![inmarsat — The mobile satellite company]

Key benefits

1 High integrity position reporting to meet ICAO global flight tracking, airline flight following and air traffic control separation recommendations

2 Supports high quality conformance monitoring with assured access to high confidence aircraft performance data

3 Globally compatible with ICAO's Future Air Navigation System (FANS) supporting many of the evolving CNS/ATM (Communication, Navigation, Surveillance / Air Traffic Management) strategies and mandates

4 Fully interoperable technology pathway from Classic Aero to SwiftBroadband guaranteeing a long term roadmap for safety and investment strategies

5 Fully integrated with Aircraft Communications, Addressing and Reporting System (ACARS) messaging

6 Access to high quality, high speed broadband data to support the development of reliable safety and flight efficiency Electronic Flight Bag (EFB) applications

Classic & SwiftBroadband-Safety services
World-leading safety solutions

Inmarsat's Classic Aero portfolio has been used by the world's leading airlines, business jet operators, general aviation and government agencies for over 20 years.

We are the trusted provider of satellite communications services to the majority of the world's airlines and our services support varying functionality, coverage, equipment, installation and usage costs that all meet the high quality and reliability standards that our customers have come to expect.

Our Classic Aero H/H+ and Aero I services offer Aeronautical Mobile Satellite (Route) Service AMS(R)S communications that meet International Civil Aviation Organization (ICAO) requirements. These are now standard on the world's oceanic air routes and are now starting to be used to meet ICAO's global flight tracking requirements using Automatic Dependent Surveillance- Contract (ADS-C).

You can now use SwiftBroadband and our Classic Aero services concurrently through a single antenna – bringing you the ultimate in data and voice connectivity.

We continue to innovate with new offerings such as SwiftBroadband-Safety, enhanced to bring safety services and prioritised IP connectivity to the cockpit.

Aero H/H+

Aero H+ provides packet data rates of up to:

> 10.5 Kbps (Kilobits per second) for ACARS, FANS, ATN communications and circuit-switched data and fax services

> 9.6 Kbps per channel for multi-channel voice

The service is provided through a high gain antenna in the global beams of the I-3 and I-4 satellites. Applications include passenger, operational, administrative and safety communications.

Aero I

Aero I uses intermediate gain antennas and the I-3 regional beams, providing multi-channel voice and 4.8 Kbps circuit-switched data.
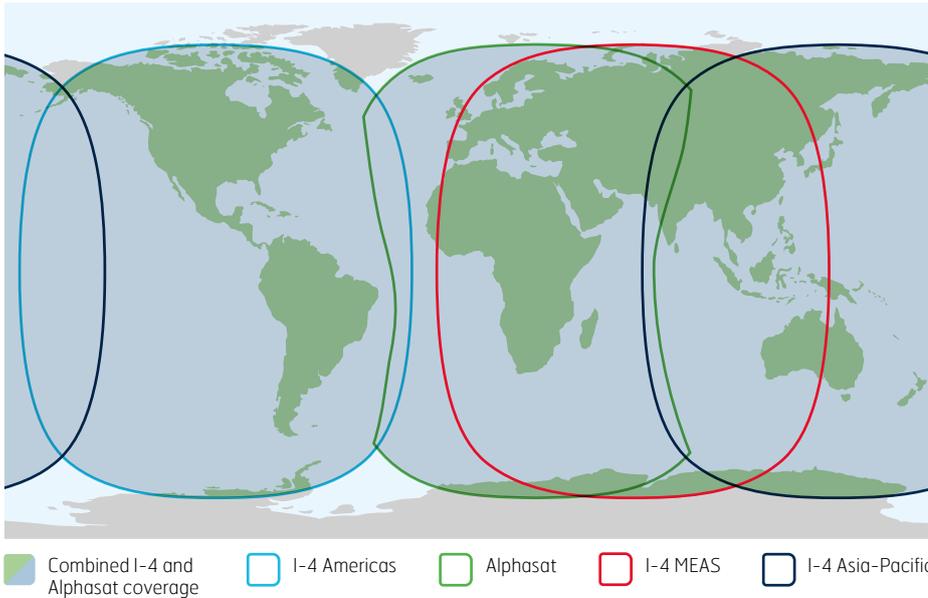
SwiftBroadband-Safety will be replacing Aero H and I over time and many users are already upgrading to this game changing technology.

