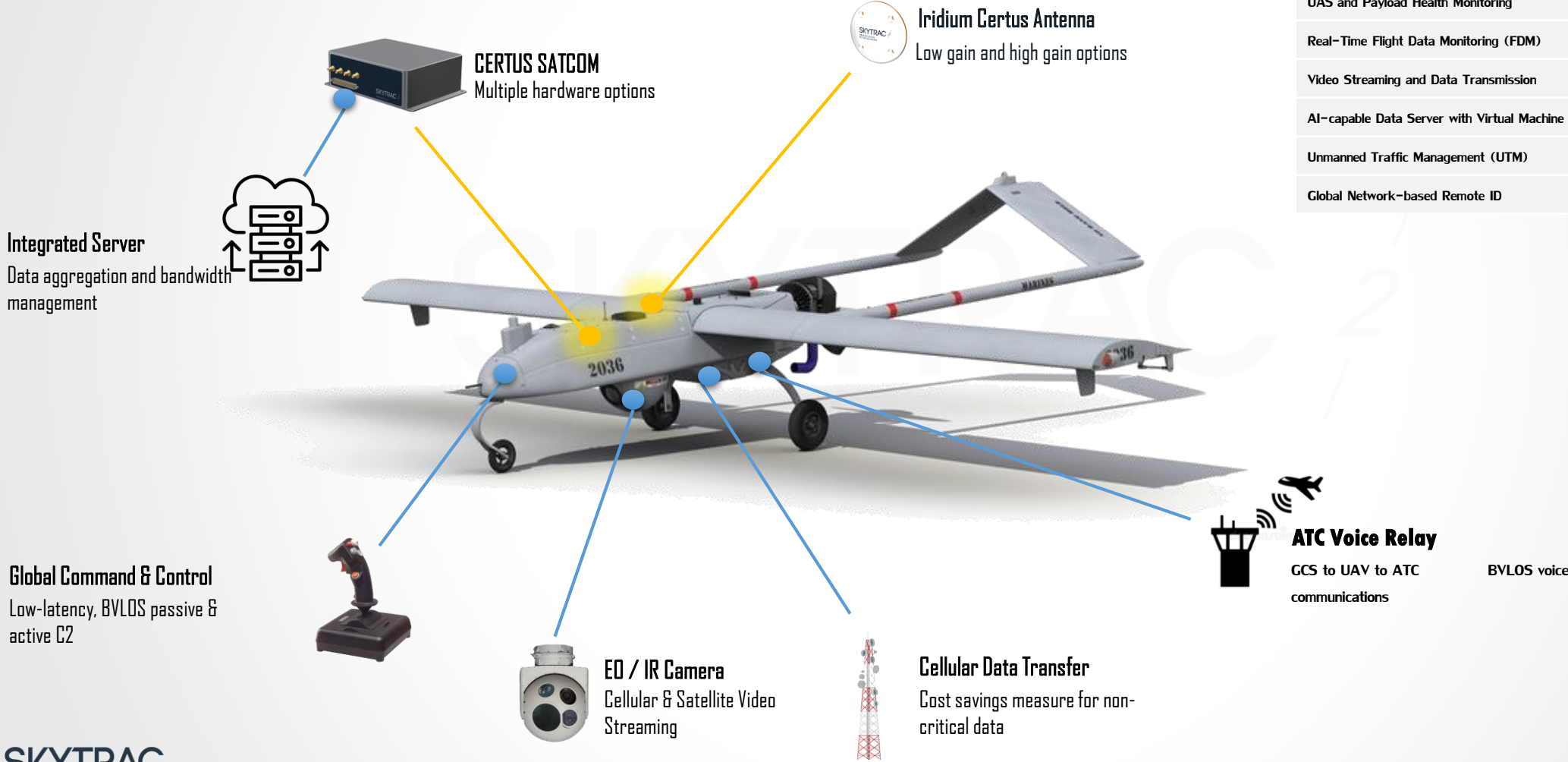
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# CERTUS CONNECTED UNMANNED SYSTEM

- Support for mid-band (22/88 kbps) and broadband (352/704 kbps) Certus services
- Customized integration to OEM or customer specifications



