inmarsat

Transforming first responder communications

→ BGAN is the only mobile satellite service to offer broadband data with simultaneous voice, through a single, truly portable device on a global basis. It is also the first service to offer guaranteed data rates on demand – up to 256kbps – for live video feeds and videoconferencing.

Inmarsat's Broadband Global Area Network service - BGAN - is transforming emergency and disaster response operations with a compelling combination: voice and high-speed data, completely independent of terrestrial networks, using small, highly portable terminals. BGAN provides communications operability from the first moment of a disaster response, even when terrestrial networks are disrupted. It also ensures interoperability for individual firefighters, police officers and emergency responders as they enter the disaster zone with different communications devices.

Whenever your first responders deploy, BGAN keeps them connected.

Applications

- Broadband mobile command post: email, internet, VPN, telephony

- Connectivity between individual first responders, mobile command posts and off-site leadership, including using their standard HF radios and cell phones

- Fixed or vehicular mobile command post: supporting multiple users from a single device via a WLAN

- Situational awareness using live video from isolated sites

In-field equipment

- BGAN satellite terminal

- BGAN voice handset

- Laptop (MAC or PC)

- Handheld video camera

- Power adapters AC/DC, batteries, cables

- IP-based hardware and software interoperability solutions

Key benefits

Simultaneous voice and broadband data

- Quickly re-establish essential communications at a disaster zone, regardless of the state of terrestrial infrastructure

- Send status reports quicker in crisis situations

- Responders can speak to off-site leadership, while sending a live video update

Reliable

- Continue rescue efforts unimpeded by disruption to terrestrial wireline and cell phone infrastructure

- Network capacity can be dynamically re-directed to areas of high usage

- Ensures bandwidth availability is maintained as other agencies enter the disaster zone

- Range of highly robust, satellite terminals to withstand challenging disaster environments

Easy to use

- Quick and easy to set up and shut down

- No technical expertise required – enables connectivity for individual first responders

Highly portable

- Easily carried in a backpack with other emergency equipment and transferred between locations within the disaster area

- Ideal for rapid deployment

Flexible

- BGAN supports both ISDN and IP – compatible with US Defense Department encryptors – and supports a wide range of IP-based interoperability solutions

- Vehicular version provides on-the-move connectivity for small mobile command posts and fits into a standard garage
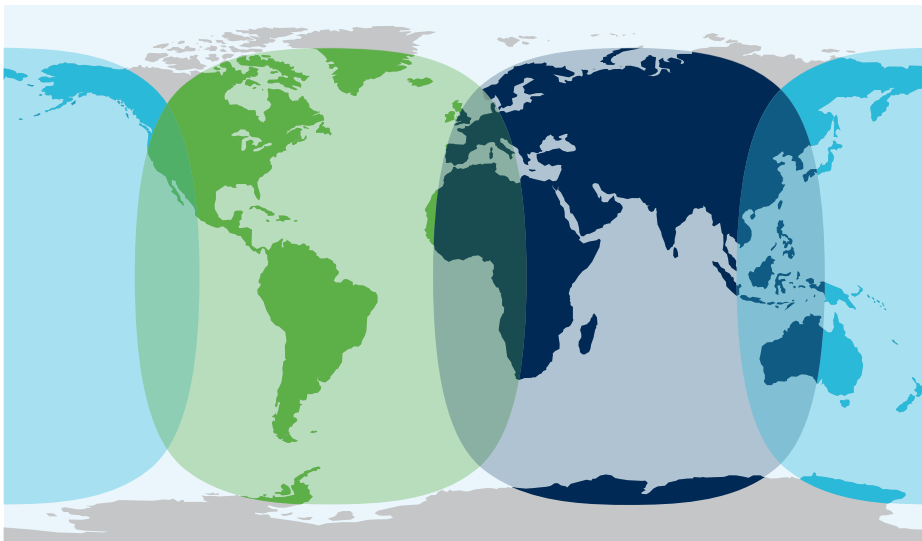
Competitively priced

- Significantly lower costs for both terminals and airtime compared with previous mobile satellite services

- Can be deployed to more mobile teams, enabling real-time communications from more locations – ensures the right assistance gets to the right place at the right time

Global coverage

- Currently available across the lower 48 US states, Central and Eastern Canada. Worldwide coverage after the launch of the third I-4 satellite

- Deploy same device nationwide to all mobile teams

Coverage

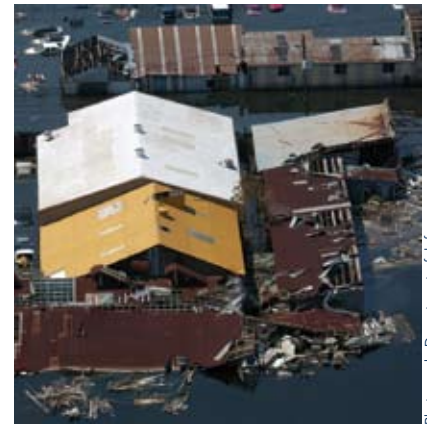BGAN is accessible in Europe, Africa, the Middle East, Asia, North and South America.

- I-4 satellite F1
- I-4 satellite F2
- I-4 satellite F3 (launch date to be finalised)

The 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 launch date of the F-3 satellite will be determined in due course.

How to buy BGAN

BGAN is available through Inmarsat distribution partners and service providers in more than 80 countries. Visit our website to find the right partner for your organisation.

Photograph: Department of defence

inmarsat.com/emergencyresponse