

One Marine Fleet Xpress

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What is Fleet Xpress

- 1** Fleet Xpress is a revolutionary high-speed maritime service from Inmarsat
- 2** Based on the Global Xpress network, combined with Fleet Broadband for unlimited back-up and ultimate reliability
- 3** Fleet Xpress is powering a new ecosystem of value added services from certified third party developers to enhance operational efficiency, crew welfare, safety & compliance

Fleet Xpress takes maritime communications to a higher level for ship operators, managers and crew by providing a seamless mobile broadband service that improves efficiency via a scalable, high-performance, plug-and-play service. Via Inmarsat's Global Xpress Ka-Band Technology, Fleet Express delivers high data speeds with unique reliability and ease, combined with the proven reliability of FleetBroadBand.

Global Express is an innovative and unique service that provides a high-speed, globally-available satellite network owned and managed by a single operator. Ships using FleetXpress experience a continuous and consistent service as they travel across the globe and FleetXpress customers benefit by having the communications of their fleet seamlessly managed by one operator.

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.



fleet xpress benefits



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



Fully Managed Service

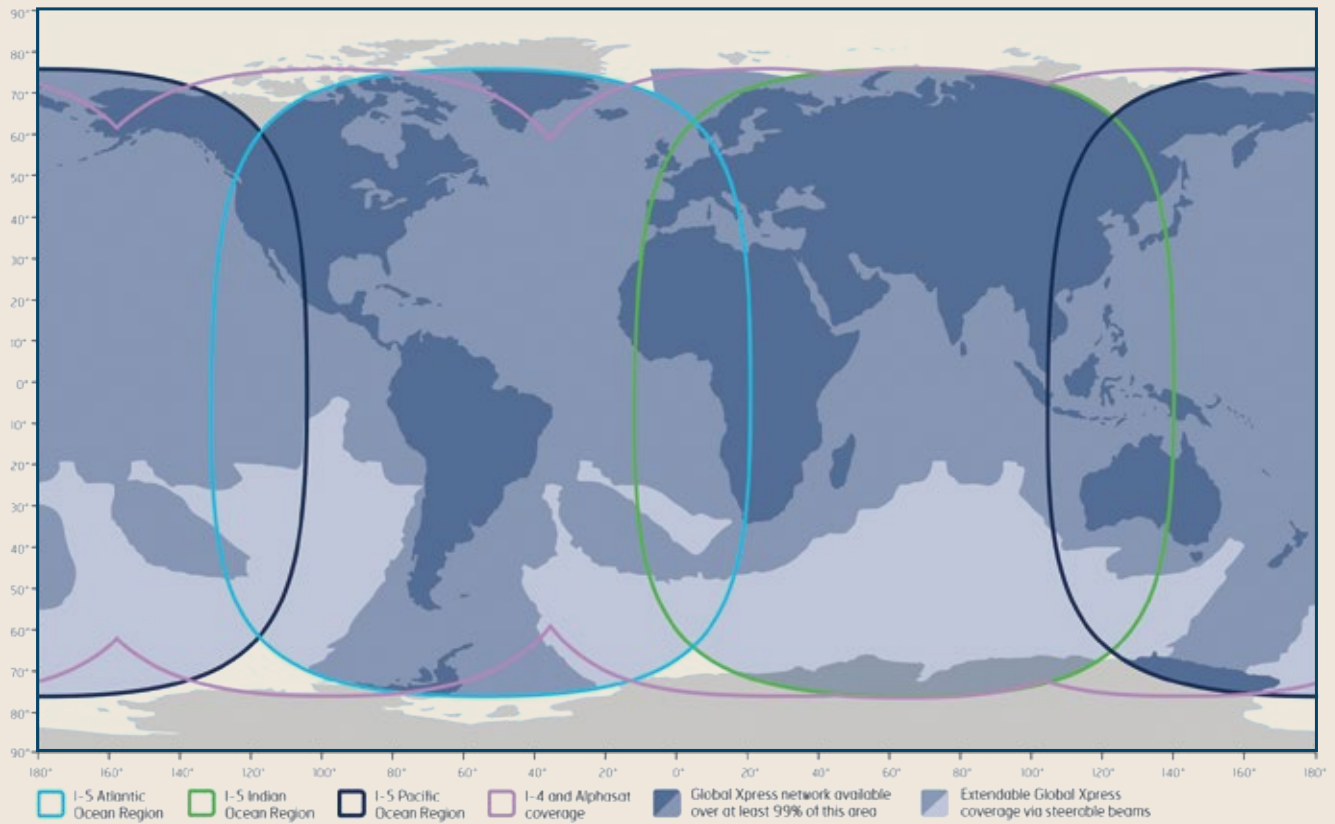
Standardised plug-and-play service with **24/7/365 management, monitoring & support globally**, for simplicity and complete peace of mind



