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## FACTSHEET

# STRATOS

## Summary of Services

### Vital Communications—Anywhere on Earth

In today's world, secure, reliable communications with your remote offices and operations across the globe are vital both to survival and to success. "Vital" communications—from vita, Latin for "life"—are those that are absolutely essential to the day-to-day life of your organization. These are communications you simply cannot take for granted. Too much is at stake.

When out of touch is out of the question, where do you turn?

With more than a century of innovation and the industry's most comprehensive portfolio of remote communication solutions, Stratos Global Corporation is the world's trusted leader in delivering vital voice, data and IP communications, no matter where on earth you do business.

### Scope of Offerings and Markets Served

With a history of successful growth and integration of leading global and regional providers, Stratos now offers the most extensive range of mobile and fixed satellite, microwave and wireless services - including Inmarsat, Iridium, Globalstar, HughesNet, MSAT, VSAT and others - to more than 20,000 customers on seven continents and across the world's oceans.

Stratos provides world-class products and services through our own offices worldwide, as well as through a global network of more than 400 authorized partners.

Government agencies, military forces, NGOs, first responders, and diverse markets such as aeronautical, energy and natural resources, media, maritime, construction/engineering, and recreational users trust Stratos to design, deploy and support their most essential communication systems.

### Services Portfolio

Inmarsat-A/-B/-C/mini-C/-E/-E+/Fleet/-H/-H+/-I/-L/-M/mini-M/GAN/R-BGAN/BGAN/Swift64/FleetBroadband/SwiftBroadband/Inmarsat Satellite Phone Services, Iridium<sup>®</sup>, Globalstar<sup>™</sup>, MSAT, StratosITek<sup>™</sup>, VSAT (very small aperture terminal), HughesNet<sup>™</sup>, C-Band, Microwave and CLEC (competitive local exchange carrier) solutions.

### 24-Hour Operations and Customer Care Center

Stratos has gained a reputation for superior customer service and support that includes:

- Operator assistance services such as credit card calls, directory assistance and dialing instructions
- Multi-lingual operator assistance through online translation services
- Technical support experts for both satellite equipment and services
- Manufacturer's authorized product support
- Advanced trouble-tracking system and escalation procedures for corrective measures
- Network operations, including expedited satellite terminal activation and deactivation
- Network monitoring to ensure the highest level of service
- Toll-free support within North America



## Worldwide Offices

**Australia:** Darwin, Morayfield, Perth, Sydney; **Brazil:** Niterói; **Canada:** Ottawa ON, St. John's NL; **Equatorial Guinea:** Malabo; **Germany:** Hameln; **Hong Kong:** Hong Kong; **India:** Mumbai; **Italy:** La Spezia; **Japan:** Tokyo; **Kenya:** Nairobi; **The Netherlands:** Burum, The Hague; **New Zealand:** Auckland; **Norway:** Lysaker; **Russia:** Moscow; **Singapore:** Singapore; **South Africa:** Cape Town; **Spain:** Madrid; **UAE:** Dubai; **United Kingdom:** London, Aberdeen; **United States:** Bethesda MD, Englewood CO, Houston TX, Lafayette LA, New Orleans LA, New York NY, Plantation FL, Seattle WA

## Network Infrastructure

Stratos either owns or operates satellite facilities around the world which include:

- **Aberdeen, Scotland** – satellite teleport (KU/C bands)
- **Auckland, NZ** – LES providing Inmarsat-A/-B/-C/-M/-mM/GAN/Fleet/Swift64 coverage for POR; carries 109 EAST, 143 EAST and 142 WEST leasing
- **Aussagel, France** – LES providing Inmarsat-H/-H+/-I coverage for AOR-E and AOR-W
- **Burum, Netherlands** – LES providing Inmarsat-A/-B/-C/-M/-mM/GAN/Fleet/Swift64 coverage for AOR-E, AOR-W and IOR; carries 25 EAST leasing; satellite teleport
- **Denver, CO, USA** – satellite teleport (Ku band)
- **Lafayette, LA, USA** – satellite and microwave teleport (KU/C bands); broadband customer care centre
- **Laurentides, PQ, Canada** - LES providing Inmarsat A coverage for AOR and carrying 98 WEST leasing; satellite teleport
- **Perth, Australia** – LES providing Inmarsat-A/-B/-C/-M/-mM/GAN/Fleet/Swift64-H/-H+/-I coverage for IOR and POR
- **St. John's, NL, Canada** - international operations and customer care center; satellite teleport (C band)

