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Introducing Inmarsat



About Inmarsat

The mobile satellite company™

➔ Inmarsat has stood at the forefront of the mobile satellite services industry for 30 years. We have unique, unrivalled experience in designing and operating satellite communications networks. We are internationally recognised as pioneers in our field and continue to introduce new technologies that redefine the standard for our industry.

The Inmarsat name is synonymous with reliable, secure, global mobile satellite communications. We offer a complete portfolio of mobile voice and data services to almost anywhere on the planet, whether on land, at sea or in the air.

Our customers include major corporations from the maritime, media, oil and gas, construction and aeronautical industries, as well as governments and aid agencies.

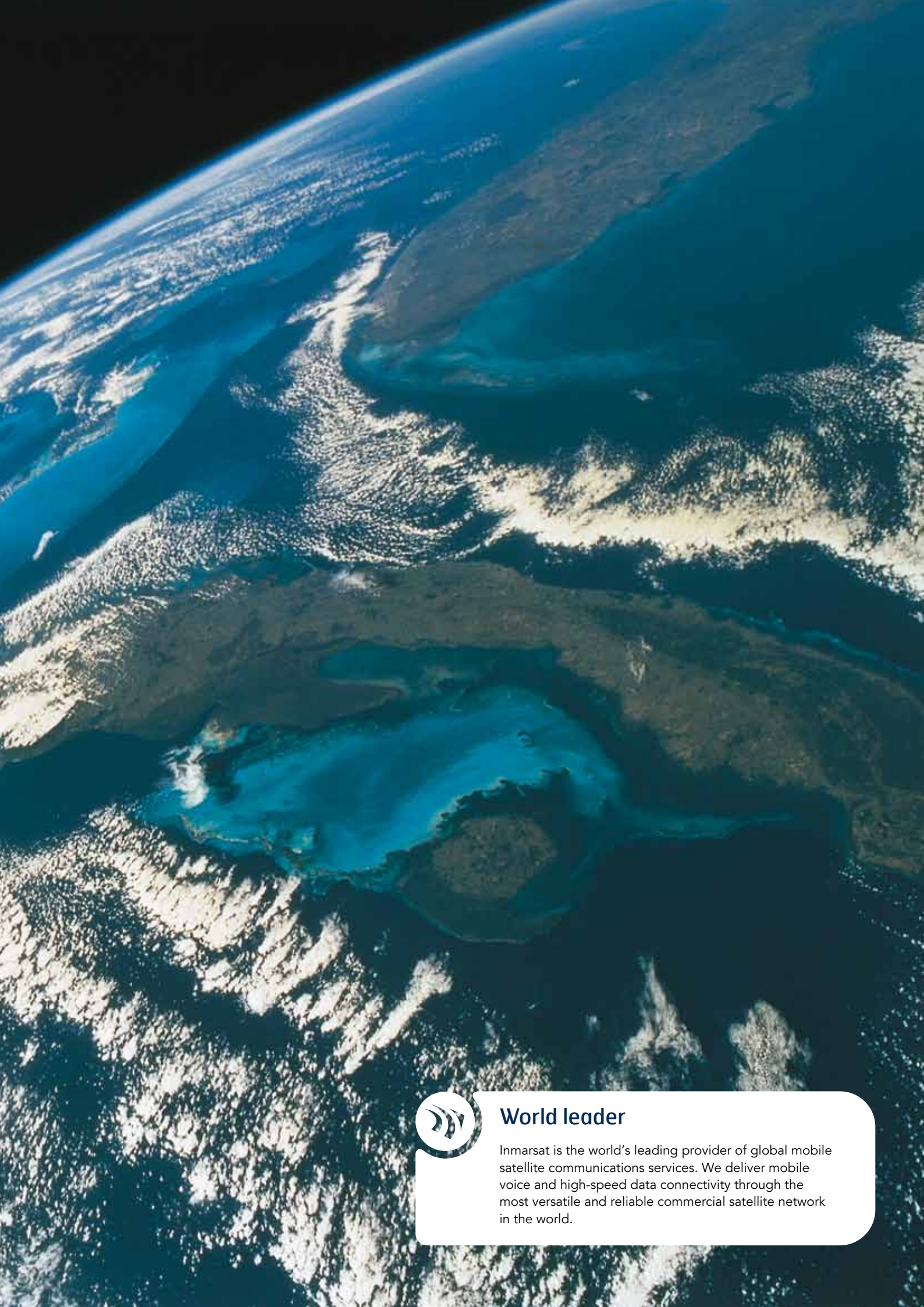
What all these customers have in common is the need for dependable mobile communications in places where the local network is unreliable or simply does not exist. They rely on Inmarsat to provide mission-critical mobile connectivity and our services are a trusted and integral part of their global operations

