



Services for Defence



A key component of interoperability

➔ Inmarsat delivers secure, reliable mobile broadband services that enable interoperability on a global basis – on land, at sea and in the air. We help maximise your operational effectiveness and chances of mission success.

In recent years, the separation of land, sea and air operations has fallen away. Today, communications that enable interoperability not only among different armed services, but across multi-national coalition forces, have become increasingly important. Equally, the emphasis is more on expeditionary warfare, with small, highly mobile tactical units that are deployed at short notice to remote locations.

Inmarsat's Broadband Global Area Network service - BGAN - is the world's first mobile communications service to provide simultaneous voice and broadband data on a global basis. It provides secure reachback and in-theatre interoperability through a single, truly portable terminal that is compatible with both circuit-switched and IP-based cryptographic devices.

BGAN enables IP-based data connectivity for email, internet and VPN access, while supporting simultaneous voice and ISDN. About the same size and weight as a laptop, BGAN terminals are rapidly becoming standard in a deployable Communications and Information Systems solution.

BGAN delivers global mobile broadband for use on land. Solutions for maritime and aeronautical environments are available using our FleetBroadband and SwiftBroadband services. Together they enable tri-service interoperable communications,

enabling disparate elements to be linked within all dimensions of the battlespace.

Inmarsat's mobile broadband services are delivered over our latest generation I-4 satellites. They are the most advanced commercial communications satellites ever launched and are expected to be in operation until around 2020 – providing defence users with a stable and reliable platform for the future.

“BGAN has proven itself time and again on operations as a success. It has managed to provide a service in harsh, and at times, hostile conditions. With the ability to communicate large amounts of data to the troops it keeps those who require it well informed; its impact on morale by delivering the e-bluey service has been first rate – a reliable, versatile and effective capability.”

Lt Col M Griffiths
UK MoD DEC CCI



Global interoperability

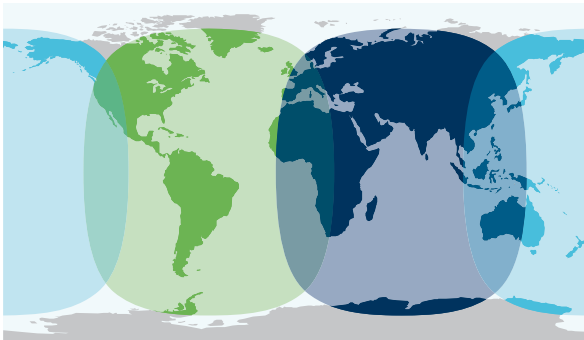
Maximise operational effectiveness with our global mobile broadband services – on land, at sea and in the air.

Image courtesy SHAPE.

Enabling truly mobile br

On land, at sea, in the air

Service coverage



I-4 satellite F1 I-4 satellite F2 I-4 satellite F3
(launch planned for 2008)

“We have found BGAN to be very useful during operations; it is able to cope with downloading large amounts of data, it's easy to set up, and doesn't take up much space when deploying. We have experienced little to no problems with this piece of kit.”

WO2 A Hall RLC
British Army

Global coverage

The first two I-4 satellites, positioned over the Indian and Atlantic Ocean regions, cover 85 per cent of the world's land mass and 98 per cent of the population. The third I-4 satellite, due to be launched in 2008, will extend coverage to the Pacific Ocean region, delivering mobile broadband globally except for the extreme polar regions.

Interoperable

BGAN, FleetBroadband and SwiftBroadband support the latest IP-based services, as well as traditional circuit-switched voice and data, integrating seamlessly with your existing networks. With the increasing emphasis on IP-based communications by the major military forces around the globe, Inmarsat offers an unparalleled degree of interoperability for land, sea and air forces.

Simultaneous voice and broadband data

Through a single terminal, be it BGAN, FleetBroadband or SwiftBroadband, you can access data applications and make a voice call at the same time. You can also select guaranteed data rates on-demand, to support, for example, a range of video-based applications. And to ensure bandwidth availability, network capacity can be re-directed to areas of heavy demand.

Mobile and flexible

Land-based BGAN terminals are compact, lightweight and easy to set up for rapid deployment. Vehicular BGAN terminals provide voice and broadband data on the move. FleetBroadband services are provided through high and low-gain antennae; while SwiftBroadband can often be delivered through an existing aircraft antenna, preserving investment in existing infrastructure.

oadband C4

Secure

For many years, Inmarsat has enabled secure communications for defence customers by ensuring compatibility between our satellite network and cryptographic devices. BGAN is compatible with a range of legacy and current devices including STU-IIb, STE, Taclane, KIV-7, KG-250, Brent and DC2K. FleetBroadband and SwiftBroadband have also been designed to be compatible with cryptographic devices, ensuring complete tri-service interoperability.



Easy to use

BGAN has been designed for simplicity and easy integration. No specialist technical expertise is required to set up and connect to the network. All terminals can be used worldwide and the user interface is standard. There are never any compatibility issues with local telecoms networks, because you connect directly to the satellite.

Trademark reliability

Inmarsat's name is synonymous with reliable communications, given our responsibility for providing maritime safety services. We provide the toughest communications links in the business, with an average network availability exceeding 99.99 per cent. All terminals are put through rigorous testing and the whole system is backed 24/7 by an extensive customer service support organisation.



Enhanced connectivity

for the global mobile environment

Mobile broadband services

	Land	Sea	Air
Service	BGAN	FleetBroadband	SwiftBroadband
Standard IP	Up to 492kbps over a shared channel	Up to 432kbps over a shared channel	Up to 432kbps per channel; 2 channels per terminal
Streaming IP	Guaranteed data rates up to 256kbps	Guaranteed data rates up to 256kbps	Guaranteed data rates up to 128kbps
Voice	Voice calls with voicemail and other 3G services	Voice calls with voicemail and other 3G services	Voice calls with voicemail and other 3G services
ISDN	Standard ISDN at 64kbps	Standard ISDN at 64kbps	–

Applications

- ➔ Email, webmail and VPN / intranet access
- ➔ Secure voice and data
- ➔ Large image transfer
- ➔ Store and forward video / surveillance
- ➔ Videoconferencing
- ➔ Welfare communications
- ➔ Comms-on-the-move
- ➔ Blue Force Tracking / situational awareness
- ➔ Multicast / netted comms
- ➔ Engine / system telemetry

Terminals

BGAN is accessible through a range of compact, highly portable terminals with performance options to suit team needs. Vehicular comms-on-the-move systems comprise an interior rack-mountable terminal and roof-top tracking antenna.

FleetBroadband is available through two types of terminal, differing in size and performance capability.

Both terminals are designed specifically for the marine environment and support voice, data, fax and SMS.

SwiftBroadband terminals are mounted inside the aircraft and utilise existing high-gain Aero H+/Swift 64 antennae, if present.



Comms-on-the-move

Delivering real-time, high-speed connectivity to units at the edge, during fast-moving operations.

How to buy

Compagnia Generale Telemar

viale Tiziano , 19

00196 Roma (Italy)

Tel: +39/06/3221800

Fax:+39/06/3240148

E-mail : sales@cgtelemar.com

Web: www.telemarspa.it

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