**StratosNexus™:** Stratos' comprehensive portfolio of industry-leading remote satellite and microwave-based remote communications solutions are backed by our global, IP-based StratosNexus backbone network, which provides seamless interconnectivity between all of Stratos' owned-and-operated satellite hubs. The robust, global StratosNexus network is an end-to-end, IP-based, integrated core platform that links and manages all traffic from our complete portfolio of current and next-generation solutions, including our advanced mobile satellite services, our StratosITek IP-based VSAT platform, and our enhanced, IP-based StratosMax broadband wireless access service in the Gulf of Mexico. Leveraging this unified core network, Stratos delivers a fully IP-enabled, global infrastructure capable of supporting nearly any IP-based connectivity solution, and providing all customers, regardless of technology platform, with seamless worldwide interconnectivity and access to a common suite of advanced value-added products and services, such as Voice-over-IP (VoIP), hosted applications, VPN, and flexible bandwidth options.

## CORE PRODUCT GROUPS

Stratos products and services are sub-divided into five key groups:

- Mobile Satellite Services
- Fixed Satellite Services
- Fixed Wireless Services
- Telecom Services
- Value-Added Services

### Mobile Satellite Services

Stratos' Mobile Satellite Services include the sale of airtime, equipment and engineering services for Stratos' Inmarsat and other mobile satellite operations. Mobile Satellite Services solutions include portable and semi-fixed terminals that offer complete office telecommunications functionality, including voice, fax and high-speed data (HSD) connectivity. Mobile Satellite Services allow clients to communicate virtually anywhere in the world and are most suited to customers requiring communication capabilities in areas beyond the reach of terrestrial communications.

**Inmarsat-A from Stratos:** The Inmarsat-A system provides two-way direct-dial phone connection, including high-quality voice, fax, telex, e-mail and data communications to and from anywhere in the world with the exception of the poles. It also provides distress communication capabilities. It is based on analogue technology and supports data rates up to 19.2 kbps depending on different elements of the end-to-end connection. Inmarsat A-HSD is a digital high-speed data service available as an option for Inmarsat A (terminal dependent). This is a dedicated channel supporting data speeds up to 64 kbps.

Applications: voice; fax; telex; e-mail; data; GMDSS

**Inmarsat-B from Stratos:** Inmarsat B is a digital service that provides two-way direct-dial phone connection, including high-quality voice, fax, telex, e-mail and data communications to and from anywhere in the world with the exception of the poles. It also provides distress communication capabilities. It is based on digital technology allowing for a high quality, reliable service while making more economical use of satellite. The service supports data rates up to 64 kbps.

Applications: data transfer; Internet; LAN and private network access; e-mail; fax; SMS; voice; crew calling; encryption; video-conferencing; store-and-forward video; remote monitoring; chart and weather updates; telemedicine; GMDSS

**Inmarsat Leased Services from Stratos:** Stratos provides dedicated, always-on, fixed cost space segment leasing services for traditional users via the Inmarsat's commercial constellation of geosynchronous satellites. Services available include Inmarsat B-HSD, Fleet F55/77-HSD, and Swift64-HSD.

Stratos also provides customized lease services via our Bandwidth Efficient Satellite Transport (BEST) and Enhanced Lease Service (ELS) offerings. These services operate via Inmarsat's lease constellation. Stratos is the only operator with facilities and installed equipment to access all 5 satellites of this constellation from our own earth stations. Both services result in greatly enhanced channel efficiencies resulting in enhanced bandwidth over a traditional Inmarsat channel.

The BEST solution allows for dynamic reallocation of bandwidth between vessels ranging from 8 kbps to 256 kbps via a Bandwidth Management Console server at each Land Earth Station or via a Remote User Interface (RUI). The Stratos ELS system is a customized, point to point private network from Stratos, Stratos ELS System is compatible with legacy cryptographic equipment currently in use by the worlds military, and often mandated for use on broadcast radio or satellite voice and data transmissions.

**Inmarsat-C from Stratos:** A two-way store-and-forward digital packet data service delivered via lightweight, low-cost terminals small enough to be fitted to any vessel, aircraft or vehicle. Messages are transmitted at 600 bps with a global coverage excluding the poles. Meeting the Global Maritime Distress and Safety System (GMDSS) and Ship Security Alert Systems (SSAS) requirements it is also ideal for distributing and collecting information from fleets of commercial vessels.

Applications: data transfer; e-mail; SMS, crew calling; telex; remote monitoring; tracking; chart and weather updates; maritime safety information (MSI); maritime security; GMDSS; and SafetyNET and FleetNET services.

**Inmarsat mini-C from Stratos:** Inmarsat mini-C offers the same primary functions as Inmarsat-C through a lower-power, more cost-effective terminal. It meets the requirements for Ship Security Alert Systems (SSAS).