Inmarsat services are available through a worldwide network of partners. As well as being some of the world's leading telecommunications service providers, they all have specialist satellite industry experience and we work together to develop innovative, bespoke solutions for organisations all over the world.

The successful launch of our latest generation of satellites – the Inmarsat-4s – with their significantly enhanced power and capacity has laid the foundations for the evolution of our services. Our Broadband Global Area Network service – BGAN – offers global voice and high-speed data connectivity to land-based customers, through terminals which are about the size of a laptop. FleetBroadband and SwiftBroadband deliver this capability to our maritime and aeronautical customers – completing our vision of Broadband for a mobile planet™.

Inmarsat's leadership of the mobile satellite communications industry was reinforced with our entry into the satellite phone market. We will be launching a global satphone service based on a new generation of handsets.





World leader

Inmarsat is the world's leading provider of global mobile satellite communications services. We deliver mobile voice and high-speed data connectivity through the most versatile and reliable commercial satellite network in the world.



The most advanced commercial satellite communications network




The Inmarsat-4s are the most advanced commercial communications satellites ever launched. Each one is sixty times more powerful than an Inmarsat-3 satellite.

Our satellites

Delivering global mobile broadband coverage

➔ Inmarsat owns and operates one of the largest satellite communications networks in the world. It comprises a fleet of eleven satellites in geostationary orbit around 36,000 kilometres from earth and includes our latest generation Inmarsat-4 (I-4) satellites, which were launched in 2005 and 2008. The I-4 fleet is expected to have a commercial life into the 2020s.



 I-4 Americas  I-4 EMEA  I-4 Asia-Pacific

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.

The I-4s have set a new benchmark for mobile satellite communications in terms of their power, capacity and flexibility. One I-4 satellite is sixty times more powerful than an Inmarsat-3 satellite. The three in-orbit I-4s deliver broadband on a global basis except for the extreme polar regions.

Each I-4 satellite generates hundreds of high power spot beams, which can be re-configured in real-time so that network capacity is available in areas of high service demand.

I-4 traffic is mostly carried as Internet Protocol (IP) packet-switched data. This extends our network's ability to provide enhanced digital mobile communications. It also supports traditional circuit-switched services, such as voice and ISDN, supporting legacy back-office systems, while providing a clear migration path to IP.

Managed by our Satellite Control and Network Operations centres in London, our I-4 satellite system is linked to the internet and the world's terrestrial telephone networks via three Inmarsat-owned Satellite Access Stations (SAS) in Italy, the Netherlands and Hawaii.



Inmarsat has also entered into agreement with the European Space Agency (ESA) to become the commercial operator of a new satellite called Alphasat. The satellite is part of an ESA initiative to develop a new spacecraft platform capable of carrying a large communications payload. Alphasat is scheduled for completion in 2012 and will supplement the existing I-4 satellites. It will provide service over Europe, the Middle East and Africa, allowing access to additional L-band spectrum in these regions.

Land mobile services

Redefining remote

➔ The first new service to be launched on the I-4 satellites was our Broadband Global Area Network service – BGAN. It is the fastest growing service in our history and has already been used commercially in over 190 countries by customers in a wide range of sectors including media, government, oil and gas and aid.



Delivering voice and high-speed data services, BGAN enables users to set up a broadband mobile office in minutes, regardless of the state of local terrestrial networks. You can remotely access your corporate network via a secure VPN connection to use email, the internet and other desktop applications, while making phone calls at the same time.

