



INMARSAT AVIATION

POWERING GLOBAL CONNECTIVITY

Keeping you connected... in the skies

Wherever you travel, you expect to be connected at all times. The same applies to in-flight connectivity.

You want to make Facebook updates on your tablet, check emails on your phone, or even call family – whether you're flying over the Atlantic Ocean or the Sahara. And the quality should be the same: with a similar user experience, call clarity and capacity as you get on the ground.

High-speed, consistent, global airborne connectivity is now a reality thanks to Inmarsat's world-leading technology.

TAKING IN-FLIGHT CONNECTIVITY TO NEW HEIGHTS

The massive popularity of smartphones, tablets and other mobile devices has created a huge demand for in-flight connectivity among airline passengers. Recent research* shows that 82% of passengers bring a smartphone on board, 38% a laptop and 37% a tablet. Hence, there is a real need for Inmarsat's technology that enables passengers to stay connected – wherever they are in the world.

This technology leap in high-speed connectivity will also make flying safer and more efficient. By sending weather and aircraft maintenance information in real time, we can provide situational awareness on an unprecedented scale, finally unlocking the full potential of the next generation of aircraft. ▲



The most popular
'mobile' activities
are social
networking, news
and weather
updates

Our satellites offer
cabin connectivity
over more airline
routes than any
other provider



94%

of airline passengers brought at least one mobile device on board in the past year



150

times a day, on average, users check their mobile phone



Delivering cabin and cockpit solutions

Only Inmarsat provides connectivity for the whole aircraft – from certified safety communications (air traffic management) to high-speed broadband and even live TV in the cabin.

Our services include:

- GX Aviation – the next generation of global high-speed broadband connectivity
- SwiftBroadband – for global voice and data communications
- Our Classic Aero portfolio – certified for aviation safety services

A SEAMLESS SERVICE... WHEREVER YOU FLY

Our wholly owned and operated satellite and ground networks are designed and built specifically for mobile platforms, such as aircraft. We're the only satellite provider to operate two fully redundant constellations (the I-3 and I-4s), with a third (the I-5 series) set to enter global service in early 2015.

So, instead of a patchwork of connectivity stitched together by different satellite operators, we deliver a superior, global customer experience. As you fly across time zones, your passengers enjoy a continuous, uninterrupted service as traffic is handed seamlessly from one spot beam to another. Since we own and manage the entire network, service levels are consistently high wherever you fly.

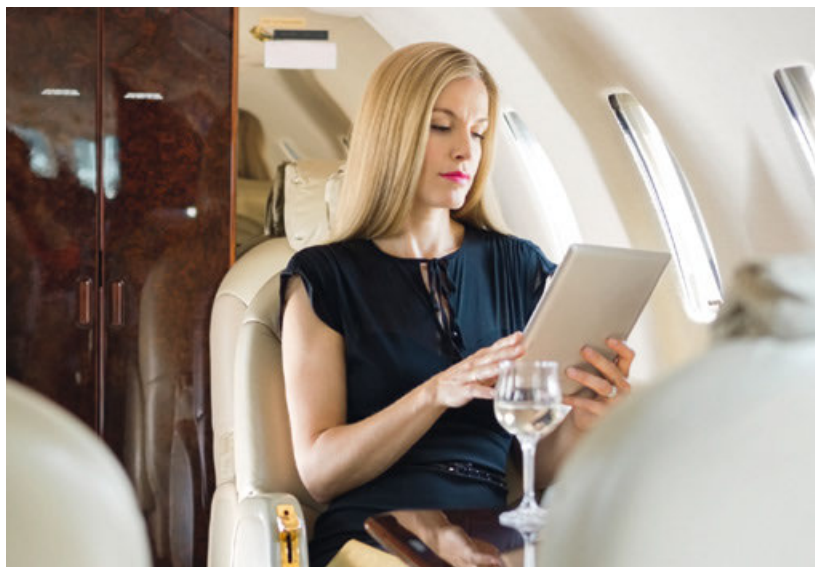
THE NEED FOR SPEED

Our new GX Aviation service provides the first truly global high-speed broadband in the skies – with up to 50Mbps (megabits per second). So you can expect similar download speeds, data rates and bandwidth when you're cruising at 35,000 ft or back on the ground. This opens up new possibilities for in-flight entertainment and high-speed Internet access. Your passengers can watch both live TV and TV on demand as well as streaming audio and video content.

GX Aviation uses Ka-band technology, which has far more capacity and efficiency than other networks. This means more affordable in-flight connectivity for aircraft operators. ▲

We are the
worldwide
reference for
certified satcom
safety services

We support on
average 80,000
Air Traffic Service
messages per day



Inmarsat – first for reliability

As the most experienced mobile satellite communications operator in the industry, we have delivered reliable global connectivity and safety services to more than 15,000 aircraft for over 20 years.

With the launch of the first Global Xpress satellite in December 2013, we now have 11 satellites operating

in four different, but complementary, networks. This delivers unparalleled redundancy and resilient connectivity use across the globe.