Applications: data transfer; e-mail; SMS, remote monitoring; and tracking; maritime security

**Inmarsat-E/E+ from Stratos:** The Inmarsat-E emergency position indicating radio beacon (EPIRB) is a key element of GMDSS. Distress alerts are transmitted from the EPIRB when the unit floats free from a sinking vessel, or when activated manually, and are forwarded automatically to a Maritime Rescue Coordination Center. Inmarsat-E+ adds a key return channel to the EPIRB, which sends a confirmation to the seafarer that their alert has been received.

Applications: GMDSS

**Inmarsat-M from Stratos:** Inmarsat-M is a digital service that provides two-way direct-dial phone connection, including voice, fax and data communications to and from anywhere in the world with the exception of the poles. Voice and data is provided via channels supporting up to 4.8 kbps.

Applications: data transfer; fax; voice

**mini-M from Stratos:** mini-M provides digital voice, fax and data at speeds up to 4.8 kbps within the Inmarsat's spot beam coverage area (covering 98% of the world's landmass and all major shipping routes). Service is available for land, maritime and aeronautical requirements. Service is provided via small inexpensive units.

Applications: data transfer; e-mail; fax; voice; crew calling; encryption; telemedicine.

**GAN from Stratos:** M4 / GAN is a digital communications service for land-based customers that provides two-way direct-dial phone connection, including high-quality voice, fax, telex, e-mail and data communications within the Inmarsat's spot beam coverage area (covering 98% of the world's landmass. Services supported include voice (standard or high quality audio), fax, mobile packet data service (MPDS), as well as dedicated ISDN channels supporting data rates up to 64 kbps. Multiple ISDN channels can be bonded together to allow for higher transmission speeds. MPDS service allows users to stay connected for extended periods of time while only paying for data sent and received.

Applications: live videoconferencing; data transfer, particular large volume data files; Internet access; email; fax; voice to broadcast quality; encryption; web browsing; LAN and private network access; encryption

**Fleet F77 from Stratos:** Fleet F77 is a maritime digital communications that provides two-way direct-dial phone connection, including high-quality voice, fax, telex, e-mail and data communications to and from anywhere in the world with the exception of the poles. Ideally suited for larger trans-ocean vessels, services supported include voice (standard or high quality audio), fax, mobile packet data service (MPDS), as well as dedicated ISDN channels supporting data rates up to 128 kbps. Fleet's MPDS service allows users to stay connected for extended periods of time while only paying for data sent and received. The service also meets the latest distress and safety requirements as specified by the International Maritime Organization (IMO) for voice pre-emption and prioritization within the Global Maritime Distress and Safety System (GMDSS).

Applications: data transfer; Internet; LAN and private network access; e-mail; fax; instant messaging; SMS; voice; crew calling; encryption; video-conferencing; store-and-forward video; remote monitoring; chart and weather updates; telemedicine; GMDSS

**Fleet F55 from Stratos:** Fleet F55 is a maritime digital communications that provides two-way direct-dial phone connection, including high-quality voice, fax, telex, e-mail and data communications. Voice service is available globally, with the exception of the poles. Data services are available via spot-beams covering all major maritime routes. Services supported include voice (standard or high quality audio), fax, mobile packet data service (MPDS), as well as dedicated ISDN channels supporting data rates up to 64 kbps. Fleet's MPDS service allows users to stay connected for extended periods of time while only paying for data sent and received.

Applications: data transfer; Internet; LAN and private network access; e-mail; fax; instant messaging; SMS; voice; crew calling; encryption; videoconferencing; store-and-forward video; remote monitoring; chart and weather updates; telemedicine

**Fleet F33 from Stratos:** Fleet F33 is a maritime digital communications that provides two-way direct-dial phone connection, including high-quality voice, fax, telex, e-mail and data communications. Voice service is available

globally, with the exception of the poles. Data services are available via spot-beams covering all major maritime routes. Services supported include voice, fax, and mobile packet data service. Fleet's MPDS service allows users to stay connected for extended periods of time while only paying for data sent and received.

Applications: data transfer; Internet; LAN and private network access; e-mail; fax; instant messaging; SMS; voice; crew calling; encryption; store-and-forward video; remote monitoring; chart and weather updates; telemedicine

**FleetBroadband from Stratos:** FleetBroadband from Stratos is the first high-speed, mobile data network that will offer seamless worldwide coverage in combination with small antenna equipment. FleetBroadband will provide you and your staff with easy-to-use, fast and reliable access to always on e-mail, Internet, corporate network and voice services, regardless of your vessel's location. Reliable, cost effective broadband maritime communications via the network you know and trust.