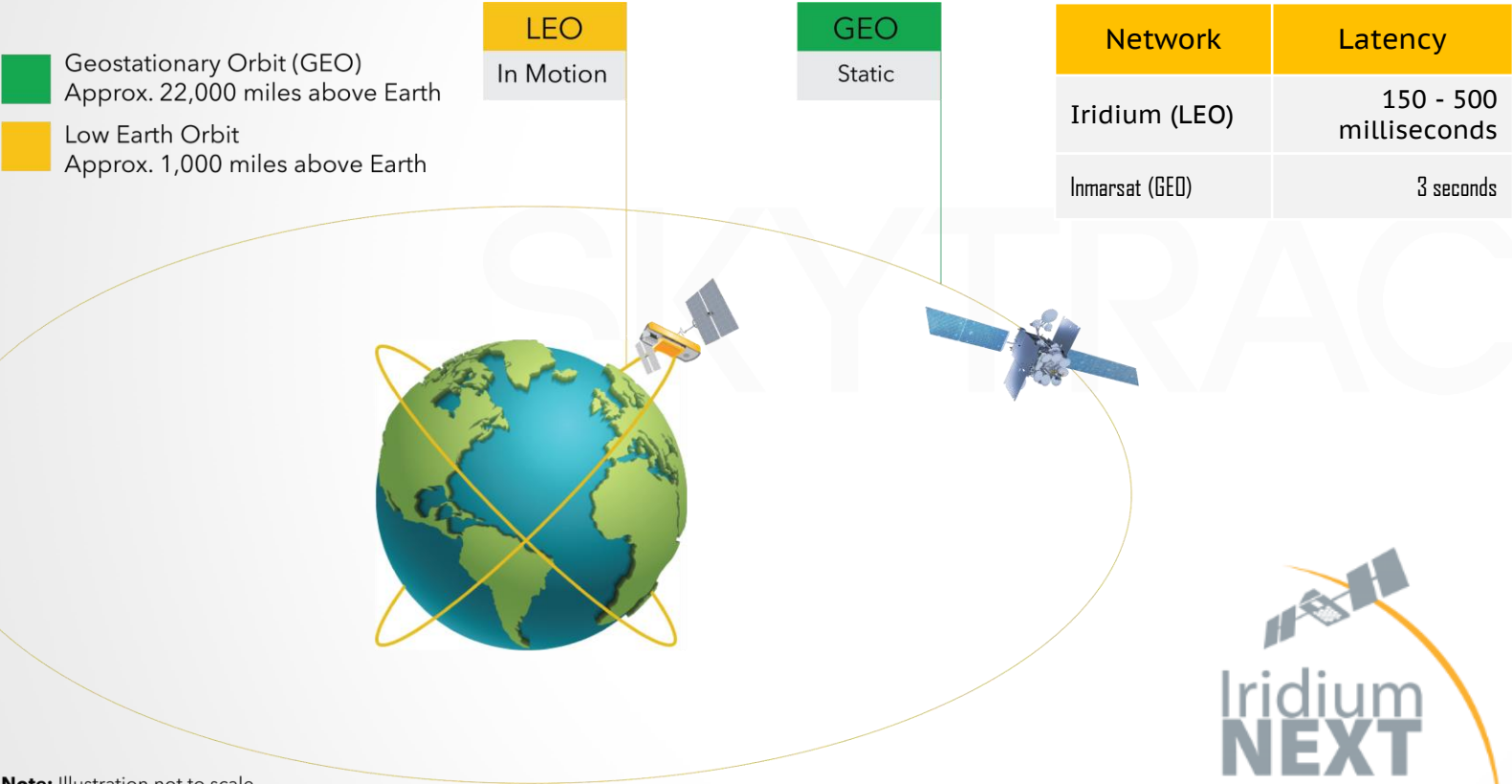
## Features & Capabilities

Beyond Visual Line of Sight (BVLOS) Communications
Real-Time Aircraft Command and Control (C2)
UAS and Payload Health Monitoring
Real-Time Flight Data Monitoring (FDM)
Video Streaming and Data Transmission
AI-capable Data Server with Virtual Machine Support
Unmanned Traffic Management (UTM)
Global Network-based Remote ID



# IRIDIUM ADVANTAGE LATENCY COMPARISON

- Over 20,000 mile differences between GEO and LEO satellite networks
- The distant orbit of GEO constellations result in high latency and slow response times
- LEO constellations enable low-latency connections for mission-critical command and control (C2) applications



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## VISION & MISSION

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Thank you

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