SwiftBroadband-Safety Services

These new services bring the benefits of prioritised IP to the aircraft cockpit, enabling new applications such as an Electronic Flight Bag and integrated aircraft position reporting.
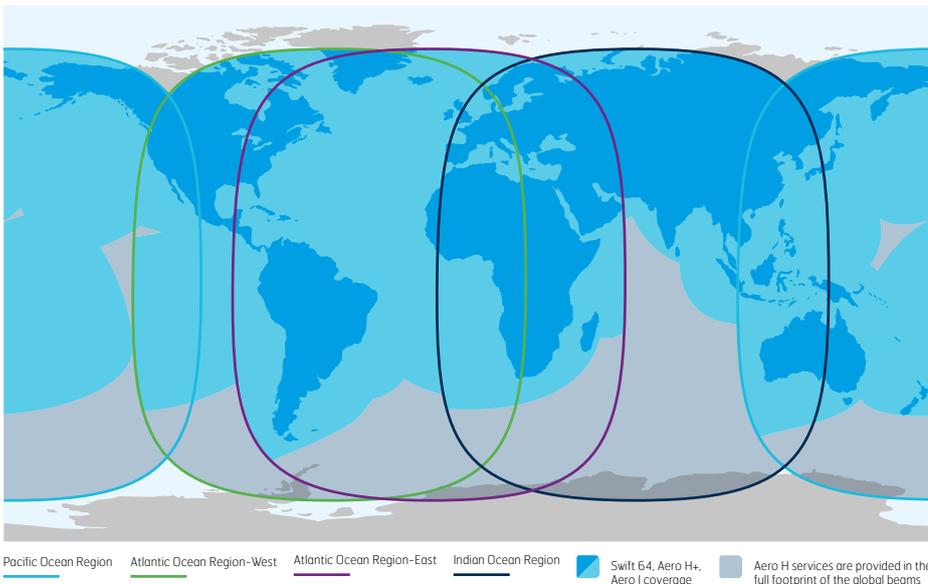
The SwiftBroadband-Safety FANS ACARS, CPDLC and ADS-C service is designed to meet the more stringent ICAO RCP240 requirement for oceanic airspace, and the voice service is built to meet the performance defined in the new ICAO SVGM. These new criteria enable reduced separation standards for aircraft operating in oceanic airspace, allowing increased airspace capacity and enhanced safety.

I-4 Classic Aero & SwiftBroadband-Safety services coverage

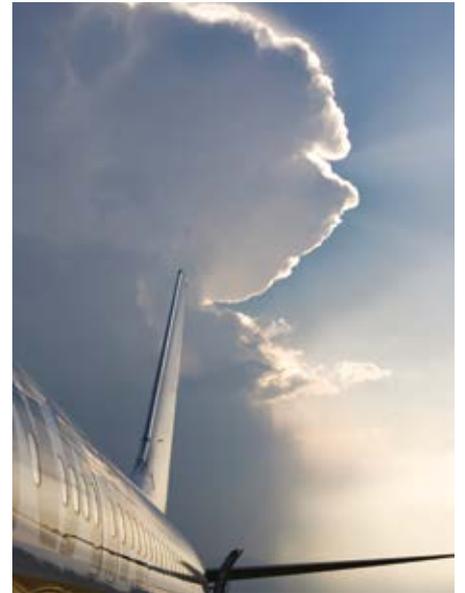|				
Combined I-4 and Alphasat coverage	I-4 Americas	Alphasat	I-4 MEAS	I-4 Asia-Pacific

This map depicts Inmarsat's expectations of coverage following the commercial introduction of Inmarsat's fourth L-band region. It does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions.

I-3 Classic Aero service coverage

Pacific Ocean Region	Atlantic Ocean Region-West	Atlantic Ocean Region-East	Indian Ocean Region	Swift 64, Aero H+, Aero I coverage	Aero H services are provided in the full footprint of the global beams

This map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions.

How to buy

For contact details of avionics manufacturers and service providers, see the 'Partner search' section at **inmarsat.com/aviation**

inmarsat.com/aviation