Applications: surveillance, coordinate and track ships movements and receiving weather reports, secure access the Internet or company intranet

**R-BGAN from Stratos:** RBGAN provides GPRS based packet data communications via light-weight, notebook-sized modems over a shared 144 kbps channels. Operating over the latest-generation Inmarsat I-4 satellites R-BGAN from Stratos features reliable, always-on data speeds up to 144 kbps, extended coverage in 155 countries throughout Europe, Africa, the Middle East and Asia, cost-effective service rates based on data sent and received, with no per-minute charges. The modem features industry-standard, plug-and-play operation via USB, Ethernet or Bluetooth connections.

Applications: Internet access; e-mail; LANs and private networks; store-and-forward video; data transfer

**BGAN from Stratos:** Operating over the latest-generation Inmarsat I-4 satellites BGAN is the world's first mobile communications service of any kind to provide both voice and broadband data simultaneously through a single, truly portable device on a global basis. It is also the first mobile communications service to offer guaranteed data rates on demand. BGAN offers standard IP service with speeds up to 492 kbps, streaming IP service with guaranteed service rates from 32 to 256 kbps, circuit switched voice, and 64 kbps ISDN service. Service is provided via a range of small, highly portable, low-cost terminals. To complement the BGAN service, Stratos offers Dashboard services allowing users to monitor traffic, bar and unbar SIMs and activate and deactivate terminals. In addition the Trench feature provides a personal firewall between the Internet and the BGAN network.

Applications: Internet access; e-mail; LANs and private networks; store-and-forward video; streaming video; data transfer; simultaneous voice and data

**Swift64 from Stratos:** The latest generation aeronautical solution from Inmarsat, Swift64 is based on Inmarsat's Global Area Network (GAN) technology. Swift64 offers Mobile ISDN and IP-based Mobile Packet Data Service (MPDS) connectivity at a basic rate of 64 kbps to support high-quality voice, fax and data communications for air transport, corporate and VIP, and government users.

Applications: live videoconferencing; data transfer, particular large volume data files; Internet access; email; fax; voice to broadcast quality; encryption; web browsing; LAN and private network access; encryption.

**SwiftBroadband from Stratos:** SwiftBroadband from Stratos is the aeronautical version of Inmarsat's successful Broadband Global Area Network (BGAN) service providing cost-effective, high-speed data and voice communications – available simultaneously – at speeds up to 432kbps. It also provides on-demand guaranteed IP data rates, regardless of the aircraft's location.

Applications: voice calling, email, access company networks, browse the internet, transfer large files and conduct videoconferences from the aircraft

**Aero-H from Stratos:** Inmarsat Aero-H is a digital service that provides two-way direct-dial phone connection, including voice, fax and data communications to and from anywhere in the world with the exception of the poles. Service is provided via channels supporting simultaneous voice calls, fax, and packet mode data at up to 9.6 kbps.



Applications: data transfer; e-mail; fax; voice; encryption

**Aero-H+ from Stratos:** Inmarsat Aero-H+ is a digital service that provides two-way direct-dial phone connection, including voice, fax and data communications via Inmarsat's spot beam coverage (98% of the world's land mass and the world's most frequented long-distance air routes.) Service is provided via channels supporting simultaneous voice calls, fax, and packet mode data at up to 9.6 kbps.

Applications: data transfer; e-mail; fax; voice; encryption

**Aero-I from Stratos:** Inmarsat Aero-I is a digital service that provides two-way direct-dial phone connection, including voice, fax and data communications via Inmarsat's spot beam coverage (98% of the world's land mass and the world's most frequented long-distance air routes.) Service is provided via channels supporting simultaneous voice calls, fax, and packet mode data at up to 9.6 kbps.

Applications: data transfer; e-mail; fax; voice; encryption

**Aero-L from Stratos:** Aero L provides airline and government operators with worldwide real-time, two-way data communications, principally to support air traffic control and operations management applications. The service provides real-time, two-way data at 600 to 1,200 bps

Applications: data transfer; telex; remote monitoring; tracking

**Inmarsat Satellite Phone Services from Stratos:** Inmarsat Satellite Phone Services offer high quality voice and data at 2.4 kbps via small and affordable equipment and attractive postpaid and prepaid calling rates. ISPS has three key variants for portable, fixed-land and marine usage, all delivered over the I-4 satellite network.

Applications: global voice requirements, village phone communications/applications, voice-only maritime requirements

**Iridium from Stratos:** Stratos is the leading global provider of Iridium satellite services. Iridium handheld phones weigh less than one pound and provide global coverage through a constellation of 66 low-earth-orbiting satellites, allowing customers to make and receive calls virtually anywhere in the world, needing only a clear line of sight to the sky. Iridium paging services can both stand-alone or complement other satellite services. Iridium also offers flexible billing and flat rates for calls from anywhere to anywhere in the world. Services supported include global voice, circuit-switched data, SMS and paging services, short burst data and SIM cards, allowing shared use with individual billing.

