Swift 64 is a circuit-switched, mobile ISDN service providing the same high quality and guaranteed speed as terrestrial ISDN. Higher bandwidth can be achieved by bonding up to four 64kbps channels together.

Swift 64 also offers a Mobile Packet Data Service (MPDS), which provides the economy and flexibility of ‘always-on’ packet data connections.

In addition, it provides a high quality voice service with the same functionality as land-based fixed phone services.

The end-user experience depends on the native performance of Swift 64, as well as any performance-enhancing technologies that are being used eg. data compression, IP and application optimisation.

**Features**

The Swift 64 service has the following features:

- Dedicated circuit-mode (mobile ISDN), packet-mode (MPDS) connections or high quality voice channels
- One, two or four-channel avionics
- 64kbps data throughput per ISDN channel
- Optional bonding of channels to yield up to 256kbps – can be increased further through data compression
- Three data formats: ISDN, Unrestricted Digital Information (UDI) and packet-data (TCP/IP)
- Standalone or simultaneous operation with Inmarsat Aero H/H+ through the same high-gain antenna
- Support for high-assurance applications, including NATO secret and NSA Type-1 encryption systems providing remote mobile access to classified networks – STU-III/IIb, STE, KIV-7, Brent and HAIPE devices including KG-175 TACLANE, KG-235 Sectéra, KG-250 Altasec, subject to verification testing
Applications
Swift 64 supports a wide range of crew and passenger applications:

Crew
- Voice communications
- Electronic Flight Bag (EFB), flight plan, weather and chart updates
- General operational planning
- Crew reporting and general administration

Passengers
- Telephony: in-seat, mobile, VoIP and text messaging
- Email, intranet, internet and instant messaging
- Secure VPN access
- Large file transfer – presentations, graphics, images
- Videoconferencing
- In-flight news updates

Requirements
The following is required to operate Swift 64:
- Swift 64 avionics – the satellite modem to access the service
- A high-gain aircraft antenna capable of receiving Swift 64 and related equipment e.g. Diplexer, LNA, HPA and cabling
- An agreement with a service provider

Aircraft without an Inmarsat system
For new aircraft, airframe manufacturers can advise if Swift 64 avionics are an option either as SFE or BFE. For aircraft already in use, Swift 64 avionics manufacturers can recommend equipment and advise on STC status.

Upgrading an existing Inmarsat installation
Users of Inmarsat classic services, such as Aero H/H+, can add Swift 64 to their installation depending on the equipment already installed on the aircraft.
Consultation with the relevant avionics and antenna manufacturers is necessary to establish the appropriate upgrade path for each particular aircraft configuration.

Coverage
Currently, Swift 64 uses the spot beams of the Inmarsat-3 (I-3) satellites and the I-4 AOR satellite. When the I-4 Americas satellite (formerly the I-4 AOR) is deactivated during the repositioning process, Swift 64 traffic in the AOR will be transferred permanently back to the I-3. At this time, Inmarsat will optimise the I-3 spot beam coverage in the AOR-W.

How to buy
Avionics/Antennas
Swift 64 avionics are offered by Chelton Satcom (avionics and antennas), Esterline/CMC (antennas), EMS Technologies (avionics and antennas), Honeywell (avionics), Rockwell Collins (avionics), TECOM Industries (antennas), Thales (avionics) and Thrane & Thrane (avionics).

Service provision
Aircraft operators must contract with an Inmarsat service provider. The service provider invoices for the service, either on a data volume or time basis, depending on the service used. Visit our website for contact details.

inmarsat.com/swift64
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