



# Discover the power of Fleet Xpress

Connectivity for Cruise and Ferry



CONTINUOUS  
CONNECTIVITY



GUARANTEED  
PERFORMANCE



CONTROLLED  
COSTS



FULLY MANAGED  
SERVICE



APPLICATIONS

# Connecting the maritime world

Offering the broadest portfolio of mobile voice and data solutions on the market.

Inmarsat is the world leader in global, mobile satellite communications. Over 160,000 vessels rely on our end-to-end service availability and coverage for operational communications and safety services. We are the leading provider of GMDSS (Global Maritime Distress and Safety System), helping to protect 1.6 million seafarers at sea.

We have 13 satellites in geostationary orbit delivering mobile safety and broadband voice and data services around the world. Our ground network directs traffic between our satellites and terrestrial networks such as internet and phone networks. The Network Operations Centre (NOC) at

our HQ in London is responsible for the co-ordination of all network activities, constantly monitoring the ground and satellite networks to ensure we stay online.

Inmarsat is headquartered in London with offices, network management and distribution centres internationally. Always on, we connect people and things around the globe, 24/7, with the widest portfolio of global voice, broadband and Internet of Things (IoT) services in the market today

We offer the broadest portfolio of mobile voice and data solutions on the market. So we can meet the needs of all types and sizes of vessels – and every budget.

# The drive for more onboard connectivity

It's never been more important to equip vessels with reliable high speed broadband connectivity to meet the growing needs of shipping companies, transport operators, passengers and crew.

Digitalisation is enabling maritime companies to gain operating efficiencies, become more competitive and to enhance their end to end services. The ability to communicate with assets at sea, and to gather and analyse a wealth of operational data is unlocking cost savings in fuel, supplies and better preventive maintenance.

Meanwhile, ferry companies and transport operators are seeking to use real-time information to optimise intermodal transport chains for goods and people.

With onboard connectivity, cruise and ferry passengers are filling social media feeds with their travel experiences, in the process helping to stimulate interest in travel and attract new passengers. Many travellers are opting for trips where they can work remotely if needed, choosing vessels that have high-speed, reliable onboard Wi-Fi.

For captains and crew, staying in touch with friends and family is vital during the long periods, often many months, of life at sea. Having access to onboard Wi-Fi, supporting email, message and chat, can be essential to maintain strong relationships and make productive use of down time.





# Fleet Xpress

Redefining maritime communications

For 40 years, Inmarsat has built a reputation for world-leading satellite communications that meet customer needs with services that are mobile, reliable and capable of handling large volumes of data.

Fleet Xpress, from Inmarsat, takes maritime communications to the next level. With high speeds, unlimited bandwidth, unprecedented reliability and controlled costs – Fleet Xpress is powering a data revolution.

High data speeds are enabled by Inmarsat's Global Xpress Ka-band technology combined with the proven reliability of FleetBroadband. It is the first and only globally-available, high-speed satellite network owned and managed by a single operator. This ensures that ships using Fleet Xpress experience a continuous, consistent service as they move across the globe.

Onboard terminals are compact, with antennas of either 60cm or 1m diameter which have been type-approved by

Inmarsat for the Fleet Xpress service. The terminals deliver a high throughput and are pre-commissioned on the network to ensure plug-and-play deployment.

Inmarsat owns and manages the entire Fleet Xpress service, from satellite networks to terrestrial backbones – delivering a standardised platform that is easy to manage, whilst offering exceptional performance, security and reliability.

Inmarsat's Land Earth Stations (LES) are fully redundant, so seafarers can be confident they will remain in contact without needing to chase satellites. With Fleet Xpress, customers are always-on, always-connected.

Installed on more than 7,600 ships, Fleet Xpress is the world's fastest growing satellite communications service.

## Five powerful sets of benefits that together make Fleet Xpress unique



### Continuous Connectivity

Ultimate reliability through a dual satellite constellation using Ka-band with unlimited L-band back-up, ensuring seamless global mobility.



### Guaranteed Performance

Committed data rates backed-up by service level agreements guarantee that the customer always gets what they pay for.



### Controlled Costs

More accurate cost management with a wide selection of flexible subscription packages and one invoice. Unlimited data means no unexpected bill shock.



### Fully Managed Support

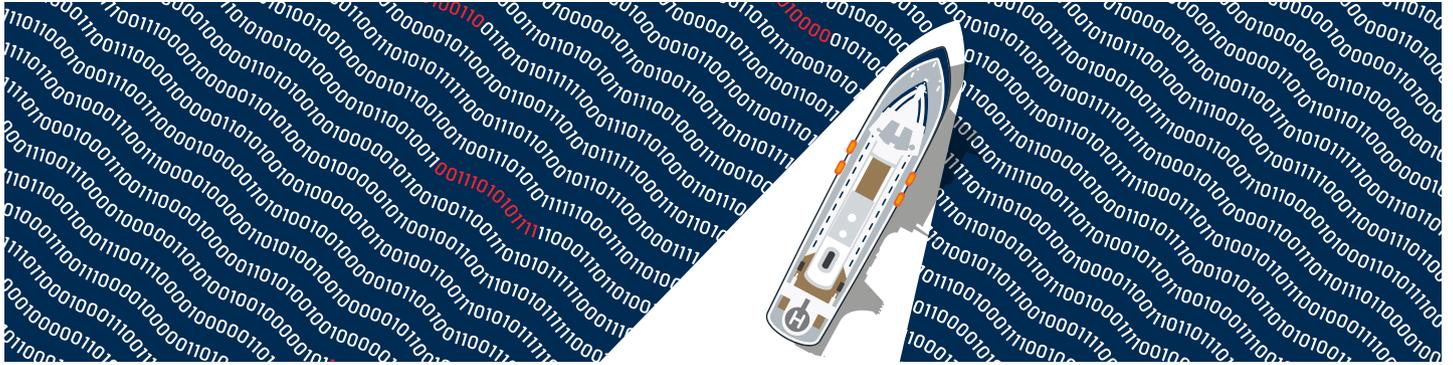
Standardised plug-and-play service with 24/7/365 management, monitoring and support globally, for simplicity and complete peace of mind.