Applications: data transfer; e-mail; voice; crew calling

**Globalstar from Stratos:** Through Globalstar's Low-Earth-Orbiting (LEO) satellites and digital satellite communications system, Stratos offers cost-effective and reliable telephony and telecommunications services, such as digital voice communication, short message service (SMS) and voicemail service (VMS). Currently, Globalstar coverage includes 120 countries all over the globe. Other services include voice mail, call forwarding, fax and data at 9.6 kbps.

Applications: data transfer; e-mail; voice; crew calling

**MSAT (MSV) from Stratos:** Stratos provides regional MSAT (MSV) satellite services within North America, Central America, the Caribbean and hundreds of miles of surrounding waters. The service offers cost-effective voice, fax and data capabilities at 4.8 kbps via portable, fixed-site, and marine terminals. MSAT Satellite Dispatch service provides a two-way, voice-based communication tool that allows dependable, real-time radio functionality between individuals, selected groups (e.g. talkgroups) or entire fleets of up to 10,000 users.

Applications: data transfer; voice; crew calling; dispatch

**Skyphone from Stratos:** Stratos Skyphone provides airlines with a mobile roaming platform that integrates GSM with onboard satellite communications technology, facilitating true global mobility for the international traveler.



Stratos Skyphone offers a complete portfolio of services for the airline industry which is second to none and which includes the following:

- Onboard Email
- Voice Communications
- Data Communications
- Card Services
- Support and Technical Support Services

### Fixed Satellite Services

Fixed Satellite Services include the sale of airtime, equipment and services for Stratos' VSAT satellite solutions. Fixed satellite, broadband products are designed to deliver integrated voice, fax and high-speed data communications between fixed remote site and land-based offices.

**StratosITek™ from Stratos:** StratosITek supports a range of communications solutions, including Voice-over-IP, file and database server access, Internet, video conferencing, and e-mail. The system uses iDirect Technologies' broadband IP solution and is designed to offer a cost effective solution for small to large enterprise users.

The StratosITek network is based on a robust, IP-optimized platform that is field-proven throughout the world. A typical remote site is equipped with a satellite antenna and associated radio equipment for two-way send and receive communications, as well as an indoor unit that connects seamlessly to a customer's PCs on a LAN using a standard Ethernet interface. A number of remote site configurations are available in three basic categories:

**Fixed-site Land:** for permanent or semi-permanent installations. Antennas are typically 1.2 to 2.4 meters and are installed with wall, post or non-penetrating roof mounts.

**Transportable Land:** available in three categories: trailer, flyaway and auto-acquire. Trailer mounts feature a satellite dish pre-mounted on a single-axel tow-hitch trailer, and include a GPS and Stratos antenna pointing assembly that allows users to be up and running in approximately 15 minutes. Flyaway terminals are designed for repeated assembly and disassembly, breaking down for transport into lightweight cases and taking approximately 30 minutes to setup. Auto-acquire terminals are designed for emergency situations when time is of the essence, mounting on light trucks or SUVs and automatically deploying and acquiring the satellite within a few minutes of activation.

**Maritime:** ideally suited for moving platforms, such as ships, barges, yachts, and other vessels. Maritime terminals compensate for the pitch, roll and yaw of the vessel, allowing the system to track the satellite while underway with no degradation in service.

**VSAT from Stratos:** Stratos' customers frequently conduct business operations in remote locations and need a reliable data network to monitor and control their assets. Transmitting this information to and from remote sites is possible with VSAT (very small aperture terminals), which operate where other communications options may not be available or cost-effective. Stratos delivers VSAT solutions to meet every need from voice/fax up to video and high-speed Internet.

Features:

- Fully scalable networks – starting from two remote sites
- Specialization in SCADA (supervisory control and data acquisition) applications for data collection and monitoring of remote customer assets
- Networks suitable for video event monitoring, automated meter reading, SCADA, LAN interworking, point-of-sale transactions, batch/file transfer
- Customized SCADA-SAT terminals supporting ASYNC, X.25 and TCP/IP protocols
- 24-hour proactive network monitoring ensures high network availability

**HughesNet™ from Stratos:** HughesNet provides government, business, media, and other customers a cost-effective, secure and reliable solution for high-speed connectivity in remote areas where services such as DSL and cable broadband are unavailable. HughesNet also complements existing land-based and satellite networks by



providing a facilities independent back-up solution for continuity of operations, homeland security and emergency communications.

HughesNet delivers a two-way, always-on satellite connection for Internet access and other IP-based applications, such as streaming video, distance learning/training, and intranet/extranet access, to almost any location, with no need for a telephone line or other land-based infrastructure. And, unlike some satellite services, HughesNet offers unlimited usage for a fixed monthly fee – no per-minute or per-megabyte download charges.