Through our worldwide network of partners, we can also provide timely, reliable, round-the-clock maintenance and IT support. ▲

Our safety services experience spans over 20 years of operations



Inmarsat – first for innovation

We have a strong track record in innovation and aviation firsts, including the world's first satellite-based safety services and global IP data connectivity (SwiftBroadband). We continue to push the boundaries with innovations across all of our networks. In November 2013, we launched the SwiftBroadband High Data Rate service, which delivers a step change in performance for customers requiring higher data throughput, with full channel streaming at up to 650 Kbps. Other developments include the launch of SwiftBroadband for the helicopter market and GX Aviation – the first global high-speed broadband for the skies.

We're always looking ahead to future technology developments that will enrich the passenger experience. Research* shows that up to 81% of consumers are using multiple media devices simultaneously to multitask and juggle different activities. The GX Aviation eco-system is designed to support such 'second screen' activities for a full aircraft at 35,000 feet.

Airlines and operators will continue their fast adoption

of tablets for pilot and crews to increase operational efficiency. Our connectivity solutions enable real-time weather updates and crew scheduling. Cabin crew could even use iPads to amend passenger bookings in the event of flight delays and update inventory lists in real time.

This will inevitably require greater bandwidth as mobile devices become ever more interactive and sophisticated. Our GX Aviation service offers upgradeable bandwidth, allowing you to adapt to changing requirements. ▲

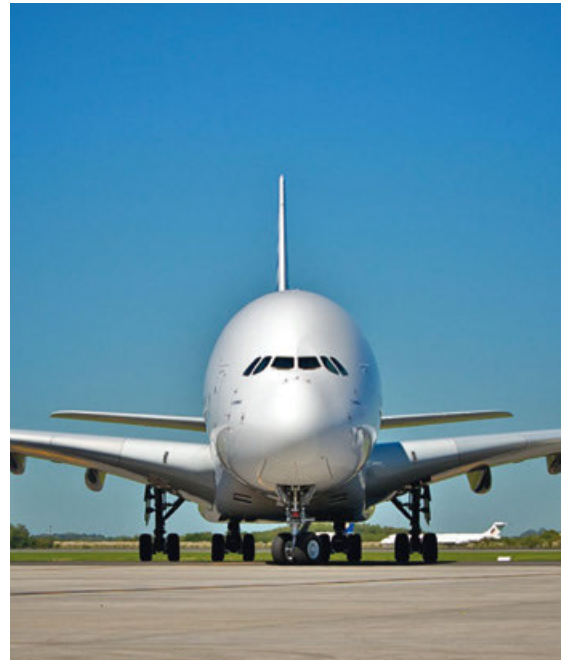
GX Aviation delivers the first global high-speed broadband for the skies

* 2012, Ipsos, Sterling & Brands and Google

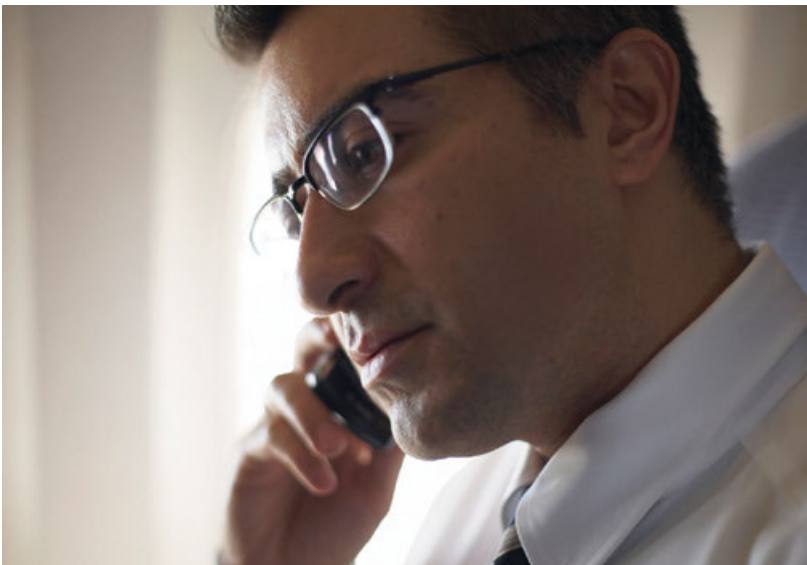
Scalable solutions

Inmarsat delivers scalable connectivity across the whole aircraft – from nose to tail. Our network solutions enable connectivity for safety, cockpit and cabin using the same low-cost, lightweight, high-speed equipment. Furthermore, since we own and operate the satellites and ground networks, we can meet future demands and increase capacity by deploying additional satellites as and when required. ▲

The robustness and reliability of our satellite network means we are relied upon by aid agencies



Investing in affordable technologies



We have invested heavily in new global services, such as SwiftBroadband Safety Services and GX Aviation. These enable a new generation of affordable and lighter equipment and innovative services such as live TV over high-speed networks.

Our avionic partners make available hardware systems that are line-fit and retro-fit offerable, with many options coming as standard fit on most new commercial aircraft and business jets – which will significantly reduce the time and cost of installation and integration.