### Applications

A unique opportunity for enhanced operations by deploying value added services developed by Inmarsat and third party application providers.

# Inmarsat applications



## Cyber Security

Cybercrime is an inevitable downside of a digital economy, so being protected has to be a priority for every ship operator and manager, both shore-side and at sea. Inmarsat has developed the Fleet Secure portfolio to give ship operators and managers the tools they need to assist in protecting their fleet from cyberattacks, detect vulnerabilities and respond to threats.

## Fleet Secure UTM for continuous vessel protection

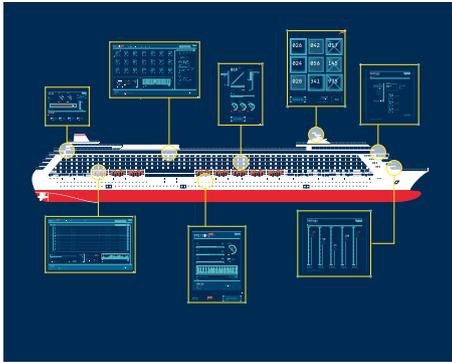
The Fleet Secure UTM (Unified Threat Management) service is supported by Trustwave and has a comprehensive set of tools to continuously inspect, detect and protect all the data traffic going to and from a vessel. Maritime-specific threats have been defined and used to customize the Fleet Secure UTM, which incorporates multiple security functions into a single service.

As well as detecting external attacks via the high-speed satellite broadband connection, vessel networks are also protected from intrusion via infected USB sticks and crew devices connected to the onboard WAN/LAN.

## Fleet Secure Endpoint

Fleet Secure Endpoint is a powerful multi-layered endpoint security solution. It enables both remote monitoring of onboard computers and mobile devices, and can remove infections and threats on any onboard network.

Advanced monitoring features give users a greater sense of control and awareness over their environment. Bundle with Fleet Secure UTM over Fleet Xpress, to offer full ship-to-shore inspection, detection and protection.



## Fleet Data

Fleet Data is an enabler to improve operational efficiency, increase performance and benchmark data across an entire fleet or a single vessel. Inmarsat's Fleet Data platform extracts the data from onboard sensors and uploads it to a secure central cloud-based database for easy access with no additional airtime cost.

Users can access all of their onboard sensor data from a simple dashboard and use Application Program Interfaces (APIs) for easy customisation and data analysis.



## Fleet Hotspot

Fleet Hotspot is a value added module that provides a dedicated crew Wi-Fi portal which enables crew or passenger internet use to be separated from the ship's operational use. This means that crew or passengers can access a self-service portal to pay for internet access on their own phones, tablets and laptops. Crew or passenger internet use operates independently from the ship company bandwidth and network.

# Future network transformation

Worldwide demand for mobile broadband connectivity has grown exponentially in recent years and Inmarsat expects this trend to continue. Already, Inmarsat has begun the next phase of GX (Global Xpress), enhancing global mobile broadband coverage with a transformation in network capacity and service capability.

In May 2019, Inmarsat announced a contract with Airbus to manufacture three next-generation GX satellites (GX7, 8 and 9), with the first scheduled to launch in the first half of 2023. This new satellite programme will transform Inmarsat's global network, providing unprecedented agility in space segment deployment, as well as an enhanced ability to adopt and integrate future technology innovation. Dynamic beamforming will replace traditional spot beams to simultaneously create thousands of independent beams of different sizes, bandwidth and power, that can be reconfigured and repositioned across the globe in real time.



## Polar coverage

In July 2019, Inmarsat announced that it will introduce two new satellite payloads dedicated to the Arctic region in a partnership with Space Norway and its subsidiary Space Norway HEOSAT. These new Global Xpress (GX) payloads will support the rapidly growing demand for seamless, reliable, high-speed mobile broadband services in the Arctic and throughout the world.

They represent the world's first and only mobile broadband payload dedicated to the Arctic region and will integrate seamlessly into the current and planned GX network. The GX payloads, scheduled to launch in 2022, will be fully compatible with current and future GX terminals, ensuring that current Global Xpress customers can benefit from the further extension of the network.

# Global Xpress

## GX1 - GX10B

Scheduled launches of GX fleet



Please note that these are indicative positions

**inmarsat**  
The mobile satellite company

# How to buy

We are represented in more than 60 locations across the globe, our world-class products, services, solutions and 24/7/365 customer support facilities are available directly from Inmarsat.

Email us for more information at [maritime.passenger@inmarsat.com](mailto:maritime.passenger@inmarsat.com)

[inmarsat.com/gxfx](https://inmarsat.com/gxfx)

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