Applications: High-speed Internet, intranet and extranet access; Corporate training and eLearning; Real-time multimedia streaming to the desktop; Content distribution; Corporate-wide enterprise resource planning; Traditional enterprise uses, such as software upgrades, e-mail, and other client/server applications; IP multicast, unicast and broadcast applications.

**C-band Point-to-Point Digital Satellite Services from Stratos:** Using C-band satellite technology, Stratos provides dedicated point-to-point connectivity between remote locations and headquarters offices using satellite-based Frame Relay connections. Data and voice traffic is carried by C-band satellite from the remote site to a Stratos hub facility, which has a dedicated terrestrial connection to the customer's home office or headquarters. Primary applications include full-service remote voice and data communications for major industrial construction and engineering sites.

### Fixed Wireless Services

Energy operators in the Gulf of Mexico have access to cost-effective and reliable voice, data, video, computer networks and Internet through Stratos' state-of-the-art digital microwave system. The Stratos digital microwave network reaches from Port Mansfield, TX, to the coast of Alabama and southward into the deepwater sites in the Gulf of Mexico.

**Digital Microwave Services from Stratos:** Stratos' range of last mile products makes it easy to connect rigs or platforms with digital microwave infrastructure. Reliability is further enhanced using nested-ring configurations, ATM (asynchronous transfer mode) technology and innovative systems that ensure remote monitoring from several onshore offices located across the Gulf Coast. Stratos uses ATM and SONET digital microwave to cover nearly all "on the shelf" producing regions throughout the Gulf of Mexico.

Engineering Integration Services (EIS): Stratos EIS Team services a wide range of customers from the energy industry, maritime, heavy construction, governmental organizations and telecom carrier groups.

Services include:

- User and Site Surveys
- Pre-Bid Estimates
- Specification Writing/Bid Preparation
- Bid Evaluation
- Equipment Specification / Detail System Design
- Performance Analysis
- Documentation/CAD
- Buildup and Testing
- Installation and Integration
- Test Procedures
- Operating Procedures and Manuals
- User Training
- Government Acceptance and Licensing
- Site Identification and Acquisition
- Project Planning, Execution and Management

**StratosMax:** StratosMax is a next-generation broadband wireless solution for your most demanding remote communication needs, backed by the most extensive microwave network infrastructure in the entire Gulf of Mexico. No other communications service provider in the region has as many existing backbone sites. Similar to broadband WiFi technology (based on existing 802.11 standards) used to create short-range wireless "hotpots" in homes and commercial locations onshore, StratosMax leverages emerging WIMAX technology (based on 802.16 standards, still under development) to create an enterprise-wide area network for longrange offshore



communications. Unlike open wireless networks, however, StratosMax provides managed access to both public and private networks.

Applications: Complete remote-office communications; IP-based data connectivity up to 50 mbps (in duplex mode); Toll-quality voice and fax service, including Voice-over-IP (VoIP); Secure Virtual Private Network (VPN) access and encryption; Real-time file transfer and video conferencing; Variable Quality of Service (QoS) options

### **Telecom Services**

In addition to being a global leader in remote satellite communications, Stratos is also a regional, facility-based, competitive local exchange carrier (CLEC) covering the Gulf of Mexico markets of Houston, New Orleans and Lafayette, LA. Stratos solutions transform complex technologies into cost-effective, easy-to-use, integrated communication choices. Giving businesses a competitive edge, with Stratos' telecom services provide telephone systems, network services, Internet and data access from one provider, offering convenience and reliability in managing today's communications needs.

#### **Local Services**

- Local dial tone designed for today's business environment
- Complete business features including voice messaging, call forwarding, three-way conferencing, call transferring,
- caller ID, and call waiting
- Complete PBX trunk features like Direct Inward Dialling (DID) and line hunting
- Operator services, including directory assistance

#### **Long Distance Services**

- Competitive outbound domestic and international long distance rates
- Toll-free inbound calling services
- Audio conferencing services
- Calling card services
- Business Internet Services

#### **Business Internet Services**

- High-speed Internet access
- Web hosting solutions
- Managed e-mail solutions
- Data Network Solutions

#### **Data Network Solutions**

- Frame Relay
- Private Line
- VPN
- International private lines from the United Kingdom to Louisiana and Southeast Texas

#### **Business Telephone Systems**

- NEC Key and PBX systems of all sizes
- Northern Telecom PBX systems
- Purchase, lease or completely managed systems



## Value-Added Services

Building on more than 10 years experience in mobile satellite services, Stratos has developed a number of unique value-added data and voice solutions to complement its core satellite service offerings.