It enables you to be as productive away from the office as you are back at base, wherever you are on the planet.

BGAN delivers contended data rates up to half a megabit per second for standard data applications. For applications where quality of service is paramount, such as live video broadcasting, it has the unique capability to provide guaranteed data rates on demand.



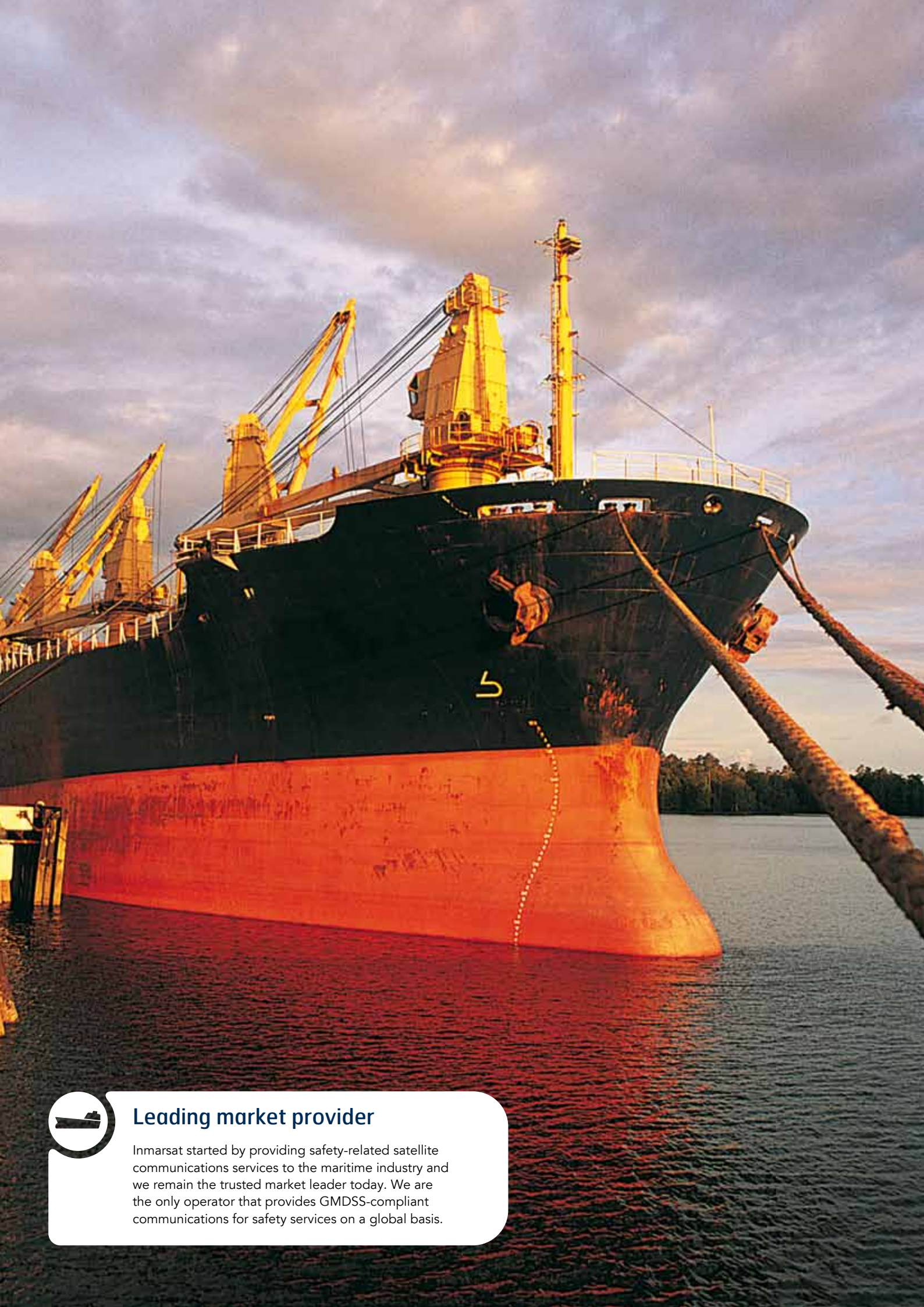
The service is accessed through a range of small, lightweight satellite terminals, which are quick to set up and easy to use. There are terminal options for both single users who move from one location to another, and small teams who may need to establish a temporary office for longer periods. There are also terminals that can be mounted on vehicles.