Furthermore, with our state of the art ground networks, there are no expensive roaming charges. This means that our partners can offer competitive airtime packages, as well as novel applications and new solutions to meet your needs. ▲

Our services

Inmarsat's services vary in terms of functionality, coverage, equipment, speed and running costs. These are available in complementary sets to meet your precise requirements – over our L-band and Ka-band networks.

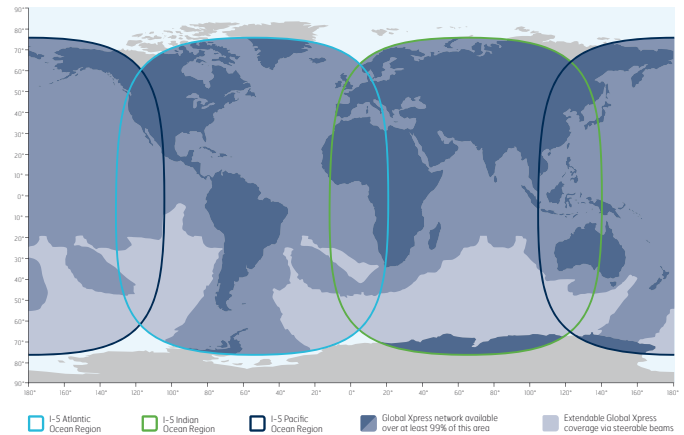
We work with a small network of trusted equipment providers, including Honeywell, Cobham, Rockwell Collins, Thales and Kymeta to deliver these world-leading services. ▲

L-BAND NETWORK

SwiftBroadband provides global IP data services with up to 432Kbps (kilobits per second) through the I-4 satellite constellation. The service operates via single or multi-channel systems, with up to four channels available per aircraft. SwiftBroadband can simultaneously deliver cockpit, cabin and passenger services, with separation to provide security. It continues to evolve to include safety services and High Data Rate services, which will almost double data speeds.

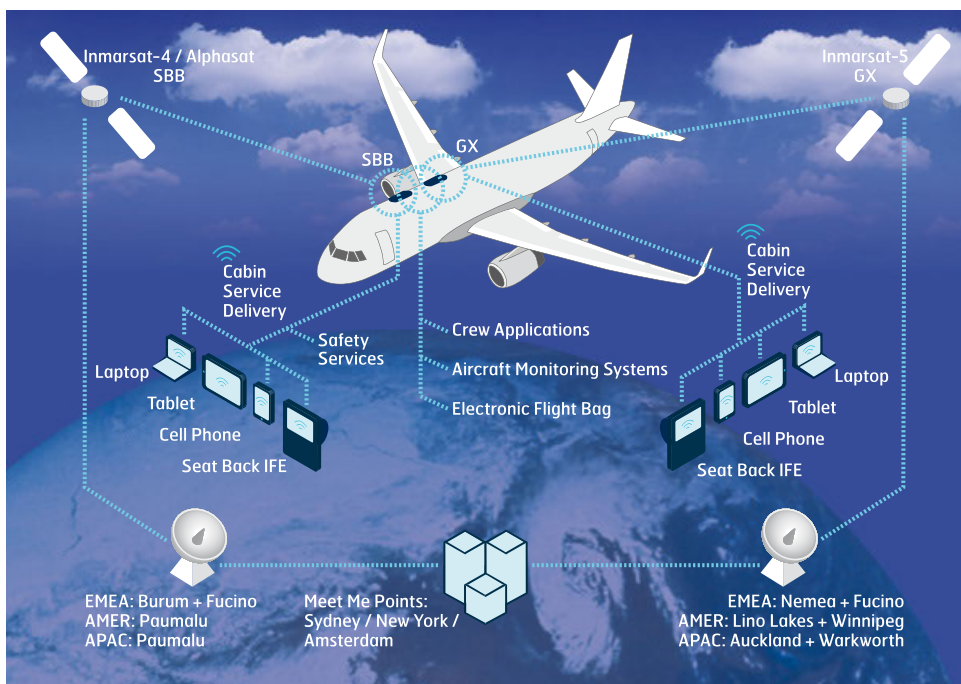
Swift64 provides high-quality voice communications and ISDN data services over the I-3 constellation. Up to four channels can be bonded together, providing 256 Kbps to the user. With acceleration and compression technologies, this can be increased significantly.

Classic: our Classic Aero Services have been in operation for more than 20 years. They provide the ideal connectivity, in terms of both capability and price, for cockpit voice and data services. The portfolio, which is certified for aviation safety services, provides consistent global coverage along with both SwiftBroadband and GX Aviation.



KA-BAND NETWORK

GX Aviation is our latest innovation, delivering high-speed broadband in the skies, up to 50Mbps. The service opens up new possibilities for in-flight entertainment, live TV and operational communications. GX Aviation, which will be delivered over our new generation of I-5 satellites, is scheduled to be available globally from 2015. ▲



We are the most widely used mobile satellite operator in the industry



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Are you ready for the
in-flight connectivity
revolution?
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please visit our website
or get in touch with
our team.

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