## Post-Paid Services

**Stratos Dashboard™:** To monitor and control costs, our extensive online customer care Dashboard provides real-time information on the amount of traffic used for voice and data, and the associated costs.

- **Credit Watch Facilities** – Customers can monitor, manage and limit the consumption per SIM as well as per groups of SIMs.
- **Instant Online Self Provisioning** – Dashboard also gives customers the means to review their contracts and installed base, as well as the ability to instantly activate, de-activate and change service configurations.

**Stratos Trench™ (Customer Managed Firewall)** – Trench is a personal firewall between the internet and the BGAN/FBB/SBB network. (Web) traffic and applications can be authorized or blocked via a user-friendly online interface.

**AmosConnect™ from Stratos:** AmosConnect is a specialized maritime messaging and information service based around a secure network of servers within Stratos' Satellite Earth Station infrastructure. AmosConnect's central messaging hub is fully integrated with our Global Inmarsat Network and has also been designed for expansion into all future Stratos services and networks. This state-of-the-art messaging technology provides you with a mailbox that supports e-mail, fax, telex, data, video and file attachments. AmosConnect incorporates high-level compression as well as duplex transmission and mid-point transmission recovery as just a few of the cost-saving features for end customers. The application, which is used with all Inmarsat digital services, also allows for subscription to information services such as news, weather and sports.

**AmosConnect™ Crew from Stratos:** AmosConnect Crew is the all-in-one crew communication solution offering email, SMS and voice service from one prepaid card. Running separately from the business communications on board vessels, AmosConnect Crew allows ship managers to offer their crews access to high-end mobile connectivity while removing all administration hassles. Vessels can upgrade to a low-cost version that allows free e-mail for crew.

**Stratos 2-Stage Access:** StratosConnect is a fixed-to-mobile calling service designed to provide flexible billing for all satellite calls, and to lower long distance costs for calls to Inmarsat and Iridium phones. Traditionally, long distance carriers have charged significantly higher rates per minute for placing calls to satellite phones when compared with costs via the StratosConnect service.

**StratosGateway:** StratosGateway is the latest offering from Stratos which provides many convenient online tools for Call Data retrieval and Traffic Analysis as well as provide the latest product information. Users login to StratosGateway directly from the Stratos public website and can view call data for their own terminals, as all users are automatically configured such that any user can view only their own terminals. Users can create additional users within their group and can assign varying degrees of access at their discretion. In addition to the ability to view and download call data records for Inmarsat B, M, mini-M, Fleet, GAN, BGAN and Swift64, users can setup rate cards for credit management and submit activation requests online, for terminals as well as prepaid calling. Many new features are both being developed and are planned for the near future.

**Secure Interworking Function (SIWF):** SIWF technology allows Stratos to provide customers, in particular government agencies and the U.S. military, with the ability to transport encrypted voice and data communications using digital Inmarsat satellite services. As the exclusive provider of SIWF technology, only Stratos can offer reliable transportation of secure communications, including military-standard STU-III and STU-IIB communications, using Inmarsat at speeds up to 9.6 kbps, double the speed that any of Stratos' competitors can offer. Additionally, only Stratos can offer transport of STU-III and STU-IIB communications through its full menu of Inmarsat services.

**Stratos C E-Mail:** This service provides two-way messaging between Internet e-mail and Inmarsat-C. C E-mail allows registered shore-side customers around the world to exchange messages with Inmarsat-C through any e-mail software or service. Onboard a vessel, any existing Inmarsat-C terminal can send and receive messages to and from Internet e-mail addresses onshore.

Customer benefits:

- No additional hardware, software or crew training required
- Integration of shore and ship operations
- One low price, worldwide

**StratosNet®:** StratosNet is an integrated Internet service for mobile satellite users optimized for cost-effective communications through Inmarsat, Iridium and MSAT (MSV) satellite networks. Unlike conventional Internet Service Providers (ISPs) designed to handle standard terrestrial modem speeds, Stratos has tailored its service to the mobile satellite user, automatically accommodating speeds from mini-M 2400 bps up to Fleet 128 kbps. StratosNet offers built-in compression in conjunction with web access, Internet e-mail and file transfer protocol (FTP) capabilities. Advantages include:

- Optimization for satellite data speeds of 2.4, 4.8, 9.6 kbps and higher
- Compression offering more than an 80% reduction in bytes transmitted
- Stratos' unique multi-mode message waiting notification
- Works with standard Internet applications
- Capability of downloading header information lets users download only messages they want to read

**Stratos Netted Voice:** Stratos Netted Voice is a push-to-talk netted communications solution for use over satellite communications available exclusively from Stratos. Netted Voice is a unique solution that enables the user to talk instantly to pre-defined open groups of users or provide a guaranteed delivery push to talk service with a single button press. Using leading edge Voice over Internet Protocols (VoIP) Stratos Netted Voice provides users a flexible solution that is modular and easily deployed over fixed or satellite networks. In addition FleetChat requires only a single Ethernet port per user and has a high level of built in and network resilience. Stratos Netted Voice is a highly cost effective solution able to be expanded as the need requires and is capable of supporting 1000's of users.