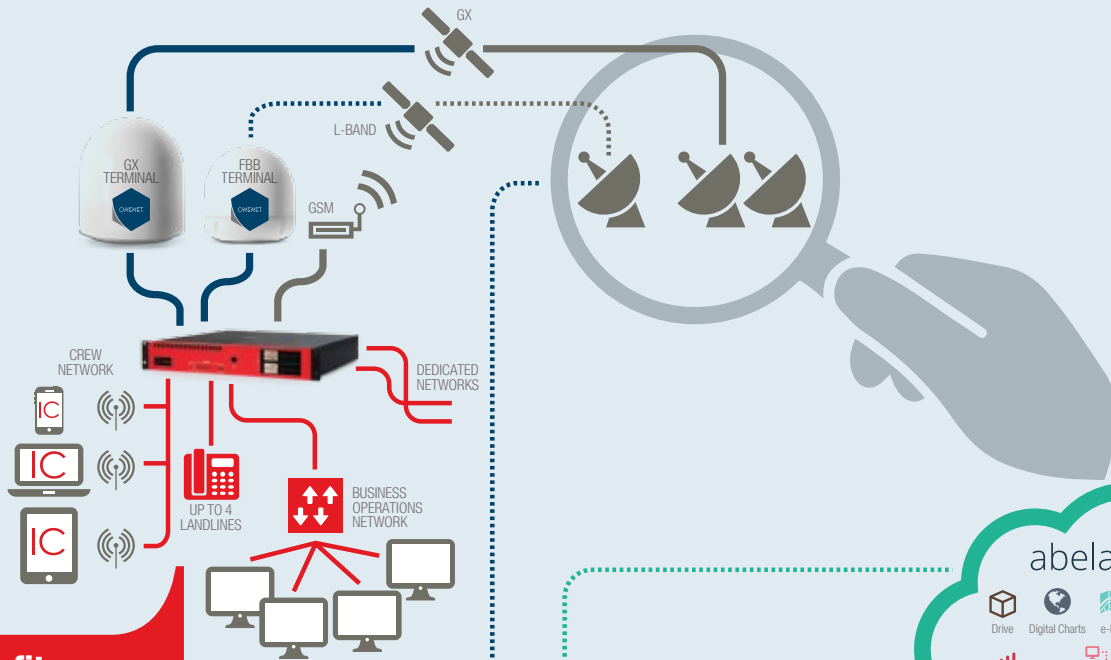
Business Applications

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

FX Coverage Map



This map depicts Inmarsat's expectations of coverage following the commercial introduction of Inmarsat's fourth L-band region. It does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions. Fleet Xpress coverage August 2016.



zwana benefits

UTM

UTM firewall offers a suite of cybersecurity measures, such as:

- Application control
- Web blocking
- Packet filtering (filtering of packets deemed unsafe for work websites and emails)
- Packet inspection via gateway antivirus for malicious virus signatures (applicable with HTTP, HTTPS, FTP, TCP, SMTP, POP3)
- Intrusion prevention system (in tandem with application layer content inspections, to monitor network traffic and system activities)
- Spam blocking

Virtual Environment

Load your own virtual machine emulators on the eight core-processors of Zwana FBB, SAT, PMS, and ECDIS.

Crew Internet Café

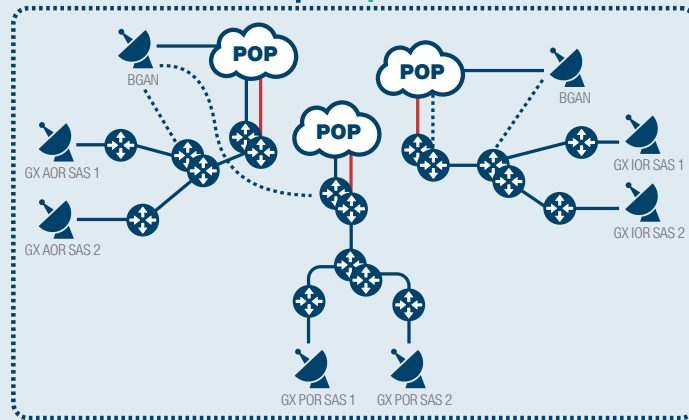
- For android and iOS
- No background running data usage or updates
- No unwanted data usage

Soft NSD

Replaces the hard NSD, offering extensive functionality.

Hardware Redundancy

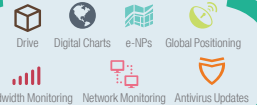
- Two Zwanas operating as a backup to each other
- Never lose data or have a vessel floating without any communication
- No single point of failure



Infrastructure of One Net

- Three PoP infrastructure located in the US, Europe, and the Far East
- Interconnection of Global Xpress network with L-band network
- Options for additional facilities

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Drive

A file and folder synchronisation mechanism enabled through the use of a cloudbased storage drive and eMTM.

Digital Charts

This system enables electronic charts (UKHO publications of digital charts with AVCS and AIO) to be regionally selected and updated.

e-NPs

The e-NPs module allows all electronic Nautical Publications of the paper-based Nautical Publications to be downloaded and kept up-to-date.

Global Positioning

Global Positioning facilitates frequent GPS locations of the vessel, with a minimal cost of 54 bytes per update in comparison to the standard of 102,400 bytes per update.

Bandwidth Monitoring

A graphical display of data over a period of time enables an analysis of where and when the bandwidth has been used.

Network Monitoring

Network monitoring and scanning of the various crew and business networks on the vessel gives a clear image of the IT infrastructure in real-time.

Antivirus Updates

The network is protected at all times by ensuring that all antivirus software is up-to-date and installed.

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