If the main requirement is simply to make a phone call, Inmarsat's IsatPhone provides a low-cost handheld option. Currently, the service can be used within Asia, Africa and the Middle East. We will be launching a global satphone service based on a new generation of handsets.



A world first

BGAN is the world's first mobile communications service to provide both voice and broadband data simultaneously through a single, highly compact device on a global basis. It is also the first mobile communications service to offer guaranteed data rates on demand.



Leading market provider

Inmarsat started by providing safety-related satellite communications services to the maritime industry and we remain the trusted market leader today. We are the only operator that provides GMDSS-compliant communications for safety services on a global basis.

Maritime services

High-speed data on the high seas

➔ Inmarsat plays an integral role in the lives of seafarers. When it comes to delivering reliable maritime communications and safety services, no other network can match the global reach and breadth of services we offer.

Inmarsat offers an unparalleled range of voice, fax and data services to suit all types and tonnages of vessel from small yachts to the largest ocean-going ships, enabling seafarers to communicate as effectively on board as they can when they are ashore.



Thousands of vessels in the merchant, fishing, leisure and government sectors rely on our services for position reporting, weather and navigational chart updates and for enabling crew to call or email friends and family – a vital resource for maintaining morale when away at sea for potentially months on end.

Our Fleet services have become the de facto standard for deep-sea ships, with over 20,000 terminals commissioned.

Most important, however, is Inmarsat's role in providing safety services. Our satellite services form the core of the Global Maritime Distress and Safety System (GMDSS), which instantly connects mariners around the world to the nearest rescue co-ordination centre. Many lives have been saved thanks to Inmarsat and countless seafarers set sail every day, secure in the knowledge that help is at hand at the touch of a button.

The reliability of our network is fundamental to delivering this capability. On average, our network availability exceeds 99.99 per cent. This is continually monitored by the International Mobile Satellite Organisation (IMSO) to ensure we meet the requirements of the International Maritime Organisation (IMO) for GMDSS to the maritime industry.

In 2007, Inmarsat enhanced its maritime portfolio with the launch of FleetBroadband. It delivers simultaneous voice and broadband data – with contended rates up to 432kbps per channel – plus the option of guaranteed data rates on demand – up to 256kbps. The service also enables more advanced applications such as the use of GSM phones at sea, using pico cell technology.

FleetBroadband is the fastest growing maritime service in our history and is being used on some of the largest international merchant fleets.

FleetBroadband is available globally except for the extreme polar regions.

Aeronautical services

In-flight connectivity, the intelligent way

➔ Inmarsat was the first civil operator to introduce satellite communications services for the aeronautical industry, with the launch of its Aero H service in the early 1990s. Today, with more than 10,000 aircraft in the air transport, business aviation and government sectors relying on global in-flight voice and data connectivity from Inmarsat, we are the most widely used satellite operator in the industry.