**Stratos SecureComms:** Stratos SecureComms is the most complete and flexible MSS Voice over IP (VoIP) solution for the Government market. Providing high quality, low bandwidth, clear and secure voice over true VoIP standards, the state of the art SecureComms Service supports both IP networks and traditional TDM/serial data networks, allowing for the seamless integration of VoIP with legacy voice infrastructures. The service is ideally suited for:

- Government agencies that require instant multiple secure voice lines along with data when establishing a remote office
- Disaster Recovery and Relief Agencies that require instant multiple voice lines in areas where terrestrial and cellular networks have been disrupted
- Government customers that require backup voice calling capability in their Continuity of Operations Planning (COOP)

**Stratos Connect Messaging:** The Connect Messaging services enable users to send shore-to-ship messages by E-mail (MailConnect), from a webpage (WebConnect) or via telex (TelexConnect) in a convenient and cost effective way. The platform converts the message sent from the office on shore into the preferred format on board of the ship: E-mail, Inmarsat-C, Fax or Telex.

**StratosiWare™:** StratosiWare is a scalable, Internet-based remote SCADA monitoring service engineered to your specific needs. At any desired polling interval, Stratos iWare automatically interrogates your SCADA field devices, transmits data via satellite, radio or microwave across our global StratosNexus telecommunications infrastructure to Stratos Data Centers around the world.

**Traffic and Billing Explorer:** Traffic and Billing Explorer (TaB) allows customers to monitor their Stratos traffic in great detail, both in terms of usage and cost. TaB also provides customers with the means to flexibly price their traffic for internal cost control or rebilling purposes.

**StratosConsole™:** StratosConsole is a web-based monitoring system that allows customers to proactively monitor the status of their remote sites 24/7. An enhanced SNMP (Simple Network Management Protocol) tool, StratosConsole allows clients, from any web browser, to measure, record, and monitor the performance of traffic flowing through various active devices at a remote site. These devices typically include modems, routers, switches, and other terminal equipment. StratosConsole is available globally for all Microwave, VSAT and StratosMax services.

**GSM Oceanwide™:** GSM Oceanwide is the only global service that allows your crew to use their own GSM phone in deep sea waters via the Inmarsat satellites. The service allows crewmembers to make phone calls and send SMS messages from any location on board the vessel - inside or outside. GSM Oceanwide also provides reliable voice connectivity, enabling ship managers to quickly contact merchant maritime officers.

### Prepaid Services

**Stratos ChatCard™:** Stratos ChatCards offer the best rate for CrewCalling on Inmarsat digital services - the most predominant satellite phones in the industry today. Prepaid Calling Cards are available in several denominations, to meet any requirement - 250, 500 and 750 units. There is no charge for holding time, no per-call connect fee and no charge at all if the called party does not answer.

With the Stratos Family Time plan, you get 67% more talk time compared to weekday calling from a Inmarsat-B/-m/mini-M and Fleet call. As well, all rates are global, so it doesn't matter which country you are calling - you still receive the lowest rates available. Stratos Prepaid Calling Cards can also be used on Inmarsat-A, Iridium and MSAT (MSV) phones, as well as for shore-to-ship calls, so you need just one card for all your CrewCalling activities.

**mini-M Prepaid:** For Inmarsat mini-M, Stratos provide a truly seamless prepaid airtime service, allowing standard Inmarsat mini-m dialing procedures of 00 plus number, when placing a call. Talk time will automatically be deducted from the prepaid amount in the prepaid platform. Account balance information is announced on every call placed, to assist in managing usage and the re-ordering of additional prepaid minutes.

In addition to being an effective management tool, the Stratos mini-M Seamless Prepaid Airtime service has many other benefits:

- It supports voice, fax, and data under one account. All of the primary and secondary IMNs (voice2, fax, data) associated with a terminal or SIM card are covered on a single account.
- No additional account numbers are required. The terminal IMN or SIM is the account identifier.
- No short codes to dial, no PINs, no special software or hardware is needed, and no additional training is required.
- Simply dial as per normal procedures

**Stratos Prepaid Messaging:** Stratos Prepaid Messaging is a messaging service which allows users to send emails from any email address and short messages (SMS) from any GSM phone served by our roaming partners, through an SPnumber (Stratos Prepaid Number).

### For more information please contact Stratos:

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