SwiftBroadband from Stratos

Simultaneous high-speed data and voice connectivity for aircraft
SwiftBroadband from Stratos is an aeronautical satellite service providing simultaneous high-speed data (up to 432 kbps) and voice connectivity. The service enables an impressive range of cockpit and cabin applications, including telephony, text messaging, email, Internet access, as well as flight plan, weather and chart updates.

SwiftBroadband uses the new generation of Inmarsat I-4 satellites. The result is a significant enhancement in both performance and capabilities. Worldwide coverage is available as from February 2009.

Key Features
- High-speed wireless IP data and circuit-switched network
- Shared capacity IP data rates up to 432 kbps
- Streaming IP data rates up to 128 kbps
- Familiar Swift64 standard 64 kbps ISDN and toll-quality circuit switched voice
- Up to two channels per aircraft for each installation
- Supports supplementary services: call hold/waiting/forwarding, SMS and voicemail
- Multi-user, remote-office capabilities
- Simultaneous voice and data traffic
- Optional guaranteed bandwidth
- Support for legacy applications and a platform for new IP-based solutions

Enhanced Benefits
SwiftBroadband offers significantly expanded bandwidth and capabilities compared to current generation aeronautical satellite services. Unique benefits include:

Higher Speed Data
High-speed data connections at speeds of up to 432 kbps. This is significantly faster than any other current aeronautical satellite services.

Streaming Data
Guaranteed data throughput of up to 128 kbps. Available on all SwiftBroadband terminals, streaming data offers enormous benefits for customers who need guaranteed, uninterrupted throughput, without contended service degradation.

Simultaneous Voice Service
4.8 kbps high-quality voice; operates simultaneously with data on a single SwiftBroadband terminal.

Smart Applications
SwiftBroadband is ideal for integrating aircraft into a corporate or operational command network. It will become the standard in a wide variety of markets:

Business Aviation
Modern business jets often serve as a work place and the communications need to equal those on the ground. SwiftBroadband allows corporate executives to make calls, email, access company networks, browse the Internet, transfer large files and conduct videoconferences from the aircraft.

Government and Military
High performance, secure and reliable remote communications services around the globe are non-negotiable for government and military authorities. SwiftBroadband provides reliable access to command and control information resources on the ground, facilitating situational awareness.

Air Transport
Airline passengers are increasingly reluctant to be ‘out of contact’ when onboard. SwiftBroadband allows calls to be made and email and Internet accessed. In addition, pilots can maintain direct contact with air traffic control, receive real-time weather information, access the most fuel-efficient oceanic flight paths, and transmit aircraft position and maintenance status to ground staff.
As a key distribution partner for SwiftBroadband, Stratos is committed to further enhancing efficiency and user friendliness. We add value in the following ways:

24x7 Customer Support
Stratos provides a single point-of-contact for all initial and ongoing service requirements. Our skilled customer service professionals are on call around the clock to assist with all SwiftBroadband networking and billing issues.

Stratos Dashboard™
SwiftBroadband from Stratos will be fully integrated into the Stratos Dashboard. This online system is particularly prized by customers for its fast provisioning, cost management and credit management functions. It also provides reporting options, detailed traffic management, billing and trouble shooting information.

Credit Watch Facilities
Monitor, manage and limit consumption per aircraft and per fleet.

Instant Online Self Provisioning
Review contracts and installed base via SwiftBroadband Dashboard. Provision and change your activations and service configurations online.

“As SwiftBroadband platform host, SwiftBroadband distribution partner and SwiftBroadband interconnect partner, Stratos is the first choice supplier of SwiftBroadband services.”

Hosting SwiftBroadband
Stratos is hosting Inmarsat’s primary BGAN Satellite Access Station at our earth station, which supports BGAN, SwiftBroadband, FleetBroadband and the Inmarsat Satellite Phone Service. We provide SwiftBroadband voice Interconnect services to carriers wishing to deliver the new SwiftBroadband services from their networks to Inmarsat destinations.
Getting Connected

The following is required to operate SwiftBroadband on an aircraft:

- SwiftBroadband Avionics + SCM SIM Card module
- Aircraft antenna capable of receiving SwiftBroadband
- Related equipment such as Diplexer, LNA, HPA and cabling
- An agreement with a Stratos SwiftBroadband Service Provider.

The actual installation path will depend upon individual circumstances and technical requirements:

New SwiftBroadband Installation on Aircraft
If an aircraft has no Inmarsat equipment installed, choose between SwiftBroadband-only avionics and avionics that provide classical aeronautical services and SwiftBroadband.

Upgrade SwiftBroadband-ready Avionics
Aircraft with recent Swift64 installations are SwiftBroadband-ready. Depending on the avionics, antenna and diplexer, a software upgrade, hardware upgrade or a combination of both will be required.

Upgrade Existing Inmarsat Equipment
When the installed avionics are not SwiftBroadband-ready, these will need to be replaced.

Complement Existing Inmarsat Installation
Aircraft already installed with classic aeronautical services can be complemented with the addition of stand-alone SwiftBroadband avionics. If the existing antenna fulfills SwiftBroadband’s technical requirements, it can be used for both services. A new antenna and diplexer might be required in some instances.

Manufacturers and OEMs
Avionics manufacturers have their own upgrade schedules for making SwiftBroadband avionics available. Aircraft OEMs also have their own timetables for certifying SwiftBroadband avionics on their airframes.

About Stratos
Stratos is the world’s trusted leader for vital communications. With more than a century of service, Stratos offers the most powerful and extensive portfolio of remote communications solutions including mobile and fixed satellite and microwave services. More than 20,000 customers use Stratos products and industry-leading value-added services to optimize communications performance. Stratos serves U.S. and international government, military, first responder, NGO, oil and gas, industrial, maritime, aeronautical, enterprise, and media users on seven continents and across the world’s oceans. For more information visit www.stratosglobal.com.

For more information please contact Stratos:
Toll Free (North America): 1 800 563 2255
Worldwide: +1 709 748 4226
TTY: +1 709 748 4884
Fax (Worldwide): +1 709 748 4320
Email: info@stratosglobal.com
Website: www.stratosglobal.com

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