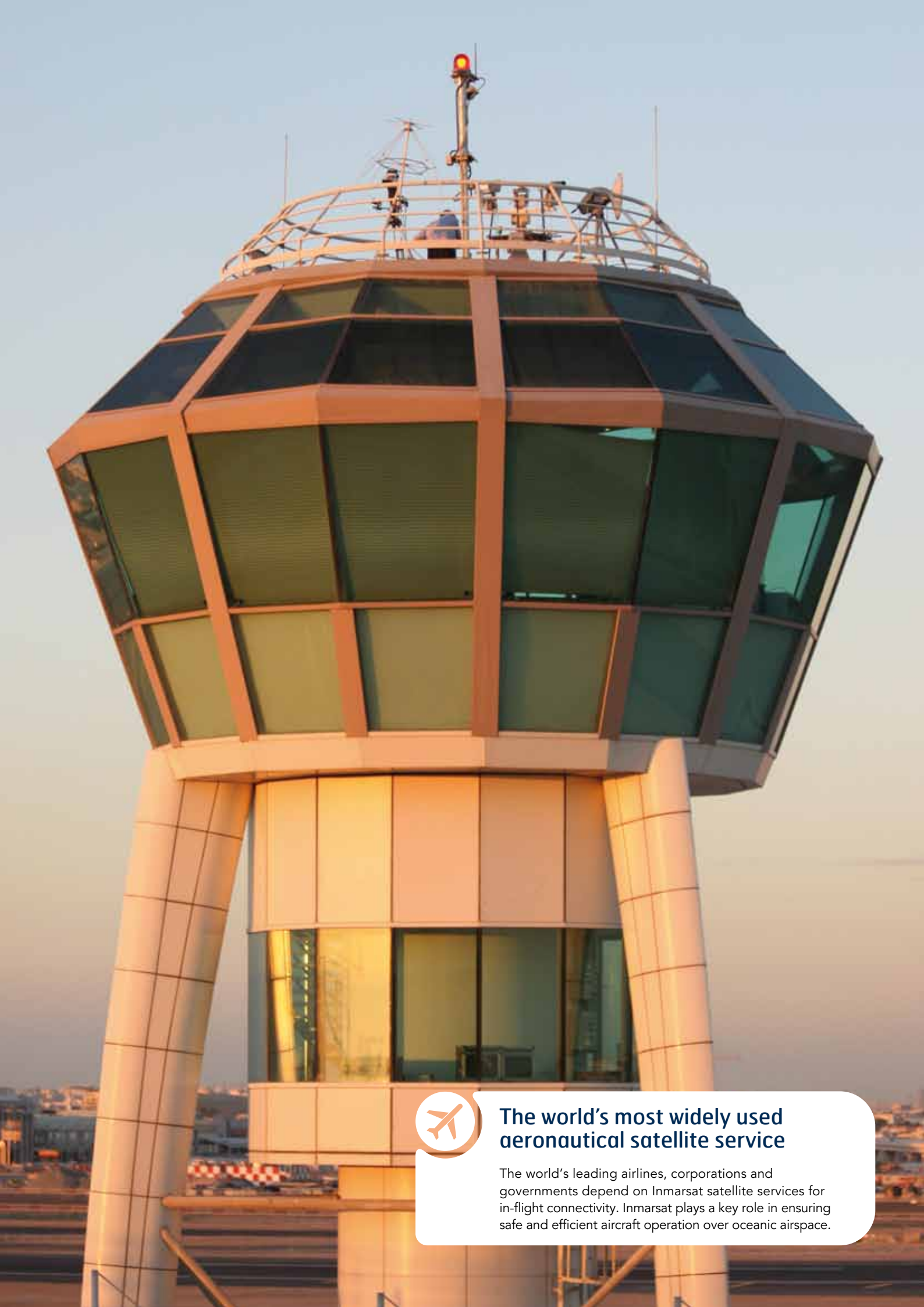


Over ten years ago, Inmarsat was the first operator to comply with the standards and recommended practices of the International Civil Aviation Organisation. This allows aircraft operators to fly safely and more efficiently outside traditional radio coverage.

The launch of the Inmarsat-4 satellites paved the way for SwiftBroadband, our latest generation aeronautical service. Designed to meet the demand for increased bandwidth across all areas of aviation, it delivers simultaneous voice and broadband data communications to the aircraft and data streaming on-demand, providing the foundation for the 'connected aircraft' of the future.

A single Inmarsat installation enables a diverse range of in-flight applications for the cockpit including air traffic control, safety communications, engine performance monitoring, operational planning, flight plan and weather updates and other Electronic Flight Bag applications. It also enables air-to-ground telephony, email, internet, VPN, videoconferencing, text services and in-flight news updates and mobile phone services for passengers.

Delivering scalable, cost-efficient bandwidth, as and when you need it, SwiftBroadband is in-flight connectivity, the intelligent way.



The world's most widely used aeronautical satellite service

The world's leading airlines, corporations and governments depend on Inmarsat satellite services for in-flight connectivity. Inmarsat plays a key role in ensuring safe and efficient aircraft operation over oceanic airspace.